

REQUEST NUMBER: 10-1325

**LOS ALAMOS
NATIONAL LABORATORY**

These Samples are on:

LANL Request Number:10-1325

Per Agreement Number:126310011

Project Cost Code: MR3A05529E00

SHIP DATE: 1/19/2010
TURNAROUND/REPORT DUE: 2/18/2010
TURNAROUND REQ'D: 30 Days
RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS

EPA:300.0			
1	RE15-10-8410	R	1/14/2010
1	RE15-10-8411	R	1/14/2010
1	RE15-10-8412	R	1/14/2010
1	RE15-10-8413	R	1/14/2010
1	RE15-10-8416	R	1/14/2010
1	RE15-10-8417	R	1/14/2010
1	RE15-10-8418	R	1/14/2010
1	RE15-10-8420	R	1/14/2010
1	RE15-10-8421	R	1/14/2010

Tuesday, January 19, 2010

REQUEST NUMBER: 10-1325

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA.300.0	SW-846:6010B	1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
		1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
EPA.353.2	SW-846:6010B	1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
SW-846:6020	SW-846:6020	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8419	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	

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REQUEST NUMBER: 10-1325

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
		1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
	SW-846:6850	1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
	SW-846:7470A	1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
		1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	

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PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:7471A						
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
SW-846:9045C						
		1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	

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PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:9045C						
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	

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LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1325

LOS ALAMOS

REQUEST NUMBER: 10-1325

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/18/2010

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
RE15-10-8442	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8442	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE15-10-8442	1	POLY	SW-846:6850	Ice	W
RE15-10-8442	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8410	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8410	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8411	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8411	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8412	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8412	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8441	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8441	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8413	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8413	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8425	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8425	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8422	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8422	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8417	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8417	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8423	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8423	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8416	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8416	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8418	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8418	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8424	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8424	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8421	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8421	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8420	1	POLY	METALS+U-GEL	Ice	R

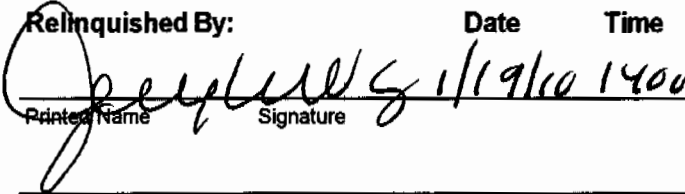
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LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1325

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
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RE15-10-8420	1	POLY	Perchlorate+CN+N03+pH Ice		R
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Relinquished By:	Date	Time	Received By:	Date	Time
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	1/19/10	1400			
Printed Name	Signature		Printed Name	Signature	

Printed Name	Signature	Printed Name	Signature
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Printed Name	Signature	Printed Name	Signature
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Received for DISPOSAL By:	Date	Time	Remarks:
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Printed Name	Signature		
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SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8410

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1300		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-010(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610863	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: Loamy silt brown, roots + rocks, pine needles

FTB: RE15-10-8447

SAMPLE COMMENTS:

NA

LOCATION DESC: 10b-12 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 22$ dpm

PID

 $BY \leq 2340$ dpmHE negative
ambient
reading 2.0 ppm
0.0

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarlane

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jaylink	1/15/10
(Signature) Jan R. Marin	0800	(Signature)	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8411

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA: OBT3		SED	
TIME COLLECTED (HH:MM)		1316		SUB-MEDIA: TUFF 1		NA	
PRS ID: 15-010(b)		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 15-610863		↓		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: R		SED		EXCAVATED: YES <input checked="" type="radio"/> NO <input type="radio"/>			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES <input checked="" type="radio"/> NO <input type="radio"/>			
BOREHOLE: YES <input checked="" type="radio"/> NO <input type="radio"/>		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	Yes	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice	Yes	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Yes	
1		H3	500 ML POLY	Ice	Yes	
1		METALS+U-GEL	125 ML POLY	Ice	Yes	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Grey brown clay silt numerous roots, few rocks

SAMPLE COMMENTS: NA

LOCATION DESC: 10b-12 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 55$ dpm $\text{BY} \leq 2180$ dpm

COLLECTED BY (PRINT)

R Saunders

PID

ambient
reading

RS 01-14-10

0.0 ppm

RS 01-14-10

0.0 ppm
53.0

REVIEWED BY (PRINT) T. McFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jaynes	1/15/10
(Signature) [Signature]	0800	(Signature) [Signature]	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8412

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1350		SUB-MEDIA:		TUFF 1	
PRS ID:	15-010(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610864	↓		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	SED		EXCAVATED: YES/NO		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO		NA	
BOREHOLE: YES/NO		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC: dark brown silty sand, rocks, pine needles

ED: RE15-10-8441

SAMPLE COMMENTS:

NA

LOCATION DESC: 10b-11 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

L ≤ 16 dpm

PID

ambient
reading 0.0 ppm

BY ≤ 2370 dpm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jay Lewis	1/15/10
(Signature) Jan R. Marin	0800	(Signature)	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8413

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA: QBT3		SED	
TIME COLLECTED (HH:MM)		1430		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-010(b)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	15-610864	↓		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:	R	SED		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+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 grey silty sand with lots of roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 10b-11 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 22$ dpm $BY \leq 2550$ dpm

PID

ambient reading 0.0
5.1 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jaynes	1/15/10
(Signature) [Signature]	0805	(Signature) [Signature]	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8416

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1345		SUB-MEDIA:		TUFF 1	
PRS ID:	15-010(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610866	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	0.7		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC: Brown sandy silt, roots

SAMPLE COMMENTS: NA

LOCATION DESC: 10b-13, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 55$ dpm PID reading $\frac{0.2}{0.0}$ ppm
 $\beta \leq 2210$ dpm HE negative

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

TL McFarlane

R Saunders

RELINQUISHED BY

Date/Time

RECEIVED BY

Date/Time

(Printed Name) MARIN

1/15/10

(Printed Name)

1/15/10

(Signature)

R. Marvin

0805

(Signature)

Jay Kelly

830

RELINQUISHED BY

Date/Time

RECEIVED BY

Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8417

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1352		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-010(b)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610866			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	1.7		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

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

SAMPLE DESC:

Brown sandy silt

SAMPLE COMMENTS:

NA

LOCATION DESC:

10b-13, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 33$ dpm

PID

reading $\frac{0.0}{0.0}$ ppm $\beta \leq 2640$ dpm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jayfield	1/15/10
(Signature) Jan R. Marin	0805	(Signature)	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8418

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:		QBT3	
TIME COLLECTED(HH:MM)		1445		SUB-MEDIA:		TUFF1	
PRS ID:	15-010(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610867	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	0.8		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		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	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 silt, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

10b-10, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 33$ dpm
 $\beta \leq 2710$ dpm

PID ambient reading $\frac{0.0}{0.0}$ ppm
 HE negative

COLLECTED BY (PRINT)

TLMcFarlang

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jayluts	1/15/10
(Signature) [Signature]	0805	(Signature) [Signature]	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8420

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1515		SUB-MEDIA:		TUFF 1	
PRS ID:	15-010(b)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610868	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	0.0 ⁵ *		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	0.6		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		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			

#	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: dark brown sand with rocks

SAMPLE COMMENTS: NA

LOCATION DESC: 10b-9 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 16$ dpm

PID

HE negative
ambient reading 0.0 ppm $BY \leq 2520$ dpm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	11/15/10	(Printed Name) Jay Williams	11/15/10
(Signature) Jan R. Marin	0805	(Signature)	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8421

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1525		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-010(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610868	1		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:	R	SED		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) NA
BOREHOLE: YES (NO) NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	QNTNR	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: dark brown soil, few small clumps of moist soil

SAMPLE COMMENTS:

NA

LOCATION DESC: 10b-9 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

$2 \leq 11$ dpm PID ambient reading 0.6 ppm
 $88 \leq 2510$ dpm 0.0

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) [Signature]	1/15/10
(Signature) [Signature]	0805	(Signature) [Signature]	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8422

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA: OBT3		SED	
TIME COLLECTED (HH:MM)		1626		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-010(b)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610869	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	0.6		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	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 loamy silt, roots and small rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

10b-8 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \pm 22$ dpmBY ± 2140 dpmPID ambient reading $\frac{0.0}{0.0}$ ppm

HE neg

COLLECTED BY (PRINT)

ThMcFarland

REVIEWED BY (PRINT)

LARRY A. Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jaylenz	1/15/10
(Signature) Janh. Marin	0805	(Signature)	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8423

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:	OBT3		sed
TIME COLLECTED(HH:MM)		15:38		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-010(b)		OK	SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610869		↓	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		SOD	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	Regular	8260B	125 ML SEPTUM AMBER GLASS	Ice	yes	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	yes	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	yes	
1		H3	500 ML POLY	Ice	yes	
1		METALS+U-GEL	125 ML POLY	Ice	yes	
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice	yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	yes	

SAMPLE DESC: Brown loamy silt, with nodules & rocks

SAMPLE COMMENTS:

none

LOCATION DESC:

106-8 Drainage Area

FIELD SCREENING/MEASUREMENT RESULTS:

$\alpha \leq 16$ dpm PID ambient reading $\frac{0.0}{0.0}$ ppm
 $BX \leq 2010$ dpm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Lorely A. Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jey WS	1/15/10
(Signature) J. R. Marin	0805	(Signature)	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8424

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		RS01-14-10 10/11 01/14/2010	MEDIA:	QBT3		SED	
TIME COLLECTED (HH:MM)		1533	SUB-MEDIA:	TUFF 1		NA	
PRS ID:	15-010(b)	OK	SAMPLE TECH CODE:	HA		OK	
LOCATION ID:	15-610870	↓	FIELD QC TYPE:	NA		↓	
LOCATION TYPE:	GENERIC	✓	FIELD PREP:	NA		↓	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV		↓	
BOTTOM DEPTH:	0	0.7	SCREEN/PORT DESC:	NA		↓	
FIELD MATRIX:	R	SED	EXCAVATED: YES (NO) NA				
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) NA	
BOREHOLE: YES (NO) NA		BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION:	N	

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

SAMPLE DESC: Brown loamy silt, some rocks and roots

SAMPLE COMMENTS:

NA

LOCATION DESC: IDb-7 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 22$ dpm

PID

ambient
reading 0.0 ppm

HE = NEG

 $\text{BY} \leq 2640$ dpm

COLLECTED BY (PRINT)

Larry A. Lopez

REVIEWED BY (PRINT)

TLMcFarlane

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jaywily	1/15/10
(Signature) Jan R. Marin	0805	(Signature)	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8425

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		16:02		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-010(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610870	OK		FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	1.6		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	SED		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES (NO) NA			
BOREHOLE: YES (NO) NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: Brown loamy silty soil with rocks + roots

FR RE15-10-8442

SAMPLE COMMENTS:

Drainage Area by Oak Brush Area

LOCATION DESC:

106-7, Drainage Area

FIELD SCREENING/MEASUREMENT RESULTS:

 $K \leq 5 \text{ dpm}$
 $B18 \leq 2460 \text{ dpm}$

HE = NEG

 $P10 = \frac{\text{Ambient} - 0.0}{\text{Reading} - 0.0 \text{ ppm}}$ COLLECTED BY (PRINT)
LARRY A. LOPEZ

REVIEWED BY (PRINT) TL McFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) [Signature]	1/15/10
(Signature) [Signature]	0805	(Signature) [Signature]	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8441

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1350		SUB-MEDIA:	TUFF1		NA
PRS ID:	15-010(b)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	UNK	15-660864		FIELD QC TYPE:	ED		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of RE15-10-8412

dark brown silty sand, rocksand pine needles

SAMPLE COMMENTS:

NA

LOCATION DESC: 10b-11 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

 $\alpha \leq 16$ dpm

PID

HE negative

 $\text{BY} \leq 2370$ dpm

ambient reading 0.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name) Jaybell	1/15/10
(Signature) <i>[Signature]</i>	0805	(Signature) <i>[Signature]</i>	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8442

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/14/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		1623	SUB-MEDIA:	OTHER	
PRS ID:	15-010(b)	OK	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK	15-010870	FIELD QC TYPE:	FR	
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	UF	
TOP DEPTH:	0		SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0		SCREEN/PORT DESC:		NA
FIELD MATRIX:	W		EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			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)	Y	
1		SW-846:6850	250 ML POLY	Ice	Y	
1		TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE 15-10-8425

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name)	1/15/10
(Signature) J. R. Marin	0805	(Signature) J. R. Marin	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2509

EVENT NAME: 4th Qtr. FY09 - SWMU 15-010(b) - Threemile Canyon

SAMPLE ID: RE15-10-8447

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/14/2010		MEDIA:	NA		ok
TIME COLLECTED (HH:MM)		1305		SUB-MEDIA:	OTHER		
PRS ID:	15-010(b)	ok		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-010863		FIELD QC TYPE:	FTB		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	NA		
TOP DEPTH:	0			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:			NA
FIELD MATRIX:	S			EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of RE15-10-8410

SAMPLE COMMENTS:

FTB

LOCATION DESC:

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	1/15/10	(Printed Name)	1/15/10
(Signature) Jan R. Marin	0805	(Signature) Jay W. W.	830
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

Rad Screening Data Release Form

The Following samples were received at the Field Support Facility (FSF) without screening data (list sample number):

RE15-10-7198

7199
7200
7201
7202
7203
7204
7205
7206
7207
7208

RE15-10-7209

7210
7211
7220
7221
8410
8411
8412
8413
8416

RE15-10-8417

8418
8420
8421
8422
8423
8424
8425
8441

These samples will not be shipped until radiological screening data documentation arrives at the FSF. I understand that it is my responsibility to ensure this information arrives at the FSF in a timely manner. If holding times are missed because screening data does not arrive, I will pick up the samples.

.....

The following samples do not require rad screening data for the reasons stated (list sample numbers):

RE15-10-7233 FTB

7226 FR
8442 FR
8447 FTB

Reason:

.....

Print Last Name MARIN

Signature

Jan R. Marin

Date 1/15/10



2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-10-00074
Analysis Description: Gross Alpha/Beta in (Soil, Sludge, Waste, Sediment (SO))
Analysis Test Method: GPC-A-003

Request or PO Number: N/A
Date Received: 1/16/2010
Report Date: 01/19/10 08:47

ARS Sample ID	Client Sample ID	Isotope	Analysis Results	Analysis Error +/- 2 s	NDC	DLC	Qual	Analysis Units	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery	Sample Matrix	Collection Date
ARS1-10-00074-001	RE15-10-7198	GROSS ALPHA	8.481	9.395	12.704	3.788	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-001	RE15-10-7198	GROSS BETA	35.365	11.796	7.759	3.349	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-002	RE15-10-7199	GROSS ALPHA	8.244	9.257	12.034	3.245	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-002	RE15-10-7199	GROSS BETA	29.146	10.316	7.568	3.259	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-003	RE15-10-7200	GROSS ALPHA	8.086	9.171	12.323	3.404	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-003	RE15-10-7200	GROSS BETA	18.714	8.008	7.543	3.233	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-004	RE15-10-7201	GROSS ALPHA	12.874	10.871	11.663	3.290	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-004	RE15-10-7201	GROSS BETA	23.503	9.040	7.440	3.203	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-005	RE15-10-7202	GROSS ALPHA	3.602	6.674	11.839	3.317	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-005	RE15-10-7202	GROSS BETA	23.643	9.226	8.096	3.505	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-006	RE15-10-7203	GROSS ALPHA	5.201	8.405	14.027	4.183	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-006	RE15-10-7203	GROSS BETA	42.132	13.382	7.726	3.315	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-007	RE15-10-7204	GROSS ALPHA	13.279	11.502	12.861	3.739	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-007	RE15-10-7204	GROSS BETA	36.451	12.046	7.705	3.328	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-008	RE15-10-7205	GROSS ALPHA	12.092	11.665	14.491	4.301	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-008	RE15-10-7205	GROSS BETA	33.533	11.460	7.848	3.385	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-009	RE15-10-7206	GROSS ALPHA	5.827	8.341	13.009	3.693	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-009	RE15-10-7206	GROSS BETA	20.202	8.442	8.105	3.525	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-010	RE15-10-7207	GROSS ALPHA	10.096	10.246	12.585	3.501	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-010	RE15-10-7207	GROSS BETA	33.343	11.617	8.730	3.820	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-011	RE15-10-7208	GROSS ALPHA	7.986	9.423	13.245	3.784	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-011	RE15-10-7208	GROSS BETA	21.012	8.547	7.615	3.267	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-012	RE15-10-7209	GROSS ALPHA	18.210	13.442	12.630	3.539	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-012	RE15-10-7209	GROSS BETA	25.293	9.849	8.561	3.744	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-013	RE15-10-7210	GROSS ALPHA	1.317	5.806	13.133	3.818	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-013	RE15-10-7210	GROSS BETA	20.998	8.500	7.782	3.355	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-014	RE15-10-7211	GROSS ALPHA	6.848	8.807	13.001	3.858	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-014	RE15-10-7211	GROSS BETA	32.357	11.097	7.769	3.354	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-015	RE15-10-7220	GROSS ALPHA	11.859	10.919	12.591	3.551	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-015	RE15-10-7220	GROSS BETA	21.280	8.560	7.375	3.155	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-016	RE15-10-7221	GROSS ALPHA	6.333	9.024	14.580	4.561	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-016	RE15-10-7221	GROSS BETA	14.227	7.103	7.943	3.441	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-017	RE15-10-8410	GROSS ALPHA	1.433	7.865	16.454	5.615	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-017	RE15-10-8410	GROSS BETA	30.865	10.810	7.966	3.438	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-018	RE15-10-8411	GROSS ALPHA	13.355	13.600	18.992	6.782	U	pCi/g	1/18/2010	CR	N/A	SO	



2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-10-00074

Request or PO Number: N/A

Analysis Description: Gross Alpha/Beta in (Soil, Sludge, Waste, Sediment [SO])

Date Received: 1/16/2010


Analysis Test Method: GPC-A-003

Report Date: 01/19/10 08:47

ARS Sample ID	Client Sample ID	Isotope	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Qual	Analysis Units	Analysis Date/Time	Analyst Technician	Trace/Chem Recovery	Sample Matrix	Collection Date
ARS1-10-00074-018	RE15-10-8411	GROSS BETA	38.776	12.689	7.973	3.446		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-019	RE15-10-8412	GROSS ALPHA	3.435	8.191	15.596	5.043	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-019	RE15-10-8412	GROSS BETA	32.389	11.178	7.885	3.391		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-020	RE15-10-8413	GROSS ALPHA	11.680	11.849	15.565	5.006	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-020	RE15-10-8413	GROSS BETA	31.286	10.957	7.820	3.366		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-021	RE15-10-8416	GROSS ALPHA	12.822	11.429	13.258	3.953	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-021	RE15-10-8416	GROSS BETA	30.423	10.716	7.765	3.351		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-022	RE15-10-8417	GROSS ALPHA	6.085	8.128	11.850	3.196	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-022	RE15-10-8417	GROSS BETA	33.086	11.184	7.552	3.252		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-023	RE15-10-8418	GROSS ALPHA	4.011	7.091	12.386	3.421	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-023	RE15-10-8418	GROSS BETA	27.750	10.006	7.551	3.236		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-024	RE15-10-8420	GROSS ALPHA	9.619	9.842	12.324	3.476	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-025	RE15-10-8421	GROSS BETA	30.517	10.570	7.415	3.192		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-025	RE15-10-8421	GROSS ALPHA	-2.253	1.306	12.363	3.464	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-025	RE15-10-8421	GROSS BETA	23.707	9.187	8.122	3.516		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-026	RE15-10-8422	GROSS ALPHA	7.292	9.323	13.910	4.148	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-026	RE15-10-8422	GROSS BETA	25.392	9.579	7.723	3.313		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-027	RE15-10-8423	GROSS ALPHA	5.470	11.77	13.190	3.834	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-027	RE15-10-8423	GROSS BETA	36.604	12.016	7.708	3.329		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-028	RE15-10-8424	GROSS ALPHA	5.344	8.314	13.852	4.111	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-028	RE15-10-8424	GROSS BETA	25.519	9.577	7.825	3.375		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-029	RE15-10-8425	GROSS ALPHA	7.427	8.898	12.330	3.501	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-029	RE15-10-8425	GROSS BETA	31.566	11.010	8.151	3.544		pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-030	RE15-10-8441	GROSS ALPHA	6.440	8.899	13.519	3.761	U	pCi/g	1/18/2010	CR	N/A	SO	
ARS1-10-00074-030	RE15-10-8441	GROSS BETA	28.850	10.592	8.752	3.830		pCi/g	1/18/2010	CR	N/A	SO	
NOTES:													

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

DATA VALIDATION COVER SHEET	
5121-1	Records Use only 
Data Validation Cover Sheet	

Section I.

REQUEST NUMBER: 10-1325 VALIDATION DATE: 2/24/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

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

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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


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

- The MS/MSD %R calculations were performed incorrectly. The parent sample result was < the MDL and, thus, a result of 0 µg/kg should have been used to calculate the %Rs. The laboratory subtracted the parent sample concentration. The corrected MS and MSD %Rs were >125%. The associated result in sample RE15-10-8423 was a detect and, thus was qualified J+,PE12f. All other associated sample results were NDs and, thus, were not qualified.
- It should be noted that the aqueous MS and MSD parent sample was from another LANL RN and the raw data for the parent sample was not included in the package. No sample data were qualified as a result.


Reviewed by: Mary DonovanLevel: IDate: 02/25/10

VALIDATOR'S SIGNATURE: _____


DATE: 2/24/10

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

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

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 945221

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-8442

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325

GEL Sample ID: 245112001

Date Filtered: 27-JAN-10

Injection Volume (mL): 20

% Solids:

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 01:57	per0127052a
	Perchlorate Isotope Ratio						1	28-JAN-10 01:57	per0127052a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 01:57	per0127052a
	Perchlorate-O(18)			0.488	ug/L		1	28-JAN-10 01:57	per0127052a

^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 $\frac{\% \text{ Solids}}{\% \text{ Solids}}$

LMF
2/24/10

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: 245204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8410
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113001
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.666	2.66	0.666	ug/kg	U	1	01-FEB-10 17:00	per0201019a
	Perchlorate Isotope Ratio						1	01-FEB-10 17:00	per0201019a
14797-73-0	Perchlorate-101	.666	2.66	0.666	ug/kg	U	1	01-FEB-10 17:00	per0201019a
	Perchlorate-O(18)			6.50	ug/kg		1	01-FEB-10 17:00	per0201019a

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

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

LMF
 2/24/10

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: 945204

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8411

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113002

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 85

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	.591	2.36	0.591	ug/kg	U	1	01-FEB-10 17:30	per0201023a
	Perchlorate Isotope Ratio						1	01-FEB-10 17:30	per0201023a
14797-73-0	Perchlorate-101	.591	2.36	0.591	ug/kg	U	1	01-FEB-10 17:30	per0201023a
	Perchlorate-O(18)			6.57	ug/kg		1	01-FEB-10 17:30	per0201023a

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

*Concentration =

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

LMF
2/24/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8412

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113003

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 92.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.541	2.16	0.541	ug/kg	U	1	01-FEB-10 17:53	per0201026a
	Perchlorate Isotope Ratio						1	01-FEB-10 17:53	per0201026a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	01-FEB-10 17:53	per0201026a
	Perchlorate-O(18)			5.27	ug/kg		1	01-FEB-10 17:53	per0201026a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

LMF

2/24/10

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: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8441

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113004

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

% Solids: 90.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 18:00	per0201027a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:00	per0201027a
14797-73-0	Perchlorate-101	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 18:00	per0201027a
	Perchlorate-O(18)			5.38	ug/kg		1	01-FEB-10 18:00	per0201027a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

LMF
2/24/10

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: 945204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8413
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113005
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 % Solids: 89

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.559	2.24	0.559	ug/kg	U	1	01-FEB-10 18:08	per0201028a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:08	per0201028a
14797-73-0	Perchlorate-101	.559	2.24	0.559	ug/kg	U	1	01-FEB-10 18:08	per0201028a
	Perchlorate-O(18)			5.69	ug/kg		1	01-FEB-10 18:08	per0201028a

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

*Concentration =

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

LMF
2/24/10

Form 1

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8425

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113006

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 90

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.558	2.23	0.558	ug/kg	U	1	01-FEB-10 18:16	per0201029a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:16	per0201029a
14797-73-0	Perchlorate-101	.558	2.23	0.558	ug/kg	U	1	01-FEB-10 18:16	per0201029a
	Perchlorate-O(18)			5.73	ug/kg		1	01-FEB-10 18:16	per0201029a

^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

LMF
2/24/10

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: 245204
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8422
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113007
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 % Solids: 89
 Concentrated Extract Volume: 20.0

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.561	2.25	0.561	ug/kg	U	1	01-FEB-10 18:23	per0201030a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:23	per0201030a
14797-73-0	Perchlorate-101	.561	2.25	0.561	ug/kg	U	1	01-FEB-10 18:23	per0201030a
	Perchlorate-O(18)			5.99	ug/kg		1	01-FEB-10 18:23	per0201030a

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

*Concentration =

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

LMF
2/24/10

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.
RE15-10-8417

Date Received: 23-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113008

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 94.7

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945204

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	.528	2.11	0.528	ug/kg	U	1	01-FEB-10 18:31	per0201031a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:31	per0201031a
14797-73-0	Perchlorate-101	.528	2.11	0.528	ug/kg	U	1	01-FEB-10 18:31	per0201031a
	Perchlorate-O(18)			5.06	ug/kg		1	01-FEB-10 18:31	per0201031a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X ¹ %Solids
 Aliquot

LMF
 2/24/10

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: 945204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8423
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113002
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 90.6

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.552	2.21	0.762	ug/kg	J	J+,PE12f	01-FEB-10 18:38	per0201032a
	Perchlorate Isotope Ratio			2.8			1	01-FEB-10 18:38	per0201032a
14797-73-0	Perchlorate-101	.552	2.21	0.826	ug/kg	J	1	01-FEB-10 18:38	per0201032a
	Perchlorate-O(18)			5.79	ug/kg		1	01-FEB-10 18:38	per0201032a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

LMF
2/24/10

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: 945204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8416
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113010
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 90.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 19:08	per0201036a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:08	per0201036a
14797-73-0	Perchlorate-101	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 19:08	per0201036a
	Perchlorate-O(18)			5.29	ug/kg		1	01-FEB-10 19:08	per0201036a

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

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

LMF
 2/24/10

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.
RE15-10-8418

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113011

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 89

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 245204

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	.564	2.25	0.564	ug/kg	U	1	01-FEB-10 19:16	per0201037a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:16	per0201037a
14797-73-0	Perchlorate-101	.564	2.25	0.564	ug/kg	U	1	01-FEB-10 19:16	per0201037a
	Perchlorate-O(18)			5.38	ug/kg		1	01-FEB-10 19:16	per0201037a

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

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

LMF
2/24/10

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.
RE15-10-8424

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113012

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 20

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 245204

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	.556	2.22	0.556	ug/kg	U	1	01-FEB-10 19:24	per0201038a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:24	per0201038a
14797-73-0	Perchlorate-101	.556	2.22	0.556	ug/kg	U	1	01-FEB-10 19:24	per0201038a
	Perchlorate-O(18)			5.17	ug/kg		1	01-FEB-10 19:24	per0201038a

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

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

LMF
2/24/10

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: 245204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8421

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113013

Date Filtered: 30-JAN-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	0.571	ug/kg	U	1	01-FEB-10 19:31	per0201039a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:31	per0201039a
14797-73-0	Perchlorate-101	.571	2.28	0.571	ug/kg	U	1	01-FEB-10 19:31	per0201039a
	Perchlorate-O(18)			5.45	ug/kg		1	01-FEB-10 19:31	per0201039a

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

*Concentration =

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

LMF

2/24/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 245204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8420

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113014

Date Filtered: 30-JAN-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	.716	2.86	0.716	ug/kg	U	1	01-FEB-10 19:39	per0201040a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:39	per0201040a
14797-73-0	Perchlorate-101	.716	2.86	0.716	ug/kg	U	1	01-FEB-10 19:39	per0201040a
	Perchlorate-O(18)			6.77	ug/kg		1	01-FEB-10 19:39	per0201040a

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

*Concentration =

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

LMF
2/24/10

DATA VALIDATION COVER SHEET	
5118-1 <div style="text-align: center;">Data Validation Cover Sheet</div>	Records Use only 


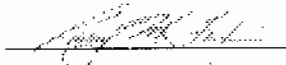
Section I.			
REQUEST NUMBER:	10-1325	VALIDATION DATE:	2/24/10
		LAB CODE:	GEL
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>			
VALIDATOR: <u>Larry Fukui</u>		ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>	
ANALYTICAL SUITE (CHECK ALL THAT APPLY):			
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS	<input type="checkbox"/> 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):


1. In the aqueous MB, Se was detected. The associated sample result was an ND and, thus, was not qualified. In the soil MB, Ba, Fe, K, Mn, Sb, and Zn were detected. The result for K in sample RE15-10-8425 was a detect >5X but ≤50X the MB concentration and, thus, was qualified J,I4a. All other associated sample results were detects >50X the MB concentrations and, thus, were not qualified based on professional judgment.
2. In the aqueous and soil ICBs and/or CCBs, Sb was detected. The associated sample results were NDs and, thus, were not qualified.
3. In the FR blank (sample RE15-10-8442) associated with all field samples, Fe and K were detected. The associated sample results were detects >5X the FR blank concentration and, thus, were not qualified.
4. The soil MS %Rs were < the laboratory's LAL but ≥10% for Ba and U. The associated sample results were detects and, thus, were qualified J-,I6a. The soil MS %Rs were > the laboratory's UAL for K and Mg. The associated sample results were detects and, thus, were qualified J+,I6b. The soil MS %Rs were also <10% for Ca and Mn and > the laboratory's UAL for Al and Fe. However, the associated parent sample results were >4X the spike concentrations and, thus, no sample results were qualified, based on professional judgment.
5. The duplicate RPD was >35% for U, and both the duplicate and parent sample results were ≥5X the PQL. The associated sample results were detects and, thus, were qualified J,I10a.
6. It should be noted that the aqueous matrix QC parent sample for all analyses and the soil matrix QC parent sample for CVAA were from other LANL RNs. No sample results were qualified as a result.

Reviewed by: Mary DonovanLevel: IDate: 02/25/10


DATA VALIDATION COVER SHEET	
5118-1	Records Use only
Data Validation Cover Sheet	
VALIDATOR'S SIGNATURE:  DATE: 2/24/10	
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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


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

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

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

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the LCS information is present, do not Reject. Qualify data based on the LCS information.	R, I6c	R, I6c
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26. The sample and the duplicate sample results were $\geq 5X$ the RL and the duplicate RPD was $>20\%$ for water samples and $>35\%$ for soil samples.	UJ, I10a	J, I10a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was $<10\%$. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input 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: 10-1325

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245112001

BASIS: As Received

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8442

LEVEL: Low

DATE RECEIVED 20-JAN-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	01/29/10 15:45	012910-1	944077
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/29/10 21:26	100129-8	944080
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/30/10 13:28	100130-9	944080
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/29/10 21:26	100129-8	944080
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/29/10 15:45	012910-1	944077
7439-89-6	Iron	48.8	ug/L	J	30	100	100	1	P	HSC	01/29/10 15:45	012910-1	944077
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/29/10 21:26	100129-8	944080
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/29/10 15:45	012910-1	944077
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	01/30/10 13:28	100130-9	944080
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/02/10 09:57	020210W1-13	945393
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-09-7	Potassium	128	ug/L	J	50	150	150	1	P	HSC	01/29/10 15:45	012910-1	944077
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-23-5	Sodium	300	ug/L	U	100	300	300	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	02/06/10 01:09	100205-2	944080
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/29/10 13:36	100129-3	944080
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/29/10 15:45	012910-1	944077

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944077	944076	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
944080	944079	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
945393	945391	SW846 7470A Prep	20	mL	20	mL	02/01/10	TXB3

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113001

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8410

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5010000	ug/Kg		9060	26600	26600	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-36-0	Antimony	1330	ug/Kg	U	440	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-38-2	Arsenic	2.08	mg/kg		0.266	1.33	1.33	2	MS	BAJ	02/11/10 21:29	100211-3	944127
7440-39-3	Barium J-,16a	143000	ug/Kg	*N	133	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-41-7	Beryllium	0.576	mg/kg		0.0255	0.127	0.127	2	MS	BAJ	02/15/10 18:31	100215-6	952970
7440-43-9	Cadmium	666	ug/Kg	U	133	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-70-2	Calcium	4480000	ug/Kg		10700	33300	33300	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-47-3	Chromium	7100	ug/Kg		200	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-48-4	Cobalt	3330	ug/Kg		200	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-50-8	Copper	8470	ug/Kg		400	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-89-6	Iron	8950000	ug/Kg		10700	33300	33300	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-92-1	Lead	19400	ug/Kg		333	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-95-4	Magnesium J+,16b	1210000	ug/Kg	N	11300	40000	40000	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-96-5	Manganese	574000	ug/Kg		266	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-97-6	Mercury	24.3	ug/kg		5.01	14.7	14.7	1	AV	JXL1	02/03/10 10:33	020310S2-7	945588
7440-02-0	Nickel	5	mg/kg		0.127	0.509	0.509	2	MS	BAJ	02/15/10 18:31	100215-6	952970
7440-09-7	Potassium J+,16b	1050000	ug/Kg	N	8520	33300	33300	1	P	HSC	02/04/10 00:09	020310-1	944124
7782-49-2	Selenium	1.33	mg/kg	U	0.665	1.33	1.33	2	MS	BAJ	02/11/10 21:29	100211-3	944127
7440-22-4	Silver	521	ug/Kg	J	133	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-23-5	Sodium	57800	ug/Kg		9320	33300	33300	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-28-0	Thallium	0.145	mg/kg	J	0.0798	0.266	0.266	2	MS	BAJ	02/13/10 13:41	100213-5	944127
7440-61-1	Uranium J-,16a	13.3	mg/kg	*N	0.0175	0.0532	0.0532	2	MS	SKJ	02/13/10 18:44	100213-2	944127
7440-62-2	Vanadium	11800	ug/Kg		133	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-66-6	Zinc	38900	ug/Kg		440	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.5	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.501	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.542	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.523	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113002

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8411

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3970000	ug/Kg		7910	23300	23300	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-36-0	Antimony	1160	ug/Kg	U	384	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-38-2	Arsenic	1.2	mg/kg		0.225	1.13	1.13	2	MS	BAJ	02/11/10 22:12	100211-3	944127
7440-39-3	Barium J-,16a	58100	ug/Kg	*N	116	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-41-7	Beryllium	0.311	mg/kg		0.0224	0.112	0.112	2	MS	BAJ	02/15/10 18:46	100215-6	952970
7440-43-9	Cadmium	581	ug/Kg	U	116	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-70-2	Calcium	1950000	ug/Kg		9300	29100	29100	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-47-3	Chromium	18200	ug/Kg		174	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-48-4	Cobalt	2110	ug/Kg		174	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-50-8	Copper	3040	ug/Kg		349	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-89-6	Iron	8350000	ug/Kg		9300	29100	29100	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-92-1	Lead	7200	ug/Kg		291	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-95-4	Magnesium J+,16b	737000	ug/Kg	N	9880	34900	34900	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-96-5	Manganese	189000	ug/Kg		233	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-97-6	Mercury	7.44	ug/kg	J	4.82	14.2	14.2	1	AV	JXL1	02/03/10 10:34	020310S2-7	945588
7440-02-0	Nickel	3.47	mg/kg		0.112	0.448	0.448	2	MS	BAJ	02/15/10 18:46	100215-6	952970
7440-09-7	Potassium J+,16b	698000	ug/Kg	N	7440	29100	29100	1	P	HSC	02/04/10 00:44	020310-1	944124
7782-49-2	Selenium	1.13	mg/kg	U	0.564	1.13	1.13	2	MS	BAJ	02/11/10 22:12	100211-3	944127
7440-22-4	Silver	417	ug/Kg	J	116	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-23-5	Sodium	64200	ug/Kg		8140	29100	29100	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-28-0	Thallium	0.0884	mg/kg	J	0.0676	0.225	0.225	2	MS	BAJ	02/13/10 14:13	100213-5	944127
7440-61-1	Uranium J-,16a	1.42	mg/kg	*N	0.0149	0.0451	0.0451	2	MS	SKJ	02/13/10 18:56	100213-2	944127
7440-62-2	Vanadium	14300	ug/Kg		116	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-66-6	Zinc	22800	ug/Kg		384	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.508	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.524	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.5	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.527	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113003

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8412

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 92.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4220000	ug/Kg		7260	21300	21300	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-36-0	Antimony	1070	ug/Kg	U	352	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-38-2	Arsenic	1.51	mg/kg		0.215	1.08	1.08	2	MS	BAJ	02/11/10 22:18	100211-3	944127
7440-39-3	Barium J-, I6a	51500	ug/Kg	*N	107	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-41-7	Beryllium	0.407	mg/kg		0.0189	0.0943	0.0943	2	MS	BAJ	02/15/10 18:49	100215-6	952970
7440-43-9	Cadmium	534	ug/Kg	U	107	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-70-2	Calcium	1140000	ug/Kg		8540	26700	26700	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-47-3	Chromium	5930	ug/Kg		160	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-48-4	Cobalt	2210	ug/Kg		160	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-50-8	Copper	7670	ug/Kg		320	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-89-6	Iron	10800000	ug/Kg		8540	26700	26700	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-92-1	Lead	11500	ug/Kg		267	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-95-4	Magnesium J+, I6b	867000	ug/Kg	N	9070	32000	32000	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-96-5	Manganese	259000	ug/Kg		213	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-97-6	Mercury	163	ug/kg		4.17	12.3	12.3	1	AV	JXL	02/03/10 10:39	020310S2-7	945588
7440-02-0	Nickel	3.86	mg/kg		0.0943	0.377	0.377	2	MS	BAJ	02/15/10 18:49	100215-6	952970
7440-09-7	Potassium J+, I6b	690000	ug/Kg	N	6830	26700	26700	1	P	HSC	02/04/10 00:51	020310-1	944124
7782-49-2	Selenium	1.08	mg/kg	U	0.538	1.08	1.08	2	MS	BAJ	02/11/10 22:18	100211-3	944127
7440-22-4	Silver	503	ug/Kg	J	107	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-23-5	Sodium	49000	ug/Kg		7470	26700	26700	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-28-0	Thallium	0.104	mg/kg	J	0.0645	0.215	0.215	2	MS	BAJ	02/13/10 14:17	100213-5	944127
7440-61-1	Uranium J-, I6a	3.15	mg/kg	*N	0.0142	0.043	0.043	2	MS	SKJ	02/13/10 18:57	100213-2	944127
7440-62-2	Vanadium	14400	ug/Kg		107	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-66-6	Zinc	40200	ug/Kg		352	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.507	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.503	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.529	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.574	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113004

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8441

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3210000	ug/Kg		7370	21700	21700	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-36-0	Antimony	1080	ug/Kg	U	358	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-38-2	Arsenic	2.1	mg/kg		0.212	1.06	1.06	2	MS	BAJ	02/11/10 22:24	100211-3	944127
7440-39-3	Barium J-,16a	37200	ug/Kg	*N	108	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-41-7	Beryllium	0.396	mg/kg		0.0206	0.103	0.103	2	MS	BAJ	02/15/10 18:51	100215-6	952970
7440-43-9	Cadmium	542	ug/Kg	U	108	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-70-2	Calcium	1010000	ug/Kg		8670	27100	27100	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-47-3	Chromium	4070	ug/Kg		163	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-48-4	Cobalt	1850	ug/Kg		163	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-50-8	Copper	6620	ug/Kg		325	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-89-6	Iron	9440000	ug/Kg		8670	27100	27100	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-92-1	Lead	8430	ug/Kg		271	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-95-4	Magnesium J+,16b	686000	ug/Kg	N	9220	32500	32500	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-96-5	Manganese	190000	ug/Kg		217	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-97-6	Mercury	154	ug/kg		4.28	12.6	12.6	1	AV	JXLI	02/03/10 10:41	020310S2-7	945588
7440-02-0	Nickel	3.47	mg/kg		0.103	0.411	0.411	2	MS	BAJ	02/15/10 18:51	100215-6	952970
7440-09-7	Potassium J+,16b	505000	ug/Kg	N	6940	27100	27100	1	P	HSC	02/04/10 00:58	020310-1	944124
7782-49-2	Selenium	1.06	mg/kg	U	0.531	1.06	1.06	2	MS	BAJ	02/11/10 22:24	100211-3	944127
7440-22-4	Silver	490	ug/Kg	J	108	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-23-5	Sodium	48000	ug/Kg		7590	27100	27100	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-28-0	Thallium	0.0906	mg/kg	J	0.0637	0.212	0.212	2	MS	BAJ	02/13/10 14:22	100213-5	944127
7440-61-1	Uranium J-,16a	3.35	mg/kg	*N	0.014	0.0425	0.0425	2	MS	SKJ	02/13/10 18:59	100213-2	944127
7440-62-2	Vanadium	13400	ug/Kg		108	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-66-6	Zinc	33300	ug/Kg		358	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.51	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.521	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.527	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.538	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113005

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8413

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5680000	ug/Kg		7610	22400	22400	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-36-0	Antimony	1120	ug/Kg	U	369	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-38-2	Arsenic	1.8	mg/kg		0.218	1.09	1.09	2	MS	BAJ	02/11/10 22:30	100211-3	944127
7440-39-3	Barium J-, I6a	71800	ug/Kg	*N	112	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-41-7	Beryllium	0.676	mg/kg		0.0224	0.112	0.112	2	MS	BAJ	02/15/10 18:53	100215-6	952970
7440-43-9	Cadmium	559	ug/Kg	U	112	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-70-2	Calcium	1480000	ug/Kg		8950	28000	28000	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-47-3	Chromium	7450	ug/Kg		168	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-48-4	Cobalt	2010	ug/Kg		168	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-50-8	Copper	8900	ug/Kg		336	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-89-6	Iron	11200000	ug/Kg		8950	28000	28000	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-92-1	Lead	14400	ug/Kg		280	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-95-4	Magnesium J+, I6b	1110000	ug/Kg	N	9510	33600	33600	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-96-5	Manganese	157000	ug/Kg		224	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-97-6	Mercury	222	ug/kg		3.87	11.4	11.4	1	AV	JXL1	02/03/10 10:43	020310S2-7	945588
7440-02-0	Nickel	4.88	mg/kg		0.112	0.448	0.448	2	MS	BAJ	02/15/10 18:53	100215-6	952970
7440-09-7	Potassium J+, I6b	755000	ug/Kg	N	7160	28000	28000	1	P	HSC	02/04/10 01:19	020310-1	944124
7782-49-2	Selenium	1.09	mg/kg	U	0.545	1.09	1.09	2	MS	BAJ	02/11/10 22:30	100211-3	944127
7440-22-4	Silver	512	ug/Kg	J	112	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-23-5	Sodium	63700	ug/Kg		7830	28000	28000	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-28-0	Thallium	0.158	mg/kg	J	0.0654	0.218	0.218	2	MS	BAJ	02/13/10 14:26	100213-5	944127
7440-61-1	Uranium J-, I6a	5.44	mg/kg	*N	0.0144	0.0436	0.0436	2	MS	SKJ	02/13/10 19:01	100213-2	944127
7440-62-2	Vanadium	16200	ug/Kg		112	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-66-6	Zinc	36300	ug/Kg		369	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.5	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.513	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.589	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.5	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113006

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8425

LEVEL: Low

DATE RECEIVED 20-JAN-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	3570000	ug/Kg		7260	21300	21300	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-36-0	Antimony	1070	ug/Kg	U	352	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-38-2	Arsenic	1.45	mg/kg		0.217	1.08	1.08	2	MS	BAJ	02/11/10 22:36	100211-3	944127
7440-39-3	Barium J-,16a	30100	ug/Kg	*N	107	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-41-7	Beryllium	0.558	mg/kg		0.02	0.1	0.1	2	MS	BAJ	02/15/10 18:55	100215-6	952970
7440-43-9	Cadmium	534	ug/Kg	U	107	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-70-2	Calcium	818000	ug/Kg		8540	26700	26700	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-47-3	Chromium	10400	ug/Kg		160	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-48-4	Cobalt	1030	ug/Kg		160	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-50-8	Copper	3020	ug/Kg		320	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-89-6	Iron	9250000	ug/Kg		8540	26700	26700	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-92-1	Lead	3750	ug/Kg		267	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-95-4	Magnesium J+,16b	607000	ug/Kg	N	9070	32000	32000	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-96-5	Manganese	220000	ug/Kg		213	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-97-6	Mercury	42.6	ug/kg		4.15	12.2	12.2	1	AV	JXL1	02/03/10 16:44	020310S2-7	945588
7440-02-0	Nickel	3.04	mg/kg		0.1	0.401	0.401	2	MS	BAJ	02/15/10 18:55	100215-6	952970
7440-09-7	Potassium J,14a	456000	ug/Kg	N	6830	26700	26700	1	P	HSC	02/04/10 01:26	020310-1	944124
7782-49-2	Selenium	1.08	mg/kg	U	0.542	1.08	1.08	2	MS	BAJ	02/11/10 22:36	100211-3	944127
7440-22-4	Silver	553	ug/Kg		107	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-23-5	Sodium	55500	ug/Kg		7470	26700	26700	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-28-0	Thallium	0.217	mg/kg	U	0.065	0.217	0.217	2	MS	BAJ	02/13/10 14:31	100213-5	944127
7440-61-1	Uranium J-,16a	0.591	mg/kg	*N	0.0143	0.0433	0.0433	2	MS	SKJ	02/13/10 19:03	100213-2	944127
7440-62-2	Vanadium	8040	ug/Kg		107	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-66-6	Zinc	33900	ug/Kg		352	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.523	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.515	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.548	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.557	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113007

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8422

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5620000	ug/Kg		7380	21700	21700	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-36-0	Antimony	1090	ug/Kg	U	358	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-38-2	Arsenic	1.87	mg/kg		0.221	1.1	1.1	2	MS	BAJ	02/11/10 22:42	100211-3	944127
7440-39-3	Barium J-, I6a	82700	ug/Kg	*N	109	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-41-7	Beryllium	0.679	mg/kg		0.0203	0.102	0.102	2	MS	BAJ	02/15/10 18:57	100215-6	952970
7440-43-9	Cadmium	543	ug/Kg	U	109	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-70-2	Calcium	1970000	ug/Kg		8690	27100	27100	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-47-3	Chromium	6400	ug/Kg		163	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-48-4	Cobalt	2660	ug/Kg		163	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-50-8	Copper	16900	ug/Kg		326	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-89-6	Iron	10600000	ug/Kg		8690	27100	27100	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-92-1	Lead	16000	ug/Kg		271	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-95-4	Magnesium J+, I6b	1220000	ug/Kg	N	9230	32600	32600	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-96-5	Manganese	249000	ug/Kg		217	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-97-6	Mercury	688	ug/kg		9.09	26.7	26.7	2	AV	JXL1	02/03/10 13:31	020310S2-7	945588
7440-02-0	Nickel	5.21	mg/kg		0.102	0.406	0.406	2	MS	BAJ	02/15/10 18:57	100215-6	952970
7440-09-7	Potassium J+, I6b	1010000	ug/Kg	N	6950	27100	27100	1	P	HSC	02/04/10 01:33	020310-1	944124
7782-49-2	Selenium	1.1	mg/kg	U	0.552	1.1	1.1	2	MS	BAJ	02/11/10 22:42	100211-3	944127
7440-22-4	Silver	413	ug/Kg	J	109	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-23-5	Sodium	59500	ug/Kg		7600	27100	27100	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-28-0	Thallium	0.187	mg/kg	J	0.0662	0.221	0.221	2	MS	BAJ	02/13/10 14:35	100213-5	944127
7440-61-1	Uranium J-, I6a	3.97	mg/kg	*N	0.0146	0.0441	0.0441	2	MS	SKJ	02/13/10 19:04	100213-2	944127
7440-62-2	Vanadium	15000	ug/Kg		109	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-66-6	Zinc	41300	ug/Kg		358	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.517	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.509	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.504	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.553	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113008

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8417

LEVEL: Low

DATE RECEIVED 23-JAN-10

MATRIX: SOIL

%SOLIDS: 94.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3540000	ug/Kg		7180	21100	21100	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-36-0	Antimony	1060	ug/Kg	U	349	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-38-2	Arsenic	1.72	mg/kg		0.21	1.05	1.05	2	MS	BAJ	02/11/10 22:48	100211-3	944127
7440-39-3	Barium	31000	ug/Kg	*N	106	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-41-7	Beryllium	0.739	mg/kg		0.0205	0.103	0.103	2	MS	BAJ	02/15/10 19:00	100215-6	952970
7440-43-9	Cadmium	528	ug/Kg	U	106	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-70-2	Calcium	683000	ug/Kg		8450	26400	26400	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-47-3	Chromium	7590	ug/Kg		158	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-48-4	Cobalt	2290	ug/Kg		158	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-50-8	Copper	3210	ug/Kg		317	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-89-6	Iron	19100000	ug/Kg		8450	26400	26400	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-92-1	Lead	6590	ug/Kg		264	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-95-4	Magnesium	674000	ug/Kg	N	8980	31700	31700	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-96-5	Manganese	313000	ug/Kg		211	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-97-6	Mercury	12.5	ug/kg		4.2	12.4	12.4	1	AV	JXL1	02/03/10 10:48	020310S2-7	945588
7440-02-0	Nickel	4.27	mg/kg		0.103	0.41	0.41	2	MS	BAJ	02/15/10 19:00	100215-6	952970
7440-09-7	Potassium	510000	ug/Kg	N	6760	26400	26400	1	P	HSC	02/04/10 01:40	020310-1	944124
7782-49-2	Selenium	1.05	mg/kg	U	0.524	1.05	1.05	2	MS	BAJ	02/11/10 22:48	100211-3	944127
7440-22-4	Silver	670	ug/Kg		106	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-23-5	Sodium	53500	ug/Kg		7390	26400	26400	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-28-0	Thallium	0.0912	mg/kg	J	0.0629	0.21	0.21	2	MS	BAJ	02/13/10 14:49	100213-5	944127
7440-61-1	Uranium	0.768	mg/kg	*N	0.0138	0.0419	0.0419	2	MS	SKJ	02/13/10 19:10	100213-2	944127
7440-62-2	Vanadium	23700	ug/Kg		106	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-66-6	Zinc	70600	ug/Kg		349	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.5	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.504	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.513	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.515	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113009

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8423

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6290000	ug/Kg		7440	21900	21900	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-36-0	Antimony	1090	ug/Kg	U	361	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-38-2	Arsenic	2.24	mg/kg		0.214	1.07	1.07	2	MS	BAJ	02/11/10 23:07	100211-3	944127
7440-39-3	Barium J-,I6a	100000	ug/Kg	*N	109	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-41-7	Beryllium	0.789	mg/kg		0.0218	0.109	0.109	2	MS	BAJ	02/15/10 19:06	100215-6	952970
7440-43-9	Cadmium	547	ug/Kg	U	109	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-70-2	Calcium	2300000	ug/Kg		8760	27400	27400	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-47-3	Chromium	7950	ug/Kg		164	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-48-4	Cobalt	2660	ug/Kg		164	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-50-8	Copper	11700	ug/Kg		328	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-89-6	Iron	12400000	ug/Kg		8760	27400	27400	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-92-1	Lead	17300	ug/Kg		274	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-95-4	Magnesium J+,I6b	1300000	ug/Kg	N	9300	32800	32800	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-96-5	Manganese	308000	ug/Kg		219	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-97-6	Mercury	252	ug/kg		4.44	13.1	13.1	1	AV	JXL1	02/03/10 10:49	020310S2-7	945588
7440-02-0	Nickel	5.94	mg/kg		0.109	0.435	0.435	2	MS	BAJ	02/15/10 19:06	100215-6	952970
7440-09-7	Potassium J+,I6b	983000	ug/Kg	N	7000	27400	27400	1	P	HSC	02/04/10 01:47	020310-1	944124
7782-49-2	Selenium	1.07	mg/kg	U	0.536	1.07	1.07	2	MS	BAJ	02/11/10 23:07	100211-3	944127
7440-22-4	Silver	604	ug/Kg		109	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-23-5	Sodium	69500	ug/Kg		7660	27400	27400	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-28-0	Thallium	0.148	mg/kg	J	0.0643	0.214	0.214	2	MS	BAJ	02/13/10 14:53	100213-5	944127
7440-61-1	Uranium J-,I6a	2.02	mg/kg	*N	0.0141	0.0428	0.0428	2	MS	SKJ	02/13/10 19:11	100213-2	944127
7440-62-2	Vanadium	16100	ug/Kg		109	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-66-6	Zinc	44600	ug/Kg		361	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.504	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.515	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.507	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.507	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113010

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8416

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4890000	ug/Kg		7290	21400	21400	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-36-0	Antimony	1070	ug/Kg	U	354	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-38-2	Arsenic	1.76	mg/kg		0.218	1.09	1.09	2	MS	BAJ	02/11/10 23:13	100211-3	944127
7440-39-3	Barium J-,16a	71300	ug/Kg	*N	107	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-41-7	Beryllium	0.689	mg/kg		0.0191	0.0955	0.0955	2	MS	BAJ	02/15/10 19:09	100215-6	952970
7440-43-9	Cadmium	536	ug/Kg	U	107	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-70-2	Calcium	1450000	ug/Kg		8570	26800	26800	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-47-3	Chromium	6580	ug/Kg		161	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-48-4	Cobalt	2530	ug/Kg		161	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-50-8	Copper	4030	ug/Kg		321	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-89-6	Iron	12100000	ug/Kg		8570	26800	26800	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-92-1	Lead	8590	ug/Kg		268	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-95-4	Magnesium J+,16b	823000	ug/Kg	N	9110	32100	32100	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-96-5	Manganese	311000	ug/Kg		214	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-97-6	Mercury	24.6	ug/kg		4.09	12	12	1	AV	JXL1	02/03/10 10:51	020310S2-7	945588
7440-02-0	Nickel	4.58	mg/kg		0.0955	0.382	0.382	2	MS	BAJ	02/15/10 19:09	100215-6	952970
7440-09-7	Potassium J+,16b	714000	ug/Kg	N	6860	26800	26800	1	P	HSC	02/04/10 01:54	020310-1	944124
7782-49-2	Selenium	1.09	mg/kg	U	0.545	1.09	1.09	2	MS	BAJ	02/11/10 23:13	100211-3	944127
7440-22-4	Silver	466	ug/Kg	J	107	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-23-5	Sodium	45300	ug/Kg		7500	26800	26800	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-28-0	Thallium	0.121	mg/kg	J	0.0654	0.218	0.218	2	MS	BAJ	02/13/10 14:58	100213-5	944127
7440-61-1	Uranium J-,16a	1.12	mg/kg	*N	0.0144	0.0436	0.0436	2	MS	SKJ	02/13/10 19:13	100213-2	944127
7440-62-2	Vanadium	16100	ug/Kg		107	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-66-6	Zinc	41500	ug/Kg		354	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.516	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.507	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.552	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.579	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113011

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8418

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3780000	ug/Kg		7300	21500	21500	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-36-0	Antimony	1070	ug/Kg	U	354	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-38-2	Arsenic	1.94	mg/kg		0.218	1.09	1.09	2	MS	BAJ	02/11/10 23:19	100211-3	944127
7440-39-3	Barium J-, I6a	47600	ug/Kg	*N	107	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-41-7	Beryllium	0.457	mg/kg		0.0206	0.103	0.103	2	MS	BAJ	02/15/10 19:11	100215-6	952970
7440-43-9	Cadmium	537	ug/Kg	U	107	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-70-2	Calcium	1060000	ug/Kg		8590	26800	26800	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-47-3	Chromium	8250	ug/Kg		161	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-48-4	Cobalt	1980	ug/Kg		161	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-50-8	Copper	3890	ug/Kg		322	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-89-6	Iron	14600000	ug/Kg		8590	26800	26800	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-92-1	Lead	8870	ug/Kg		268	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-95-4	Magnesium J+, I6b	738000	ug/Kg	N	9120	32200	32200	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-96-5	Manganese	279000	ug/Kg		215	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-97-6	Mercury	42.8	ug/kg		4.08	12	12	1	AV	JXL1	02/03/10 10:53	020310S2-7	945588
7440-02-0	Nickel	3.66	mg/kg		0.103	0.412	0.412	2	MS	BAJ	02/15/10 19:11	100215-6	952970
7440-09-7	Potassium J+, I6b	574000	ug/Kg	N	6870	26800	26800	1	P	HSC	02/04/10 02:01	020310-1	944124
7782-49-2	Selenium	1.09	mg/kg	U	0.544	1.09	1.09	2	MS	BAJ	02/11/10 23:19	100211-3	944127
7440-22-4	Silver	608	ug/Kg		107	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-23-5	Sodium	90800	ug/Kg		7510	26800	26800	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-28-0	Thallium	0.0992	mg/kg	J	0.0653	0.218	0.218	2	MS	BAJ	02/13/10 15:02	100213-5	944127
7440-61-1	Uranium J-, I6a	1.08	mg/kg	*N	0.0144	0.0435	0.0435	2	MS	SKJ	02/13/10 19:15	100213-2	944127
7440-62-2	Vanadium	16700	ug/Kg		107	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-66-6	Zinc	52800	ug/Kg		354	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.525	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.518	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.564	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.547	g	50	mL	02/15/10	AXG2

LMF
2/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113012

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8424

LEVEL: Low

DATE RECEIVED 20-JAN-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	3630000	ug/Kg		7470	22000	22000	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-36-0	Antimony	1100	ug/Kg	U	362	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-38-2	Arsenic	1.26	mg/kg		0.22	1.1	1.1	2	MS	BAJ	02/11/10 23:25	100211-3	944127
7440-39-3	Barium	35800	ug/Kg	*N	110	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-41-7	Beryllium	0.522	mg/kg		0.0217	0.109	0.109	2	MS	BAJ	02/15/10 19:13	100215-6	952970
7440-43-9	Cadmium	549	ug/Kg	U	110	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-70-2	Calcium	1060000	ug/Kg		8790	27500	27500	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-47-3	Chromium	10700	ug/Kg		165	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-48-4	Cobalt	1470	ug/Kg		165	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-50-8	Copper	4630	ug/Kg		330	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-89-6	Iron	11000000	ug/Kg		8790	27500	27500	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-92-1	Lead	5230	ug/Kg		275	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-95-4	Magnesium	690000	ug/Kg	N	9340	33000	33000	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-96-5	Manganese	218000	ug/Kg		220	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-97-6	Mercury	73.9	ug/kg		4.54	13.3	13.3	1	AV	JXL1	02/03/10 10:54	020310S2-7	945588
7440-02-0	Nickel	3.22	mg/kg		0.109	0.434	0.434	2	MS	BAJ	02/15/10 19:13	100215-6	952970
7440-09-7	Potassium	558000	ug/Kg	N	7030	27500	27500	1	P	HSC	02/04/10 02:08	020310-1	944124
7782-49-2	Selenium	1.1	mg/kg	U	0.55	1.1	1.1	2	MS	BAJ	02/11/10 23:25	100211-3	944127
7440-22-4	Silver	465	ug/Kg	J	110	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-23-5	Sodium	113000	ug/Kg		7690	27500	27500	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-28-0	Thallium	0.220	mg/kg	U	0.066	0.22	0.22	2	MS	BAJ	02/13/10 15:07	100213-5	944127
7440-61-1	Uranium	0.663	mg/kg	*N	0.0145	0.044	0.044	2	MS	SKJ	02/13/10 19:17	100213-2	944127
7440-62-2	Vanadium	11100	ug/Kg		110	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-66-6	Zinc	41300	ug/Kg		362	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.506	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.505	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.5	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.512	g	50	mL	02/15/10	AXG2

LMF
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METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113013

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8421

LEVEL: Low

DATE RECEIVED 20-JAN-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	3740000	ug/Kg		7510	22100	22100	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-36-0	Antimony	1100	ug/Kg	U	365	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-38-2	Arsenic	2.09	mg/kg		0.224	1.12	1.12	2	MS	BAJ	02/11/10 23:31	100211-3	944127
7440-39-3	Barium J-,16a	35900	ug/Kg	*N	110	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-41-7	Beryllium	0.480	mg/kg		0.0209	0.105	0.105	2	MS	BAJ	02/15/10 19:15	100215-6	952970
7440-43-9	Cadmium	552	ug/Kg	U	110	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-70-2	Calcium	1020000	ug/Kg		8840	27600	27600	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-47-3	Chromium	9140	ug/Kg		166	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-48-4	Cobalt	1770	ug/Kg		166	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-50-8	Copper	3040	ug/Kg		331	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-89-6	Iron	18900000	ug/Kg		8840	27600	27600	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-92-1	Lead	9210	ug/Kg		276	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-95-4	Magnesium J+,16b	731000	ug/Kg	N	9390	33100	33100	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-96-5	Manganese	290000	ug/Kg		221	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-97-6	Mercury	27	ug/kg		4.51	13.3	13.3	1	AV	JXL1	02/03/10 10:59	020310S2-7	945588
7440-02-0	Nickel	3.43	mg/kg		0.105	0.418	0.418	2	MS	BAJ	02/15/10 19:15	100215-6	952970
7440-09-7	Potassium J+,16b	513000	ug/Kg	N	7070	27600	27600	1	P	HSC	02/04/10 02:15	020310-1	944124
7782-49-2	Selenium	1.12	mg/kg	U	0.559	1.12	1.12	2	MS	BAJ	02/11/10 23:31	100211-3	944127
7440-22-4	Silver	575	ug/Kg		110	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-23-5	Sodium	117000	ug/Kg		7730	27600	27600	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-28-0	Thallium	0.0903	mg/kg	J	0.0671	0.224	0.224	2	MS	BAJ	02/13/10 15:11	100213-5	944127
7440-61-1	Uranium J-,16a	0.512	mg/kg	*N	0.0148	0.0447	0.0447	2	MS	SKJ	02/13/10 19:18	100213-2	944127
7440-62-2	Vanadium	22000	ug/Kg		110	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-66-6	Zinc	72900	ug/Kg		365	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.517	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.511	g	50	mL	01/27/10	BXAI
945588	945586	SW846 7471A Prep	0.517	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.546	g	50	mL	02/15/10	AXG2

LMF
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METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113014

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8420

LEVEL: Low

DATE RECEIVED 20-JAN-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	4430000	ug/Kg		9150	26900	26900	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-36-0	Antimony	1350	ug/Kg	U	444	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-38-2	Arsenic	1.54	mg/kg		0.277	1.38	1.38	2	MS	BAJ	02/11/10 23:37	100211-3	944127
7440-39-3	Barium J-,16a	52900	ug/Kg	*N	135	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-41-7	Beryllium	0.747	mg/kg		0.0286	0.143	0.143	2	MS	BAJ	02/15/10 19:18	100215-6	952970
7440-43-9	Cadmium	673	ug/Kg	U	135	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-70-2	Calcium	1420000	ug/Kg		10800	33600	33600	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-47-3	Chromium	12800	ug/Kg		202	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-48-4	Cobalt	2040	ug/Kg		202	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-50-8	Copper	7540	ug/Kg		404	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-89-6	Iron	11300000	ug/Kg		10800	33600	33600	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-92-1	Lead	9580	ug/Kg		336	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-95-4	Magnesium J+,16b	903000	ug/Kg	N	11400	40400	40400	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-96-5	Manganese	247000	ug/Kg		269	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-97-6	Mercury	226	ug/kg		5.74	16.9	16.9	1	AV	JXL	02/03/10 11:01	020310S2-7	945588
7440-02-0	Nickel	5.67	mg/kg		0.143	0.573	0.573	2	MS	BAJ	02/15/10 19:18	100215-6	952970
7440-09-7	Potassium J+,16b	694000	ug/Kg	N	8610	33600	33600	1	P	HSC	02/04/10 02:23	020310-1	944124
7782-49-2	Selenium	1.38	mg/kg	U	0.692	1.38	1.38	2	MS	BAJ	02/11/10 23:37	100211-3	944127
7440-22-4	Silver	481	ug/Kg	J	135	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-23-5	Sodium	128000	ug/Kg		9420	33600	33600	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-28-0	Thallium	0.112	mg/kg	J	0.0831	0.277	0.277	2	MS	BAJ	02/13/10 15:16	100213-5	944127
7440-61-1	Uranium J-,16a	1.52	mg/kg	*N	0.0183	0.0554	0.0554	2	MS	SKJ	02/13/10 19:20	100213-2	944127
7440-62-2	Vanadium	12700	ug/Kg		135	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-66-6	Zinc	42300	ug/Kg		444	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124

Prep Information:


Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.532	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.517	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.509	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.5	g	50	mL	02/15/10	AXG2


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


Section I.			
REQUEST NUMBER:	10-1325	VALIDATION DATE:	2/24/10
		LAB CODE:	GEL
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>			
VALIDATOR: <u>Larry Fukui</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"/> LCMSMS PERCHLORATES
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS	<input type="checkbox"/> ORGANOCHLORINE
<input checked="" type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	<input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> OTHER (DESCRIBE): _____			

Section II. Completeness Check							
YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. CHAIN-OF-CUSTODY FORM(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. RAW/BSS DATA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. CASE NARRATIVE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. QUALITY CONTROL FORMS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. SAMPLE RESULT FORMS	<input 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):							
<p>1. In the soil MSs associated with samples RE15-10-8418, -8420, -8421, and -8424, the %Rs were < the laboratory's LAL but $\geq 10\%$ for total CN. The associated result in sample -8424 was a detect and, thus, was qualified J-,I6a. All other associated sample results were NDs and, thus, were qualified UJ,I6a. The soil MS %Rs were < the laboratory's LAL but $\geq 10\%$ for NO₃-N by IC. The associated results in samples -8418 and -8421 were detects and, thus, were qualified J-,I6a. All other associated sample results were NDs and, thus, were qualified UJ,I6a.</p> <p>2. It should be noted that the aqueous matrix QC analyses were performed on parent samples from other LANL RNs. It should also be noted that the soil matrix QC for total CN analyses on all samples <u>except</u> -8417, -8418, -8420, -8421, and -8424 and pH on sample 8417 were performed on parent samples from other LANL RNs. No sample data were qualified as a result.</p>							
Reviewed by: <u>Mary Donovan</u> Level: <u>I</u> Date: <u>02/25/10</u>							
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div>VALIDATOR'S SIGNATURE: _____</div> <div>DATE: <u>2/24/10</u></div> </div>							


DATA VALIDATION COVER SHEET	
5120-1 Data Validation Cover Sheet	Records Use only  Los Alamos NATIONAL LABORATORY <small>EST. 1943</small>
Form 5120-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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

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

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

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

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

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

GEL LABORATORIES LLC

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

Report Date: February 8, 2010

Client SDG: 10-1325

Client Sample ID: RE15-10-8442
Sample ID: 245112001
Matrix: W
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-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	01/26/10	1028	944394	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	01/26/10	1129	943485	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1441	944393

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	
2	EPA 353.2	

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Project: LANL ER Project

Report Date: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8410
Sample ID: 245113001
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 24.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method	
Electrode Analysis												
SW9045C pH "As Received"												
pH at Temp 21.1C	H	6.34	0.010	0.100	SU	1	EXF1	01/22/10	1025	944409	1	
Flow Injection Analysis												
SW9012A Cyanide, Total "Dry Weight Corrected"												
Cyanide, Total		810	85.4	314	ug/kg	1	AXC2	01/26/10	0909	944401	2	
Ion Chromatography												
EPA 300.0 Nitrate in Soil "Dry Weight Corrected"												
Nitrate-N	U	ND	UJ.16a	0.397	1.32	mg/kg	1	GXM	01/30/10	1836	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID:	RE15-10-8411	Project:	LANL01004
Sample ID:	245113002	Client ID:	LANL010
Matrix:	R		
Collect Date:	14-JAN-10 12:00		
Receive Date:	20-JAN-10		
Collector:	Client		
Moisture:	15.4%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.3C	H	5.67	0.010	0.100	SU	1	EXF1	01/22/10	1029	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	77.2	284	ug/kg	1	AXC2	01/26/10	0910	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	UJ,16a	0.348	1.16	mg/kg	1	GXM	01/30/10	2035	946562
							3				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8412
Sample ID: 245113003
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 7.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method	
Electrode Analysis												
SW9045C pH "As Received"												
pH at Temp 21.3C	H	6.08	0.010	0.100	SU	1	EXF1	01/22/10	1032	944409	1	
Flow Injection Analysis												
SW9012A Cyanide, Total "Dry Weight Corrected"												
Cyanide, Total	U	ND	65.7	242	ug/kg	1	AXC2	01/26/10	0910	944401	2	
Ion Chromatography												
EPA 300.0 Nitrate in Soil "Dry Weight Corrected"												
Nitrate-N	U	ND	UJ,16a	0.321	1.07	mg/kg	1	GXM	01/30/10	2105	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8441
Sample ID: 245113004
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.58%

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	6.03	0.010	0.100	SU	1	EXF1	01/22/10	1036	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.3	266	ug/kg	1	AXC2	01/26/10	0911	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	UJ,16a	0.332	1.11	mg/kg	1	GXM	01/30/10	2235	946562
							3				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8413
Sample ID: 245113005
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 10.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method	
Electrode Analysis												
SW9045C pH "As Received"												
pH at Temp 21.3C	H	5.39	0.010	0.100	SU	1	EXF1	01/22/10	1038	944409	1	
Flow Injection Analysis												
SW9012A Cyanide, Total "Dry Weight Corrected"												
Cyanide, Total	U	ND	67.9	250	ug/kg	1	AXC2	01/26/10	0912	944401	2	
Ion Chromatography												
EPA 300.0 Nitrate in Soil "Dry Weight Corrected"												
Nitrate-N	U	ND	UJ,16a	0.336	1.12	mg/kg	1	GXM	01/30/10	2305	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8425
Sample ID: 245113006
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-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												
SW9045C pH "As Received"												
pH at Temp 21.1C	H	5.95	0.010	0.100	SU	1	EXF1	01/22/10	1042	944409	1	
Flow Injection Analysis												
SW9012A Cyanide, Total "Dry Weight Corrected"												
Cyanide, Total	U	ND	73.0	268	ug/kg	1	AXC2	01/26/10	0913	944401	2	
Ion Chromatography												
EPA 300.0 Nitrate in Soil "Dry Weight Corrected"												
Nitrate-N	U	ND	UJ,16a	0.332	1.11	mg/kg	1	GXM	01/30/10	2335	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8422
Sample ID: 245113007
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 10.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method	
Electrode Analysis												
SW9045C pH "As Received"												
pH at Temp 21.0C	H	5.77	0.010	0.100	SU	1	EXF1	01/22/10	1047	944409	1	
Flow Injection Analysis												
SW9012A Cyanide, Total "Dry Weight Corrected"												
Cyanide, Total	U	ND	72.0	265	ug/kg	1	AXC2	01/26/10	0914	944401	2	
Ion Chromatography												
EPA 300.0 Nitrate in Soil "Dry Weight Corrected"												
Nitrate-N	U	ND	UJ.l6a	0.334	1.11	mg/kg	1	GXM	01/31/10	0005	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8417
Sample ID: 245113008
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 23-JAN-10
Collector: Client
Moisture: 5.34%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method	
Electrode Analysis												
SW9045C pH "As Received"												
pH at Temp 20.2C	H	6.17	0.010	0.100	SU	1	EXF1	01/25/10	1506	945107	1	
Flow Injection Analysis												
SW9012A Cyanide, Total "Dry Weight Corrected"												
Cyanide, Total	U	ND	66.5	245	ug/kg	1	AXC2	01/28/10	1507	944832	2	
Ion Chromatography												
EPA 300.0 Nitrate in Soil "Dry Weight Corrected"												
Nitrate-N	U	ND	UJ.16a	0.311	1.04	mg/kg	1	GXM	01/31/10	0035	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/27/10	1602	944831

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8423
Sample ID: 245113009
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.36%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method	
Electrode Analysis												
SW9045C pH "As Received"												
pH at Temp 21.1C	H	5.52	0.010	0.100	SU	1	EXF1	01/22/10	1049	944409	1	
Flow Injection Analysis												
SW9012A Cyanide, Total "Dry Weight Corrected"												
Cyanide, Total	U	ND	73.6	270	ug/kg	1	AXC2	01/26/10	0915	944401	2	
Ion Chromatography												
EPA 300.0 Nitrate in Soil "Dry Weight Corrected"												
Nitrate-N	U	ND	UJ,16a	0.328	1.09	mg/kg	1	GXM	01/31/10	0105	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8416
Sample ID: 245113010
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.57%

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	6.07	0.010	0.100	SU	1	EXF1	01/22/10	1055	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.9	261	ug/kg	1	AXC2	01/26/10	0919	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	UJ.16a	0.332	1.11	mg/kg	1	GXM	01/31/10	0134	946562
							3				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8418
Sample ID: 245113011
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 11.3%

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	6.12	0.010	0.100	SU	1	EXF1	01/22/10	1058	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	UJ,16a	73.7	271	ug/kg	1	AXC2	01/28/10	1539	944403 2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.47	J-,16a	0.338	1.13	mg/kg	1	GXM	01/31/10	0304	946562 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/28/10	1422	944402

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8424
Sample ID: 245113012
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 10%

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 21.0C	H	5.97	0.010	0.100	SU	1	EXF1	01/22/10	1104	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	121	J-,l6a	67.5	248	ug/kg	1	AXC2	01/28/10	1546	944403 2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	UJ,l6a	0.333	1.11	mg/kg	1	GXM	01/31/10	0334	946562 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/28/10	1422	944402

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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Client SDG: 10-1325-1

Client Sample ID: RE15-10-8421
Sample ID: 245113013
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-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 21.1C	H	5.64	0.010	0.100	SU	1	EXF1	01/22/10	1106	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	UJ,16a	76.2	280	ug/kg	1	AXC2	01/28/10	1551	944403 2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.39	J-,16a	0.343	1.14	mg/kg	1	GXM	01/31/10	0404	946562 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/28/10	1422	944402

The following Analytical Methods were performed

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

LMF
2/24/10

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8420
Sample ID: 245113014
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 30.1%

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 21.0C	H	6.07	0.010	0.100	SU	1	EXF1	01/22/10	1111	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	UJ,16a	90.1	331	ug/kg	1	AXC2	01/28/10	1551	944403 2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	UJ,16a	0.413	1.38	mg/kg	1	GXM	01/31/10	0434	946562 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/28/10	1422	944402

The following Analytical Methods were performed

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

LMF
2/24/10

Tuesday, January 19, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1325

LOS ALAMOS

REQUEST NUMBER: 10-1325

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/18/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

245112, 245113 %

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8442	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8442	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE15-10-8442	1	POLY	SW-846.6850	Ice	W
RE15-10-8442	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8410	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8410	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8411	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8411	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8412	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8412	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8441	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8441	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8413	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8413	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8425	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8425	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8422	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8422	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8417	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8417	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8423	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8423	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8416	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8416	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8418	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8418	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8424	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8424	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8421	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8421	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8420	1	POLY	METALS+U-GEL	Ice	R

Tuesday, January 19, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1325

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8420	1	POLY	Perchlorate+CN+N03+pH Ice		R:
Relinquished By:		Date	Time	Received By:	
Signature		1/19/10	1400	Signature	
Printed Name		Patricia Dover-Dent		Printed Name	
		P. U. Dent		Signature	
		1-20-10		08:45	
Printed Name		Signature		Printed Name	
				Signature	
Printed Name		Signature		Printed Name	
				Signature	
Received for DISPOSAL By:		Date	Time	Remarks:	
Printed Name		Signature			

Page 1 of 5
REQUEST NUMBER: 10-1325

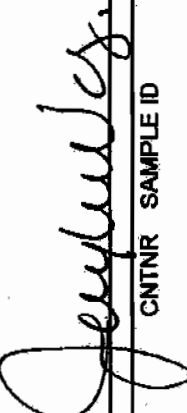
Tuesday, January 19, 2010
LOS ALAMOS
NATIONAL LABORATORY

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

These Samples are on:
LANL Request Number: 10-1325
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

SHIP DATE: 1/19/2010
TURNAROUND/REPORT DUE: 2/18/2010
TURNAROUND REQ'D: 30 Days

LAB REQUEST COMMENTS:
RAD SCREENING: Yes, Below Background

LANL ER SMO CONTACT:
Signature: 

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA:300.0						
1	RE15-10-8410	1	RE15-10-8410	R	1/14/2010	
1	RE15-10-8411	1	RE15-10-8411	R	1/14/2010	
1	RE15-10-8412	1	RE15-10-8412	R	1/14/2010	
1	RE15-10-8413	1	RE15-10-8413	R	1/14/2010	
1	RE15-10-8416	1	RE15-10-8416	R	1/14/2010	
1	RE15-10-8417	1	RE15-10-8417	R	1/14/2010	
1	RE15-10-8418	1	RE15-10-8418	R	1/14/2010	
1	RE15-10-8420	1	RE15-10-8420	R	1/14/2010	
1	RE15-10-8421	1	RE15-10-8421	R	1/14/2010	

Tuesday, January 19, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
	EPA-353.2	1	RE15-10-8442	W	1/14/2010	
	SW-846-6010B	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
	SW-846-6020	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	

Tuesday, January 19, 2010 Page 3 of 5
 REQUEST NUMBER: 10-1325

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
	SW-846:6850	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
	SW-846:7470A	1	RE15-10-8442	W	1/14/2010	
	SW-846:7471A	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	

Tuesday, January 19, 2010 Page 4 of 5
 REQUEST NUMBER: 10-1325

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:7471A	1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
	SW-846:9012A	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
	SW-846:9045C	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	

REQUEST NUMBER: 10-1325

Tuesday, January 19, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9045C	1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	

Final Page of REQUEST NUMBER 10-1325



January 22, 2010

www.gel.com

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

Re: LANL ER Project
Work Orders: 245112 245113
SDG: 10-1325

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on January 20, 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: 10-1325
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 245112 and 245113
SDG: 10-1325

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 245112 and 245113
SDG # : 10-1325**

January 22, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on January 20, 2010 for analysis. The sample was prepared/analyzed within the required holding time. Shipping container temperature was checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. Please see attached e-mail for discrepancies. All sample containers arrived without any visible signs of tampering or breakage. The NO3NO2 container was preserved prior to analysis. There are no additional comments concerning sample receipt. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

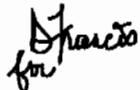
<u>Laboratory ID</u>	<u>Client ID</u>
245112001	RE15-10-8442
245113001	RE15-10-8410
245113002	RE15-10-8411
245113003	RE15-10-8412
245113004	RE15-10-8441
245113005	RE15-10-8413
245113006	RE15-10-8425
245113007	RE15-10-8422
245113008	RE15-10-8417
245113009	RE15-10-8423
245113010	RE15-10-8416
245113011	RE15-10-8418
245113012	RE15-10-8424
245113013	RE15-10-8421
245113014	RE15-10-8420

Case Narrative

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

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

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

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

Valerie Davis

Project Manager

List of current GEL Certifications as of 22 January 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

Tuesday, January 19, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1325

LOS ALAMOS

REQUEST NUMBER: 10-1325

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/18/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

245112, 245113 %

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8442	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8442	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE15-10-8442	1	POLY	SW-846:6850	Ice	W
RE15-10-8442	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8410	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8410	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8411	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8411	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8412	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8412	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8441	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8441	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8413	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8413	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8425	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8425	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8422	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8422	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8417	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8417	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8423	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8423	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8416	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8416	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8418	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8418	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8424	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8424	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8421	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8421	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8420	1	POLY	METALS+U-GEL	Ice	R

Tuesday, January 19, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1325

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
-----------	------	-----------	-------	---------	--------

RE15-10-8420	1	POLY	Perchlorate+CN+N03+pH Ice		R
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Relinquished By:

Date Time

Received By:

Date Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date Time

Remarks:

Printed Name

Signature

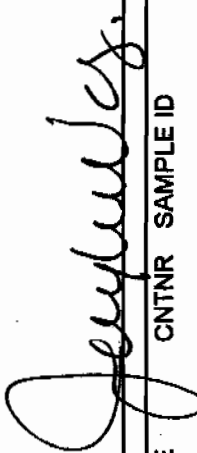
Tuesday, January 19, 2010
LOS ALAMOS
NATIONAL LABORATORY

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: 1/19/2010
TURNAROUND/REPORT DUE: 2/18/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
 Signature: 

Page 1 of 5
 REQUEST NUMBER: 10-1325

These Samples are on:
 LANL Request Number: 10-1325
 Per Agreement Number: 126310011
 Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0					
		1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	

Tuesday, January 19, 2010

Page 2 of 5

REQUEST NUMBER: 10-1325

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
	EPA-353.2	1	RE15-10-8442	W	1/14/2010	
	SW-846-6010B	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
	SW-846-6020	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	

Tuesday, January 19, 2010

Page 3 of 5

REQUEST NUMBER: 10-1325

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
	SW-846:6850	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
	SW-846:7470A	1	RE15-10-8442	W	1/14/2010	
	SW-846:7471A	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	

Tuesday, January 19, 2010

Page 4 of 5

REQUEST NUMBER: 10-1325

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:7471A	1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
	SW-846:9012A	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	
		1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	
		1	RE15-10-8442	W	1/14/2010	
	SW-846:9045C	1	RE15-10-8410	R	1/14/2010	
		1	RE15-10-8411	R	1/14/2010	
		1	RE15-10-8412	R	1/14/2010	
		1	RE15-10-8413	R	1/14/2010	

Tuesday, January 19, 2010

Page 5 of 5
REQUEST NUMBER: 10-1325

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9045C	1	RE15-10-8416	R	1/14/2010	
		1	RE15-10-8417	R	1/14/2010	
		1	RE15-10-8418	R	1/14/2010	
		1	RE15-10-8420	R	1/14/2010	
		1	RE15-10-8421	R	1/14/2010	
		1	RE15-10-8422	R	1/14/2010	
		1	RE15-10-8423	R	1/14/2010	
		1	RE15-10-8424	R	1/14/2010	
		1	RE15-10-8425	R	1/14/2010	
		1	RE15-10-8441	R	1/14/2010	

Final Page of REQUEST NUMBER 10-1325



SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCOC/Work Order: 10-1325	
Received By: Patricia Dover-Dent		Date Received: January 20, 2009	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 80 CPM
Classified Radioactive II by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other (describe) 2-5C 12-15,17C
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: RE15-10-8442 for NO3N02 If Preservation added, Lot#: G45010
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: time written on containers, not on COC
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: Please see attached E-mail
12 COC form is properly signed in relinquished/received sections?	X			

Comments: FEDEX#S

7209 7849 5644 2C ~~7209 7849 5302 12C~~ 7209 7849 5817 14C
 7209 7849 5725 2C 7209 7849 5828 4C 7209 7849 5872 14C
 7209 7849 5736 2C 7209 7849 5839 4C 7209 7849 5703 15C
 7209 7849 5840 2C 7209 7849 5861 4C 7209 7849 5633 17C
 7209 7849 5688 3C 7209 7849 5883 4C
 7209 7849 5850 3C 7209 7849 5747 5C
 7209 7849 5655 4C 7209 7849 6055 5C
 7209 7849 5666 4C 7209 7849 5677 12C
 7209 7849 5714 4C 7209 7849 5699 13C

PM (or PMA) review: Initials

Date

1/21/10

Subject: Re: Sample Receipt for 1/20/10

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

Date: Mon, 25 Jan 2010 10:47:59 -0500

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

Good Morning Keith,

The lab rec'd all the missing containers listed below on 1/23/10.

Thanks,
Dionne

Dionne Francis wrote:

Keith,

RN 10-1337: the lab did not receive the amber glass NMED Explosives container for sample WSTWA-10-11330.

RN 10-1299: the lab rec'd (1) 40ml vial 8260B container for sample RE46-10-11171 instead of (2) as indicated on the COC.

RN 10-1292: the lab rec'd (1) 40ml vial 8260B container each for samples RE46-10-11311 and 11324 instead of (2) as indicated on the COC.

RN 10-1294: the lab rec'd (1) 40ml vial 8260B container for sample RE16-10-1019 instead of (2) as indicated on the COC.

RN 10-1301: the lab rec'd (1) 40ml vial 8260B container for sample RE15-10-7234 instead of (2) as indicated on the COC.

RN 10-1293: the TCN container for sample RE46-10-11309 was preserved prior to analysis.

RN 10-1334: the lab did not receive any vial containers for sample RE16-10-1084.

RN 10-1335: the lab did not receive a poly NO3NO2 container for sample RE16-10-1084.

RN 10-1300: the Metals and TCN were preserved prior to analysis.

RN 10-1327: containers not rec'd
none for samples RE15-10-7208, 7201, 7220
amber glass 8260B containers for samples RE15-10-7207, 7199, 7206, 7202
amber glass 8270C+NMED Exp containers for samples RE15-10-7210, 7204, 7221

RN 10-1325: containers not rec'd
poly Perchlorate+CN+NO3+pH for samples RE15-10-8425, 8412, 8410, 8417
poly METALS+U for sample RE15-10-8417

RN 10-1330: containers not rec'd
amber glass 8270+NMED Exp for samples RE16-10-965, 981, 1008, 8416
amber glass 8260B for sample RE16-10-959

RN 10-1324: containers nor rec'd
amber glass 8270+NMED Exp for samples RE15-10-8422, 8425
amber glass 8260B for samples RE15-10-8410, 8411, 8420, 8418, 8424, 8413, 8422, 8425

RN 10-1339: the lab did not receive amber glass 8081A, 8082, TPH-GRO containers for sample WSTCB-10-11545. However, we rec'd amber glass containers with the same test for sample WSTCB-10-11543 without a COC. Please advise.

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.

LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

SHIP DATE: 19JAN10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

3c

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2 of 2
MPS# 7209 7849 5688
Matr# 7209 7849 5677 [0201]

WED - 20JAN A1
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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

SHIP DATE: 19JAN10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

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1 of 2
MPS# 7209 7849 5655
Matr# MASTER NN

WED - 20JAN A1
PRIORITY OVERNIGHT

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

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

SHIP DATE: 19JAN10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

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TRKH 7209 7849 5850
[0201]

WED - 20JAN A1
PRIORITY OVERNIGHT

29407
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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

SHIP DATE: 19JAN10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

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MPS# 7209 7849 5666
[0201]

WED - 20JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

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

SHIP DATE: 19JAN10
ACTMGT: 54.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR2A0515BYDO

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WED - 20JAN A1
PRIORITY OVERNIGHT

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0263 7209 7849 5714

Master 7209 7849 5699 0201

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Part # 156148-434 NRIT V3 04-05

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

SHIP DATE: 19JAN10
ACTMGT: 54.0 LB MAN
CAD: 0014176/CAFE2449

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2040 SAVAGE RD

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1 of 2

WED - 20JAN A1
PRIORITY OVERNIGHT

TRKH
0201 7209 7849 5839

NO MASTER NO

XX CHSA

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SC-US
CHS

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

SHIP DATE: 19JAN10
ACTMGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

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2040 SAVAGE RD

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REF: 6B010AMR3A05529E00

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3 of 3

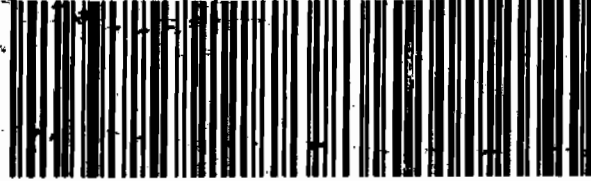
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PRIORITY OVERNIGHT

MPSH
0263 7209 7849 5828

Master 7209 7849 5806 0201

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Part # 156148-434 NRIT V3 04-05

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

SHIP DATE: 19JAN10
ACTMGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A0352VA00

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PRIORITY OVERNIGHT

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0201 7209 7849 5861

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTNGT: 37.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

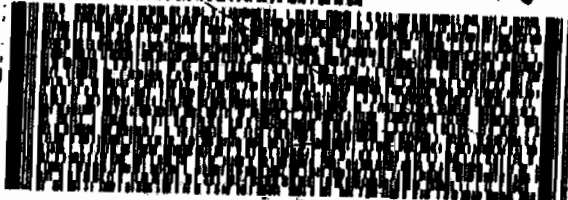
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(843) 556-9171

REF: 6B010AMR1A0130Y0000

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Part # 156148-434 NMT V3 04-00



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0201 7209 7849 5883

WED - 20JAN A1
PRIORITY OVERNIGHT

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTNGT: 35.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-9171

REF: 6B010AME6L11550000

5c



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TRKH
201 7209 7849 6055

WED - 20JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



SHIP DATE: 19JAN10
ACTNGT: 55.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 6B010AMR2A0515BYD0

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0201 7209 7849 5747

WED - 20JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTNGT: 61.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-9171

REF: 6B010AMR3A05529E00

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1 of 2
TRKH
0201 7209 7849 5677

WED - 20JAN A1
PRIORITY OVERNIGHT

NN MASTER NN

XX CHSA

29407

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTWGT: 41.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

° VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR2A0515BYDO

° VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

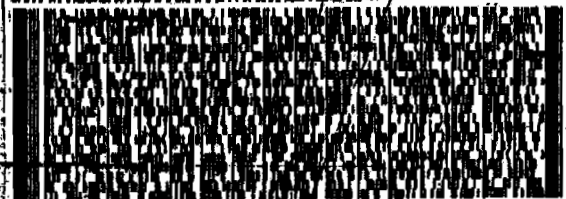
CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A05529E00



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1 of 3
TRKH 7209 7849 5699
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29407
SC-US
CHS



Part # 15614-434 NRTT V3 04-05

2 of 3
TRKH 7209 7849 5817
0201

MM MASTER MM

XX CHSA

29407
SC-US
CHS



Part # 15614-434 NRTT V3 04-05

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTWGT: 127.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

° VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A0352VRO0

SHIP DATE: 19JAN10
ACTWGT: 127.0 LB MAN
CAD: 0014176/CAFE2449



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Express



TRKH 7209 7849 5872
0201

YY CHSA

WED - 20JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTWGT: 46.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

ALERIE DAVIS
GENERAL ENGINEERING LAB
840 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR2A0515BYDO



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Express



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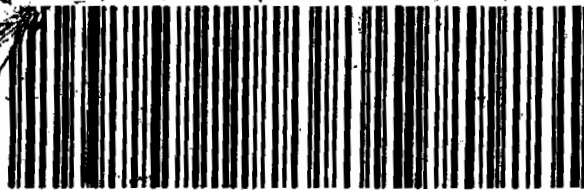
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0263

Matr-N 7209 7849 5699 8201

WED - 20 JAN A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



ORIGIN ID: SAFA (505) 555-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 01
LOS ALAMOS, NM 87540
UNITED STATES US

SHIP DATE: 19JAN18
ACTWGT: 67.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON 29407

(843) 556-8171

REF: 5B010AAR 05529E00



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2 of 3

NPS# 7209 7849 5633
0263

Matr# 7209 7849 5622 022

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PRIORITY OVERNIGHT

XX CHSA

29407
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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 10-1325**

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: 945223

Prep Batch Number: 945221

Sample Analysis

Sample ID	Client ID
245112001	RE15-10-8442
1202024389	Interference Check Sample (ICS)
1202024385	Method Blank (MB)
1202024386	Laboratory Control Sample (LCS)
1202024387	245089002(RE46-10-11310) Matrix Spike (MS)
1202024388	245089002(RE46-10-11310) 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.

10-1325-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 245089002 (RE46-10-11310) from SDG 10-1293 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.

10-1325-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 or 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: Hebert K. Mann Date: 02/03/10

SAMPLE DATA SUMMARY

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 945221

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-8442

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325

GEL Sample ID: 245112001

Date Filtered: 27-JAN-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	28-JAN-10 01:57	per0127052a
	Perchlorate Isotope Ratio						1	28-JAN-10 01:57	per0127052a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 01:57	per0127052a
	Perchlorate-O(18)			0.488	ug/L		1	28-JAN-10 01:57	per0127052a

[^] 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): 10-1325

Extract Batch Code: 945221

Date Filtered: 27-JAN-10

Matrix: WATER

Sample ID: 1202024386

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.195	ug/L	97.6		85 - 115
Perchlorate Isotope Ratio		3.18				-
Perchlorate-101	0.200	.185	ug/L	92.4		85 - 115
Perchlorate-O(18)		.488	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):

10-1325

Extract Batch Code: 945221

Date Filtered:

27-JAN-10

Matrix: WATER

Sample ID:

1202024389

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.194	ug/L	97		70 - 130
Perchlorate Isotope Ratio		3.18				
Perchlorate-101	0.200	.183	ug/L	91.6		70 - 130
Perchlorate-O(18)		.481	ug/L			

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

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Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

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Date: 28-Jan-2010

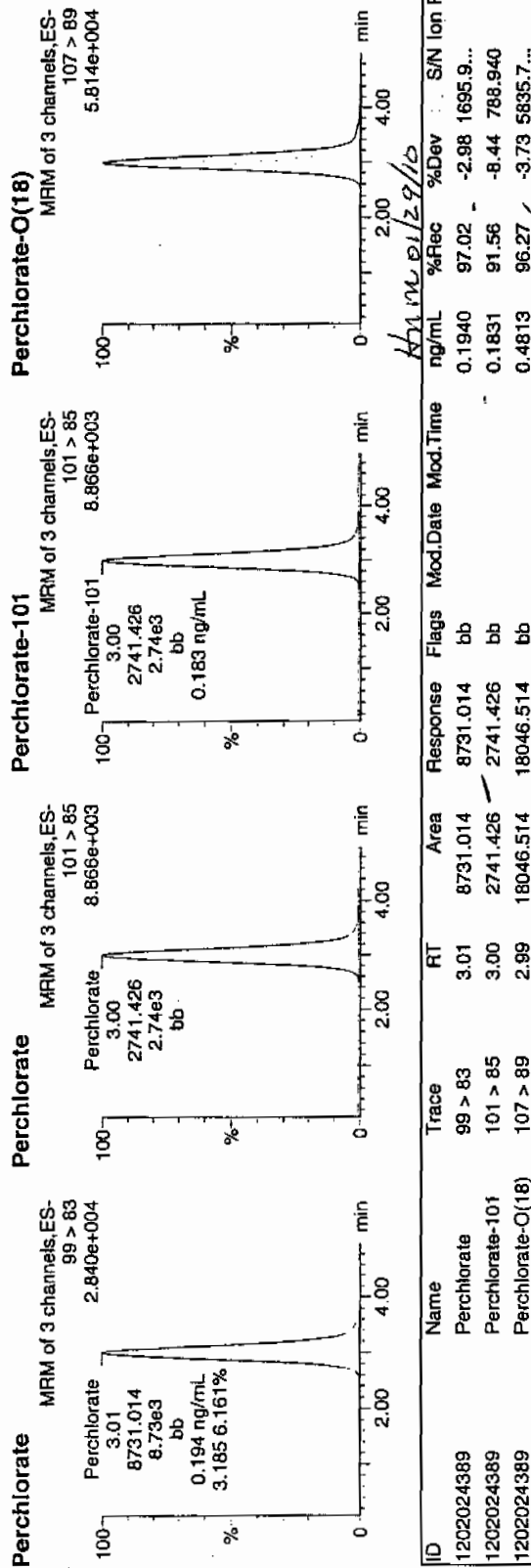
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ID: 1202024389

Vial: 2:1,C

01-23-10

1202024389 | 1202024389 | 11



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

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1325

Extract Batch Code: 945221

Date Extracted: 27-JAN-10

GEL MS/PS ID: 1202024387

Client ID: RE46-10-11310

GEL MSD/PSD ID: 1202024388

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	0.00233	ug/L	0.189	93.1	.197	97.1	4.16		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.04		2.96		0			-
Perchlorate-101	0.200	0.00298	ug/L	0.187	91.9	.2	98.3	6.66		30	75 - 125
Perchlorate-O(18)	0	0.480	ug/L	0.475		.481		1.31			-

[^] 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): 10-1325

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	27-JAN-10	per0127001a	IPB001
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127001a	IPB001
Perchlorate	0.00	0	NA	27-JAN-10	per0127002a	IPB001
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127002a	IPB001

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

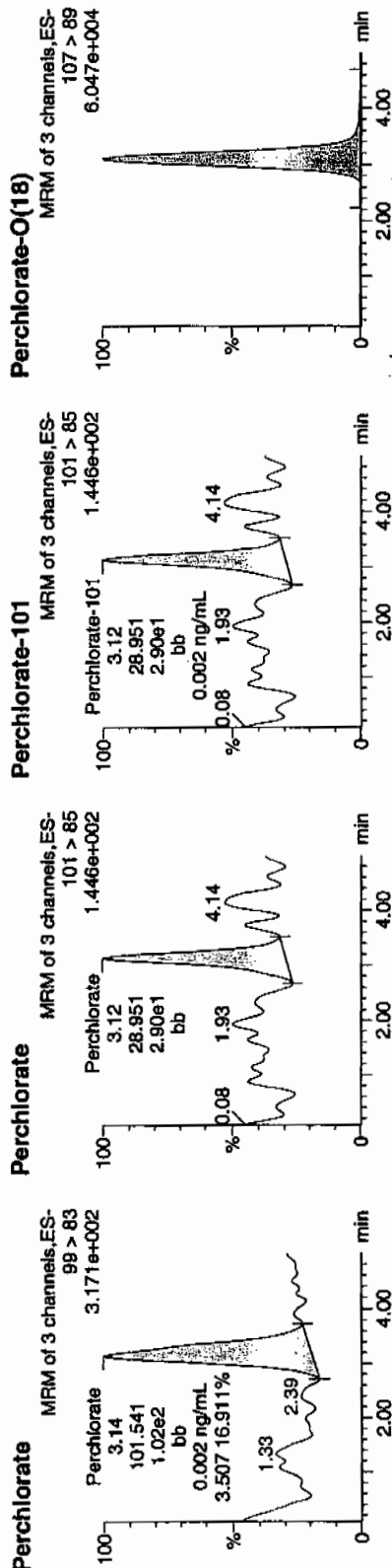
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Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

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Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per012710a.cdb 28 Jan 2010 12:32:46

Name: per0127001a
Date: 27-Jan-2010
Time: 19:06:51
ID: IPB001
Vial: 1:1,A

01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	3.14	101.541	101.541	bb			0.0023			43.847	3.51
IPB001	Perchlorate-101	101 > 85	3.12	28.951	28.951	bb			0.0019			16.582	
IPB001	Perchlorate-O(18)	107 > 89	3.10	18671.002	18671.002	bb			0.4980	99.60	-0.40	1853.0...	

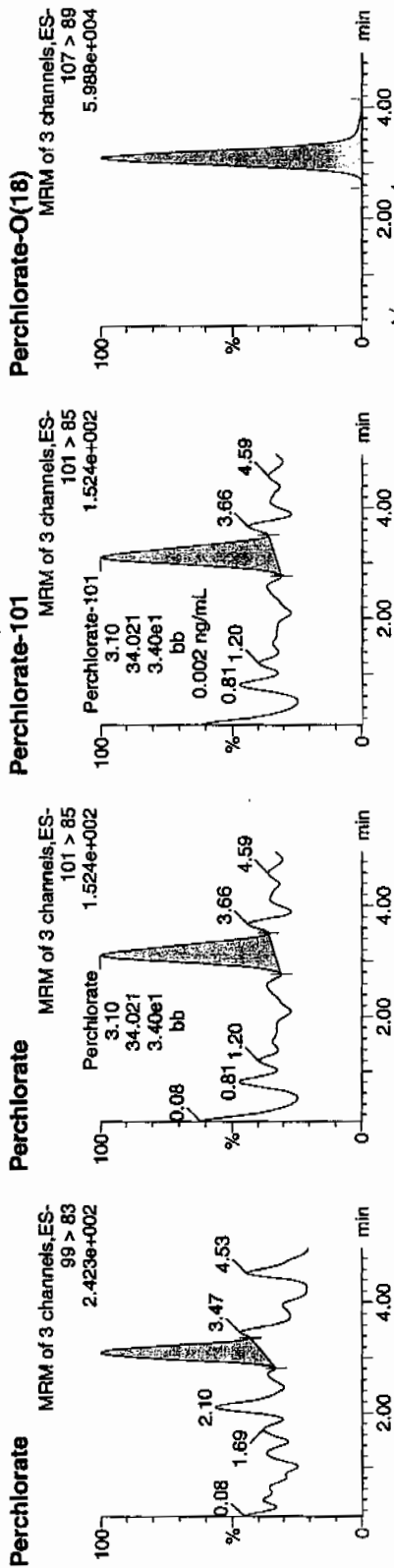
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

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Name: per0127002a
Date: 27-Jan-2010
Time: 19:15:04
ID: IPB001
Vial: 1:1,A

U-23-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	3.10	41.383	41.383	bb			0.0009	8.994	1.22		
IPB001	Perchlorate-101	101 > 85	3.10	34.021	34.021	bb			0.0023	16.085			
IPB001	Perchlorate-O(18)	107 > 89	3.09	18576.500	18576.500	bb			0.4955	99.10	-0.90	3756.9...	

4.59 3.10 3.40 3.40e1

Perchlorate Continuing Calibration Blank

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

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1325

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	27-JAN-10	per0127008a	IPB002
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127008a	IPB002
Perchlorate	0.00	0	NA	27-JAN-10	per0127010a	IPB003
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127010a	IPB003
Perchlorate	0.00	0	NA	27-JAN-10	per0127023a	IPB004
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127023a	IPB004
Perchlorate	0.00	0	NA	27-JAN-10	per0127036a	IPB005
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127036a	IPB005
Perchlorate	0.00	0	NA	28-JAN-10	per0127049a	IPB006
Perchlorate-101	0.00	0	NA	28-JAN-10	per0127049a	IPB006
Perchlorate	0.00	0	NA	28-JAN-10	per0127062a	IPB007
Perchlorate-101	0.00	0	NA	28-JAN-10	per0127062a	IPB007

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

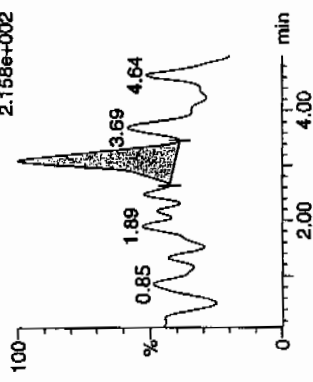
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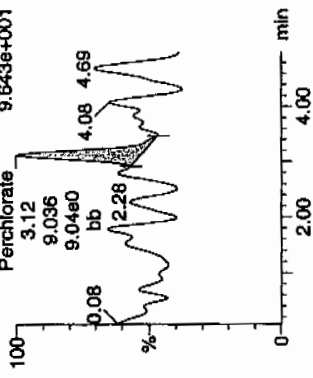
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Date: 27-Jan-2010
Time: 20:03:21
ID: IPB002
Vial: 1:1,A

01-28-10

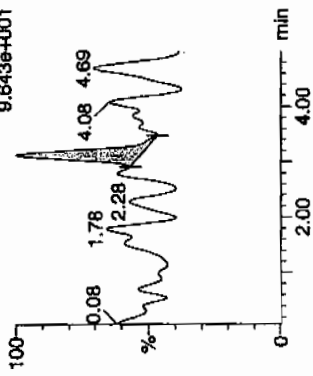
Perchlorate
MRM of 3 channels, ES-
99 > 83
2.158e+002



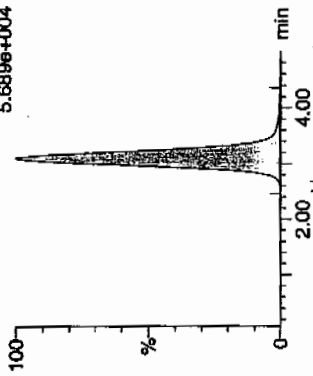
Perchlorate
MRM of 3 channels, ES-
101 > 85
9.643e+001



Perchlorate-101
MRM of 3 channels, ES-
101 > 85
9.643e+001



Perchlorate-O(18)
MRM of 3 channels, ES-
107 > 89
5.689e+004



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	%Dev	SN	Ion	Ratio
IPB002	Perchlorate	99 > 83	3.09	42.079	42.079	bb					0.0009			12.512	4.66	
IPB002	Perchlorate-101	101 > 85	3.12	9.036	9.036	bb					0.0006			12.364		
IPB002	Perchlorate-O(18)	107 > 89	3.10	17949.510	17949.510	bb					0.4788	95.75	-4.25	5202.8...		

Handwritten notes: 4.66, 12.512, 12.364, 5202.8...

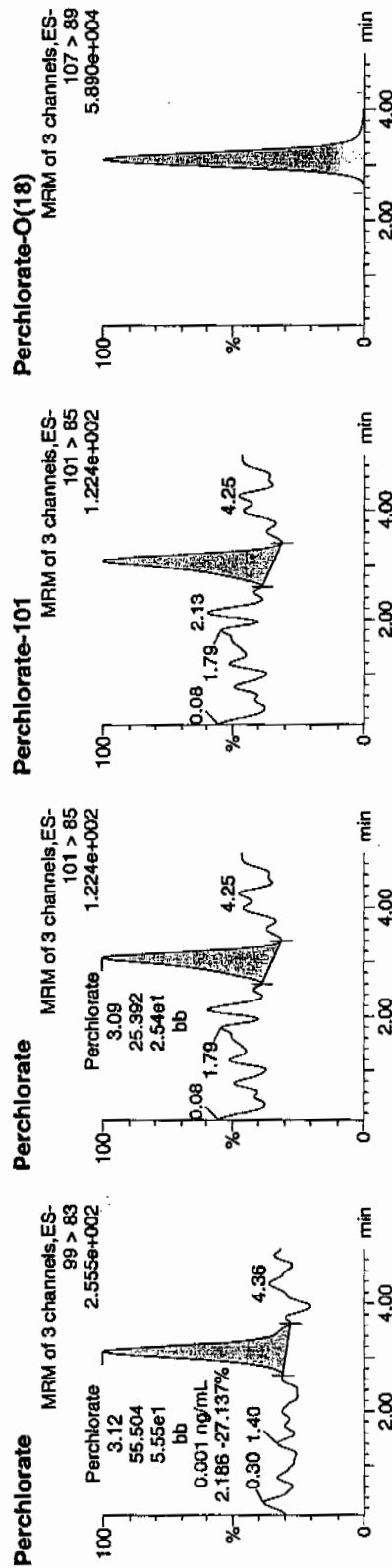
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

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Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127010a
Date: 27-Jan-2010
Time: 20:19:25
ID: IPB003
Vial: 1:1.A

01-23-10



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Time	ng/mL	%Rec	%Dev	SN	Ion	Ratio
IPB003	Perchlorate	99 > 83	3.12	55.504	55.504	bb				0.0012				10.142	2.19
IPB003	Perchlorate-101	101 > 85	3.09	25.392	25.392	bb				0.0017				17.762	
IPB003	Perchlorate-O(18)	107 > 89	3.10	18617.938	18617.938	bb				0.4966	99.32	-0.68	4293.7...		

0.004
20.0000

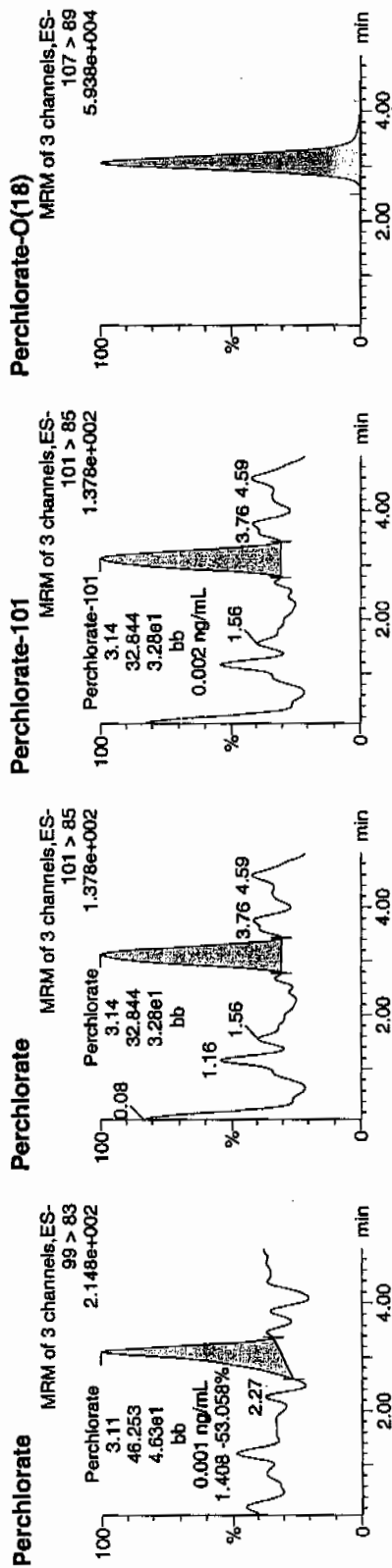
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

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Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127023a
Date: 27-Jan-2010
Time: 22:03:52
ID: IPB004
Vial: 1:1.A

01-23-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Day	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83	3.11	46.253	46.253	bb			0.0010	0.0010		37.540	1.41
IPB004	Perchlorate-101	101 > 85	3.14	32.844	32.844	bb			0.0022	0.0022		16.463	
IPB004	Perchlorate-O(18)	107 > 89	3.06	18551.006	18551.006	bb			0.4948	98.96	-1.04	7426.3...	

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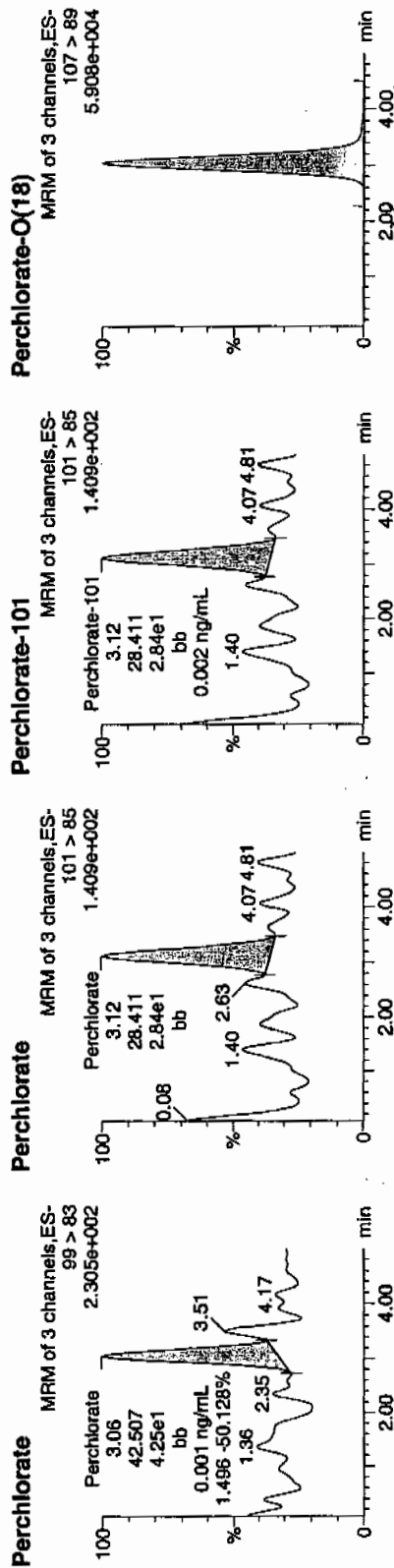
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The GEL Group, LLC Analyst: Charlers W. Wilson

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Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127036a
Date: 27-Jan-2010
Time: 23:48:26
ID: IPB005
Vial: 1:1,A

Q-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SSN	Ion Ratio
IPB005	Perchlorate	99 > 83	3.06	42.507	42.507	bb			0.0009			16.200	1.50
IPB005	Perchlorate-101	101 > 85	3.12	28.411	28.411	bb			0.0019			23.260	
IPB005	Perchlorate-O(18)	107 > 89	3.04	18369.904	18369.904	bb			0.4900	97.99	-2.01	3034.0...	

Q-28-10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
 Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127049a

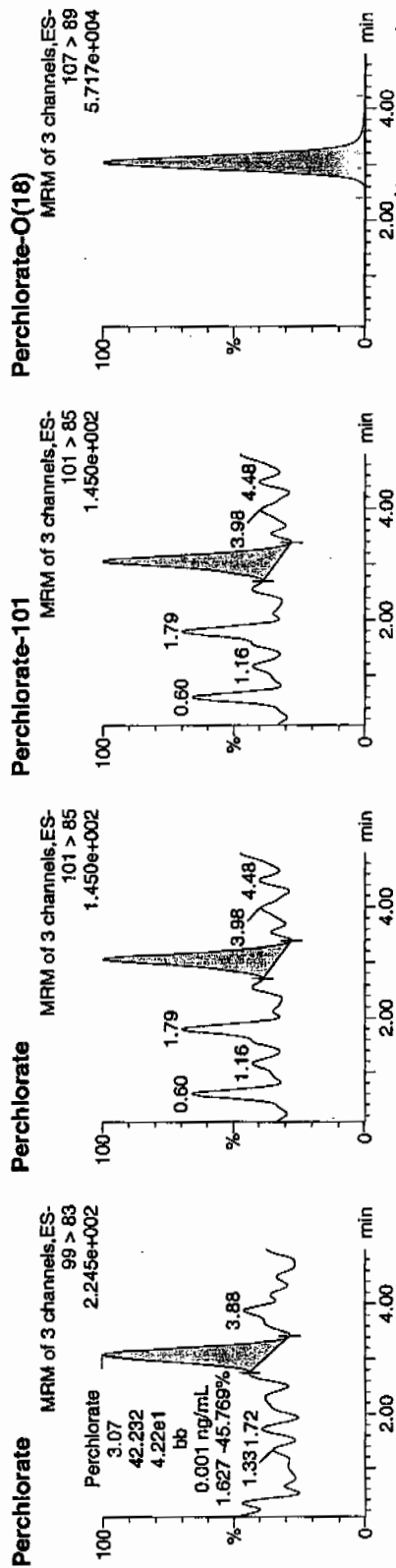
Date: 28-Jan-2010

Time: 01:33:12

ID: IPB006

Vial: 1:1,A

cus
01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	% Rec	% Dev	SN	Ion Ratio
IPB006	Perchlorate	99 > 83	3.07	42.232	42.232	bb			0.0009			17.575	1.63
IPB006	Perchlorate-101	101 > 85	3.05	25.958	25.958	bb			0.0017			7.522	
IPB006	Perchlorate-O(18)	107 > 89	3.02	17816.770	17816.770	bb			0.4752	95.04	✓ -4.96	3449.3...	

WAY
LOASD

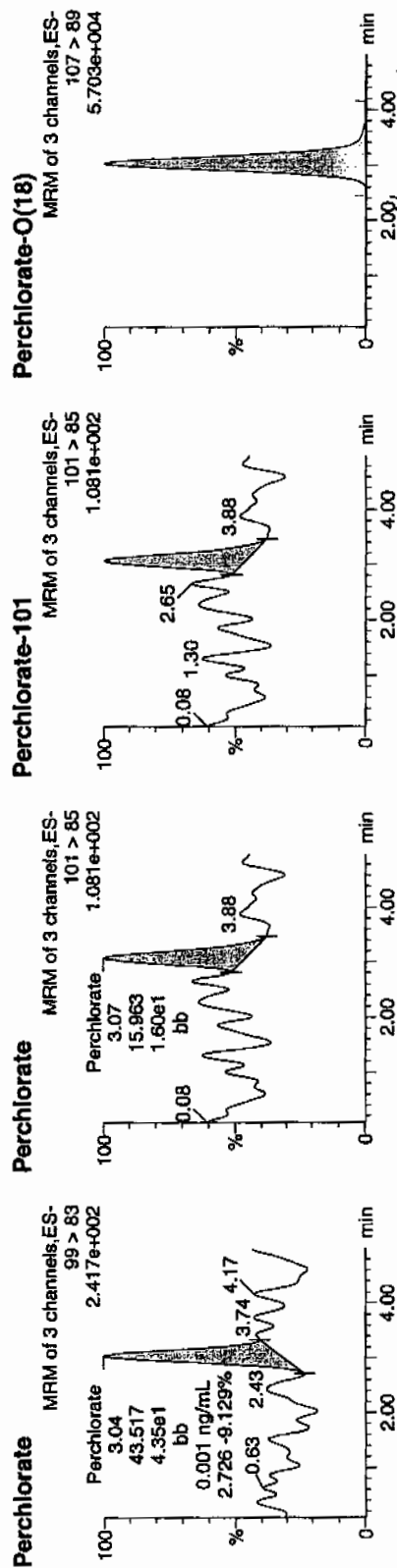
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127062a
Date: 28-Jan-2010
Time: 03:18:07
ID: IPB007
Vial: 1:1,A

01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Dev	S/N	Ion	Ratio
IPB007	Perchlorate	99 > 83	3.04	43.517	43.517	bb					0.0010	15.178	2.73		
IPB007	Perchlorate-101	101 > 85	3.07	15.963	15.963	bb					0.0011	12.192			
IPB007	Perchlorate-O(18)	107 > 89	3.02	17717.197	17717.197	bb					0.4726	94.51	-5.49	5679.0...	

Nairb.ref

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

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

QUARTO ULTIMA: nairb 01-08-08.cal

Calibration Report - MS1 Static

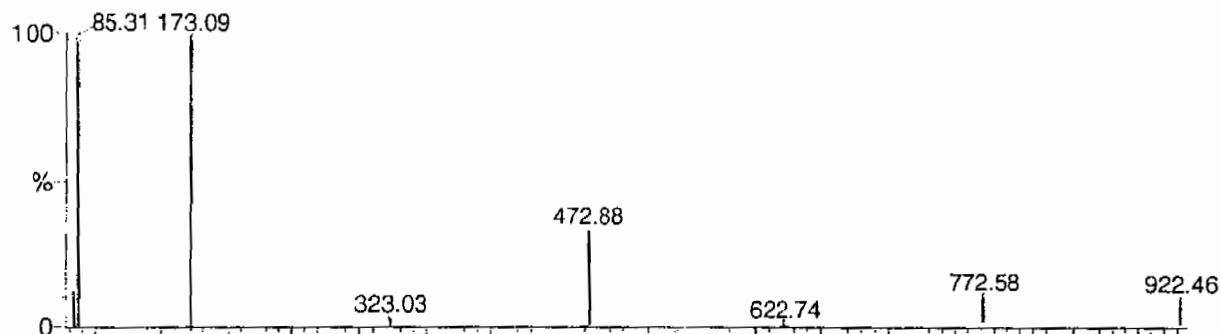
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

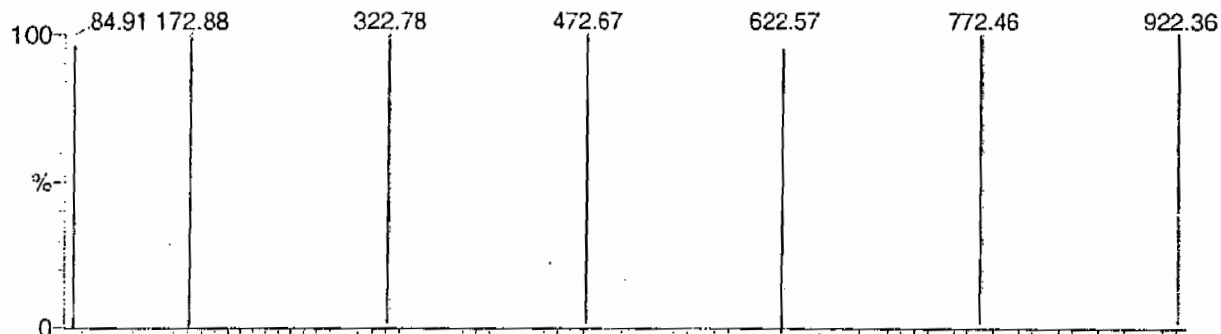
DATA HIGHLIGHTED BY CURVED 01-05-03

Data file: STATMS1 - Uncalibrated

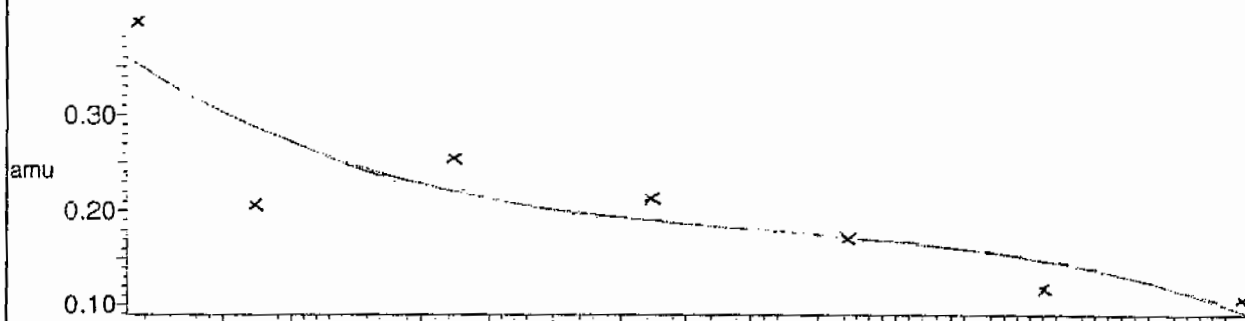
7 matches of 7 tested references



Reference file: Nairb

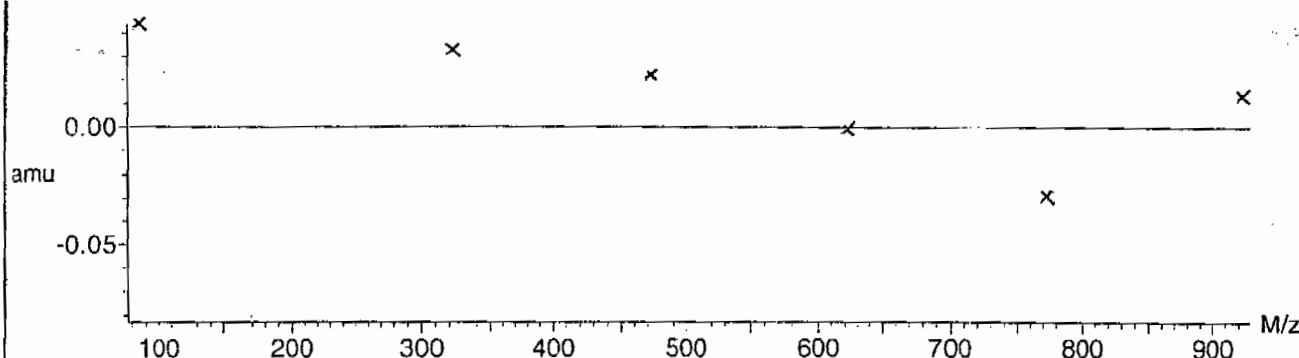


Mass difference (Raw - Ref mass)



Residuals

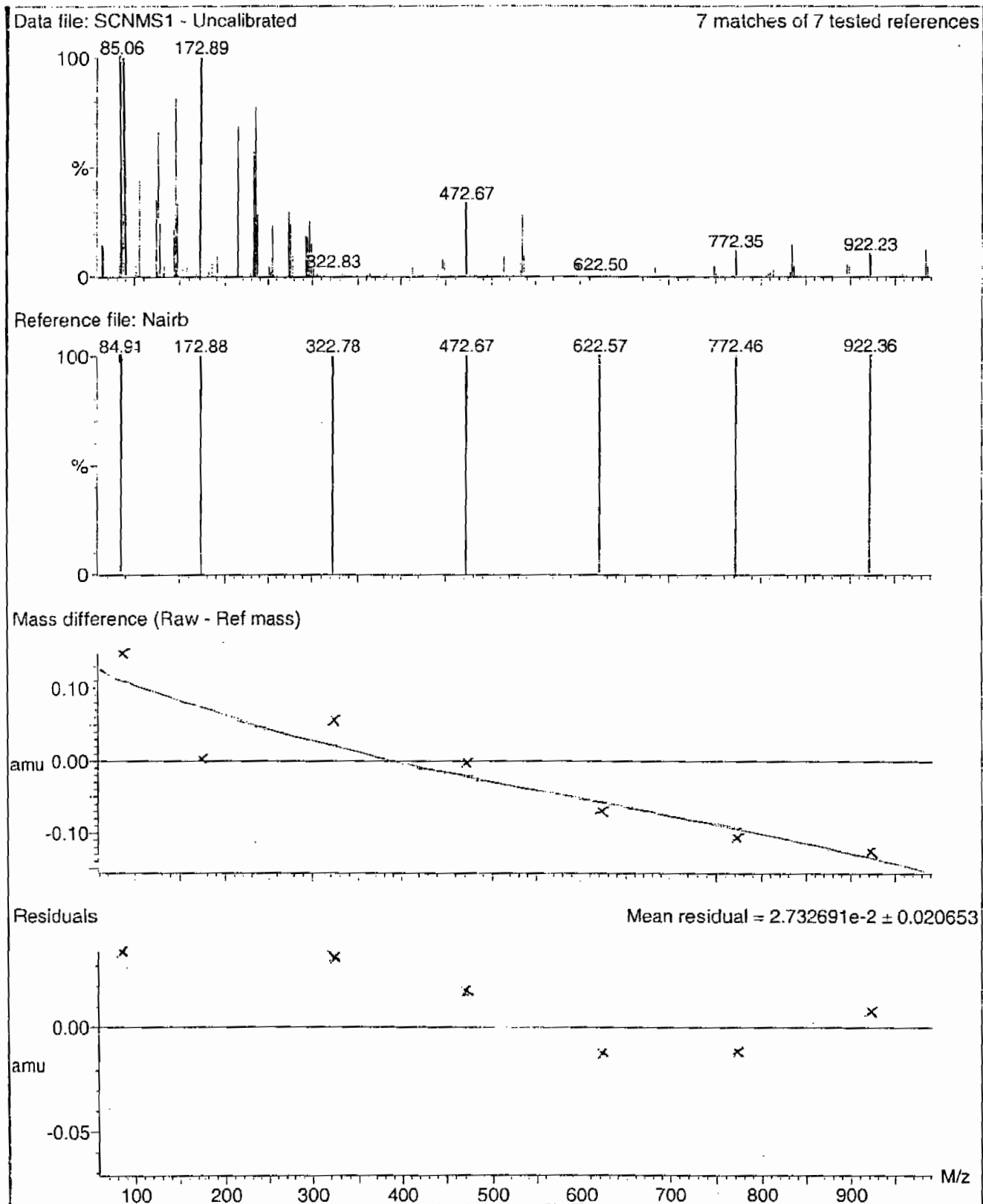
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

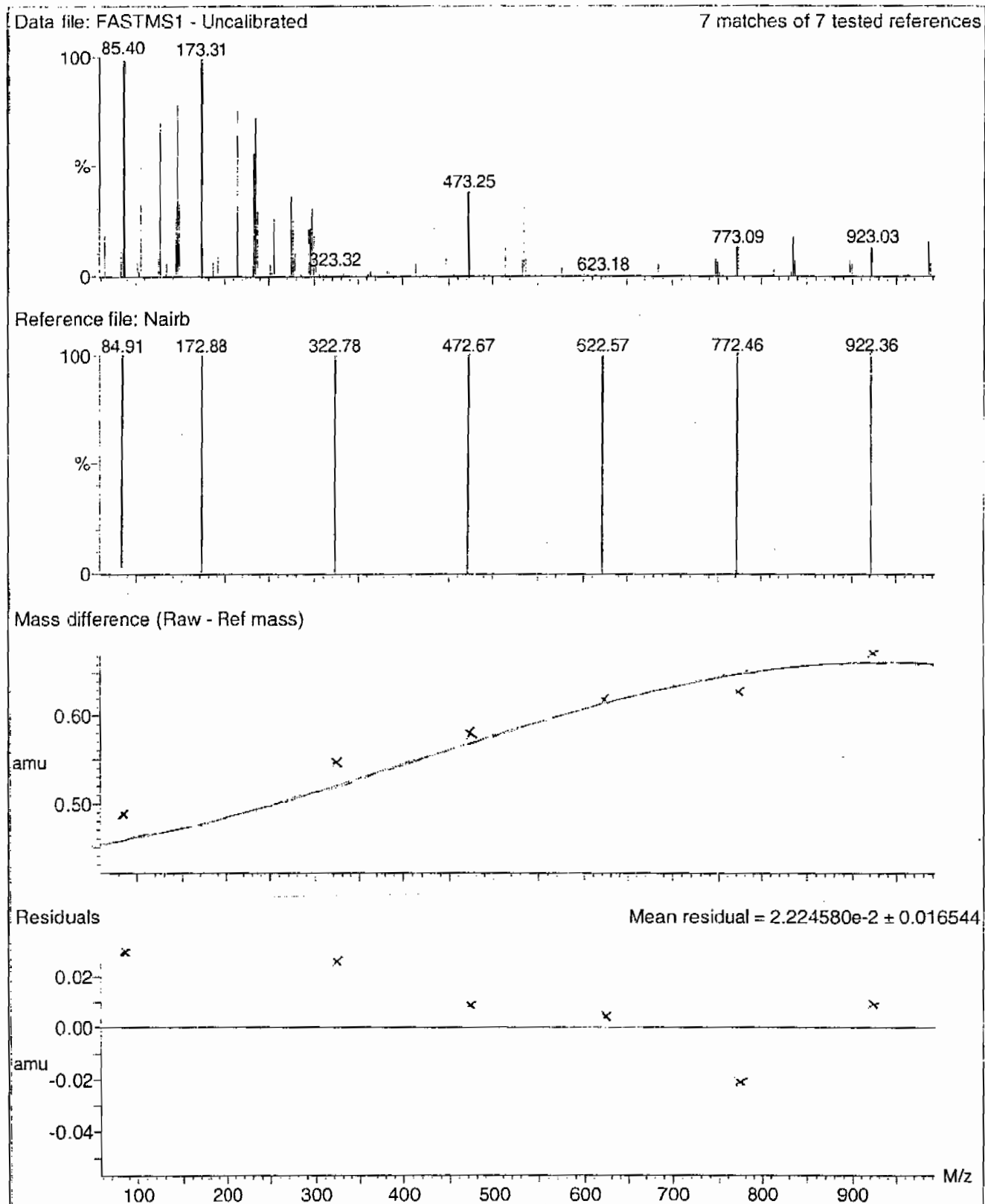
Printed: Tue Jan 08 12:20:09 2008



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:21:04 2008



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

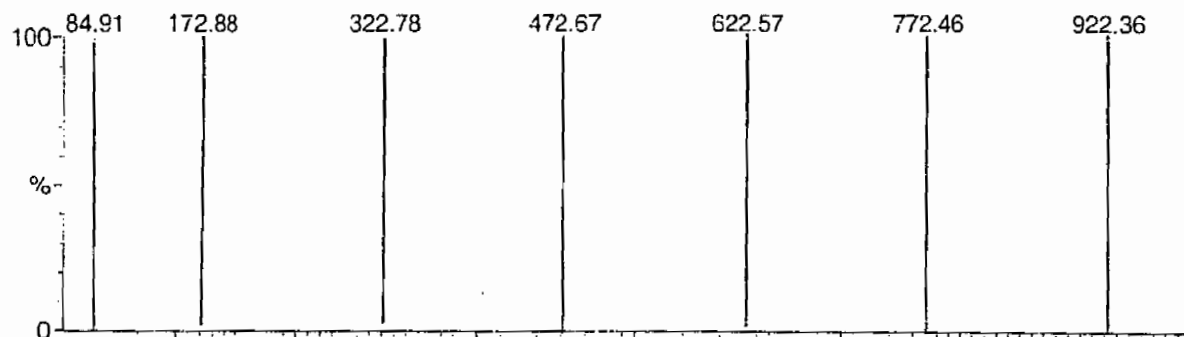
Printed: Tue Jan 08 12:23:51 2008

Data file: FASTMS2 - Uncalibrated

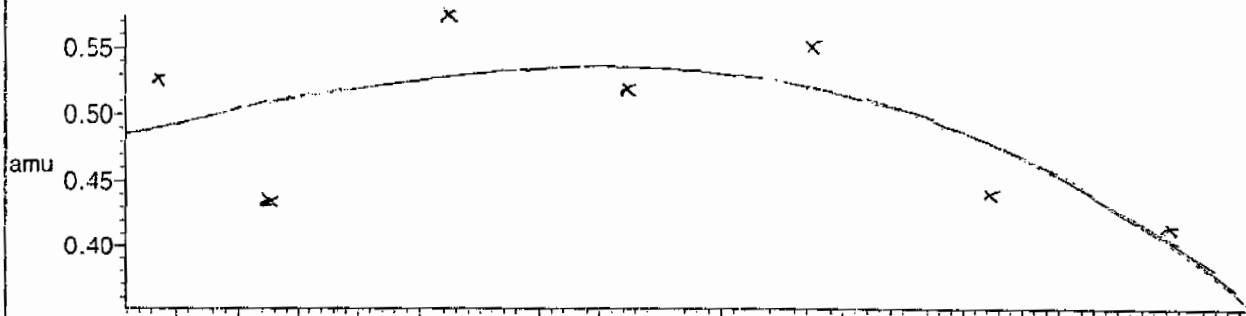
7 matches of 7 tested references



Reference file: Nairb

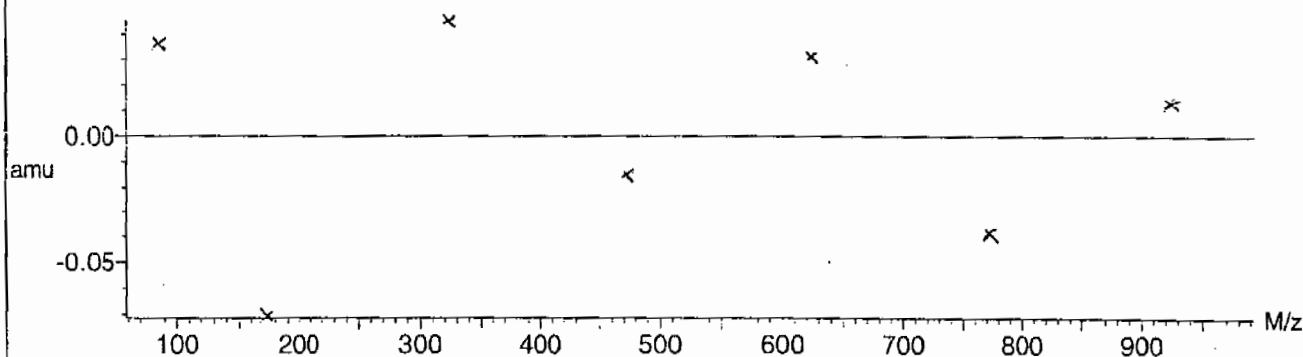


Mass difference (Raw - Ref mass)



Residuals

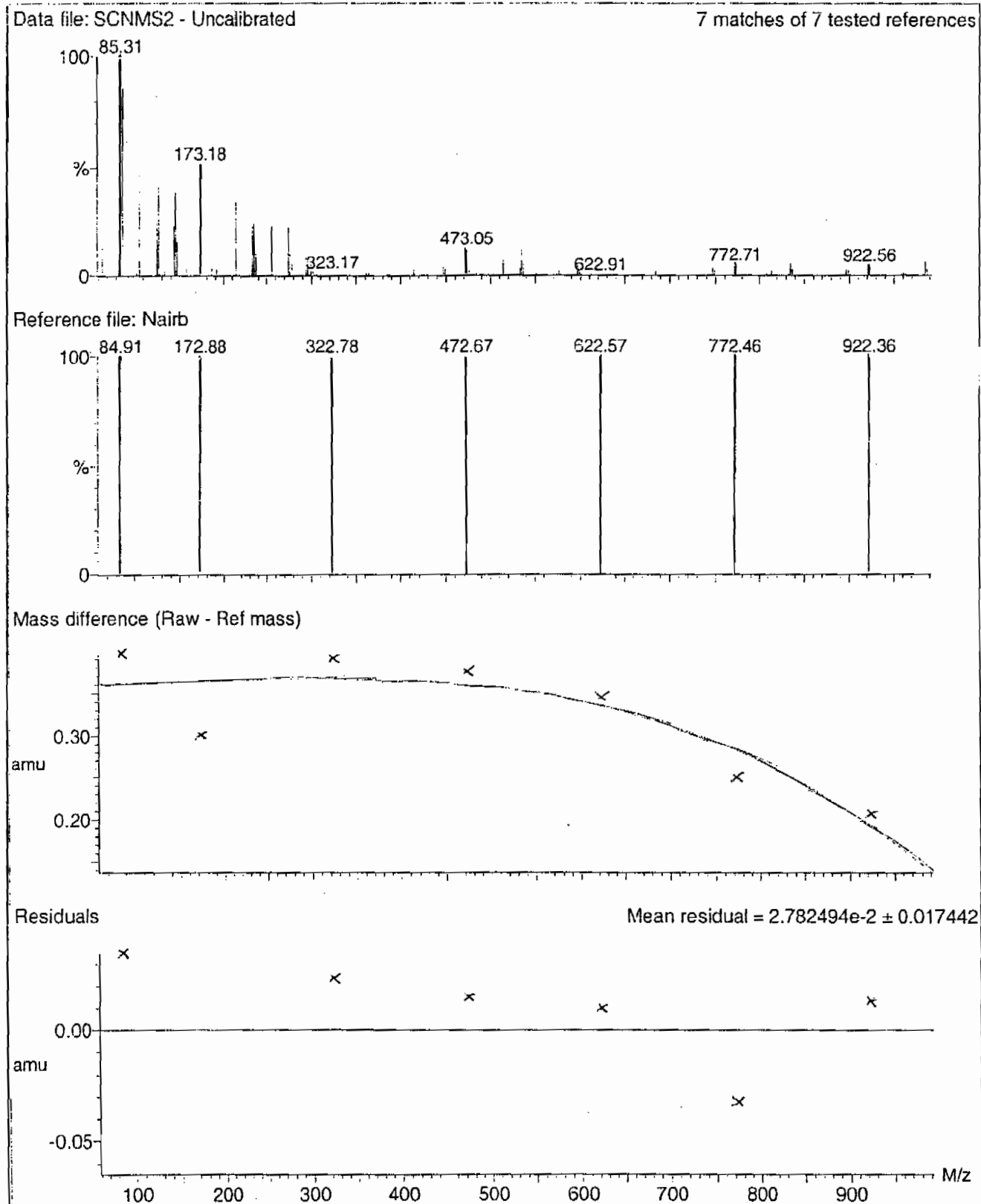
Mean residual = $3.598289 \times 10^{-2} \pm 0.017899$



Calibration Report - MS2 Scanning

Page 1 of 1

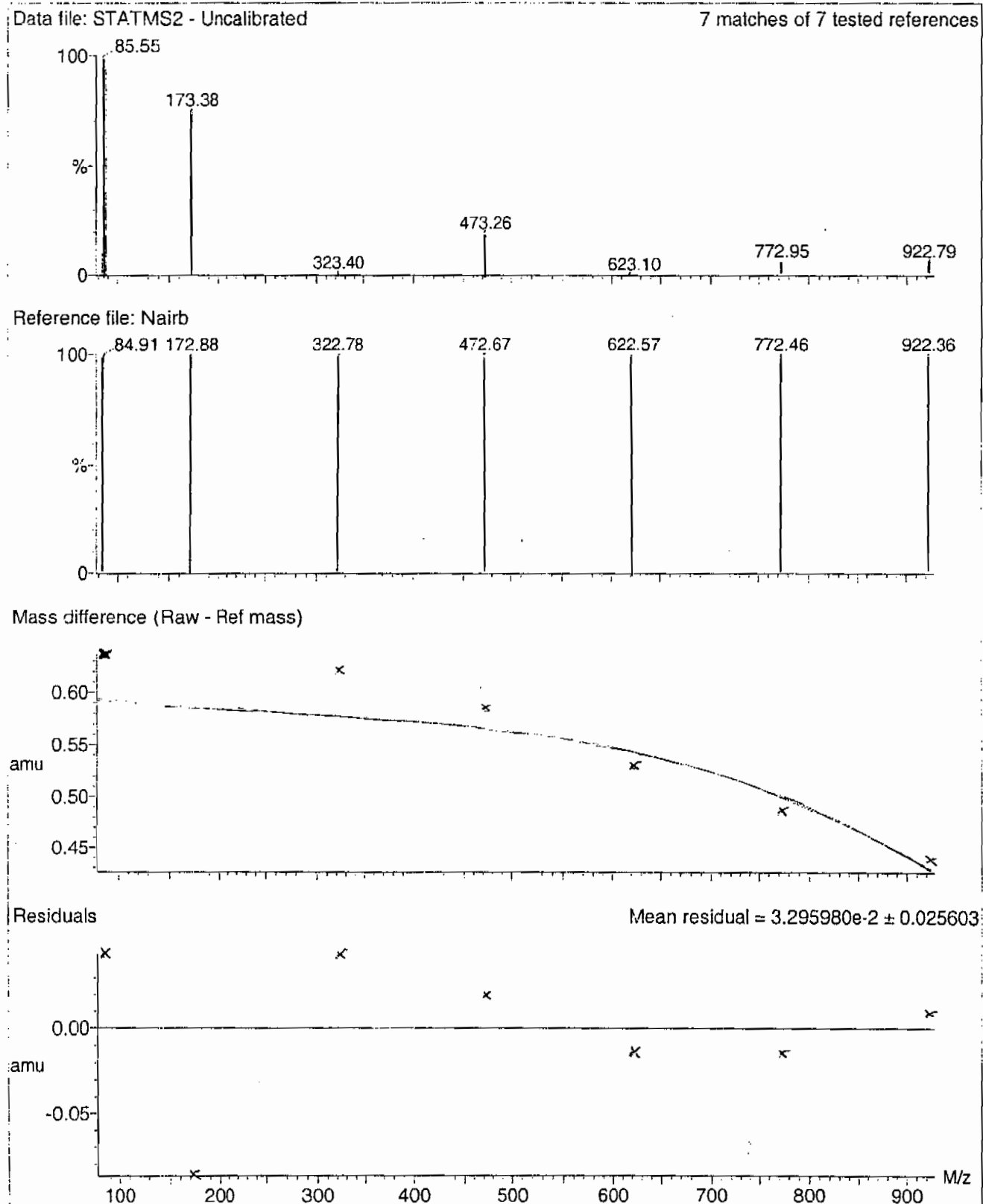
Printed: Tue Jan 08 12:22:56 2008



Calibration Report - MS2 Static

Page 1 of 1

Printed: Tue Jan 08 12:21:59 2008



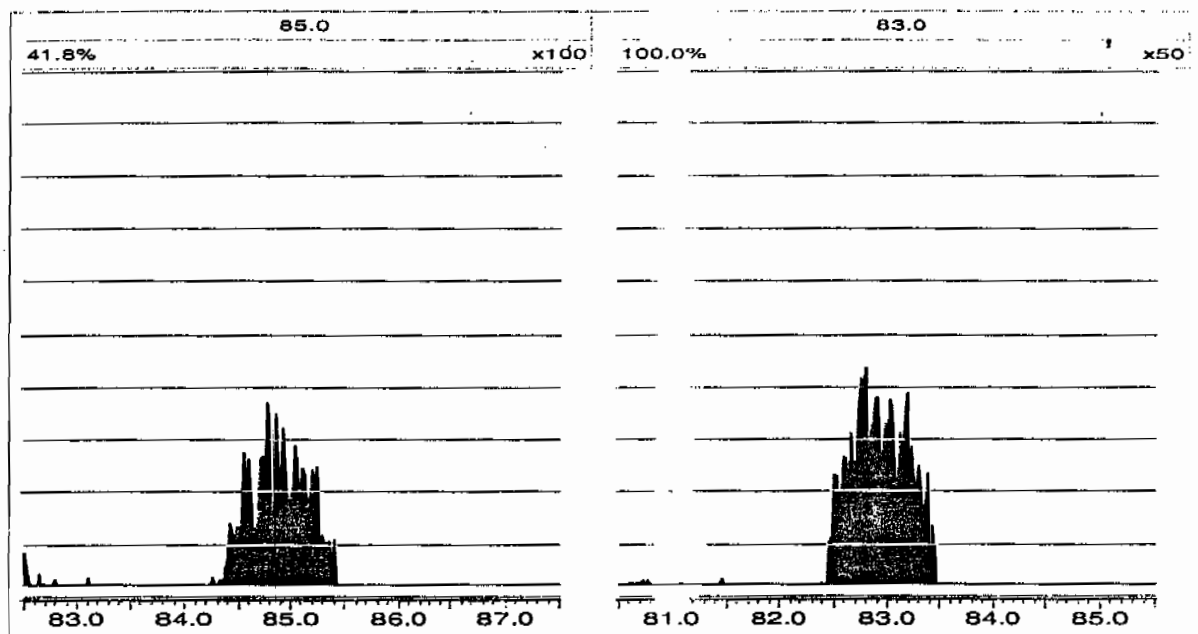
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Wednesday, January 27, 2010 16:13:13 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1325

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	per0127006a	27-JAN-10	18703.3				
Lower Area Limit			9351.65				
Upper Area Limit			37406.6				
1202024385	per0127038a	28-JAN-10 00:04	16956.9	3.05	3.06052	1.003	
1202024386	per0127039a	28-JAN-10 00:12	18291.2	3.05	3.0605	1.003	
1202024389	per0127040a	28-JAN-10 00:20	18046.5	2.99	3.01082	1.007	
245112001	per0127052a	28-JAN-10 01:57	18281.1	3.04	3.06057	1.007	

SAMPLE DATA

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 245221
 Extraction Type: Filter/DAI
 Client Sample No. RE15-10-8442
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325
 GEL Sample ID: 245112001
 Date Filtered: 27-JAN-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	28-JAN-10 01:57	per0127052a
	Perchlorate Isotope Ratio						1	28-JAN-10 01:57	per0127052a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 01:57	per0127052a
	Perchlorate-O(18)			0.488	ug/L		1	28-JAN-10 01:57	per0127052a

[^] 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\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
 Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127052a

Date: 28-Jan-2010

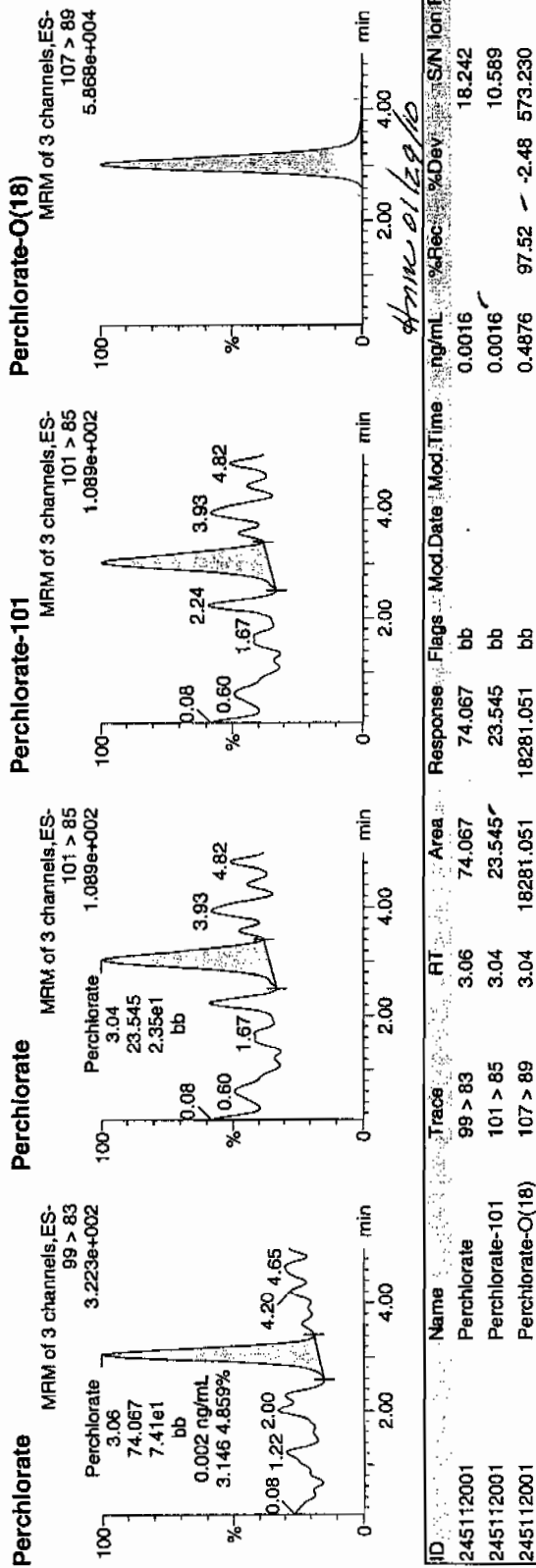
Time: 01:57:32

ID: 245112001

Vial: 2:2,F

and
 01-28-10

LANC 1945223/1722/11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245112001	Perchlorate	99 > 83	3.06	74.067	74.067	bb			0.0016			18.242	3.15
245112001	Perchlorate-101	101 > 85	3.04	23.545	23.545	bb			0.0016			10.589	
245112001	Perchlorate-Q(18)	107 > 89	3.04	18281.051	18281.051	bb			0.4876	97.52	-2.48	573.230	

STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1325

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 27-JAN-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: 44996.9

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1325

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 27-JAN-10

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

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

Parname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 14970.68

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\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time

Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per012710a.mdb 28 Jan 2010 10:22:42

Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per012710a.cdb 28 Jan 2010 12:32:46

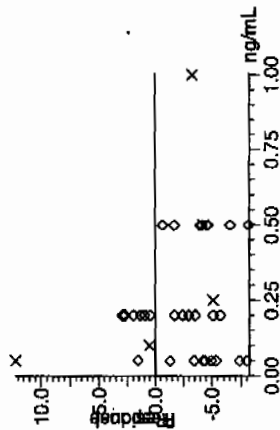
Compound name: Perchlorate

Response Factor: 44996.9

RRF SD: 3216.47, % Relative SD: 7.1482

Response type: External Std, Area

Curve type: RF



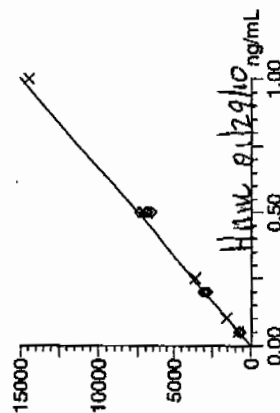
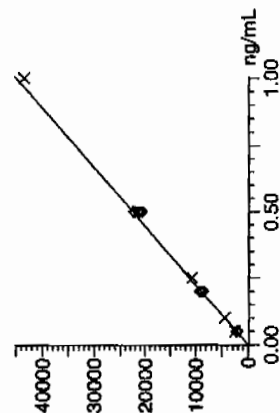
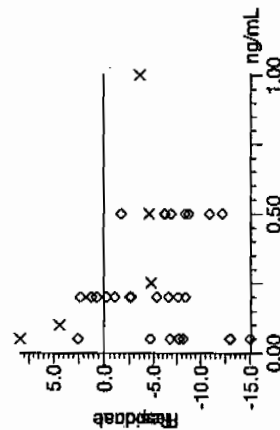
Compound name: Perchlorate-101

Response Factor: 14970.7

RRF SD: 904.041, % Relative SD: 6.03875

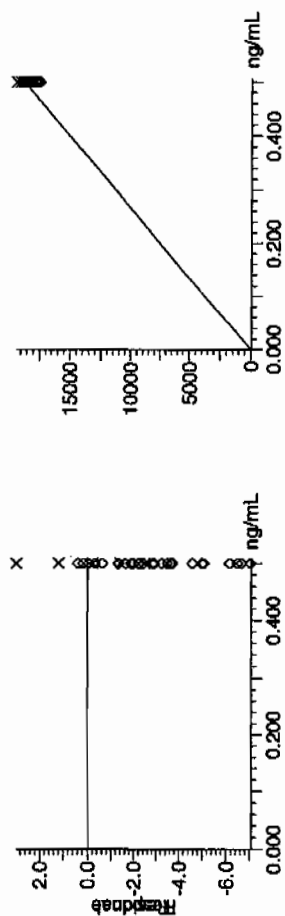
Response type: External Std, Area

Curve type: RF



01-28-10

Compound name: Perchlorate-O⁻(18)
 Response Factor: 37492.1
 RRF SD: 809.25, % Relative SD: 2.15846
 Response type: External Std, Area
 Curve type: RF



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1325

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.5	99.32	27-JAN-10 20:11	per0127009a
Perchlorate Isotope Ratio		3.04		27-JAN-10 20:11	per0127009a
Perchlorate-101	.5	.49	98.31	27-JAN-10 20:11	per0127009a

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time

Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127009a

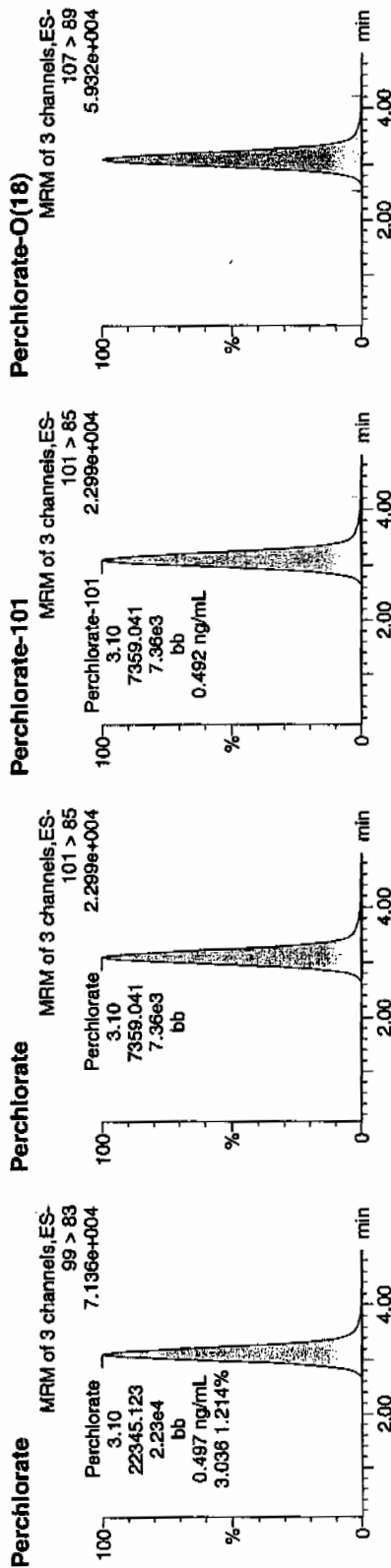
Date: 27-Jan-2010

Time: 20:11:23

ID: WCL100118-06ICV

Vial: 1:2,A

Per
and
01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-06ICV	Perchlorate	99 > 83	3.10	22345.123	22345.123	bb			0.4986	99.32	-0.88	3082.7...	3.04
WCL100118-06ICV	Perchlorate-101	101 > 85	3.10	7359.041	7359.041	bb			0.4916	98.31	-1.69	5894.4...	
WCL100118-06ICV	Perchlorate-O(18)	107 > 89	3.09	18816.395	18816.395	bb			0.5019	100.38	0.38	2751.6...	

Handwritten: 01-28-10

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1325

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.29	27-JAN-10 21:55	per0127022a
Perchlorate Isotope Ratio		3.15		27-JAN-10 21:55	per0127022a
Perchlorate-101	.5	.47	93.85	27-JAN-10 21:55	per0127022a
Perchlorate	.5	.48	96.02	27-JAN-10 23:40	per0127035a
Perchlorate Isotope Ratio		3.08		27-JAN-10 23:40	per0127035a
Perchlorate-101	.5	.47	93.69	27-JAN-10 23:40	per0127035a
Perchlorate	.5	.48	95.8	28-JAN-10 01:24	per0127048a
Perchlorate Isotope Ratio		3.07		28-JAN-10 01:24	per0127048a
Perchlorate-101	.5	.47	93.67	28-JAN-10 01:24	per0127048a
Perchlorate	.5	.48	95.42	28-JAN-10 03:09	per0127061a
Perchlorate Isotope Ratio		3.14		28-JAN-10 03:09	per0127061a
Perchlorate-101	.5	.46	91.21	28-JAN-10 03:09	per0127061a

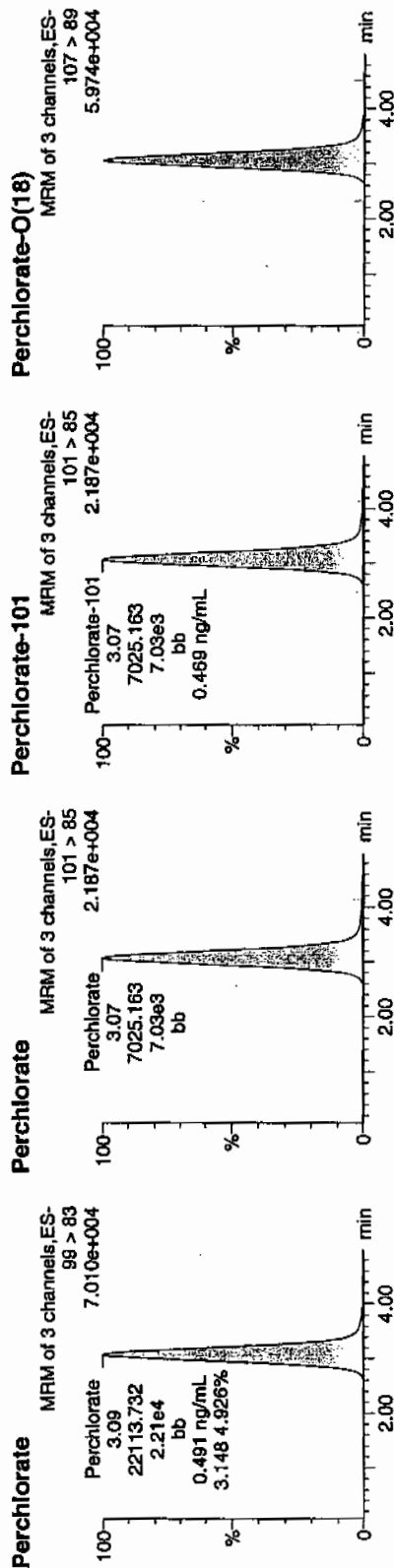
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127022a
Date: 27-Jan-2010
Time: 21:55:50
ID: WCL100118-06CCV
Vial: 1:2,A

Pass
01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.09	22113.732	22113.732	bb			0.4915	98.29	-1.71	1382.8...	3.15
WCL100118-06CCV	Perchlorate-101	101 > 85	3.07	7025.163	7025.163	bb			0.4693	93.85	-6.15	1288.0...	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.06	18686.016	18686.016	bb			0.4984	99.68	-0.32	7209.1...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

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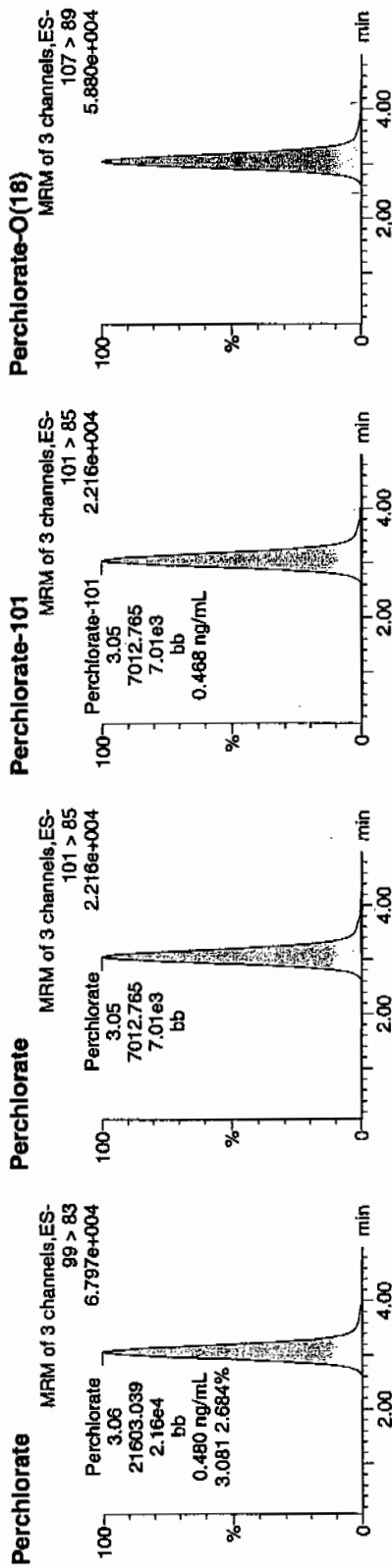
Date: 27-Jan-2010

Time: 23:40:23

ID: WCL100118-06CCV

Vial: 1:2,A

Perchlorate
01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.06	21603.039	21603.039	bb			0.4801	96.02	-3.96	2226.4...	3.08
WCL100118-06CCV	Perchlorate-101	101 > 85	3.05	7012.765	7012.765	bb			0.4684	93.69	-6.31	2428.2...	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.05	18438.480	18438.480	bb			0.4918	98.36	-1.64	9048.2...	

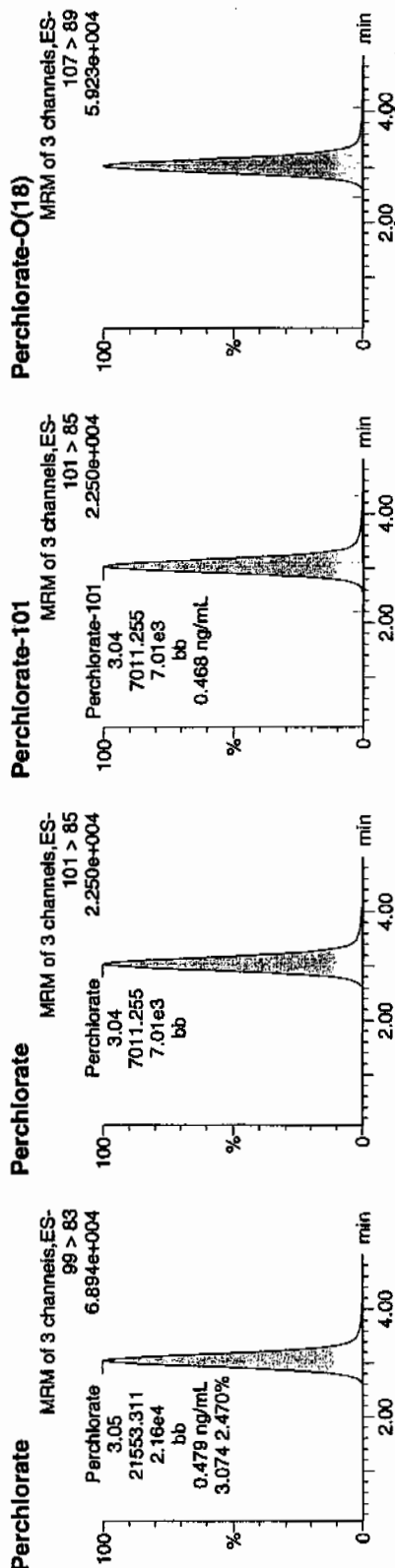
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127048a
Date: 28-Jan-2010
Time: 01:24:56
ID: WCL100118-06CCV
Vial: 1:2,A

Purs
CWS
01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.05	21553.311	21553.311	bb			0.4790	95.80	-4.20	3233.7...	3.07
WCL100118-06CCV	Perchlorate-101	101 > 85	3.04	7011.255	7011.255	bb			0.4683	93.87	-6.33	816.729	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.02	18499.869	18499.869	bb			0.4934	98.69	-1.31	2447.5...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 61 of 108

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time

Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127061a

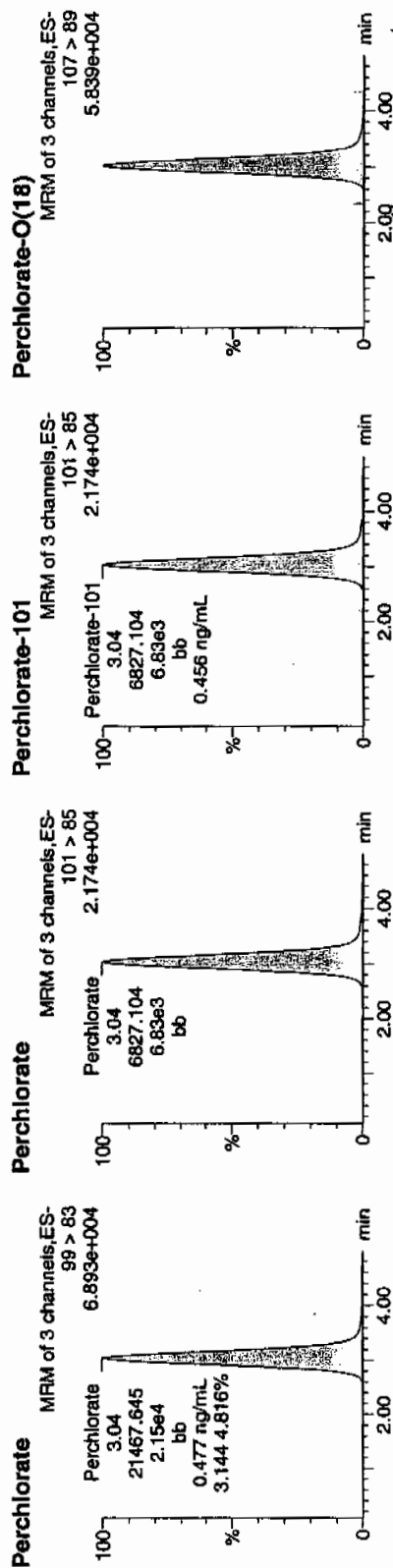
Date: 28-Jan-2010

Time: 03:09:50

ID: WCL100118-06CCV

Vial: 1:2,A

Run
on
01-28-10



ID	Name	Trace	RT	Area	Response	Flags	ModTime	ModDate	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.04	21467.645	21467.645	bb			0.4771	95.42	-4.58	4923.9...	3.14
WCL100118-06CCV	Perchlorate-101	101 > 85	3.04	6827.104	6827.104	bb			0.4560	91.21	-8.79	4434.5...	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.02	18287.520	18287.520	bb			0.4878	97.55	-2.45	2382.9...	

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1325

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	95.72	27-JAN-10 20:27	per0127011a
Perchlorate Isotope Ratio		2.81		27-JAN-10 20:27	per0127011a
Perchlorate-101	.05	.05	102.55	27-JAN-10 20:27	per0127011a
Perchlorate	.05	.05	101.57	27-JAN-10 22:11	per0127024a
Perchlorate Isotope Ratio		3.2		27-JAN-10 22:11	per0127024a
Perchlorate-101	.05	.05	95.39	27-JAN-10 22:11	per0127024a
Perchlorate	.05	.05	96.55	27-JAN-10 23:56	per0127037a
Perchlorate Isotope Ratio		3.11		27-JAN-10 23:56	per0127037a
Perchlorate-101	.05	.05	93.2	27-JAN-10 23:56	per0127037a
Perchlorate	.05	.05	94.64	28-JAN-10 01:41	per0127050a
Perchlorate Isotope Ratio		3.27		28-JAN-10 01:41	per0127050a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1325

Lab Code: GEL

Reporting Units: ug/L

Perchlorate-101	.05	.04	86.96	28-JAN-10 01:41	per0127050a
Perchlorate	.05	.05	92.64	28-JAN-10 03:26	per0127063a
Perchlorate Isotope Ratio		3.02		28-JAN-10 03:26	per0127063a
Perchlorate-101	.05	.05	92.24	28-JAN-10 03:26	per0127063a

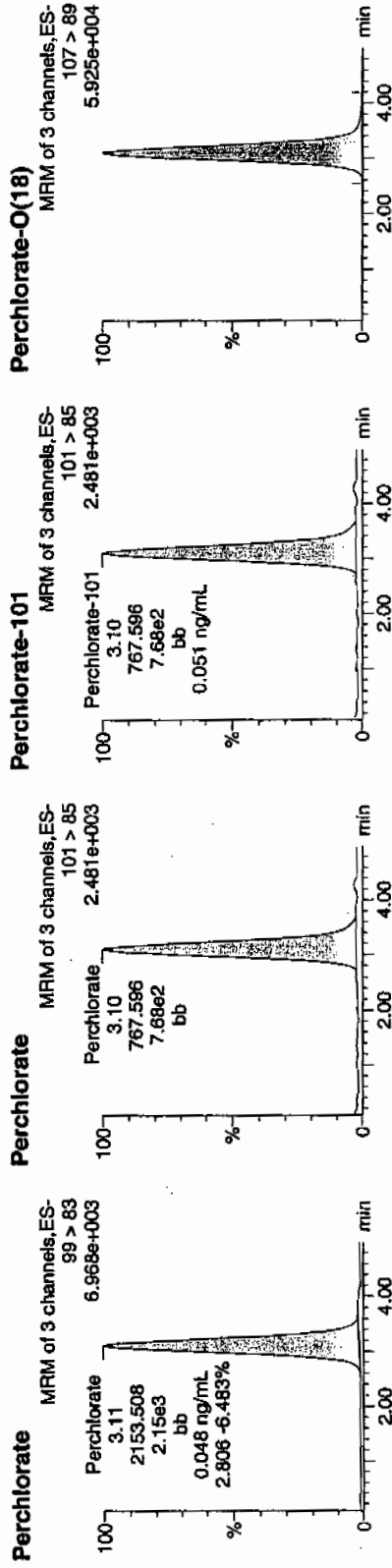
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127011a
Date: 27-Jan-2010
Time: 20:27:27
ID: WCL100118-07CRI
Vial: 1:2,B

Per
WCL
01-28-10



ID	Name	Trace	RT	Area	Response	Flags	ModTime	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.11	2153.508	2153.508	bb		0.0479	85.72	-4.28	654.175	2.81
WCL100118-07CRI	Perchlorate-101	101 > 85	3.10	767.596	767.596	bb		0.0513	102.55	2.55	780.867	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.10	18733.061	18733.061	bb		0.4997	99.93	-0.07	1495.5...	

5.925e+004

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
 Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127024a

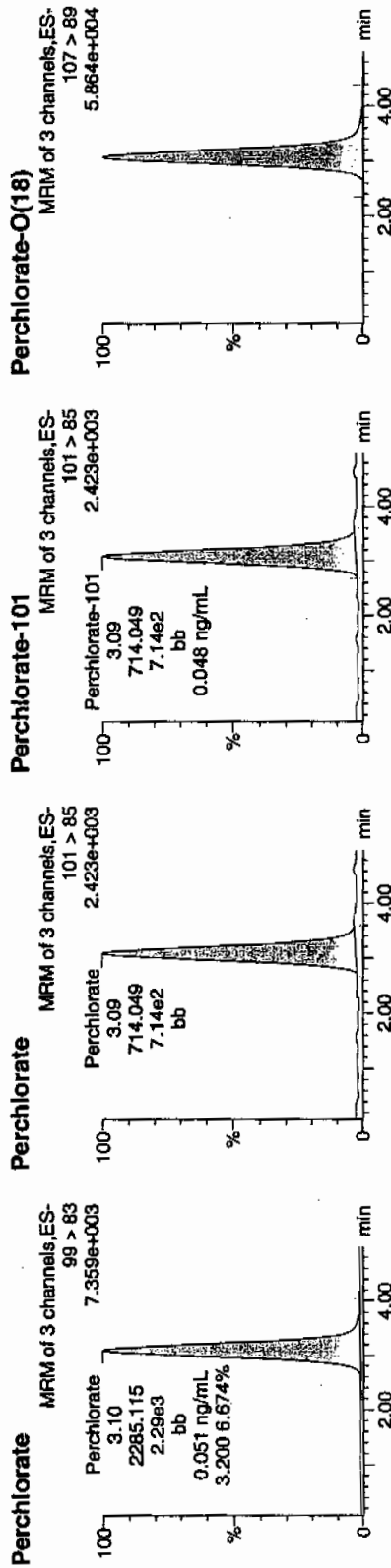
Date: 27-Jan-2010

Time: 22:11:54

ID: WCL100118-07CRI

Vial: 1:2,B

Pass
0-28.10



ID	Name	Trace	RT	Area	Response	Flags	ModTime	ModDate	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.10	2285.115	2285.115	bb			0.0508	101.57	1.57	722.371	3.20
WCL100118-07CRI	Perchlorate-101	101 > 85	3.09	714.049	714.049	bb			0.0477	95.39	4.61	823.829	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.07	18776.434	18776.434	bb			0.5008	100.16	0.16	2962.4...	

Handwritten: 01/29/10

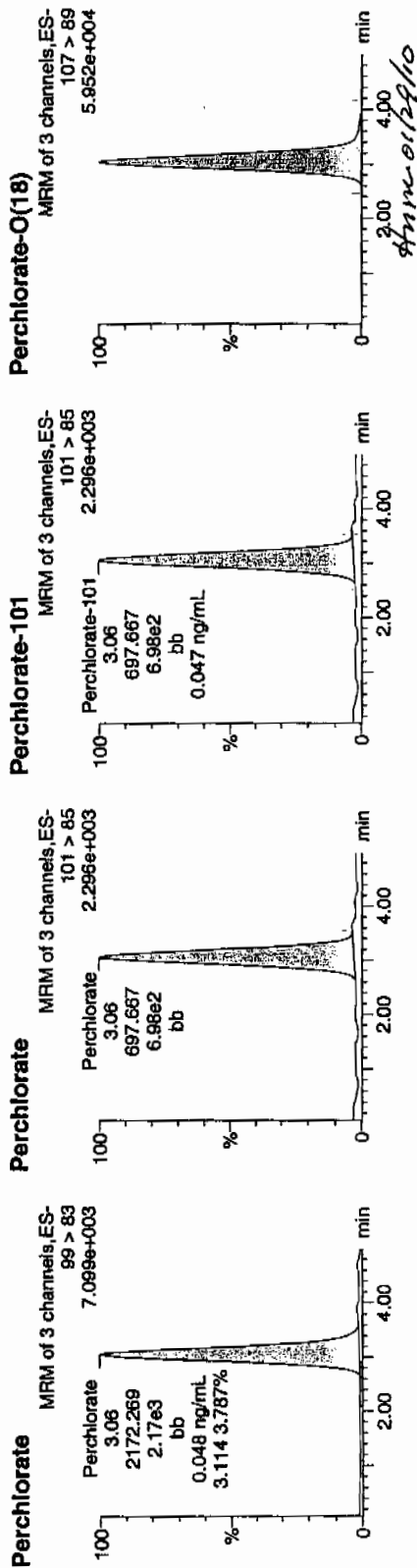
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127037a
Date: 27-Jan-2010
Time: 23:56:28
ID: WCL100118-07CRI
Vial: 1:2.B

Perchlorate
01-28-10



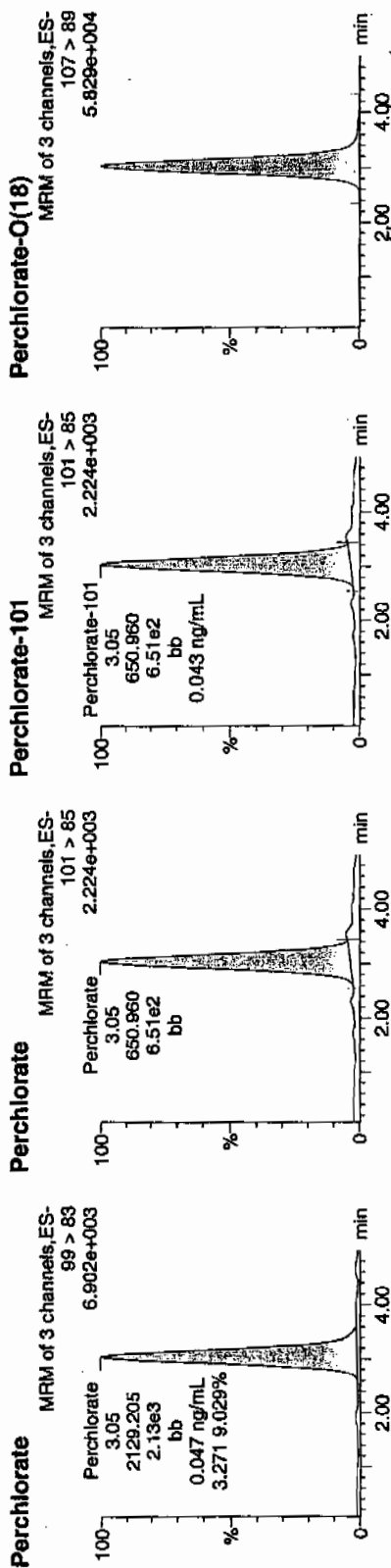
ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.06	2172.269	2172.269	bb			0.0483	96.55	-3.45	390.352	3.11
WCL100118-07CRI	Perchlorate-101	101 > 85	3.06	697.667	697.667	bb			0.0466	93.20	-6.80	456.926	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.05	18625.547	18625.547	bb			0.4968	99.36	-0.64	10317....	

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127050a
Date: 28-Jan-2010
Time: 01:41:14
ID: WCL100118-07CRI
Vial: 1:2,B

Perchlorate
01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	% Rec	% Dev	S/N	Ion Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.05	2129.205	2129.205	bb			0.0473	94.64	-5.36	568.476	3.27
WCL100118-07CRI	Perchlorate-101	101 > 85	3.05	650.960	650.960	bb			0.0435	86.96	-13.04	440.157	
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.02	18086.613	18086.613	bb			0.4824	96.48	-3.52	4446.6...	

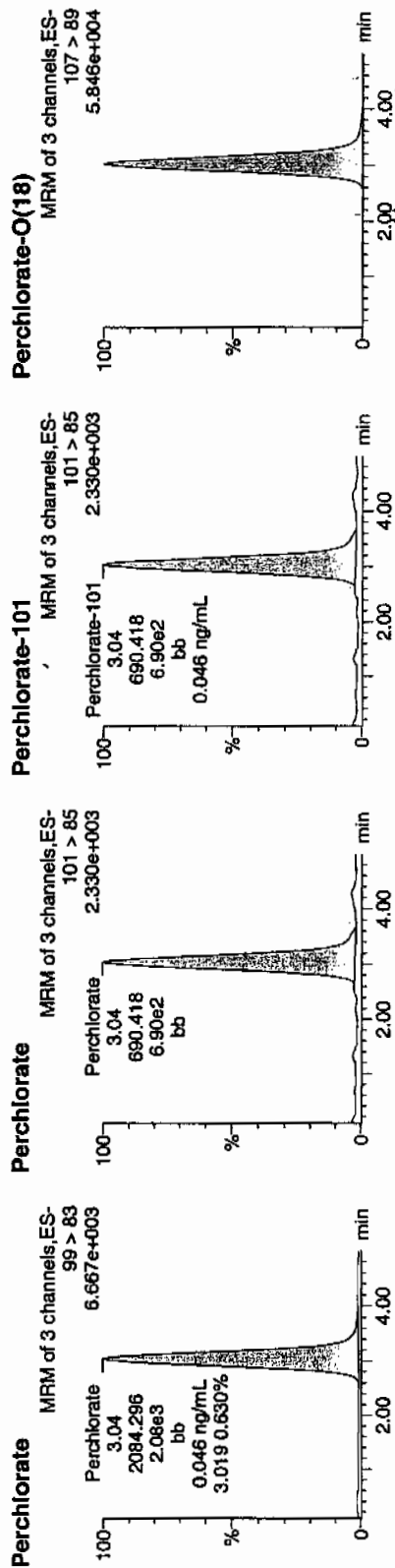
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127063a
Date: 28-Jan-2010
Time: 03:26:09
ID: WCL100118-07CRI
Vial: 1:2,B

Perchlorate
01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	ng/mL	%Rec	%Dev	SN	Ion	Ratio
WCL100118-07CRI	Perchlorate	99 > 83	3.04	2084.296	2084.296	bb					0.0463	92.64	-7.36	188.854		3.02
WCL100118-07CRI	Perchlorate-101	101 > 85	3.04	690.418	690.418	bb					0.0461	92.24	-7.76	384.137		
WCL100118-07CRI	Perchlorate-O(18)	107 > 89	3.02	18325.434	18325.434	bb					0.4888	97.76	-2.24	14888....		

QUALITY CONTROL

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.

MB

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: WATER

Extraction Batch ID: 245221

Extraction Type: Filter/DAI

Date Received: 27-JAN-10

GEL Job No (SDG): 10-1325

GEL Sample ID: 1202024385

Date Filtered: 27-JAN-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	28-JAN-10 00:04	per0127038a
	Perchlorate Isotope Ratio						1	28-JAN-10 00:04	per0127038a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 00:04	per0127038a
	Perchlorate-O(18)			0.452	ug/L		1	28-JAN-10 00:04	per0127038a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

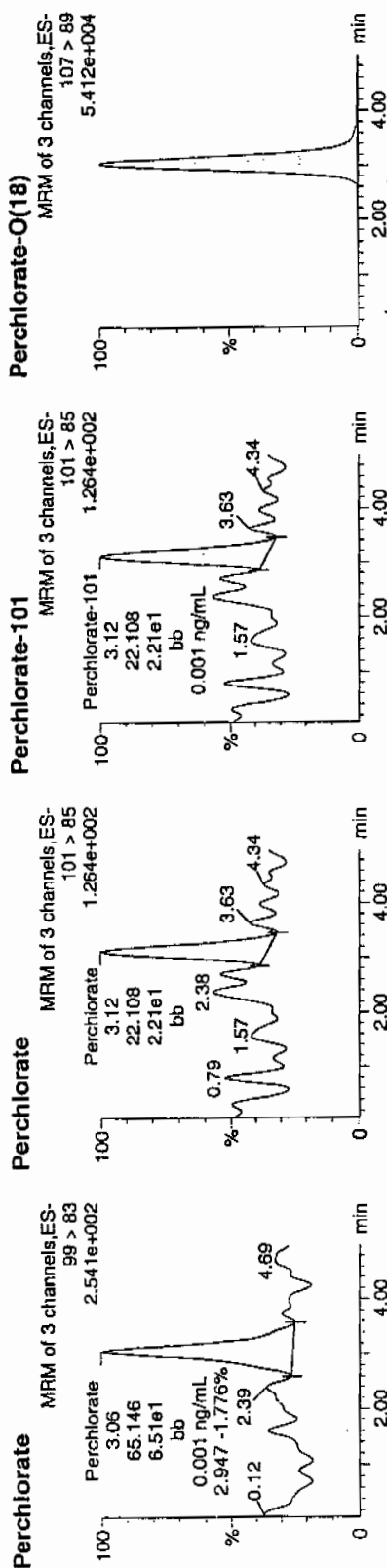
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Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127038a
Date: 28-Jan-2010
Time: 00:04:30
ID: 1202024385
Vial: 2:1,A

0.23-10

1202024385



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024385	Perchlorate	99 > 83	3.06	65.146	65.146	bb			0.0014			51.769	2.95
1202024385	Perchlorate-101	101 > 85	3.12	22.108	22.108	bb			0.0015			7.267	
1202024385	Perchlorate-O(18)	107 > 89	3.05	16956.916	16956.916	bb			0.4523	90.46	-9.54	1759.2...	

Ann 8/12/10

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: 945221

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

LCS

Date Received: 27-JAN-10

GEL Job No (SDG): 10-1325

GEL Sample ID: 1202024386

Date Filtered: 27-JAN-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	0.195	ug/L	J	1	28-JAN-10 00:12	per0127039a
	Perchlorate Isotope Ratio			3.18			1	28-JAN-10 00:12	per0127039a
14797-73-0	Perchlorate-101	.05	.2	0.185	ug/L	J	1	28-JAN-10 00:12	per0127039a
	Perchlorate-O(18)			0.488	ug/L		1	28-JAN-10 00:12	per0127039a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

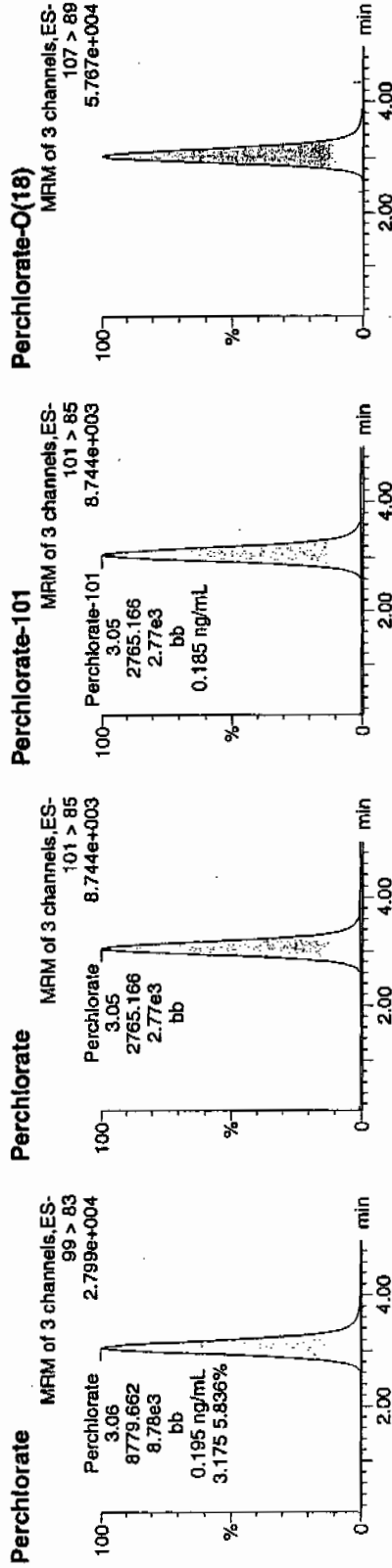
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Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127039a
Date: 28-Jan-2010
Time: 00:12:43
ID: 1202024386
Vial: 2:1,B

01-28-10

127039a | 945223 | 127039a | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024386	Perchlorate	99 > 83	3.06	8779.662	8779.662	bb			0.1951	97.56	-2.44	1725.0...	3.18
1202024386	Perchlorate-101	101 > 85	3.05	2765.166	2765.166	bb			0.1847	92.35	-7.65	1471.0...	
1202024386	Perchlorate-O(18)	107 > 89	3.05	18291.191	18291.191	bb			0.4879	97.57	-2.43	2754.7...	

8779.662
44996.9
= 0.1951
HMC
01/29/10

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: 945221 Verified by: _____
 Analyst: Charles Wilson Lab SOP: GL-OA-E-067 REV# 6
 Method: SW846 6850 Modified Instrument: MicroMass Quatro Ultima

Sample ID	Run Date	Initial Volume (mL)	Final Volume (mL)	Prepped Factor (mL/mL)
1202024385 MB	27-JAN-2010 10:25:18	10	10	1
1202024386 LCS	27-JAN-2010 10:25:18	10	10	1
245089001	27-JAN-2010 10:25:18	10	10	1
245089002	27-JAN-2010 10:25:18	10	10	1
1202024387 MS (245089002)	27-JAN-2010 10:25:18	10	10	1
1202024388 MSD (245089002)	27-JAN-2010 10:25:18	10	10	1
245089003	27-JAN-2010 10:25:18	10	10	1
245089004	27-JAN-2010 10:25:18	10	10	1
245110001	27-JAN-2010 10:25:18	10	10	1
245110002	27-JAN-2010 10:25:18	10	10	1
245112001	27-JAN-2010 10:25:18	10	10	1
245120001	27-JAN-2010 10:25:18	10	10	1
245135001	27-JAN-2010 10:25:18	10	10	1
245135002	27-JAN-2010 10:25:18	10	10	1
245137001	27-JAN-2010 10:25:18	10	10	1
245137002	27-JAN-2010 10:25:18	10	10	1
245137003	27-JAN-2010 10:25:18	10	10	1
245140001	27-JAN-2010 10:25:18	10	10	1
245231002	27-JAN-2010 10:25:18	10	10	1
245237001	27-JAN-2010 10:25:18	10	10	1
245237002	27-JAN-2010 10:25:18	10	10	1
245242001	27-JAN-2010 10:25:18	10	10	1
245242002	27-JAN-2010 10:25:18	10	10	1
1202024389 ICS	27-JAN-2010 10:25:18	10	10	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
ICS	1202024389	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL	Desalting cartridges used: 090413-1-Ba & 091125-1-H
LCS	1202024386	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL	Samples 245237001 and -002 were very foamy when filtering. Will analyze with instrument blanks following.
MS	1202024387	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL	
MSD	1202024388	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL	Sample 245231001 was deleted from the batch due to depleted sample volume.
RGNT	All	500 ppm Carbonate, Bicarbonate, Chloride, Sulfate	1236492	10	mL	
RGNT	All	O2SI HPLC Grade Water	1246195	10	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 01/27/10
Extr. Injection Volume: 20ul
Sequence Number: per012710a
Initial Calibration Date: 01/27/10

Method: EPA 6850-Modified
Int. Std.: UCL100122-01
Mobile Phase Lot#: 1254342, 1246195
Standard-Samp Reagent Lot#: 1233976

Reviewed BY: *hnn*
Date: *2/9/10*
SOP: GL-OA-E-067 Rev.6
Alt Check Std. ID: WCL100118-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0127001a	IPB001	CWW	1/27/2010 19:06			1		USE	B
per0127002a	IPB001	CWW	1/27/2010 19:15			1		USE	B
per0127003a	WCLICAL-01	CWW	1/27/2010 19:23			1		USE	I
per0127004a	WCLICAL-02	CWW	1/27/2010 19:31			1		USE	I
per0127005a	WCLICAL-03	CWW	1/27/2010 19:39			1		USE	I
per0127006a	WCLICAL-04	CWW	1/27/2010 19:47			1		USE	I
per0127007a	WCLICAL-05	CWW	1/27/2010 19:55			1		USE	I
per0127008a	IPB002	CWW	1/27/2010 20:03			1		USE	B
per0127009a	WCLICV	CWW	1/27/2010 20:11			1		USE	C
per0127010a	IPB003	CWW	1/27/2010 20:19			1		USE	B
per0127011a	WCLCRI	CWW	1/27/2010 20:27			1		USE	C
per0127012a	1202023100	CWW	1/27/2010 20:35	944720	VARIOUS	1	LANL	USE	S
per0127013a	1202023101	CWW	1/27/2010 20:43	944720	VARIOUS	1	LANL	USE	S
per0127014a	1202023104	CWW	1/27/2010 20:51	944720	VARIOUS	1	LANL	USE	S
per0127015a	244852001	CWW	1/27/2010 20:59	944720	10-1263	1	LANL	USE	S
per0127016a	1202023102	CWW	1/27/2010 21:07	944720	10-1263	1	LANL	USE	S
per0127017a	1202023103	CWW	1/27/2010 21:15	944720	10-1263	1	LANL	USE	S
per0127018a	244852002	CWW	1/27/2010 21:23	944720	10-1263	1	LANL	USE	S
per0127019a	244852003	CWW	1/27/2010 21:31	944720	10-1263	1	LANL	USE	S
per0127020a	244852004	CWW	1/27/2010 21:39	944720	10-1263	1	LANL	USE	S
per0127021a	244881001	CWW	1/27/2010 21:47	944720	10-1264-1	1	LANL	USE	S
per0127022a	WCLCCV	CWW	1/27/2010 21:55			1		USE	C
per0127023a	IPB004	CWW	1/27/2010 22:03			1		USE	B
per0127024a	WCLCRI	CWW	1/27/2010 22:11			1		USE	C
per0127025a	244881002	CWW	1/27/2010 22:19	944720	10-1264-1	1	LANL	USE	S
per0127026a	244881003	CWW	1/27/2010 22:27	944720	10-1264-1	1	LANL	USE	S
per0127027a	244881004	CWW	1/27/2010 22:35	944720	10-1264-1	1	LANL	USE	S
per0127028a	244888001	CWW	1/27/2010 22:44	944720	10-1278	1	LANL	USE	S
per0127029a	244888002	CWW	1/27/2010 22:52	944720	10-1278	1	LANL	USE	S

per0127030a	244888003	CWW	1/27/2010 23:00	944720	10-1278	1	LANL	USE	S
per0127031a	244888004	CWW	1/27/2010 23:08	944720	10-1278	1	LANL	USE	S
per0127032a	244888005	CWW	1/27/2010 23:16	944720	10-1278	1	LANL	USE	S
per0127033a	244888006	CWW	1/27/2010 23:24	944720	10-1278	1	LANL	USE	S
per0127034a	244902001	CWW	1/27/2010 23:32	944720	10-1274	1	LANL	USE	S
per0127035a	WCLCCV	CWW	1/27/2010 23:40			1		USE	C
per0127036a	IPB005	CWW	1/27/2010 23:48			1		USE	B
per0127037a	WCLCRI	CWW	1/27/2010 23:56			1		USE	C
per0127038a	1202024385	CWW	1/28/2010 0:04	945223	VARIOUS	1	LANL	USE	S
per0127039a	1202024386	CWW	1/28/2010 0:12	945223	VARIOUS	1	LANL	USE	S
per0127040a	1202024389	CWW	1/28/2010 0:20	945223	VARIOUS	1	LANL	USE	S
per0127041a	245089001	CWW	1/28/2010 0:28	945223	10-1293	1	LANL	USE	S
per0127042a	245089002	CWW	1/28/2010 0:36	945223	10-1293	1	LANL	USE	S
per0127043a	1202024387	CWW	1/28/2010 0:44	945223	10-1293	1	LANL	USE	S
per0127044a	1202024388	CWW	1/28/2010 0:52	945223	10-1293	1	LANL	USE	S
per0127045a	245089003	CWW	1/28/2010 1:00	945223	10-1293	1	LANL	USE	S
per0127046a	245089004	CWW	1/28/2010 1:08	945223	10-1293	1	LANL	USE	S
per0127047a	245110001	CWW	1/28/2010 1:16	945223	10-1295	1	LANL	USE	S
per0127048a	WCLCCV	CWW	1/28/2010 1:24			1		USE	C
per0127049a	IPB006	CWW	1/28/2010 1:33			1		USE	B
per0127050a	WCLCRI	CWW	1/28/2010 1:41			1		USE	C
per0127051a	245110002	CWW	1/28/2010 1:49	945223	10-1295	1	LANL	USE	S
per0127052a	245112001	CWW	1/28/2010 1:57	945223	10-1325	1	LANL	USE	S
per0127053a	245120001	CWW	1/28/2010 2:05	945223	10-1328-1	1	LANL	USE	S
per0127054a	245135001	CWW	1/28/2010 2:13	945223	10-1300-1	1	LANL	USE	S
per0127055a	245135002	CWW	1/28/2010 2:21	945223	10-1300-1	1	LANL	USE	S
per0127056a	245137001	CWW	1/28/2010 2:29	945223	10-1303-1	1	LANL	USE	S
per0127057a	245137002	CWW	1/28/2010 2:37	945223	10-1303-1	1	LANL	USE	S
per0127058a	245137003	CWW	1/28/2010 2:45	945223	10-1303-1	1	LANL	USE	S
per0127059a	245140001	CWW	1/28/2010 2:53	945223	10-1335	1	LANL	USE	S
per0127060a	245231002	CWW	1/28/2010 3:01	945223	10-1344	1	LANL	USE	S
per0127061a	WCLCCV	CWW	1/28/2010 3:09			1		USE	C
per0127062a	IPB007	CWW	1/28/2010 3:18			1		USE	B
per0127063a	WCLCRI	CWW	1/28/2010 3:26			1		USE	C
per0127064a	245237001	CWW	1/28/2010 3:34	945223	10-1346	1	LANL	DUSE-DL	S
per0127065a	IPB008	CWW	1/28/2010 3:42			1		USE	B
per0127066a	245237002	CWW	1/28/2010 3:50	945223	10-1346	1	LANL	DUSE-DL	S

per0127067a	IPB009	CWW	1/28/2010 3:58				1			USE
per0127068a	245242001	CWW	1/28/2010 4:07				1	LANL		USE
per0127069a	245242002	CWW	1/28/2010 4:15				1	LANL		USE
per0127070a	WCLCCV	CWW	1/28/2010 4:23				1			USE
per0127071a	IPB010	CWW	1/28/2010 4:31				1			USE
per0127072a	WCLCRI	CWW	1/28/2010 4:39				1			USE
per0127073a	1202023081	CWW	1/28/2010 4:47				1	LANL		USE
per0127074a	1202023082	CWW	1/28/2010 4:55				1	LANL		USE
per0127075a	1202023085	CWW	1/28/2010 5:04				1	LANL		USE
per0127076a	244899001	CWW	1/28/2010 5:12				1	LANL		USE
per0127077a	1202023083	CWW	1/28/2010 5:20				1	LANL		USE
per0127078a	1202023084	CWW	1/28/2010 5:28				1	LANL		USE
per0127079a	244899002	CWW	1/28/2010 5:36				1	LANL		USE
per0127080a	244899003	CWW	1/28/2010 5:44				1	LANL		USE
per0127081a	244899004	CWW	1/28/2010 5:52				1	LANL		USE
per0127082a	244899005	CWW	1/28/2010 6:00				1	LANL		USE
per0127083a	WCLCCV	CWW	1/28/2010 6:08				1			USE
per0127084a	IPB011	CWW	1/28/2010 6:16				1			USE
per0127085a	WCLCRI	CWW	1/28/2010 6:24				1			USE
per0127086a	244899006	CWW	1/28/2010 6:32				1	LANL		USE
per0127087a	244899007	CWW	1/28/2010 6:40				1	LANL		USE
per0127088a	244899008	CWW	1/28/2010 6:48				1	LANL		USE
per0127089a	244899009	CWW	1/28/2010 6:56				1	LANL		USE
per0127090a	244899010	CWW	1/28/2010 7:04				1	LANL		USE
per0127091a	244899011	CWW	1/28/2010 7:12				1	LANL		USE
per0127092a	244899012	CWW	1/28/2010 7:20				1	LANL		USE
per0127093a	244899013	CWW	1/28/2010 7:28				1	LANL		USE
per0127094a	244899014	CWW	1/28/2010 7:36				1	LANL		USE
per0127095a	244899015	CWW	1/28/2010 7:45				1	LANL		USE
per0127096a	WCLCCV	CWW	1/28/2010 7:53				1			USE
per0127097a	IPB012	CWW	1/28/2010 8:01				1			USE
per0127098a	WCLCRI	CWW	1/28/2010 8:09				1			USE
per0127099a	244899016	CWW	1/28/2010 8:17				1	LANL		USE
per0127100a	244899017	CWW	1/28/2010 8:25				1	LANL		USE
per0127101a	244899018	CWW	1/28/2010 8:33				1	LANL		USE
per0127102a	244899019	CWW	1/28/2010 8:41				1	LANL		USE
per0127103a	244899020	CWW	1/28/2010 8:49				1	LANL		USE

per0127104a	IPB013	CWW	1/28/2010 8:58	Screen	Inhouse	1	GEL	USE	B
per0127105a	1260110 Supp	CWW	1/28/2010 9:06			1		DUSE	B
per0127106a	WCLCCV	CWW	1/28/2010 9:14			1		USE	C
per0127107a	IPB014	CWW	1/28/2010 9:22			1		USE	B
per0127108a	WCLCRI	CWW	1/28/2010 9:30			1		USE	C

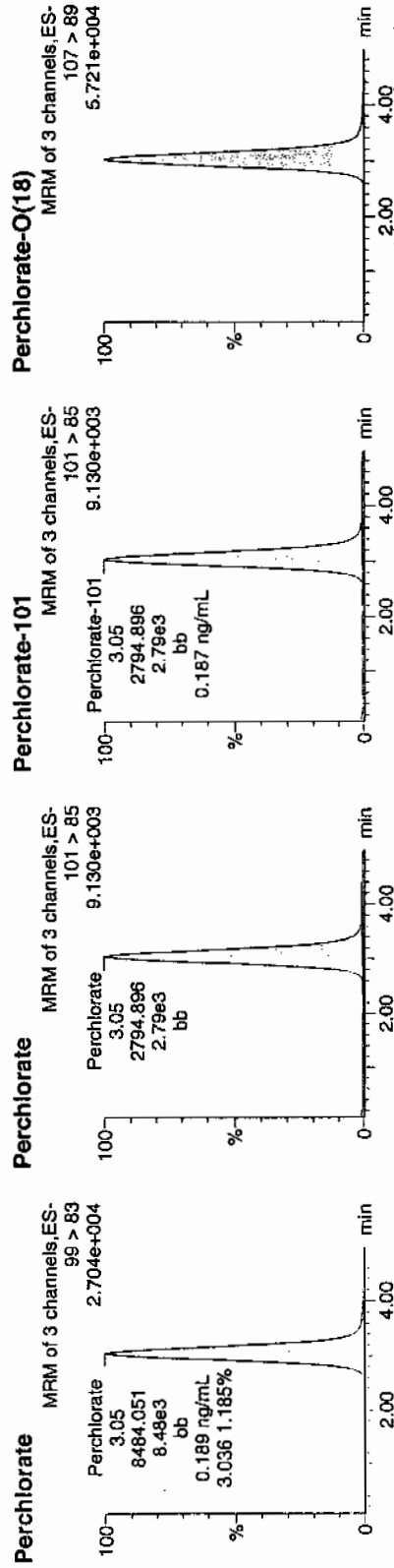
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127043a
Date: 28-Jan-2010
Time: 00:44:48
ID: 1202024387
Vial: 2:1,F

LOW 1945223 | 1202 | MS | 11 | 01-28-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024387	Perchlorate	99 > 83	3.05	8484.051	8484.051	bb			0.1885	94.27	-5.73	441.075	3.04
1202024387	Perchlorate-101	101 > 85	3.05	2794.896	2794.896	bb			0.1867	93.35	-6.65	1163.5...	
1202024387	Perchlorate-O(18)	107 > 89	3.04	17809.832	17809.832	bb			0.4750	95.01	-4.99	10570...	

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

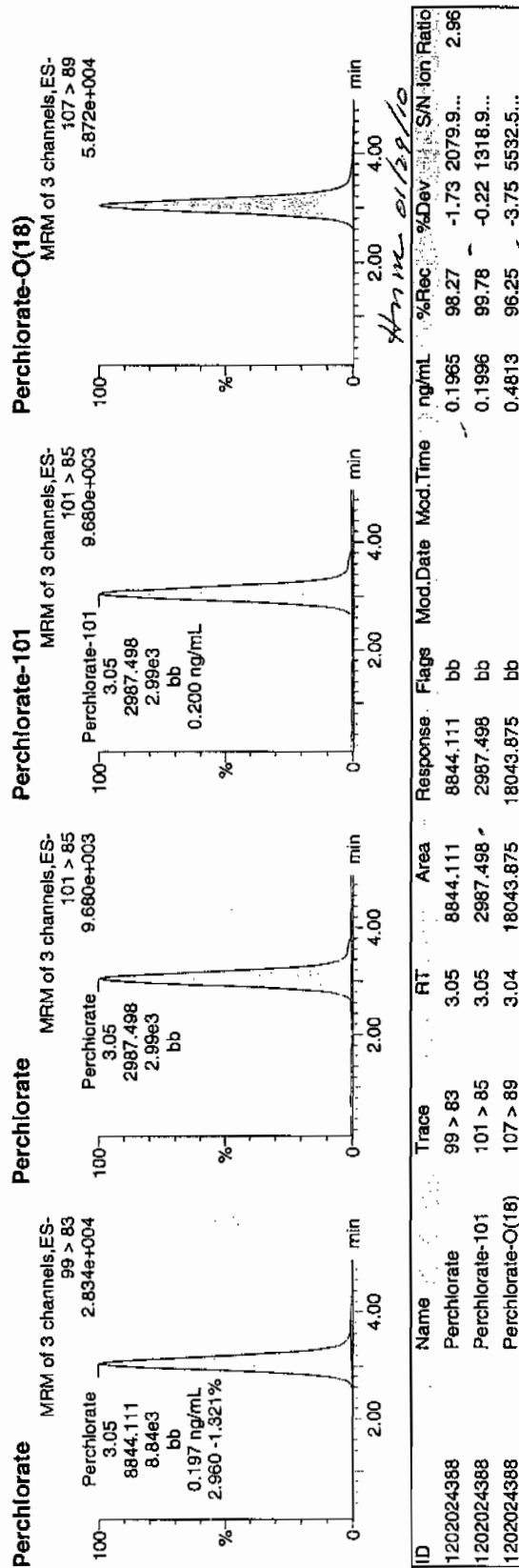
Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127044a
Date: 28-Jan-2010
Time: 00:52:48
ID: 1202024388
Vial: 2:2,A

1202024388 | 1202024388 | 1202024388

01-28-10



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 10-1325-1**

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: 945206

Prep Batch Number: 945204

Sample Analysis

Sample ID	Client ID
245113001	RE15-10-8410
245113002	RE15-10-8411
245113003	RE15-10-8412
245113004	RE15-10-8441
245113005	RE15-10-8413
245113006	RE15-10-8425
245113007	RE15-10-8422
245113008	RE15-10-8417
245113009	RE15-10-8423
245113010	RE15-10-8416
245113011	RE15-10-8418
245113012	RE15-10-8424
245113013	RE15-10-8421
245113014	RE15-10-8420
1202024358	Interference Check Sample (ICS)

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1202024354	Method Blank (MB)
1202024355	Laboratory Control Sample (LCS)
1202024356	245113002(RE15-10-8411) Matrix Spike (MS)
1202024357	245113002(RE15-10-8411) 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.

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QC Sample Designation

Sample 245113002 (RE15-10-8411) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recovered Perchlorate-101 at 129%. The acceptance range is 75-125%. The high recovery in may be the result of the background concentration present in the parent sample, 245113002 (RE15-10-8411), and/or matrix effect. Please see data exception report 786124.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovered Perchlorate-101 at 128%. The acceptance range is 75-125%. The high recovery in may be the result of the background concentration present in the parent sample, 245113002 (RE15-10-8411), and/or matrix effect. Please see data exception report 786124.

MS/MSD Relative Percent Difference (RPD) Statement

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

Retention Time Standard Area Acceptance

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

Retention Time

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

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

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Miscellaneous Information

Data Exception (DER) Documentation

Data exception report 786124 was generated for this SDG.

The MS recovered Perchlorate-101 at 129%. The MSD recovered Perchlorate-101 at 128%. The acceptance range is 75-125%. The high recovery in may be the result of the background concentration present in the parent sample, 245113002 (RE15-10-8411), and/or matrix effect.

Manual Integrations

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

Method Comments

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

Additional Comments

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

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

Perchlorate Isotope Ratio

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

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

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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: Nicholas M. Mace Date: 02/05/10

SAMPLE DATA SUMMARY

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846/6850 Modified

Matrix: SOIL

Extraction Batch ID: 245204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8410

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113001

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.666	2.66	0.666	ug/kg	U	1	01-FEB-10 17:00	per0201019a
	Perchlorate Isotope Ratio						1	01-FEB-10 17:00	per0201019a
14797-73-0	Perchlorate-101	.666	2.66	0.666	ug/kg	U	1	01-FEB-10 17:00	per0201019a
	Perchlorate-O(18)			6.50	ug/kg		1	01-FEB-10 17:00	per0201019a

[^] 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: 245204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8411

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113002

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.591	2.36	0.591	ug/kg	U	1	01-FEB-10 17:30	per0201023a
	Perchlorate Isotope Ratio						1	01-FEB-10 17:30	per0201023a
14797-73-0	Perchlorate-101	.591	2.36	0.591	ug/kg	U	1	01-FEB-10 17:30	per0201023a
	Perchlorate-O(18)			6.57	ug/kg		1	01-FEB-10 17:30	per0201023a

[^] 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

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: 245204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8412

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113003

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 22.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.541	2.16	0.541	ug/kg	U	1	01-FEB-10 17:53	per0201026a
	Perchlorate Isotope Ratio						1	01-FEB-10 17:53	per0201026a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	01-FEB-10 17:53	per0201026a
	Perchlorate-O(18)			5.27	ug/kg		1	01-FEB-10 17:53	per0201026a

[^] 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: 245204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8441
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113004
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 90.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 18:00	per0201027a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:00	per0201027a
14797-73-0	Perchlorate-101	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 18:00	per0201027a
	Perchlorate-O(18)			5.38	ug/kg		1	01-FEB-10 18:00	per0201027a

[^] 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 Client Sample No. RE15-10-8413

Lab Code: GEL Date Received: 20-JAN-10

Instrument: LCMSMS GEL Job No (SDG): 10-1325-1

Method: SW846 6850 Modified GEL Sample ID: 245113005

Matrix: SOIL Date Filtered: 30-JAN-10

Extraction Batch ID: 245204 Injection Volume (uL): 20

Extraction Type: Solid Prep %Solids: 89

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	.559	2.24	0.559	ug/kg	U	1	01-FEB-10 18:08	per0201028a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:08	per0201028a
14797-73-0	Perchlorate-101	.559	2.24	0.559	ug/kg	U	1	01-FEB-10 18:08	per0201028a
	Perchlorate-O(18)			5.69	ug/kg		1	01-FEB-10 18:08	per0201028a

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

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

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: 245204
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8425
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113006
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 %Solids: 90

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.558	2.23	0.558	ug/kg	U	1	01-FEB-10 18:16	per0201029a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:16	per0201029a
14797-73-0	Perchlorate-101	.558	2.23	0.558	ug/kg	U	1	01-FEB-10 18:16	per0201029a
	Perchlorate-O(18)			5.73	ug/kg		1	01-FEB-10 18:16	per0201029a

[^] 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: 245204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8422
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113007
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 % Solids: 89

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.561	2.25	0.561	ug/kg	U	1	01-FEB-10 18:23	per0201030a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:23	per0201030a
14797-73-0	Perchlorate-101	.561	2.25	0.561	ug/kg	U	1	01-FEB-10 18:23	per0201030a
	Perchlorate-O(18)			5.99	ug/kg		1	01-FEB-10 18:23	per0201030a

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

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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC Client Sample No. RE15-10-8417

Lab Code: GEL Date Received: 23-JAN-10

Instrument: LCMSMS GEL Job No (SDG): 10-1325-1

Method: SW846 6850 Modified GEL Sample ID: 245113008

Matrix: SOIL Date Filtered: 30-JAN-10

Extraction Batch ID: 945204 Injection Volume (uL): 20

Extraction Type: Solid Prep %Solids: 94.7

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	.528	2.11	0.528	ug/kg	U	1	01-FEB-10 18:31	per0201031a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:31	per0201031a
14797-73-0	Perchlorate-101	.528	2.11	0.528	ug/kg	U	1	01-FEB-10 18:31	per0201031a
	Perchlorate-O(18)			5.06	ug/kg		1	01-FEB-10 18:31	per0201031a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 245204
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8423
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113009
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 90.6

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	.552	2.21	0.762	ug/kg	J	1	01-FEB-10 18:38	per0201032a
	Perchlorate Isotope Ratio			2.8			1	01-FEB-10 18:38	per0201032a
14797-73-0	Perchlorate-101	.552	2.21	0.826	ug/kg	J	1	01-FEB-10 18:38	per0201032a
	Perchlorate-O(18)			5.79	ug/kg		1	01-FEB-10 18:38	per0201032a

[^] 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: 245204
Extraction Type: Solid Prep
Client Sample No. RE15-10-8416
Date Received: 20-JAN-10
GEL Job No (SDG): 10-1325-1
GEL Sample ID: 245113010
Date Filtered: 30-JAN-10
Injection Volume (uL): 20
%Solids: 90.4

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 19:08	per0201036a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:08	per0201036a
14797-73-0	Perchlorate-101	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 19:08	per0201036a
	Perchlorate-O(18)			5.29	ug/kg		1	01-FEB-10 19:08	per0201036a

[^] 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 =

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

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: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8418

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113011

Date Filtered: 30-JAN-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	.564	2.25	0.564	ug/kg	U	1	01-FEB-10 19:16	per0201037a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:16	per0201037a
14797-73-0	Perchlorate-101	.564	2.25	0.564	ug/kg	U	1	01-FEB-10 19:16	per0201037a
	Perchlorate-O(18)			5.38	ug/kg		1	01-FEB-10 19:16	per0201037a

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

*Concentration =

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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 945204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8424
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113012
 Date Filtered: 30-JAN-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	.556	2.22	0.556	ug/kg	U	1	01-FEB-10 19:24	per0201038a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:24	per0201038a
14797-73-0	Perchlorate-101	.556	2.22	0.556	ug/kg	U	1	01-FEB-10 19:24	per0201038a
	Perchlorate-O(18)			5.17	ug/kg		1	01-FEB-10 19:24	per0201038a

[^] 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: 245204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8421
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113013
 Date Filtered: 30-JAN-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	0.571	ug/kg	U	1	01-FEB-10 19:31	per0201039a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:31	per0201039a
14797-73-0	Perchlorate-101	.571	2.28	0.571	ug/kg	U	1	01-FEB-10 19:31	per0201039a
	Perchlorate-O(18)			5.45	ug/kg		1	01-FEB-10 19:31	per0201039a

[^] 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: 945204

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8420

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113014

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 70

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	.716	2.86	0.716	ug/kg	U	1	01-FEB-10 19:39	per0201040a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:39	per0201040a
14797-73-0	Perchlorate-101	.716	2.86	0.716	ug/kg	U	1	01-FEB-10 19:39	per0201040a
	Perchlorate-O(18)			6.77	ug/kg		1	01-FEB-10 19:39	per0201040a

[^] 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): 10-1325-1

Extract Batch Code: 945204

Date Filtered: 30-JAN-10

Matrix: SOIL

Sample ID: 1202024355

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.97	ug/kg	98.7		70 - 130
Perchlorate Isotope Ratio		2.75				-
Perchlorate-101	2.00	2.18	ug/kg	109		70 - 130
Perchlorate-O(18)		4.69	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): 10-1325-1

Extract Batch Code: 945204

Date Filtered: 30-JAN-10

Matrix: SOIL

Sample ID: 1202024358

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.04	ug/kg	102		70 - 130
Perchlorate Isotope Ratio		3				
Perchlorate-101	2.00	2.07	ug/kg	104		70 - 130
Perchlorate-O(18)		4.78	ug/kg			

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

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

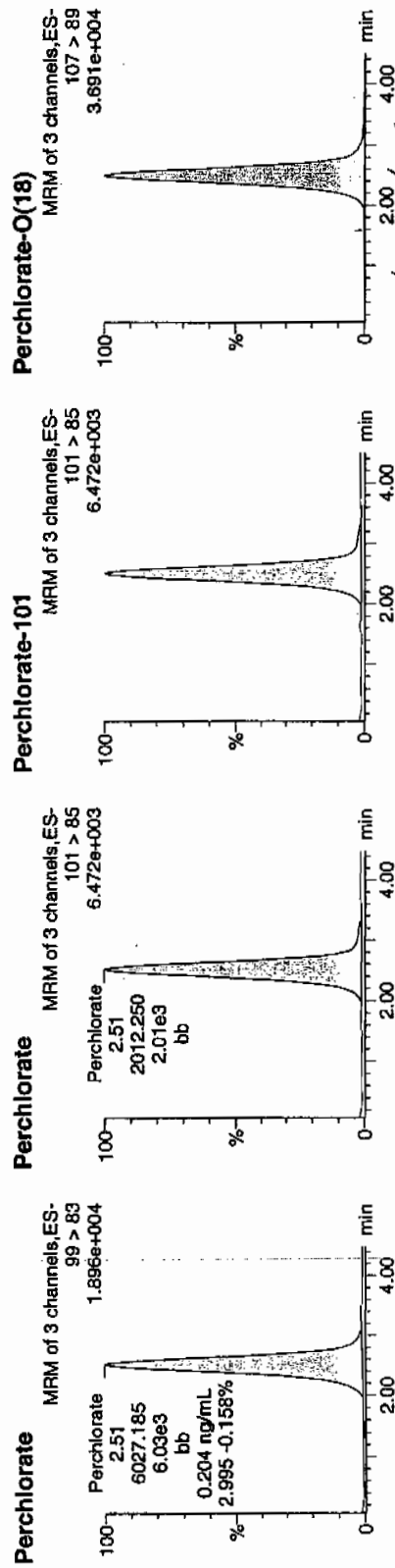
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201018a
Date: 01-Feb-2010
Time: 16:53:04
ID: 1202024358
Vial: 1:4,C

02-02-10

1945206 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024358	Perchlorate	99 > 83	2.51	6027.185	6027.185	bb			0.2042	102.12	2.12	1074.8...	3.00
1202024358	Perchlorate-101	101 > 85	2.51	2012.250	2012.250	bb			0.2071	103.57	3.57	354.726	
1202024358	Perchlorate-O(18)	107 > 89	2.50	11920.803	11920.803	bb			0.4777	95.53	-4.47	477.342	

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

Extract Batch Code: 945204

GEL MS/PS ID: 1202024356

GEL MSD/PSD ID: 1202024357

GEL Job No (SDG): 10-1325-1

Date Extracted: 30-JAN-10

Client ID: RE15-10-8411

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.36	0.485	ug/kg	3.28	118		3.4	123		3.72		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		2.86			2.98			0			-
Perchlorate-101	2.36	0.435	ug/kg	3.48	129	*	3.46	128	*	.395		30	75 - 125
Perchlorate-O(18)	0	6.57	ug/kg	6.71			6.93			3.18			-

[^] 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): 10-1325-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	01-FEB-10	per0201001a	IPB001
Perchlorate-101	0.00	0	NA	01-FEB-10	per0201001a	IPB001
Perchlorate	0.00	0	NA	01-FEB-10	per0201002a	IPB001
Perchlorate-101	0.00	0	NA	01-FEB-10	per0201002a	IPB001

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

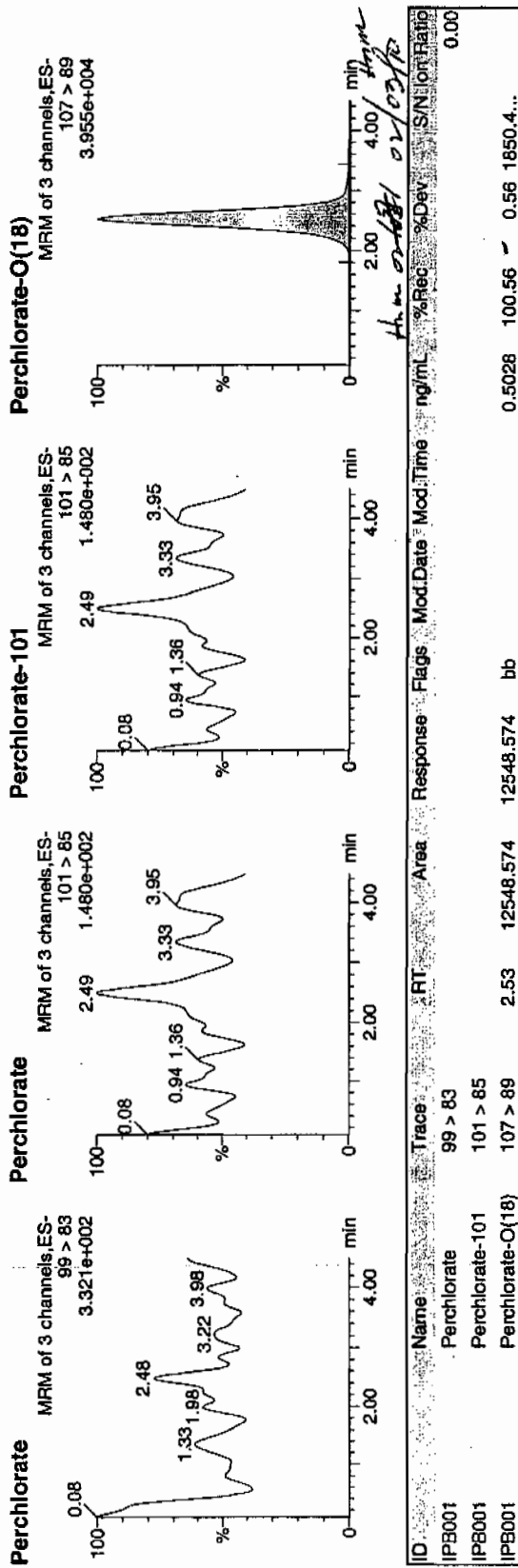
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per020110a.mdb 02 Feb 2010 07:54:05
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per020110a.cdb 02 Feb 2010 14:28:23

Name: per0201001a
Date: 01-Feb-2010
Time: 14:44:45
ID: IPB001
Vial: 1:1,A

02-02-10



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

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201002a

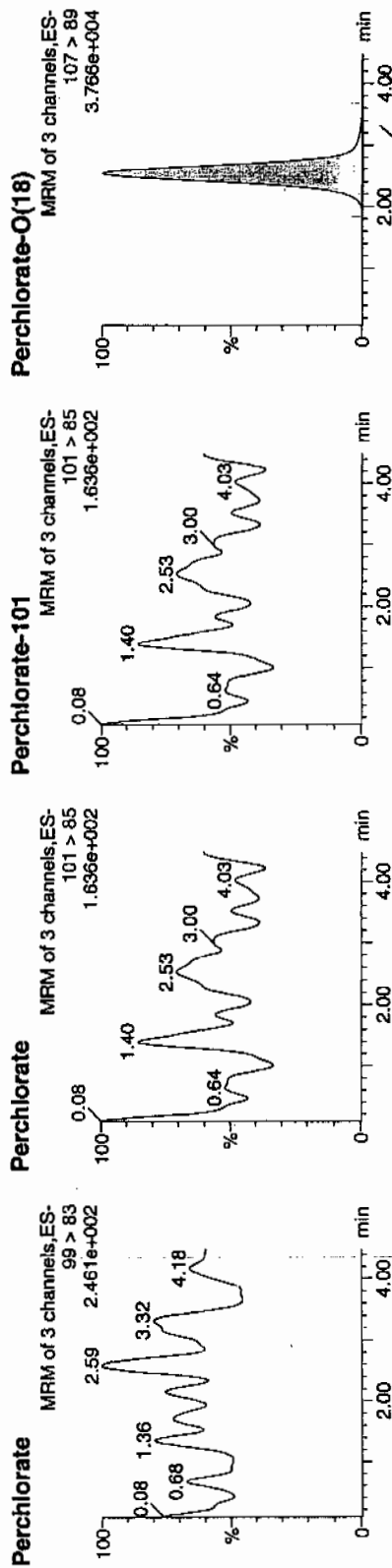
Date: 01-Feb-2010

Time: 14:52:28

ID: IPB001

Vial: 1:1,A

OL-01-10



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	2.54	12279.958	12279.958	bb			0.4920	98.41	-1.59	1440.2	
IPB001	Perchlorate-O(18)	107 > 89											

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-1325-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	01-FEB-10	per0201008a	IPB002
Perchlorate-101	0.00	0	NA	01-FEB-10	per0201008a	IPB002
Perchlorate	0.00	0	NA	01-FEB-10	per0201010a	IPB003
Perchlorate-101	0.00	0	NA	01-FEB-10	per0201010a	IPB003
Perchlorate	0.00	0	NA	01-FEB-10	per0201015a	IPB004
Perchlorate-101	0.00	0	NA	01-FEB-10	per0201015a	IPB004
Perchlorate	0.00	0	NA	01-FEB-10	per0201021a	IPB005
Perchlorate-101	0.00	0	NA	01-FEB-10	per0201021a	IPB005
Perchlorate	0.00	0	NA	01-FEB-10	per0201034a	IPB006
Perchlorate-101	0.00	0	NA	01-FEB-10	per0201034a	IPB006
Perchlorate	0.00	0	NA	01-FEB-10	per0201047a	IPB007
Perchlorate-101	0.00	0	NA	01-FEB-10	per0201047a	IPB007

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

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201008a

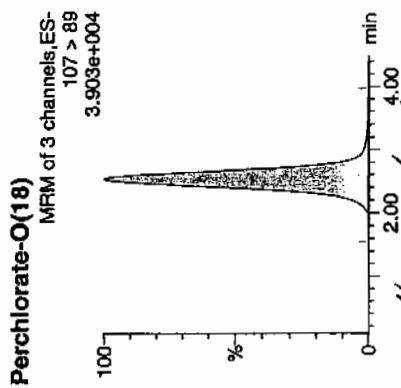
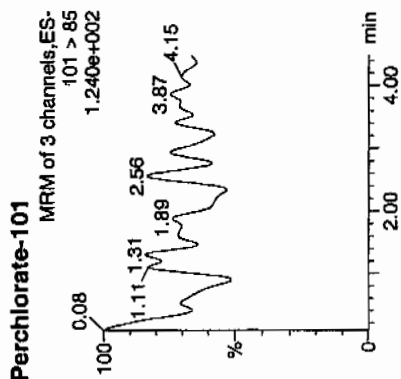
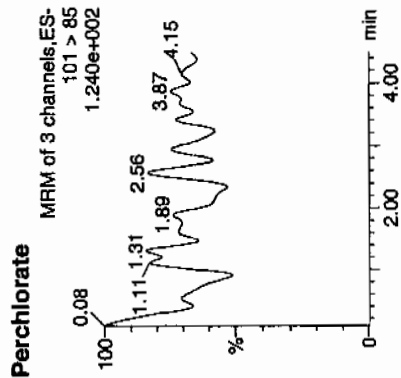
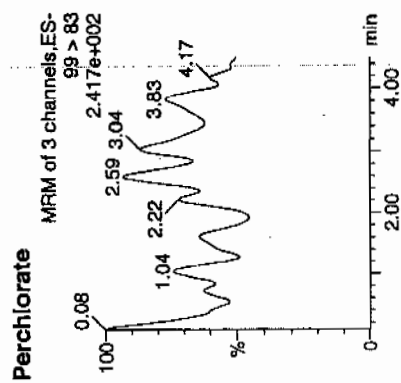
Date: 01-Feb-2010

Time: 15:37:36

ID: IPB002

Vial: 1:1,A

02-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	IntRatio
IPB002	Perchlorate	99 > 83											
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	2.54	12466.273	12466.273	bb			0.4995	99.90	-0.10	3302.1...	0.00

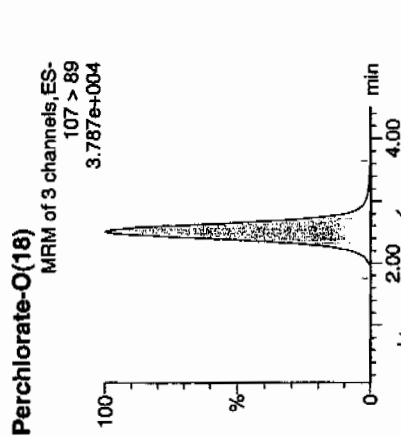
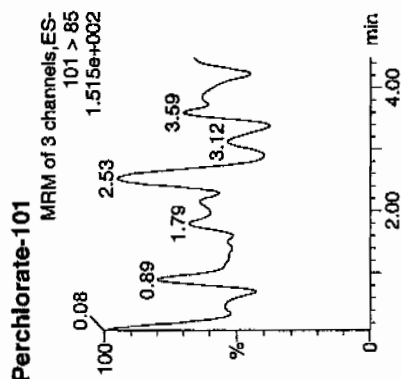
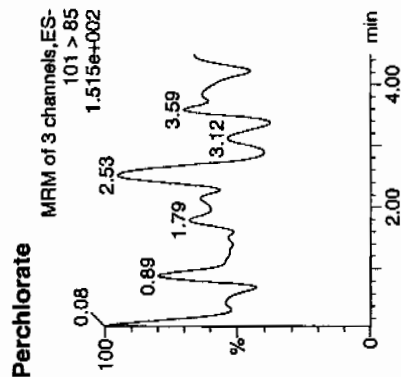
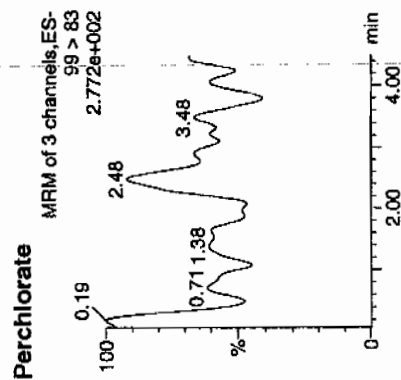
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201010a
Date: 01-Feb-2010
Time: 15:52:41
ID: IPB003
Vial: 1:1,A

02-02-10



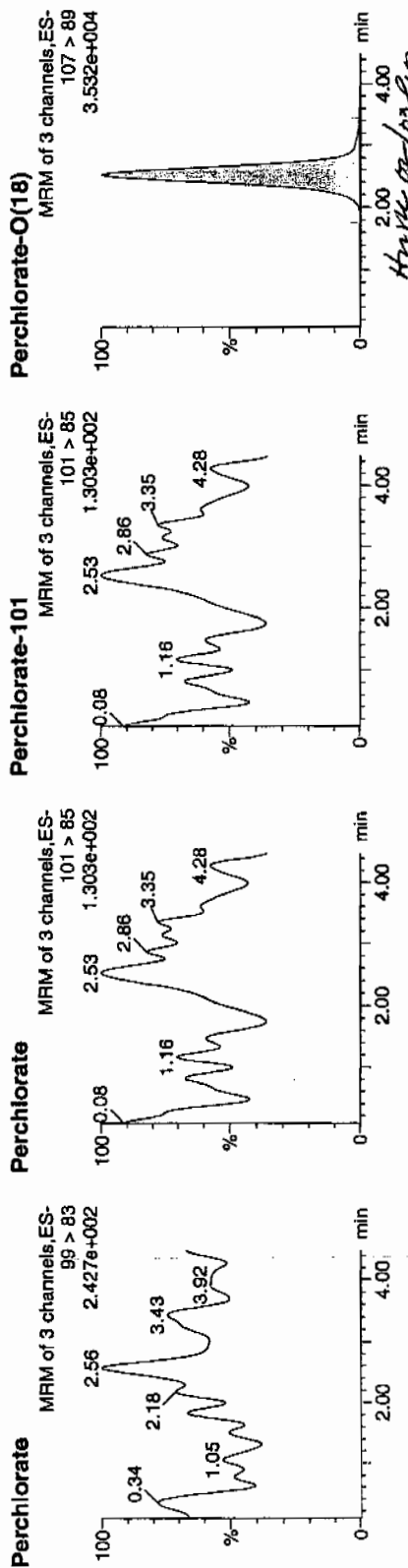
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IPB003	Perchlorate	99 > 83											0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	2.51	12216.218	12216.218	bb			0.4895	97.90	-2.10	3557.9...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201015a
Date: 01-Feb-2010
Time: 16:30:26
ID: IPB004
Vial: 1:1,A



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	Conc.	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83											
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	2.53	11317.529	11317.529	bb			0.4535	90.70	-9.30	873.039	0.00

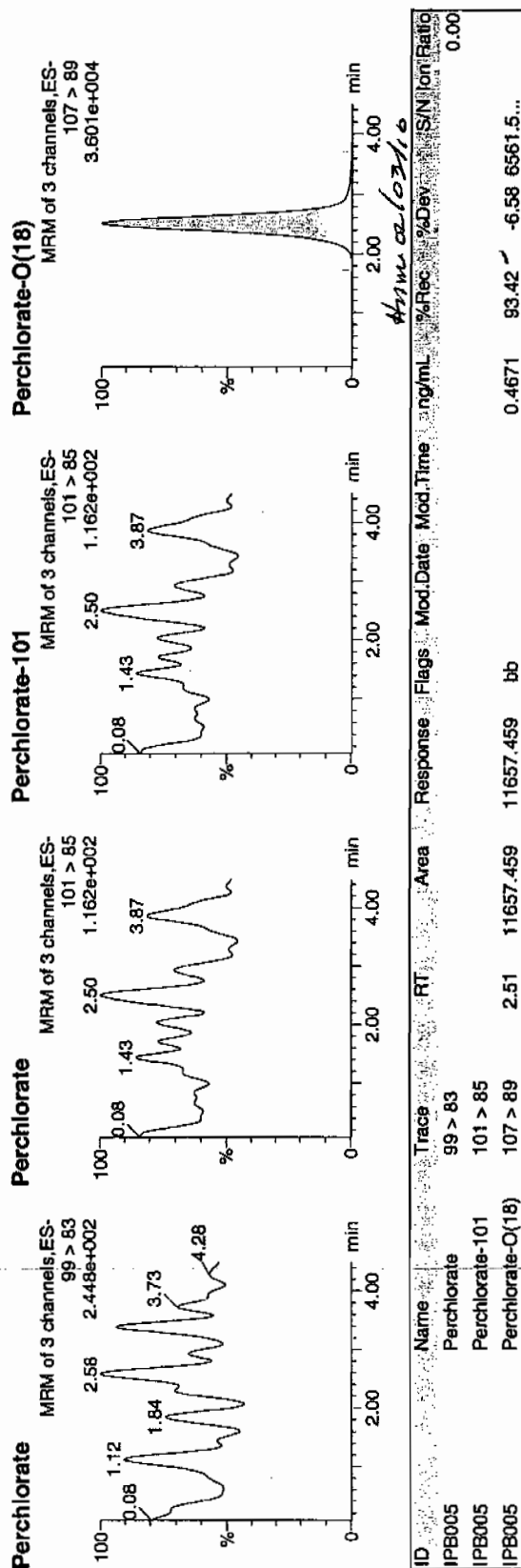
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201021a
Date: 01-Feb-2010
Time: 17:15:41
ID: IPB005
Vial: 1:1,A

02-07-10



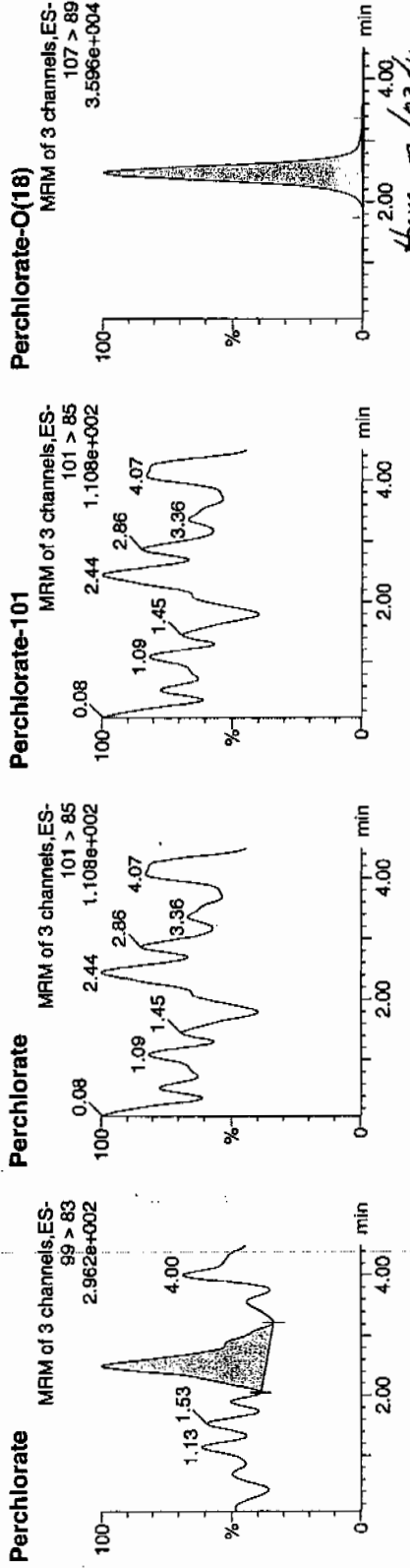
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201034a
Date: 01-Feb-2010
Time: 18:53:47
ID: IPB006
Vial: 1:1,A

02-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/ml	%Rec	%Dev	SN	On Ratio
IPB006	Perchlorate	99 > 83	2.49	82.470	82.470	bb			0.0028			11.134	0.00
IPB006	Perchlorate-101	101 > 85											
IPB006	Perchlorate-O(18)	107 > 89	2.48	11318.907	11318.907	bb			0.4535	90.71	-9.29	3567.0...	

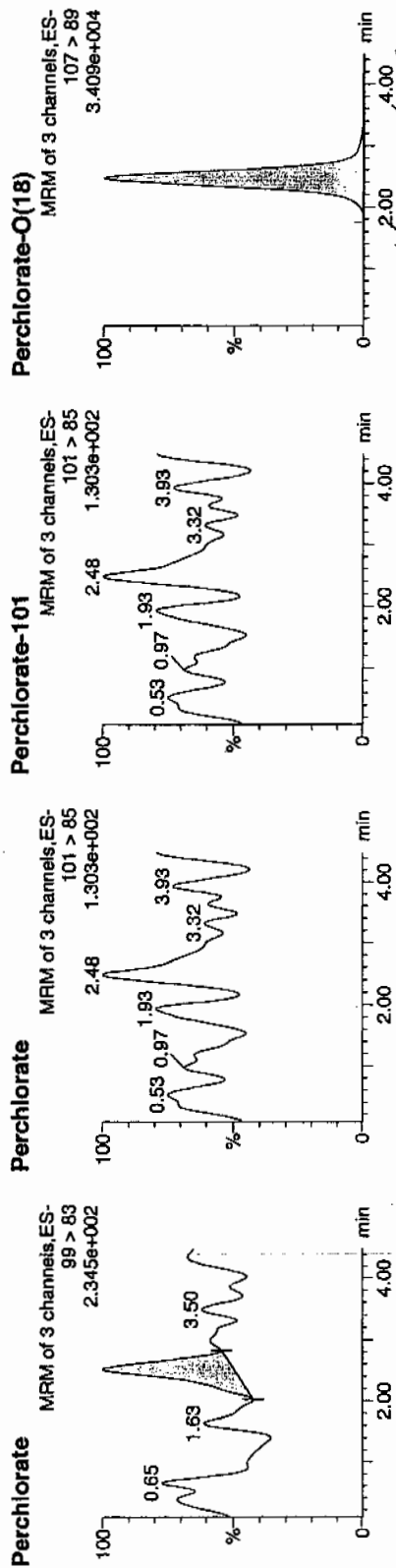
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201047a
Date: 01-Feb-2010
Time: 20:32:02
ID: IPB007
Vial: 1:1,A

02-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83	2.51	39.400	39.400	bb			0.0013			12.245	0.00
IPB007	Perchlorate-101	101 > 85											
IPB007	Perchlorate-O(18)	107 > 89	2.46	10909.646	10909.646	bb			0.4371	87.43	-12.57	790.838	

Nairb.ref

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

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

QUATRO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

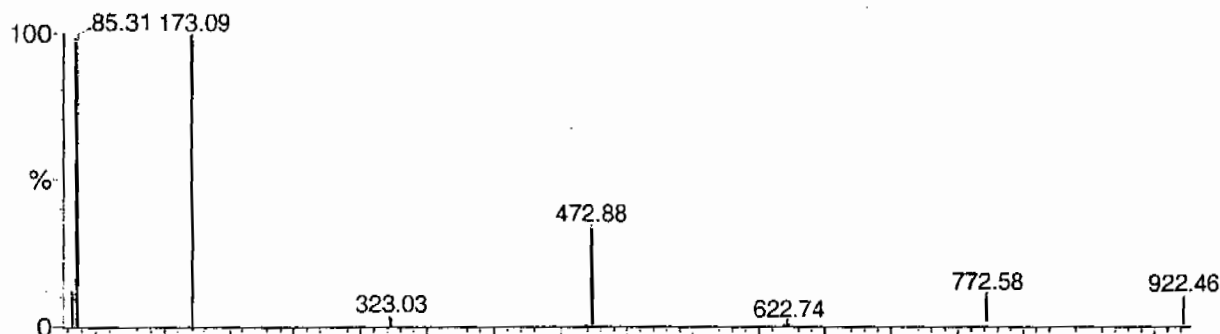
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

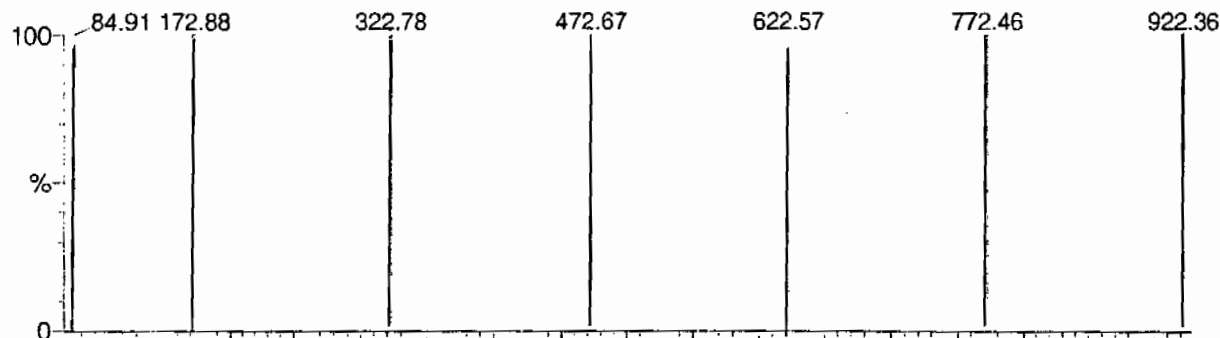
DATA HIGHLIGHTED BY CURV 01-01-08

Data file: STATMS1 - Uncalibrated

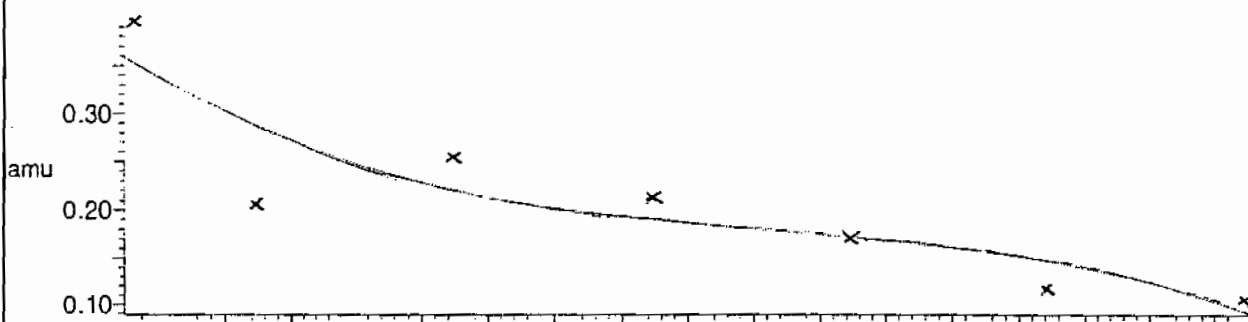
7 matches of 7 tested references



Reference file: Nairb

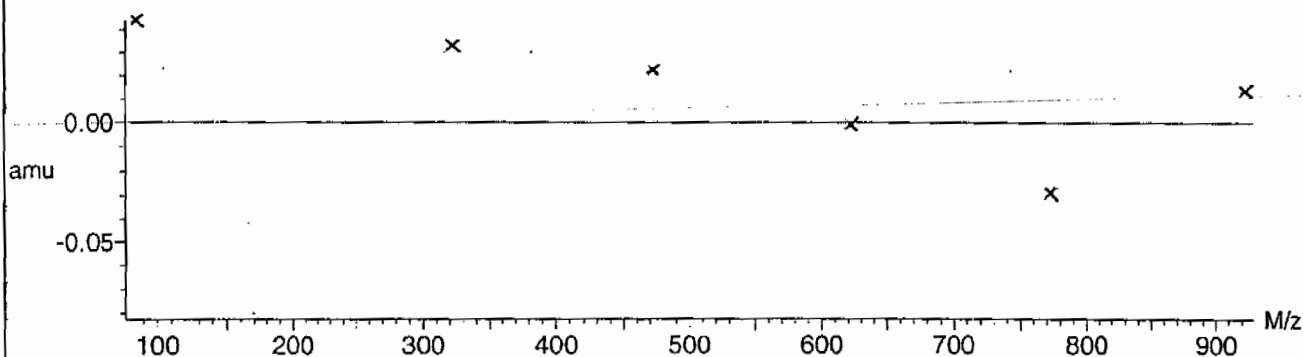


Mass difference (Raw - Ref mass)



Residuals

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



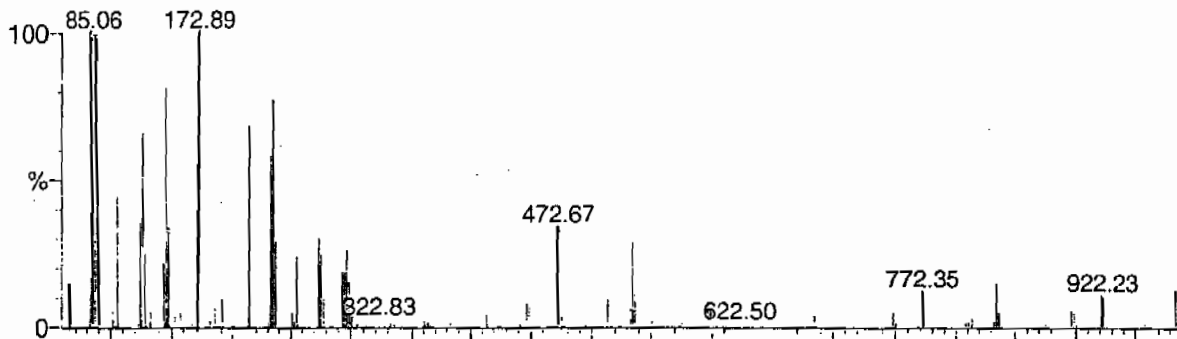
Calibration Report - MS1 Scanning

Page 1 of 1

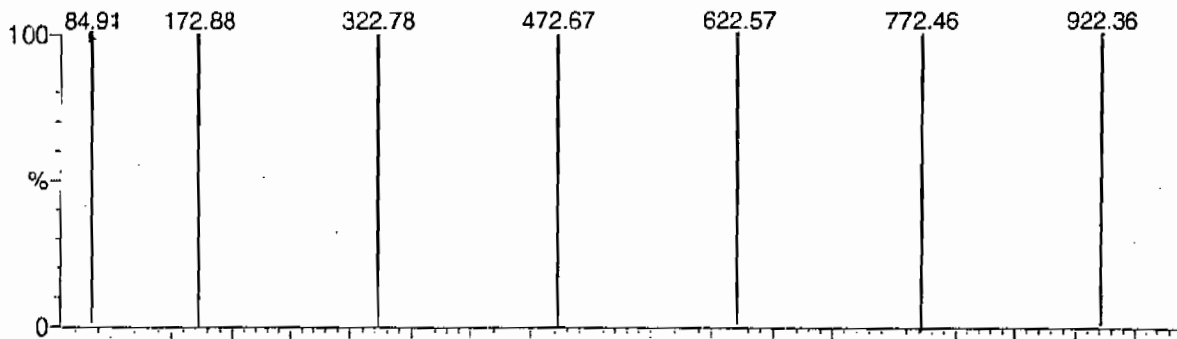
Printed: Tue Jan 08 12:20:09 2008

Data file: SCNMS1 - Uncalibrated

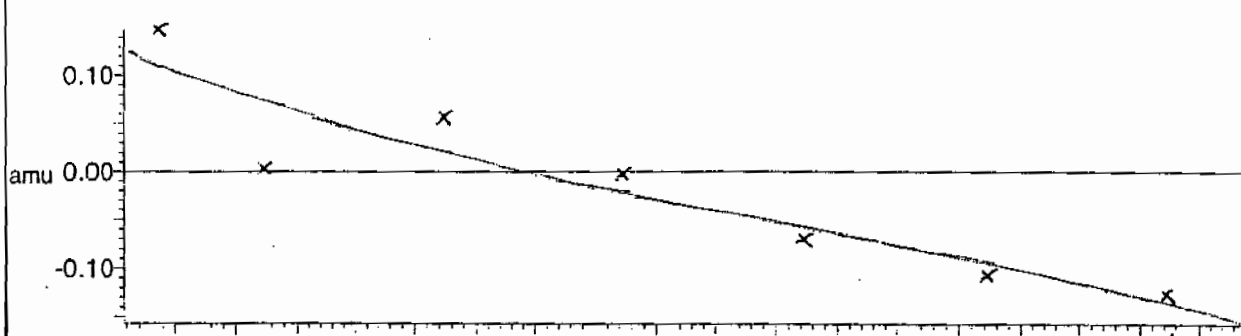
7 matches of 7 tested references



Reference file: Nairb

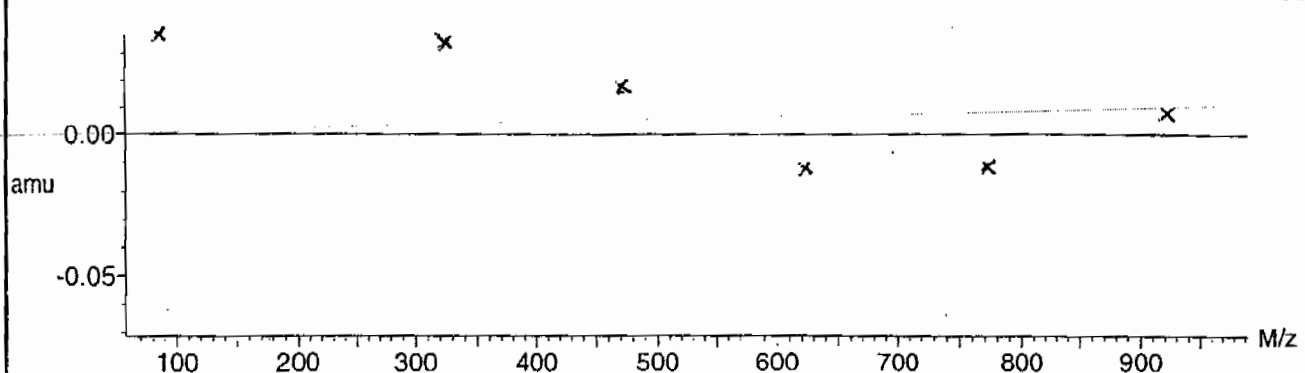


Mass difference (Raw - Ref mass)



Residuals

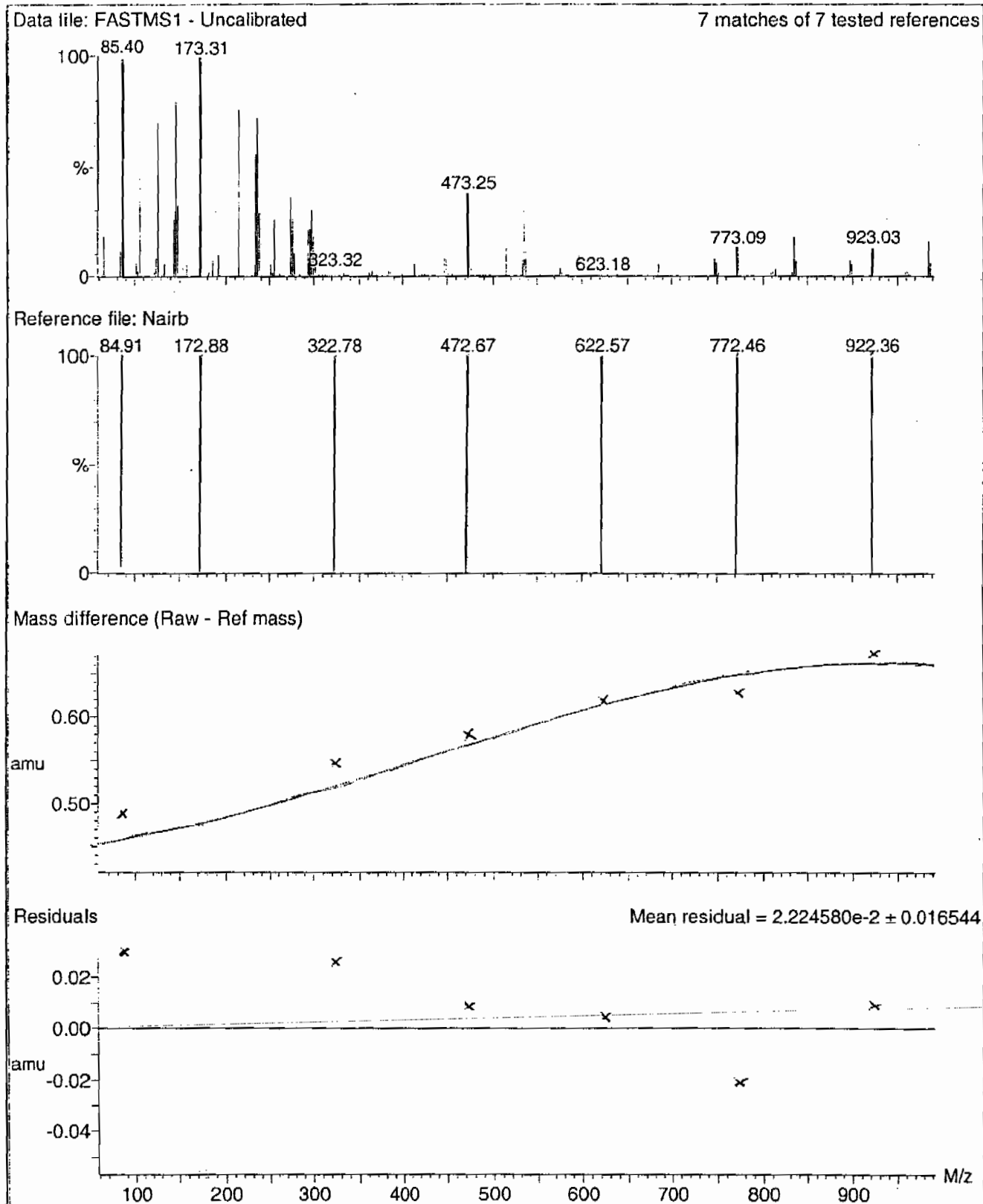
Mean residual = $2.732691 \times 10^{-2} \pm 0.020653$



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:21:04 2008



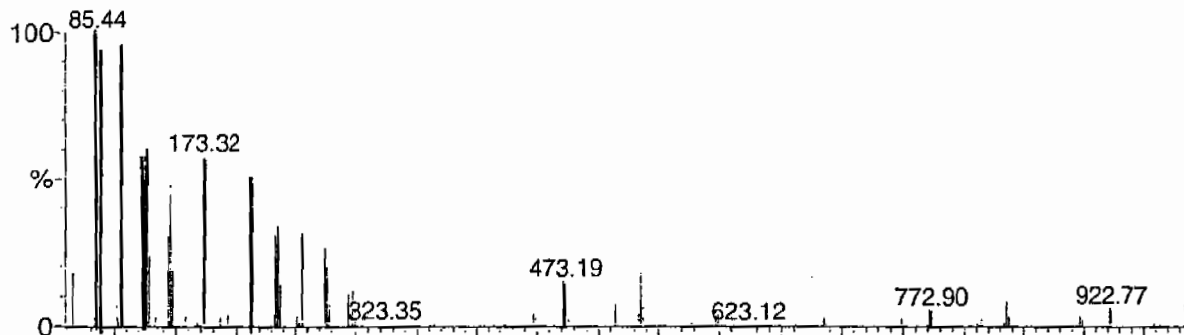
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

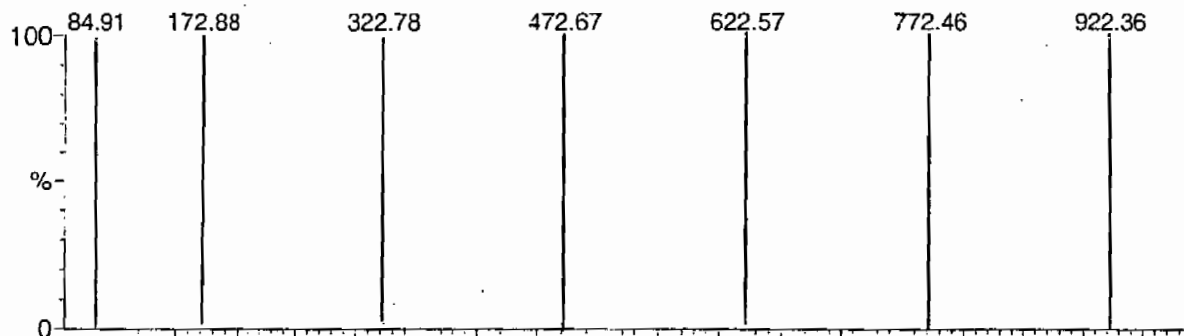
Printed: Tue Jan 08 12:23:51 2008

Data file: FASTMS2 - Uncalibrated

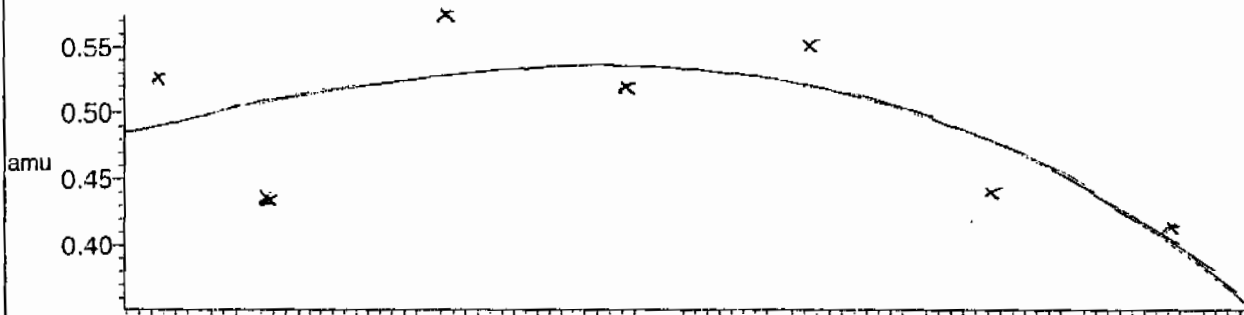
7 matches of 7 tested references



Reference file: Nairb

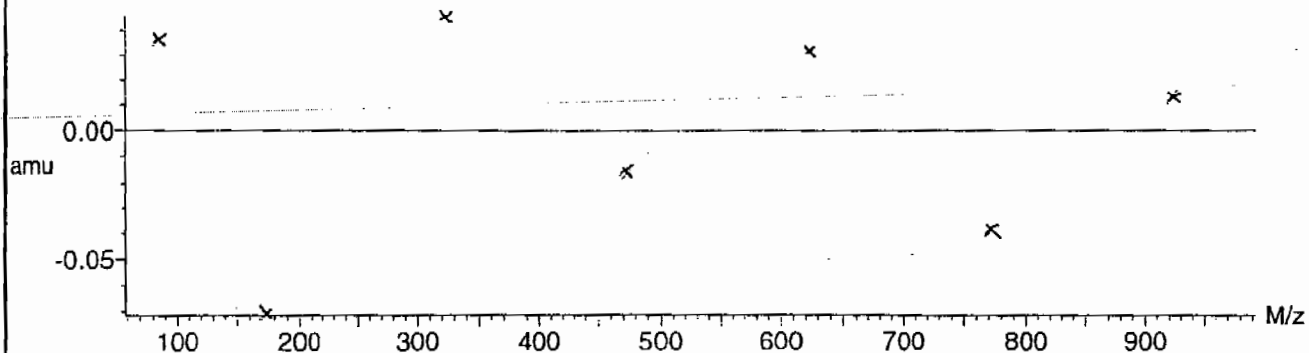


Mass difference (Raw - Ref mass)



Residuals

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



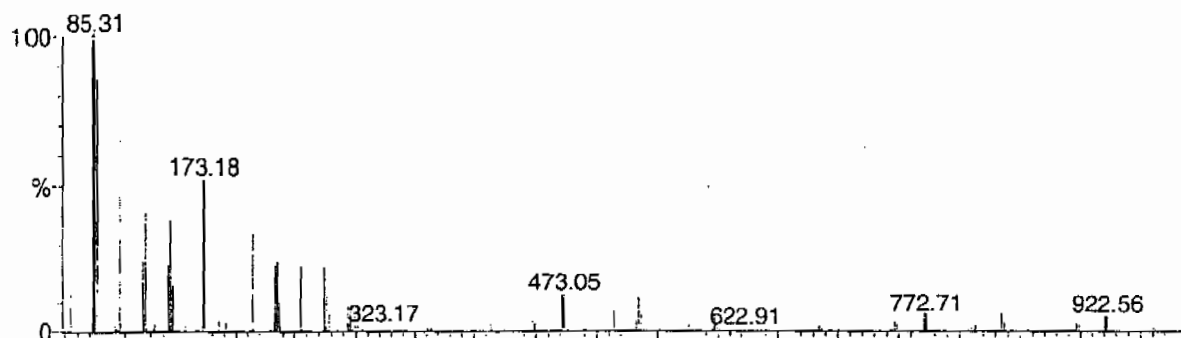
Calibration Report - MS2 Scanning

Page 1 of 1

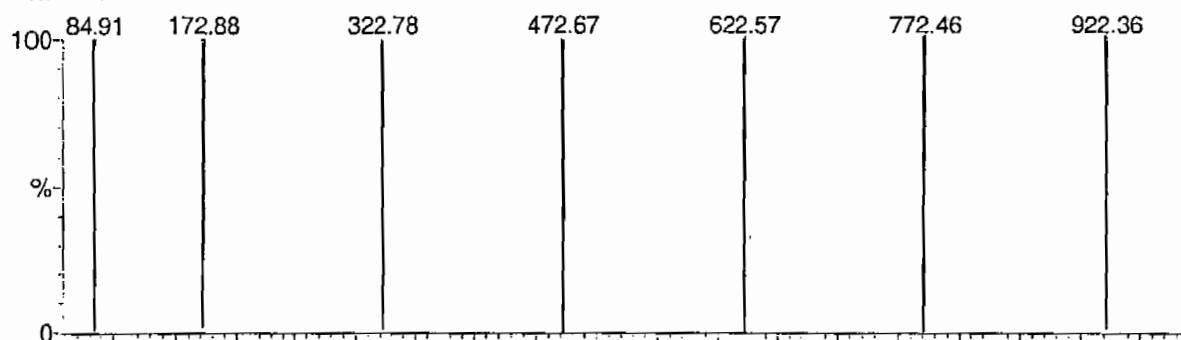
Printed: Tue Jan 08 12:22:56 2008

Data file: SCNMS2 - Uncalibrated

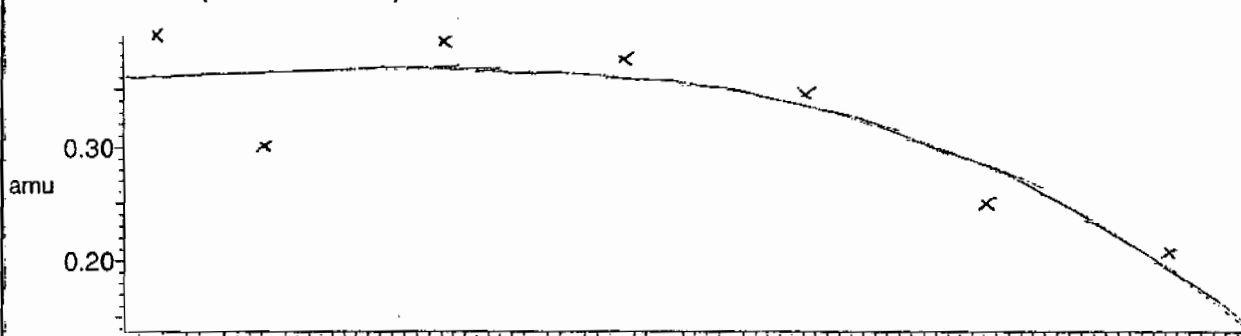
7 matches of 7 tested references



Reference file: Nairb

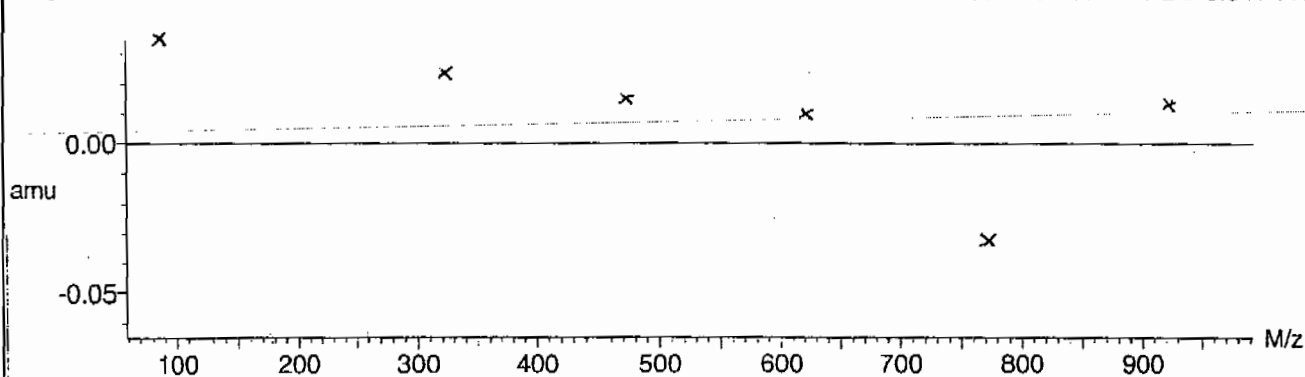


Mass difference (Raw - Ref mass)



Residuals

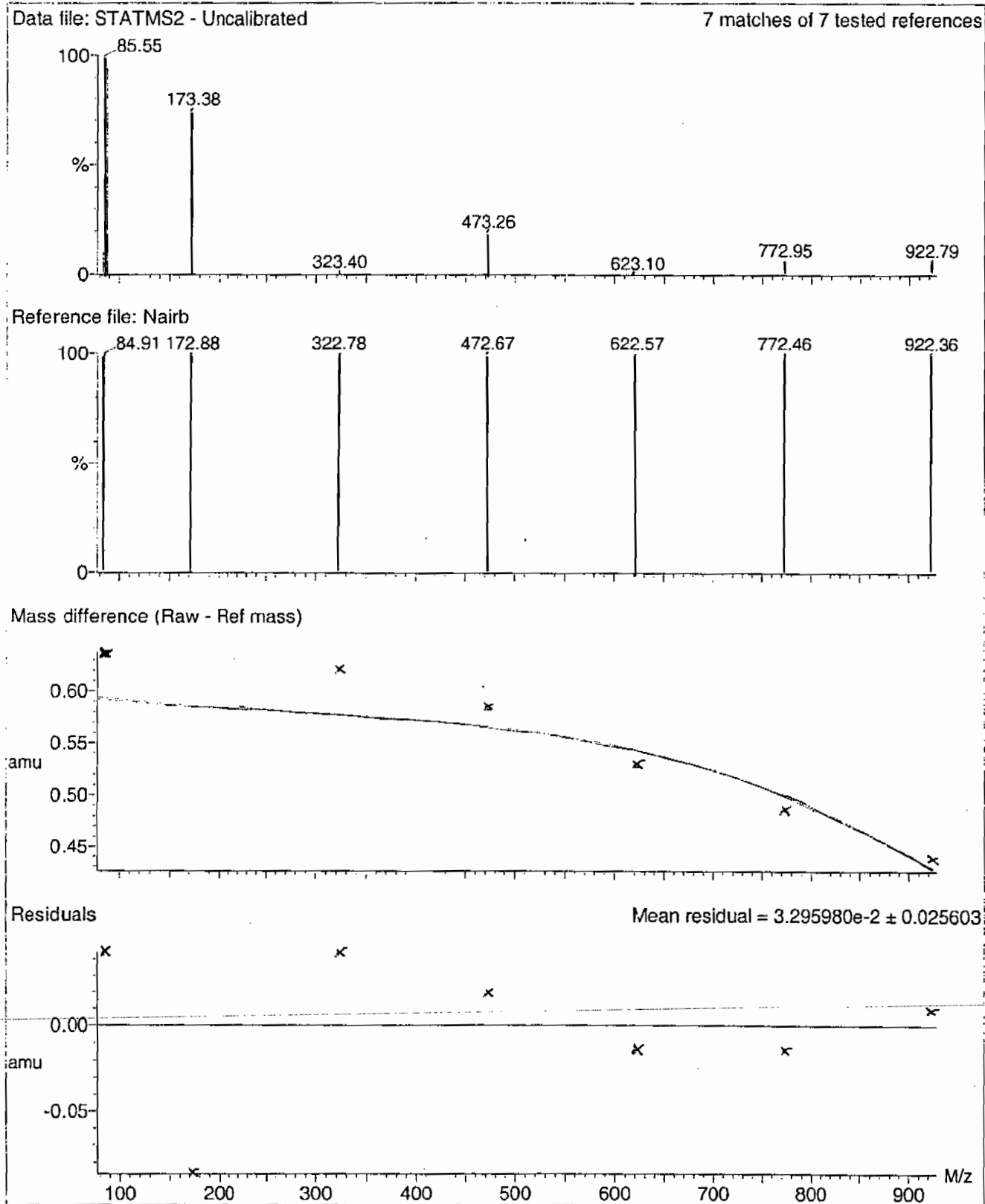
Mean residual = $2.782494 \times 10^{-2} \pm 0.017442$



Calibration Report - MS2 Static

Page 1 of 1

Printed: Tue Jan 08 12:21:59 2008



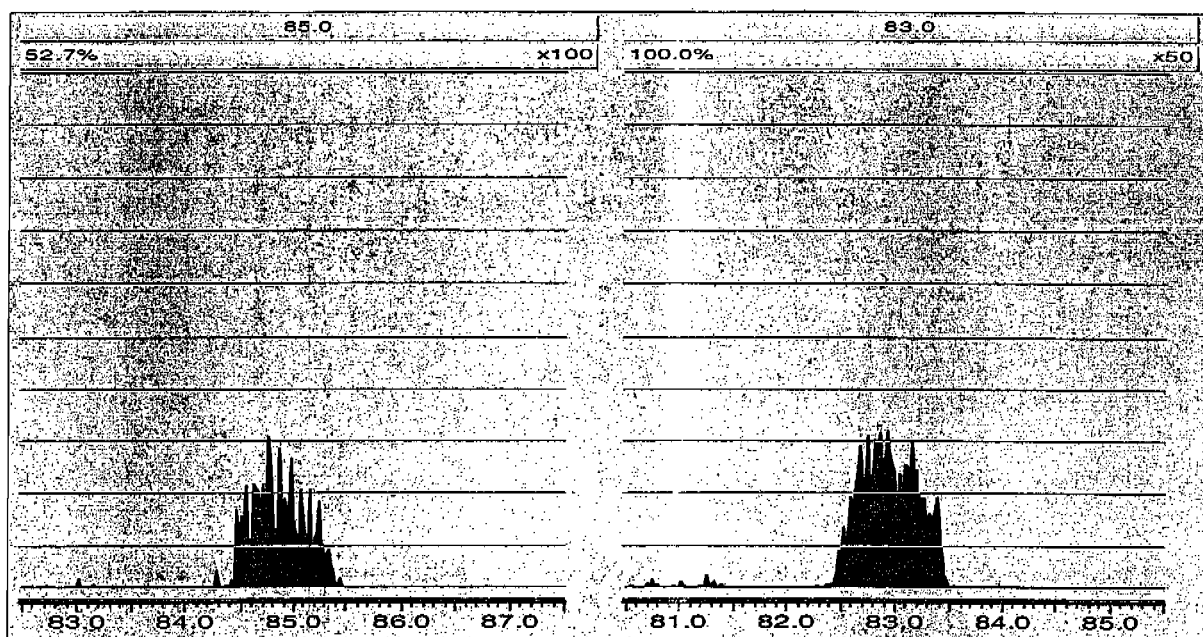
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Monday, February 01, 2010 12:58:34 Eastern Standard Time



Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-1325-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0201006a	01-FEB-10	12552.6				
Lower Area Limit			6276.3				
Upper Area Limit			25105.2				
1202024354	per0201016a	01-FEB-10 16:37	11193.6	2.51	2.5511	1.016	
1202024355	per0201017a	01-FEB-10 16:45	11708.8	2.53	2.53877	1.003	
1202024358	per0201018a	01-FEB-10 16:53	11920.8	2.5	2.5138	1.006	
245113001	per0201019a	01-FEB-10 17:00	12180.9	2.51	2.52627	1.006	
245113002	per0201023a	01-FEB-10 17:30	13869.4	2.51	2.52627	1.006	
1202024356	per0201024a	01-FEB-10 17:38	14173	2.5	2.51382	1.006	
1202024357	per0201025a	01-FEB-10 17:45	14631.6	2.49	2.50147	1.005	
245113003	per0201026a	01-FEB-10 17:53	12147.2	2.49	2.51382	1.01	

Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-1325-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0201006a	01-FEB-10	12552.6				
Lower Area Limit			6276.3				
Upper Area Limit			25105.2				
245113004	per0201027a	01-FEB-10 18:00	12129.4	2.49	2.50147	1.005	
245113005	per0201028a	01-FEB-10 18:08	12682.7	2.49	2.50148	1.005	
245113006	per0201029a	01-FEB-10 18:16	12806.6	2.48	2.47653	.999	
245113007	per0201030a	01-FEB-10 18:23	13307.9	2.48	2.48907	1.004	
245113008	per0201031a	01-FEB-10 18:31	11946.8	2.48	2.48902	1.004	
245113009	per0201032a	01-FEB-10 18:38	13101.9	2.48	2.47657	.999	
245113010	per0201036a	01-FEB-10 19:08	11939.5	2.48	2.489	1.004	
245113011	per0201037a	01-FEB-10 19:16	11909.5	2.48	2.489	1.004	

Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-1325-1

General Engineering Laboratories

Lab Name:

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	per0201006a	01-FEB-10	12552.6				
Lower Area Limit			6276.3				
Upper Area Limit			25105.2				
245113012	per0201038a	01-FEB-10 19:24	11598.2	2.46	2.47655	1.007	
245113013	per0201039a	01-FEB-10 19:31	11907.7	2.48	2.489	1.004	
245113014	per0201040a	01-FEB-10 19:39	11810.6	2.46	2.48905	1.012	

SAMPLE DATA

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 245204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8410

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113001

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.666	2.66	0.666	ug/kg	U	1	01-FEB-10 17:00	per0201019a
	Perchlorate Isotope Ratio						1	01-FEB-10 17:00	per0201019a
14797-73-0	Perchlorate-101	.666	2.66	0.666	ug/kg	U	1	01-FEB-10 17:00	per0201019a
	Perchlorate-O(18)			6.50	ug/kg		1	01-FEB-10 17:00	per0201019a

[^] 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: Charfers W. Wilson

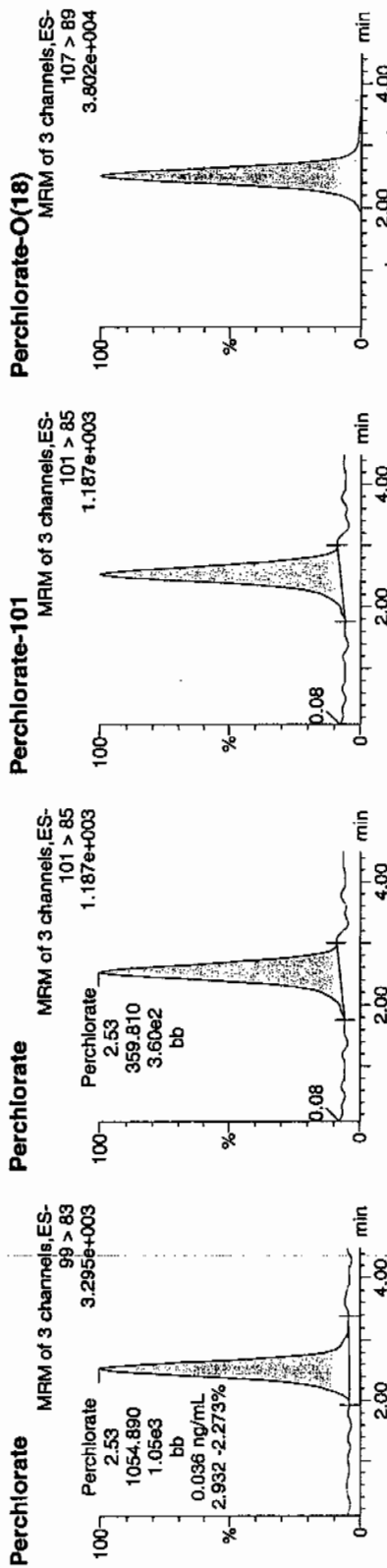
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201019a
Date: 01-Feb-2010
Time: 17:00:37
ID: 245113001
Vial: 1:4,D

02-02-10

1245113001 | 3050 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245113001	Perchlorate	99 > 83	2.53	1054.890	1054.890	bb			0.0357			24.646	2.93
245113001	Perchlorate-101	101 > 85	2.53	359.810	359.810	bb			0.0370			35.935	
245113001	Perchlorate-O(18)	107 > 89	2.51	12180.867	12180.867	bb			0.4881	97.61	-2.39	5154.4...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945204

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8411

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113002

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 85

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	.591	2.36	0.591	ug/kg	U	1	01-FEB-10 17:30	per0201023a
	Perchlorate Isotope Ratio						1	01-FEB-10 17:30	per0201023a
14797-73-0	Perchlorate-101	.591	2.36	0.591	ug/kg	U	1	01-FEB-10 17:30	per0201023a
	Perchlorate-O(18)			6.57	ug/kg		1	01-FEB-10 17:30	per0201023a

[^] 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

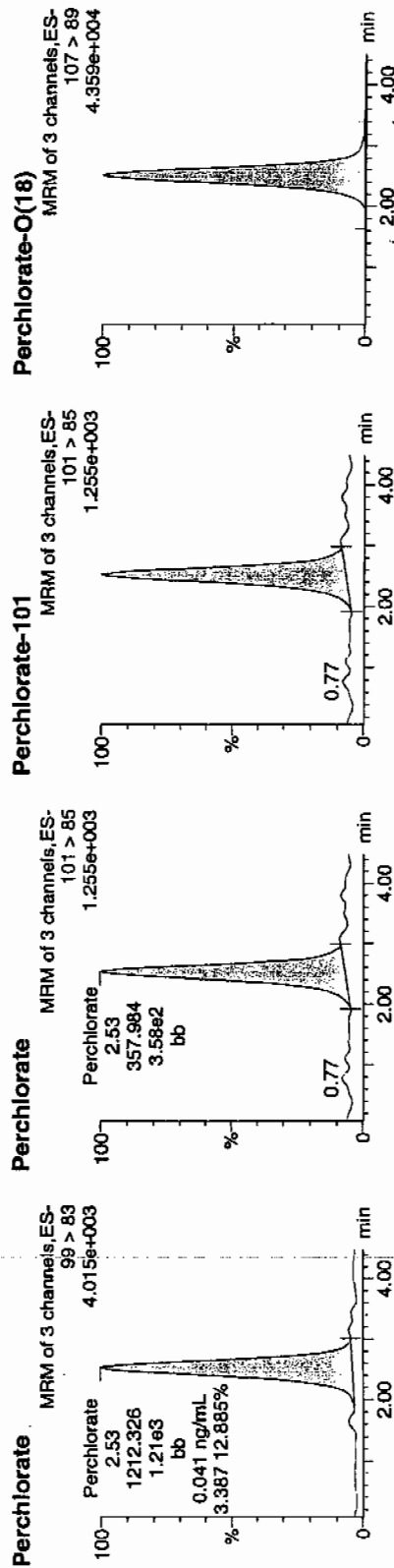
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201023a
Date: 01-Feb-2010
Time: 17:30:46
ID: 245113002
Vial: 1:4,E

was 02-02-10

1245206 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245113002	Perchlorate	99 > 83	2.53	1212.326	1212.326	bb			0.0411			116.774	3.39
245113002	Perchlorate-101	101 > 85	2.53	357.984	357.984	bb			0.0369			134.670	
245113002	Perchlorate-O(18)	107 > 89	2.51	13869.382	13869.382	bb			0.5557	111.15	11.15	8714.9...	

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: 945204
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8412
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113003
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 92.4

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.541	2.16	0.541	ug/kg	U	1	01-FEB-10 17:53	per0201026a
	Perchlorate Isotope Ratio						1	01-FEB-10 17:53	per0201026a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	01-FEB-10 17:53	per0201026a
	Perchlorate-O(18)			5.27	ug/kg		1	01-FEB-10 17:53	per0201026a

[^] 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\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
 Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201026a

Date: 01-Feb-2010

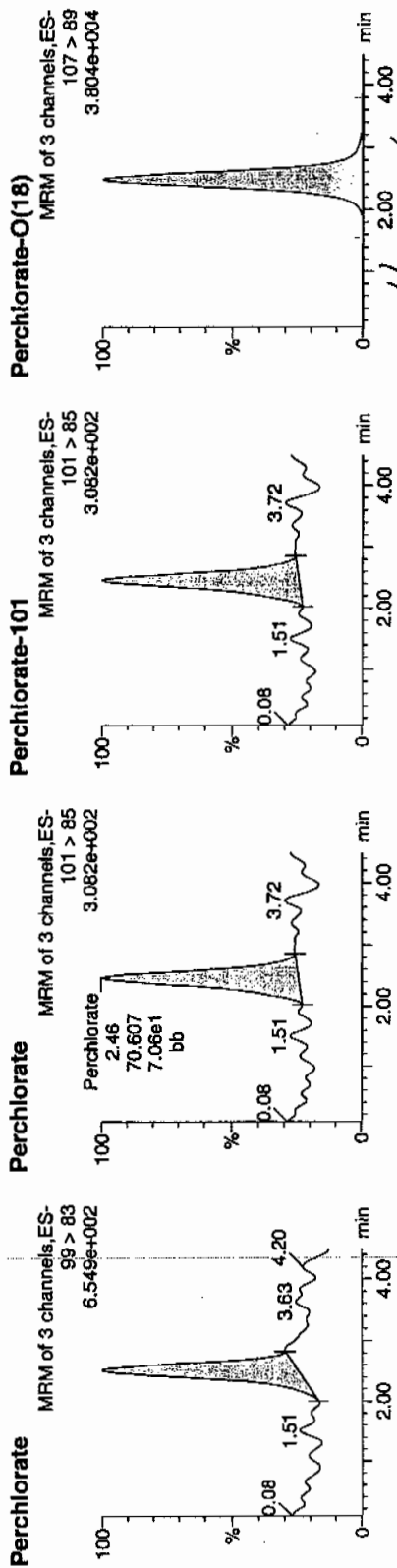
Time: 17:53:24

ID: 245113003

Vial: 1:5,B

02-02-10

1945206 | 5030 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245113003	Perchlorate	99 > 83	2.51	145.238	145.238	bb			0.0049			8.233	2.06
245113003	Perchlorate-101	101 > 85	2.46	70.607	70.607	bb			0.0073			23.558	
245113003	Perchlorate-O(18)	107 > 89	2.49	12147.225	12147.225	bb			0.4867	97.35	-2.65	4860.1...	

290300

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: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8441

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113004

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

% Solids: 20.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 18:00	per0201027a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:00	per0201027a
14797-73-0	Perchlorate-101	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 18:00	per0201027a
	Perchlorate-O(18)			5.38	ug/kg		1	01-FEB-10 18:00	per0201027a

[^] 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: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201027a

Date: 01-Feb-2010

Time: 18:00:57

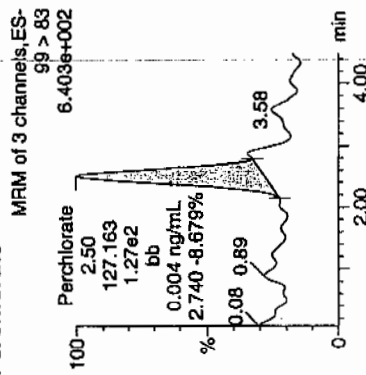
ID: 245113004

Vial: 1:5,C

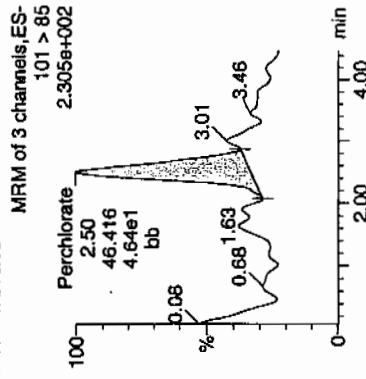
1145206/3020/11

02-02-10

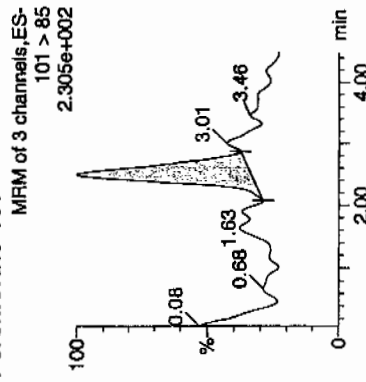
Perchlorate



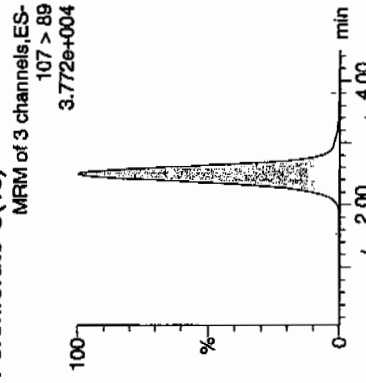
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245113004	Perchlorate	99 > 83	2.50	127.163	127.163	bb			0.0043			36.570	2.74
245113004	Perchlorate-101	101 > 85	2.50	46.416	46.416	bb			0.0048			31.714	
245113004	Perchlorate-O(18)	107 > 89	2.49	12129.381	12129.381	bb			0.4860	97.20	-2.80	4518.9...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 945204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8413
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113005
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 89

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.559	2.24	0.559	ug/kg	U	1	01-FEB-10 18:08	per0201028a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:08	per0201028a
14797-73-0	Perchlorate-101	.559	2.24	0.559	ug/kg	U	1	01-FEB-10 18:08	per0201028a
	Perchlorate-O(18)			5.69	ug/kg		1	01-FEB-10 18:08	per0201028a

[^] 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\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201028a

Date: 01-Feb-2010

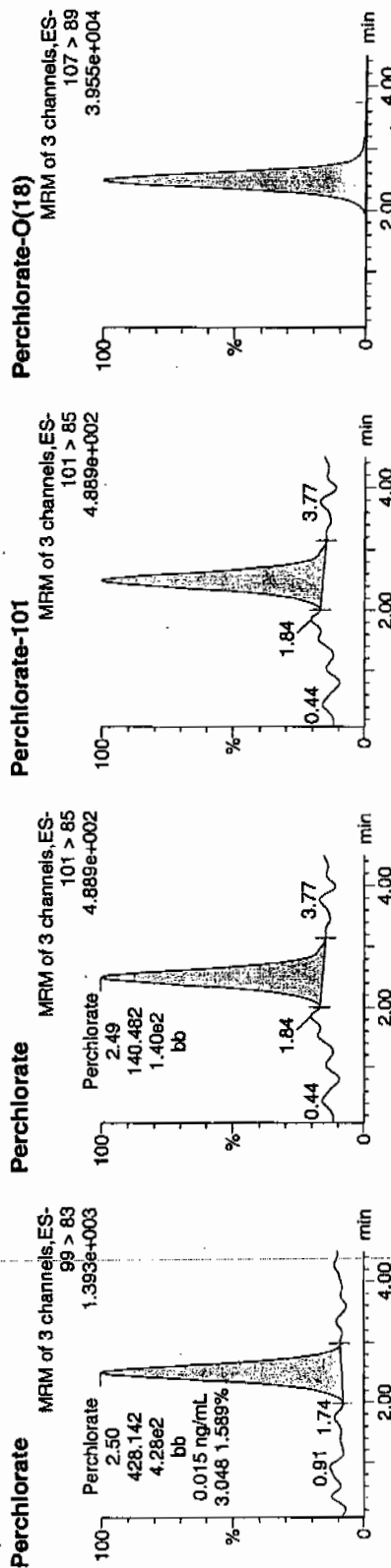
Time: 18:08:30

ID: 245113005

Vial: 1:5,D

02-02-10

145206 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245113005	Perchlorate	99 > 83	2.50	428.142	428.142	bb			0.0145			30.513	3.05
245113005	Perchlorate-101	101 > 85	2.49	140.482	140.482	bb			0.0145			42.182	
245113005	Perchlorate-O(18)	107 > 89	2.49	12682.700	12682.700	bb			0.5082	101.64	1.64	586.141	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC Client Sample No. RE15-10-8425
 Lab Code: GEL Date Received: 20-JAN-10
 Instrument: LCMSMS GEL Job No (SDG): 10-1325-1
 Method: SW846 6850 Modified GEL Sample ID: 245113006
 Matrix: SOIL Date Filtered: 30-JAN-10
 Extraction Batch ID: 945204 Injection Volume (uL): 20
 Extraction Type: Solid Prep %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	.558	2.23	0.558	ug/kg	U	1	01-FEB-10 18:16	per0201029a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:16	per0201029a
14797-73-0	Perchlorate-101	.558	2.23	0.558	ug/kg	U	1	01-FEB-10 18:16	per0201029a
	Perchlorate-O(18)			5.73	ug/kg		1	01-FEB-10 18:16	per0201029a

[^] 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

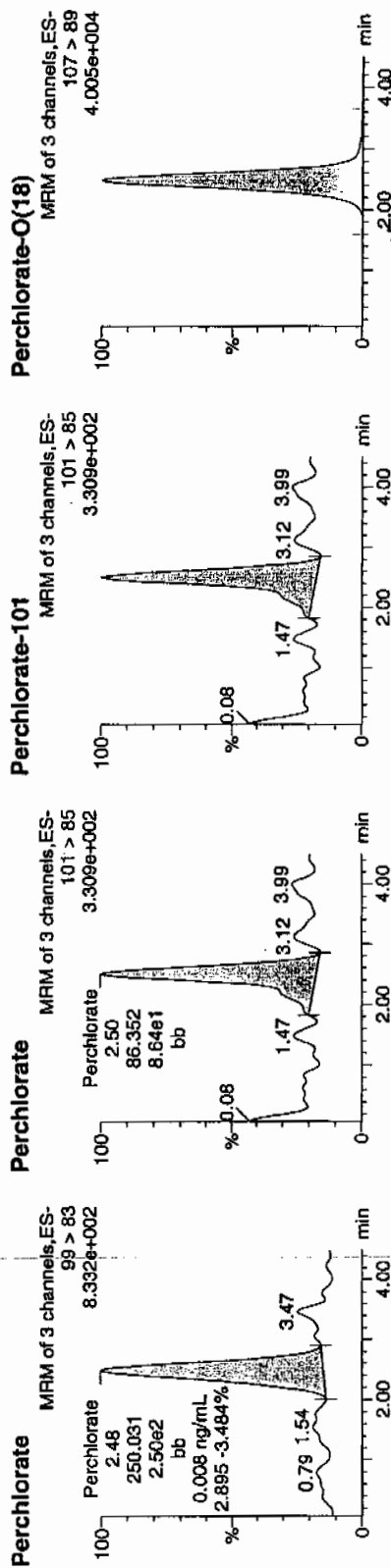
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201029a
Date: 01-Feb-2010
Time: 18:16:02
ID: 245113006
Vial: 1:5,E

0000
02-02-10

107201945206 | 3070 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245113006	Perchlorate	99 > 83	2.48	250.031	250.031	bb			0.0085			34.146	2.90
245113006	Perchlorate-101	101 > 85	2.50	86.352	86.352	bb			0.0089			15.318	
245113006	Perchlorate-O(18)	107 > 89	2.48	12806.559	12806.559	bb			0.5131	102.63	2.63	3162.7...	

Manual

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 245204
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8422
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113007
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 89

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.561	2.25	0.561	ug/kg	U	1	01-FEB-10 18:23	per0201030a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:23	per0201030a
14797-73-0	Perchlorate-101	.561	2.25	0.561	ug/kg	U	1	01-FEB-10 18:23	per0201030a
	Perchlorate-O(18)			5.99	ug/kg		1	01-FEB-10 18:23	per0201030a

[^] 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\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
 Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201030a

Date: 01-Feb-2010

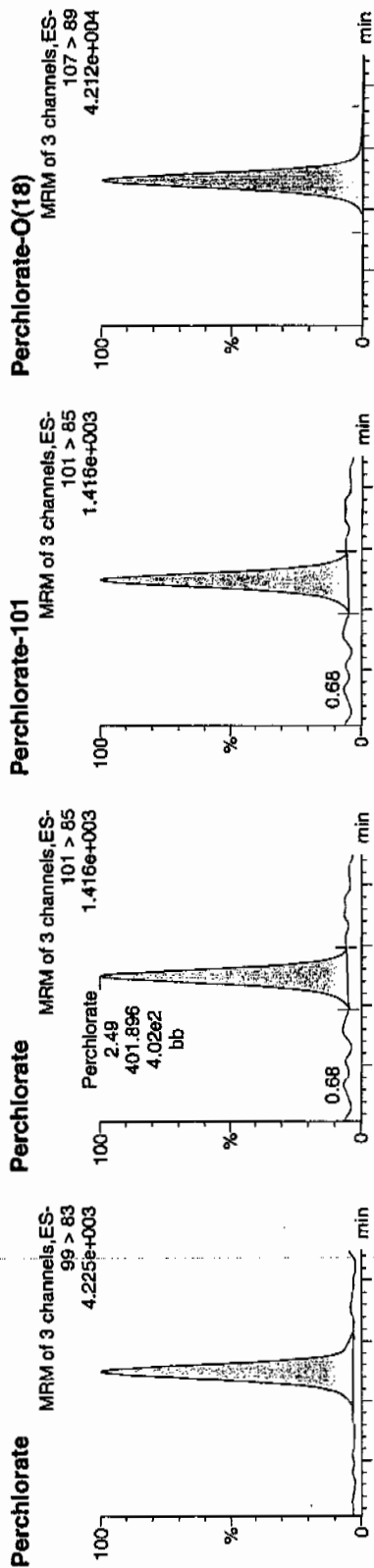
Time: 18:23:34

ID: 245113007

Vial: 1:5,F

02-02-10

LANL | 945206 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245113007	Perchlorate	99 > 83	2.49	1335.531	1335.531	bb			0.0453			47.193	3.32
245113007	Perchlorate-101	101 > 85	2.49	401.896	401.896	bb			0.0414			18.041	
245113007	Perchlorate-O(18)	107 > 89	2.48	13307.939	13307.939	bb			0.5332	106.65	6.65	193.572	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8417

Date Received: 23-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113008

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 94.7

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.528	2.11	0.528	ug/kg	U	1	01-FEB-10 18:31	per0201031a
	Perchlorate Isotope Ratio						1	01-FEB-10 18:31	per0201031a
14797-73-0	Perchlorate-101	.528	2.11	0.528	ug/kg	U	1	01-FEB-10 18:31	per0201031a
	Perchlorate-O(18)			5.06	ug/kg		1	01-FEB-10 18:31	per0201031a

[^] 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

Quantity Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

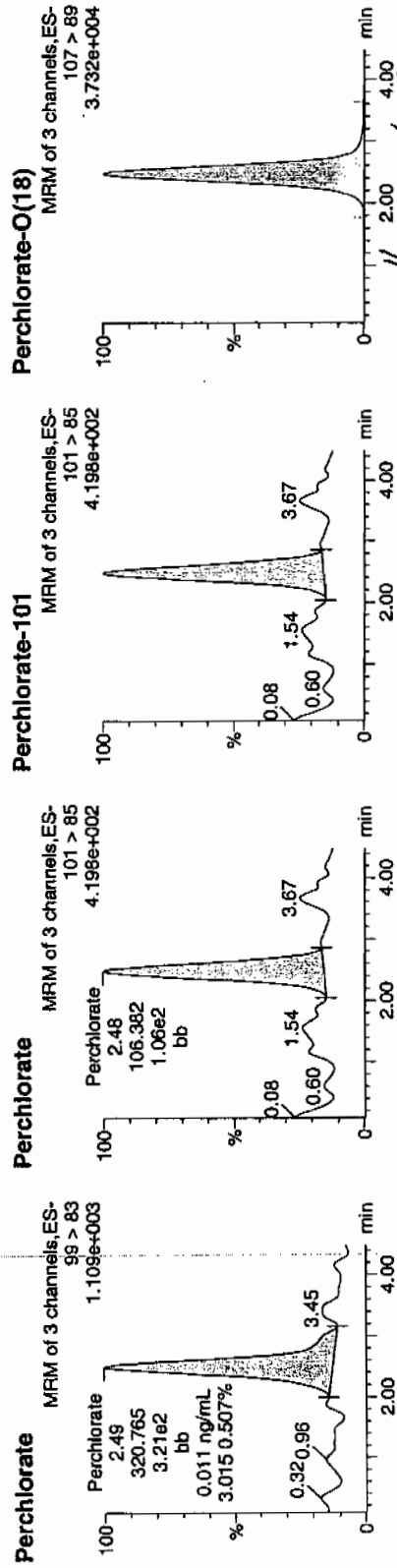
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201031a
Date: 01-Feb-2010
Time: 18:31:06
ID: 245113008
Vial: 1:6,A

WWS
02-02-10

LANU 1945206 | 5070 | 1 |



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245113008	Perchlorate	99 > 83	2.49	320.765	320.765	bb			0.0109			47.333	3.02
245113008	Perchlorate-101	101 > 85	2.48	106.382	106.382	bb			0.0110			33.099	
245113008	Perchlorate-O(18)	107 > 89	2.48	11946.825	11946.825	bb			0.4787	95.74	-4.26	4799.9...	

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: 945204
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8423
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113009
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 90.6

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	.552	2.21	0.762	ug/kg	J	1	01-FEB-10 18:38	per0201032a
	Perchlorate Isotope Ratio			2.8			1	01-FEB-10 18:38	per0201032a
14797-73-0	Perchlorate-101	.552	2.21	0.826	ug/kg	J	1	01-FEB-10 18:38	per0201032a
	Perchlorate-O(18)			5.79	ug/kg		1	01-FEB-10 18:38	per0201032a

[^] 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\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201032a

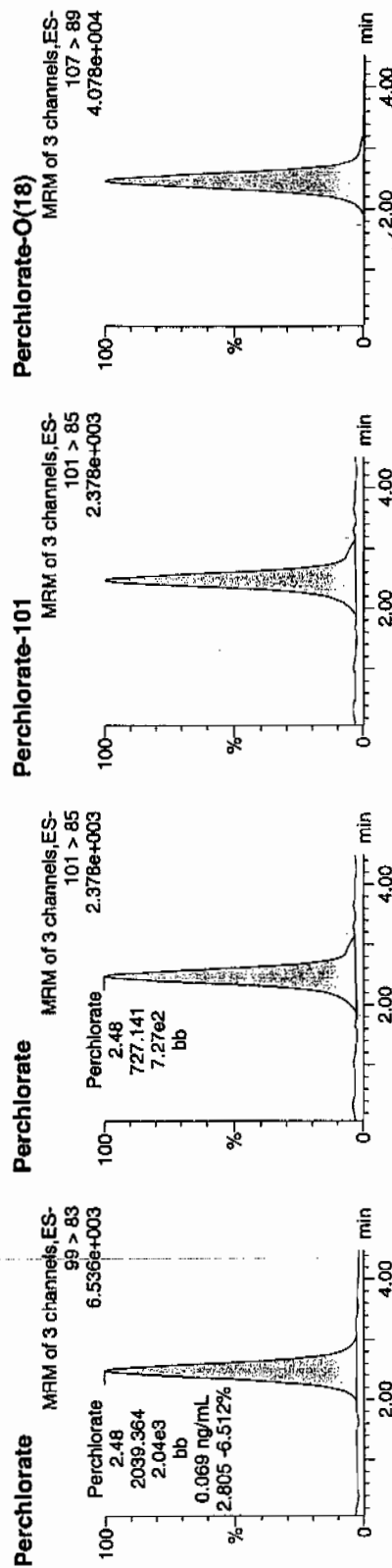
Date: 01-Feb-2010

Time: 18:38:40

ID: 245113009

Vial: 1:6,B

02-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245113009	Perchlorate	99 > 83	2.48	2039.364	2039.364	bb			0.0691			420.919	2.80
245113009	Perchlorate-101	101 > 85	2.48	727.141	727.141	bb			0.0749			298.642	
245113009	Perchlorate-O(18)	107 > 89	2.48	13101.910	13101.910	bb			0.5250	105.00	5.00	1045.4...	

$$\frac{2039.364}{29509} \times \frac{10}{100} = 0.763$$

Form 1

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC Client Sample No. RE15-10-8416

Lab Code: GEL Date Received: 20-JAN-10

Instrument: LCMSMS GEL Job No (SDG): 10-1325-1

Method: SW846 6850 Modified GEL Sample ID: 245113010

Matrix: SOIL Date Filtered: 30-JAN-10

Extraction Batch ID: 945204 Injection Volume (uL): 20

Extraction Type: Solid Prep %Solids: 90.4

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc [*]	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 19:08	per0201036a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:08	per0201036a
14797-73-0	Perchlorate-101	.553	2.21	0.553	ug/kg	U	1	01-FEB-10 19:08	per0201036a
	Perchlorate-O(18)			5.29	ug/kg		1	01-FEB-10 19:08	per0201036a

[^] 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: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201036a

Date: 01-Feb-2010

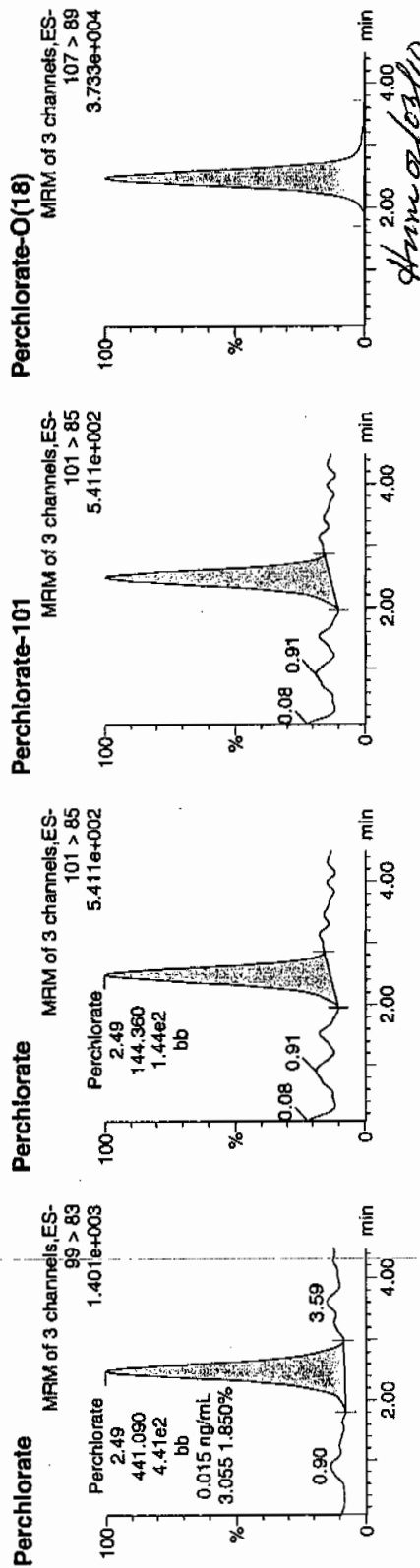
Time: 19:08:53

ID: 245113010

Vial: 1:6,C

02-02-10

LANC | 945206 | 5073 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245113010	Perchlorate	98 > 83	2.49	441.090	441.090	bb			0.0149			109.637	3.06
245113010	Perchlorate-101	101 > 85	2.49	144.360	144.360	bb			0.0149			84.104	
245113010	Perchlorate-O(18)	107 > 89	2.48	11939.487	11939.487	bb			0.4784	95.68	-4.32	3254.0...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 945204
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8418
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1325-1
 GEL Sample ID: 245113011
 Date Filtered: 30-JAN-10
 Injection Volume (uL): 20
 %Solids: 89

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	.564	2.25	0.564	ug/kg	U	1	01-FEB-10 19:16	per0201037a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:16	per0201037a
14797-73-0	Perchlorate-101	.564	2.25	0.564	ug/kg	U	1	01-FEB-10 19:16	per0201037a
	Perchlorate-O(18)			5.38	ug/kg		1	01-FEB-10 19:16	per0201037a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201037a

Date: 01-Feb-2010

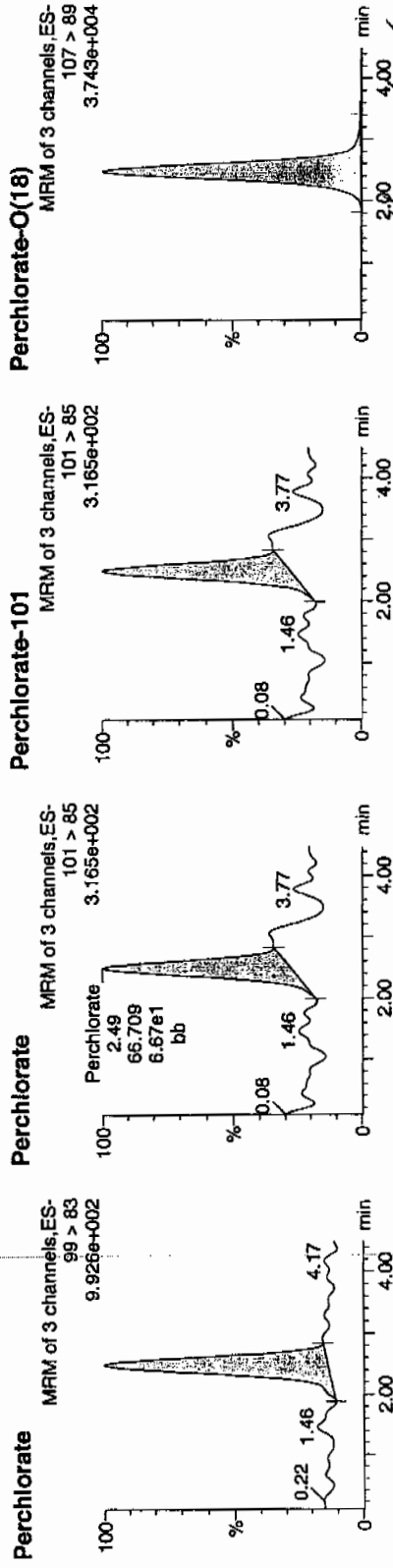
Time: 19:16:27

ID: 245113011

Vial: 1:6,D

02-02-10

LAN 1945200 | 5030 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245113011	Perchlorate	99 > 83	2.49	273.578	273.578	bb			0.0093			53.610	4.10
245113011	Perchlorate-101	101 > 85	2.49	66.709	66.709	bb			0.0069			16.843	
245113011	Perchlorate-O(18)	107 > 89	2.48	11909.497	11909.497	bb			0.4772	95.44	-4.56	3217.1	

OK 4
23.0500

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: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8424

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113012

Date Filtered: 30-JAN-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	.556	2.22	0.556	ug/kg	U	1	01-FEB-10 19:24	per0201038a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:24	per0201038a
14797-73-0	Perchlorate-101	.556	2.22	0.556	ug/kg	U	1	01-FEB-10 19:24	per0201038a
	Perchlorate-O(18)			5.17	ug/kg		1	01-FEB-10 19:24	per0201038a

[^] 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

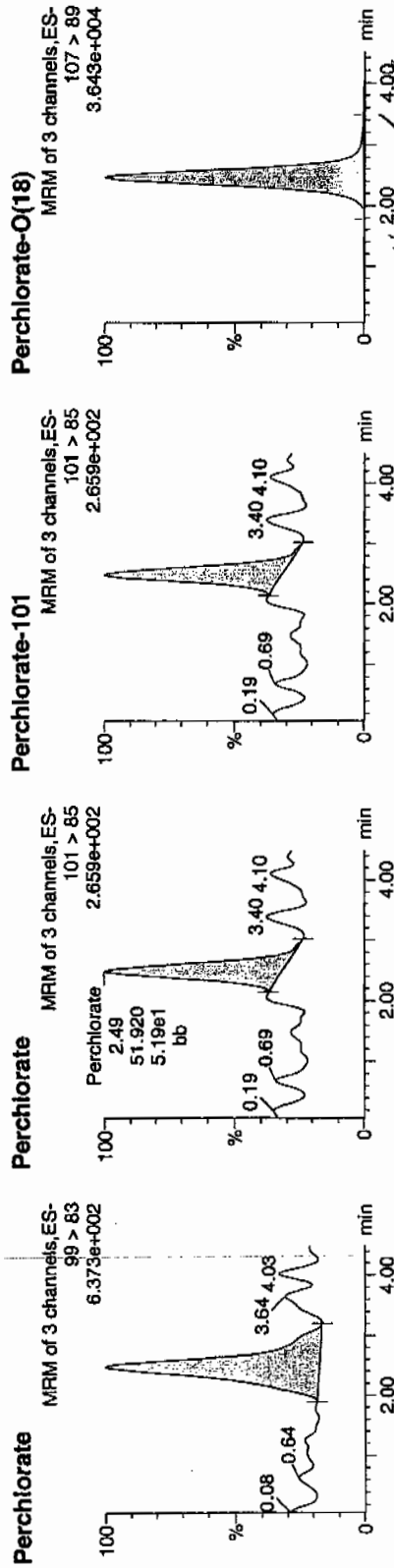
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201038a
Date: 01-Feb-2010
Time: 19:24:01
ID: 245113012
Vial: 1:6,E

02-02-10

LAN-195206 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	Conc	%Rec	%Dev	SN	Ion Ratio
245113012	Perchlorate	99 > 83	2.48	224.647	224.647	bb			0.0076	31.062	4.33		
245113012	Perchlorate-101	101 > 85	2.49	51.920	51.920	bb			0.0053	42.511			
245113012	Perchlorate-O(18)	107 > 89	2.46	11598.243	11598.243	bb			0.4647	92.95	-7.05	3878.7...	

0294
60500

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: 245204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8421

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113013

Date Filtered: 30-JAN-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	0.571	ug/kg	U	1	01-FEB-10 19:31	per0201039a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:31	per0201039a
14797-73-0	Perchlorate-101	.571	2.28	0.571	ug/kg	U	1	01-FEB-10 19:31	per0201039a
	Perchlorate-O(18)			5.45	ug/kg		1	01-FEB-10 19:31	per0201039a

[^] 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\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201039a

Date: 01-Feb-2010

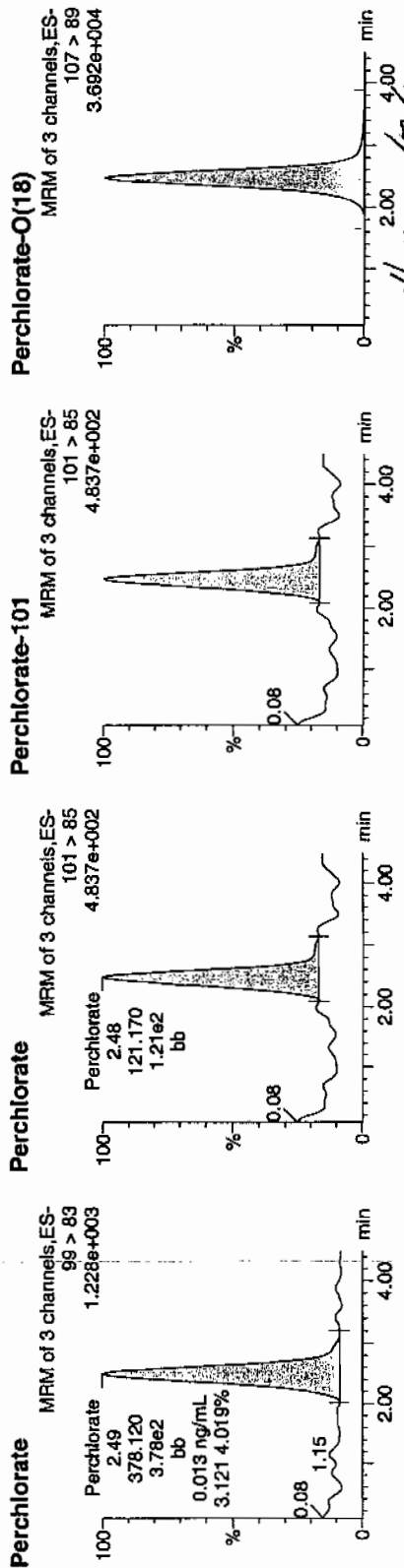
Time: 19:31:33

ID: 245113013

Vial: 1:6.F

02-02-10

1420 1945206 15025 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245113013	Perchlorate	99 > 83	2.49	378.120	378.120	bb			0.0128	57.086			3.12
245113013	Perchlorate-101	101 > 85	2.48	121.170	121.170	bb			0.0125	21.740			
245113013	Perchlorate-O(18)	107 > 89	2.48	11907.708	11907.708	bb			0.4771	95.43	-4.57	800.872	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945204

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8420

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 245113014

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 70

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	.716	2.86	0.716	ug/kg	U	1	01-FEB-10 19:39	per0201040a
	Perchlorate Isotope Ratio						1	01-FEB-10 19:39	per0201040a
14797-73-0	Perchlorate-101	.716	2.86	0.716	ug/kg	U	1	01-FEB-10 19:39	per0201040a
	Perchlorate-O(18)			6.77	ug/kg		1	01-FEB-10 19:39	per0201040a

[^] 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

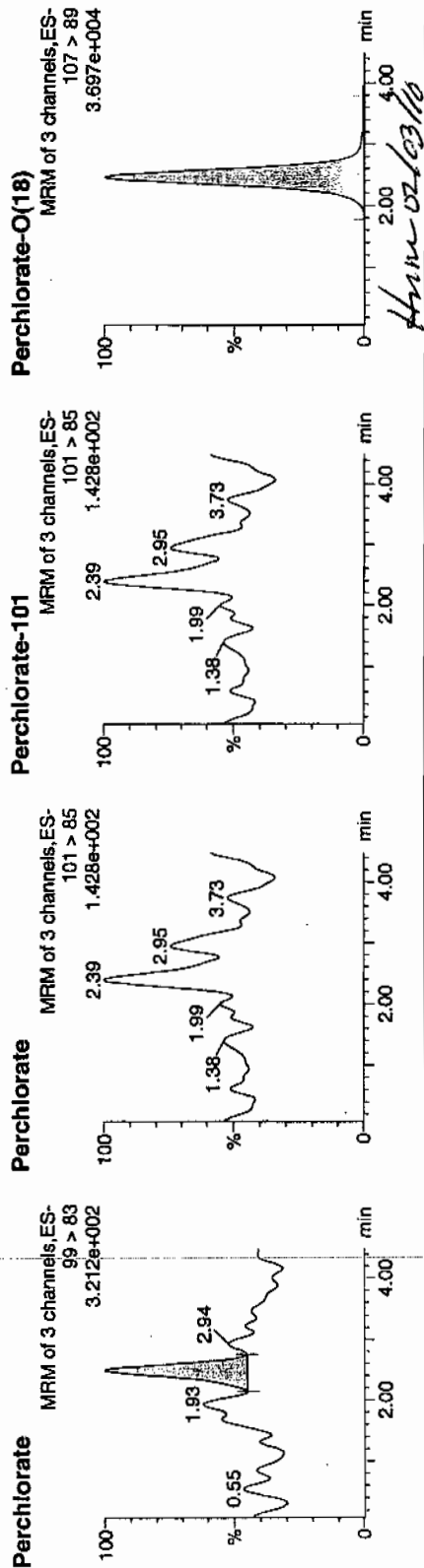
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201040a
Date: 01-Feb-2010
Time: 19:39:06
ID: 245113014
Vial: 1:7,A

02-02-10

11 5020 1945206



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245113014	Perchlorate	99 > 83	2.49	44.321	44.321	bb			0.0015			15.760	0.00
245113014	Perchlorate-101	101 > 85											
245113014	Perchlorate-O(18)	107 > 89	2.46	11810.589	11810.589	bb			0.4732	94.65	-5.35	1658.0...	

STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-1325-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 01-FEB-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: 29509.02

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-1325-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 01-FEB-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: 9714.282

Response Type: External Standard

Curve Type: RF

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time

Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per020110a.mdb 02 Feb 2010 07:54:05
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per020110a.cdb 02 Feb 2010 14:28:23

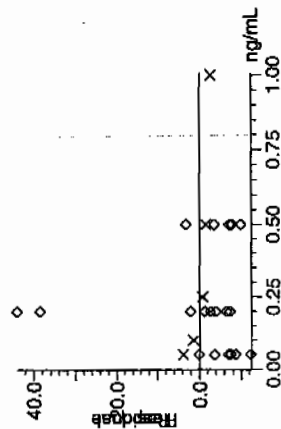
Compound name: Perchlorate

Response Factor: 29509

RRF SD: 760.836, % Relative SD: 2.57832 ✓

Response type: External Std, Area

Curve type: RF ✓



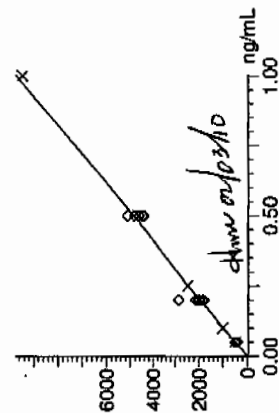
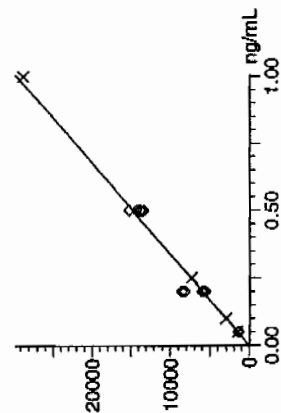
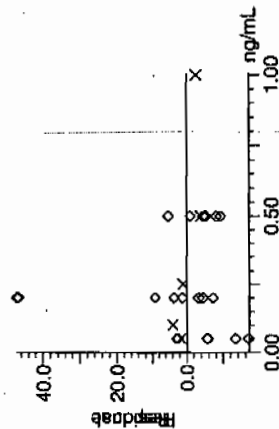
Compound name: Perchlorate-101

Response Factor: 9714.29

RRF SD: 312.663, % Relative SD: 3.21858 ✓

Response type: External Std, Area

Curve type: RF ✓



02-02-10

02-02-10

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time

Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

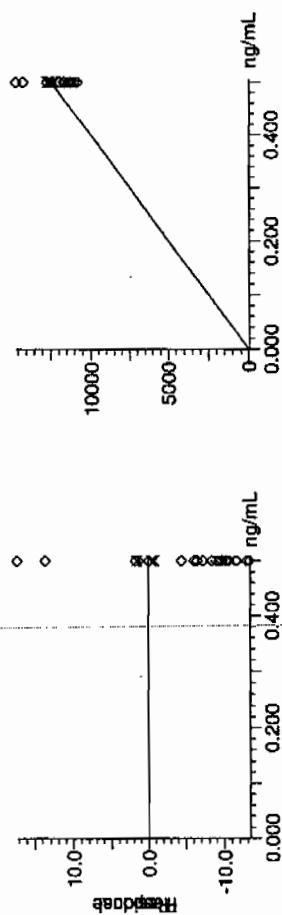
Compound name: Perchlorate-O(18)

Response Factor: 24957

RRF SD: 251.821, % Relative SD: 1.00902

Response type: External Std, Area

Curve type: RF



Form 3

Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1325-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.52	103.11	01-FEB-10 15:45	per0201009a
Perchlorate Isotope Ratio		2.98		01-FEB-10 15:45	per0201009a
Perchlorate-101	.5	.53	105.27	01-FEB-10 15:45	per0201009a

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

Page 9 of 71

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201009a

Date: 01-Feb-2010

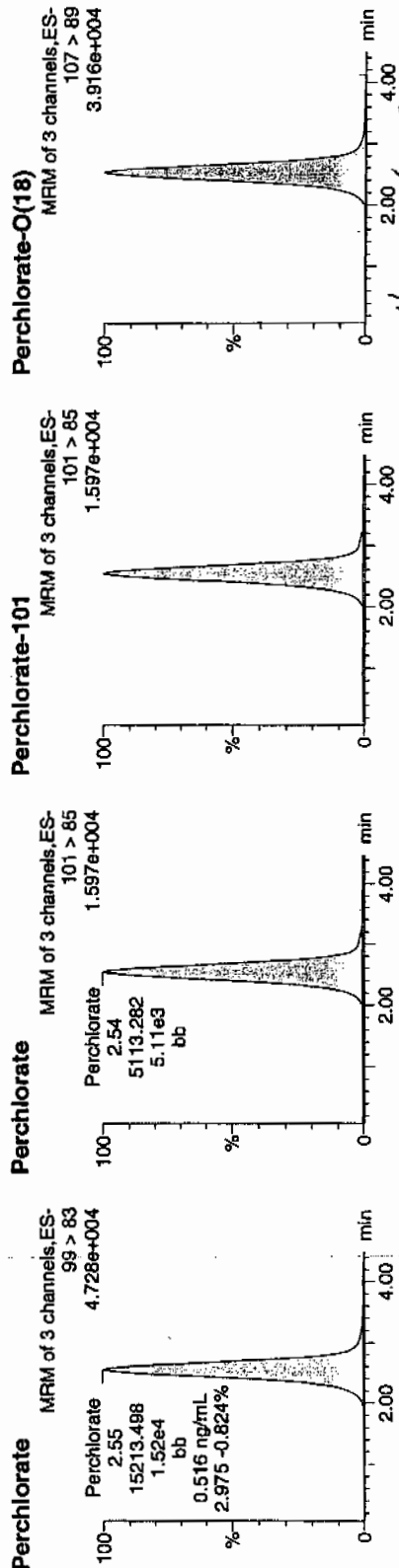
Time: 15:45:09

ID: WCL100128-06ICV

Vial: 1:2,A

Per02

02-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06ICV	Perchlorate	99 > 83	2.55	15213.498	15213.498	bb			0.5156	103.11	3.11	1234.0...	2.98
WCL100128-06ICV	Perchlorate-101	101 > 85	2.54	5113.282	5113.282	bb			0.5264	105.27	5.27	2547.6...	
WCL100128-06ICV	Perchlorate-O(18)	107 > 89	2.53	12695.416	12695.416	bb			0.5087	101.74	1.74	962.638	

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1325-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.48	96.42	01-FEB-10 17:08	per0201020a
Perchlorate Isotope Ratio		2.96		01-FEB-10 17:08	per0201020a
Perchlorate-101	.5	.49	98.95	01-FEB-10 17:08	per0201020a
Perchlorate	.5	.48	96.31	01-FEB-10 18:46	per0201033a
Perchlorate Isotope Ratio		3.06		01-FEB-10 18:46	per0201033a
Perchlorate-101	.5	.48	95.52	01-FEB-10 18:46	per0201033a
Perchlorate	.5	.46	92.9	01-FEB-10 20:24	per0201046a
Perchlorate Isotope Ratio		2.98		01-FEB-10 20:24	per0201046a
Perchlorate-101	.5	.47	94.76	01-FEB-10 20:24	per0201046a

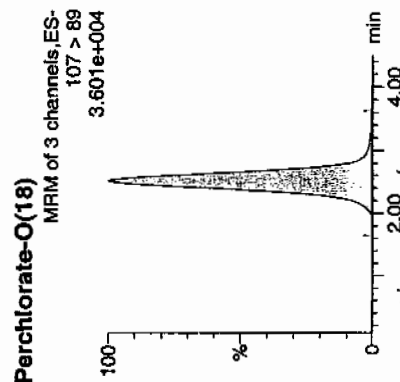
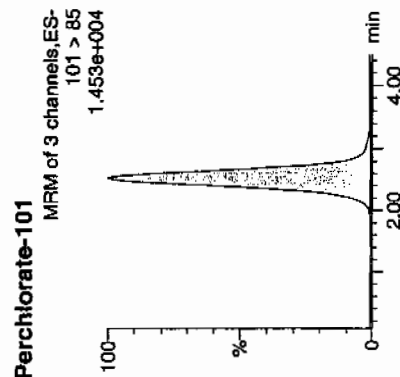
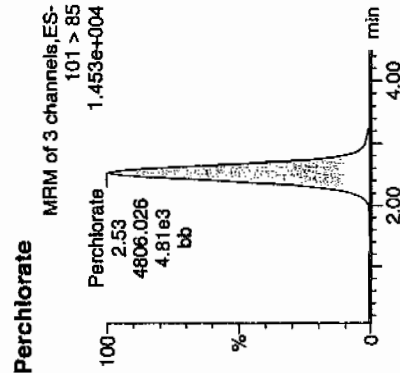
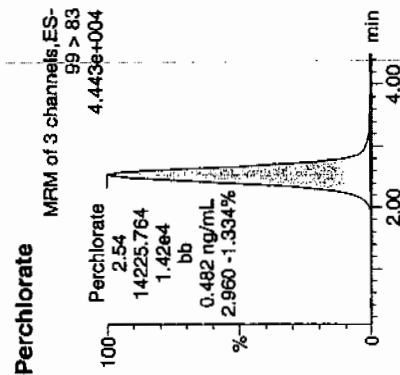
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

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Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201020a
Date: 01-Feb-2010
Time: 17:08:09
ID: WCL100128-06CCV
Vial: 1:2A

*Pure
02-02-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.54	14225.764	14225.764	bb			0.4821	96.42	-3.58	786.613	2.96
WCL100128-06CCV	Perchlorate-101	101 > 85	2.53	4806.026	4806.026	bb			0.4947	98.95	-1.05	491.086	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.51	11571.769	11571.769	bb			0.4637	92.73	-7.27	6320.0...	

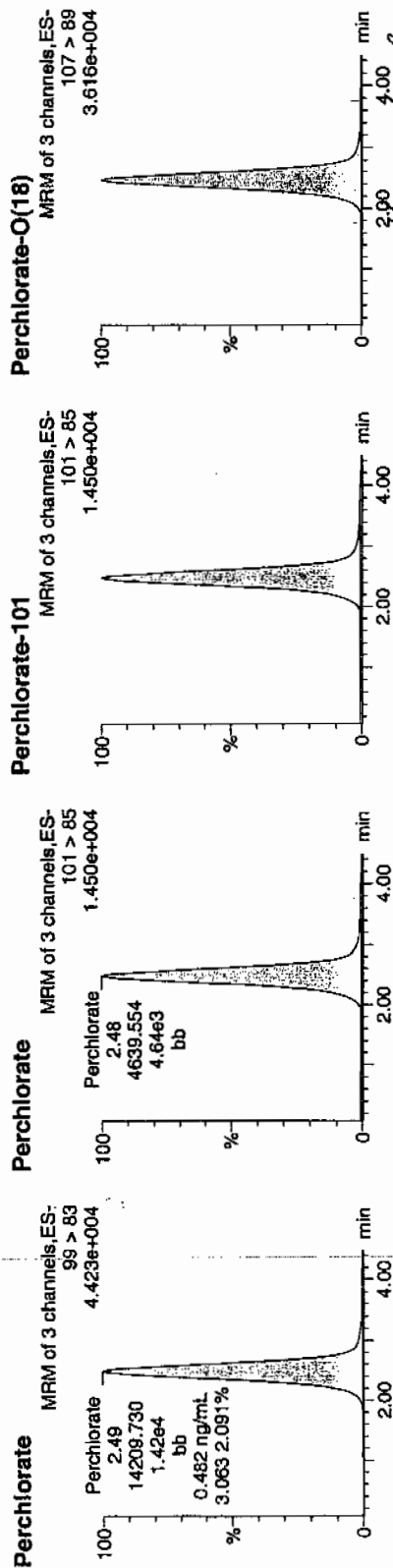
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

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Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201033a
Date: 01-Feb-2010
Time: 18:46:14
ID: WCL100128-06CCV
Vial: 1:2,A

Pure
and
02-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.49	14209.730	14209.730	bb			0.4815	96.31	-3.69	2292.7...	3.06
WCL100128-06CCV	Perchlorate-101	101 > 85	2.48	4639.554	4639.554	bb			0.4776	95.52	-4.48	923.216	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.48	11667.697	11667.697	bb			0.4675	93.50	-6.50	1169.8...	

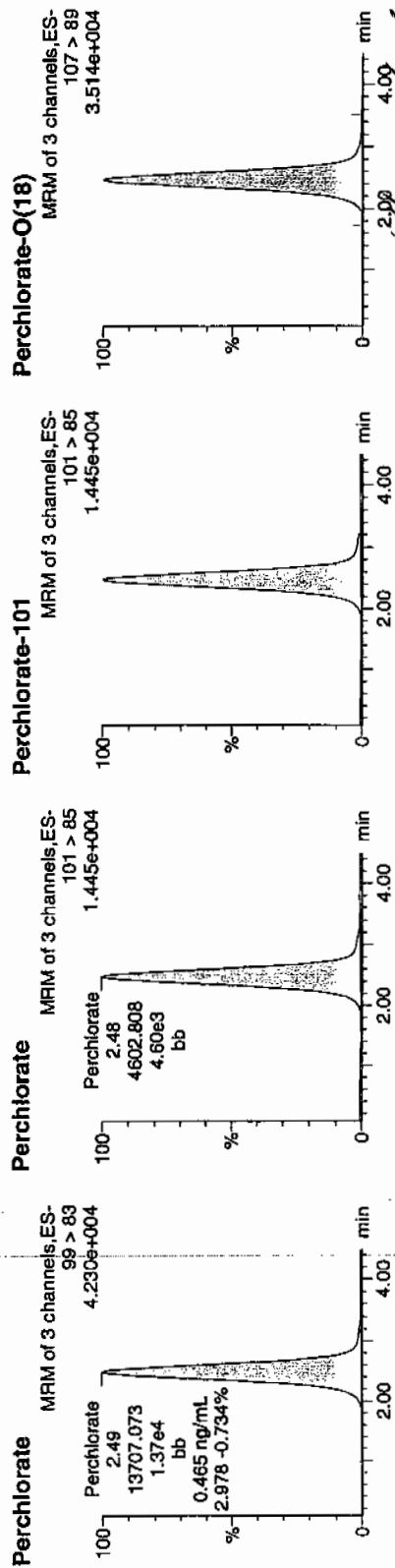
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

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Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201046a
Date: 01-Feb-2010
Time: 20:24:29
ID: WCL100128-06CCV
Vial: 1:2,A

Per0201046a
02-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	on Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.49	13707.073	13707.073	bb			0.4645	92.90	-7.10	6224.1...	2.98
WCL100128-06CCV	Perchlorate-101	101 > 85	2.48	4602.808	4602.808	bb			0.4738	94.76	-5.24	263.218	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.46	11264.321	11264.321	bb			0.4513	90.27	-9.73	8833.5...	

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1325-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	100.09	01-FEB-10 16:00	per0201011a
Perchlorate Isotope Ratio		2.95		01-FEB-10 16:00	per0201011a
Perchlorate-101	.05	.05	102.95	01-FEB-10 16:00	per0201011a
Perchlorate	.05	.05	93.07	01-FEB-10 17:23	per0201022a
Perchlorate Isotope Ratio		3		01-FEB-10 17:23	per0201022a
Perchlorate-101	.05	.05	94.25	01-FEB-10 17:23	per0201022a
Perchlorate	.05	.05	92.48	01-FEB-10 19:01	per0201035a
Perchlorate Isotope Ratio		2.74		01-FEB-10 19:01	per0201035a
Perchlorate-101	.05	.05	102.43	01-FEB-10 19:01	per0201035a
Perchlorate	.05	.05	91.45	01-FEB-10 20:39	per0201048a
Perchlorate Isotope Ratio		3.34		01-FEB-10 20:39	per0201048a

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1325-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.04	83.22	01-FEB-10 20:39	per0201048a
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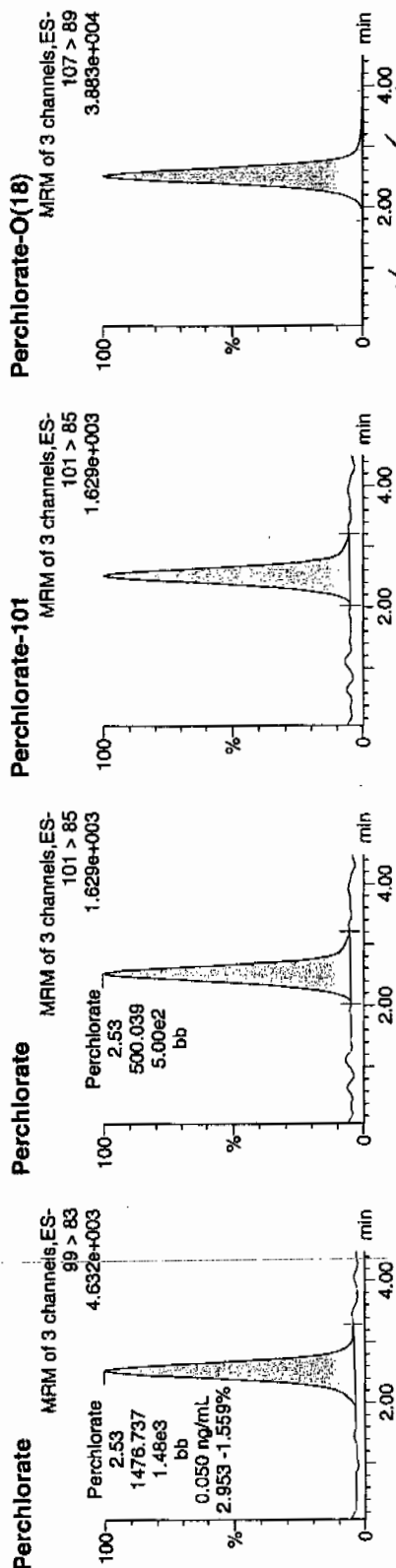
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201011a
Date: 01-Feb-2010
Time: 16:00:14
ID: WCL100128-07CRI
Vial: 1:2,B

*Pass
and
02-02-10*



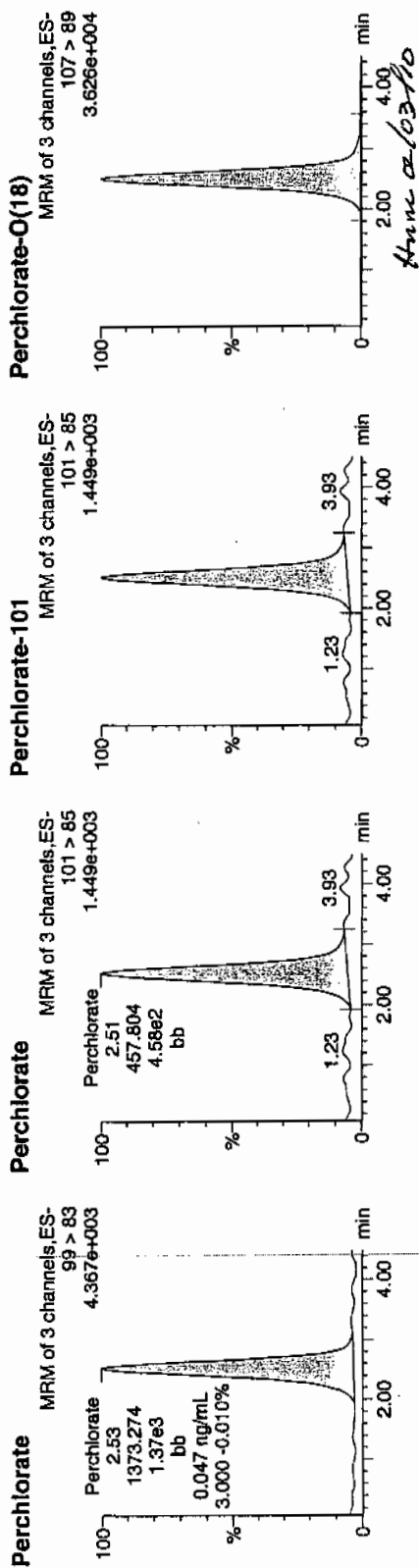
ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
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WCL100128-07CRI	Perchlorate-101	101 > 85	2.53	500.039	500.039	bb			0.0515	102.95	2.95	65.424	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.51	12467.722	12467.722	bb			0.4996	99.91	-0.09	1252.1...	

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

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Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201022a
Date: 01-Feb-2010
Time: 17:23:13
ID: WCL100128-07CRI
Vial: 1:2,B

Page 33 of 33



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.53	1373.274	1373.274	bb			0.0465	93.07	-6.93	234.582	3.00
WCL100128-07CRI	Perchlorate-101	101 > 85	2.51	457.804	457.804	bb			0.0471	94.25	-5.75	66.529	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.50	11662.440	11662.440	bb			0.4673	93.46	-6.54	3818.4...	

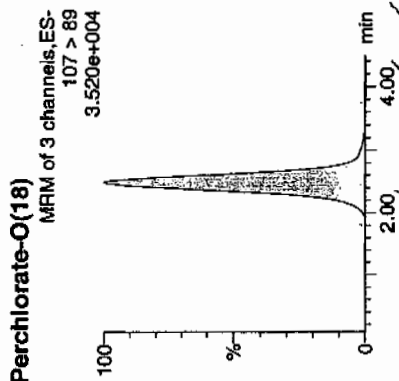
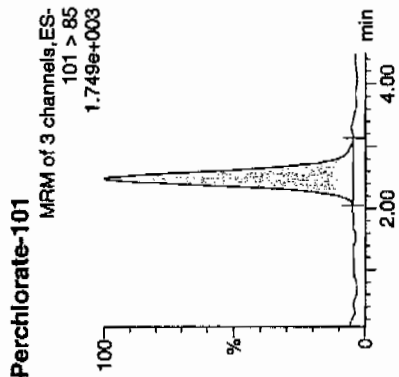
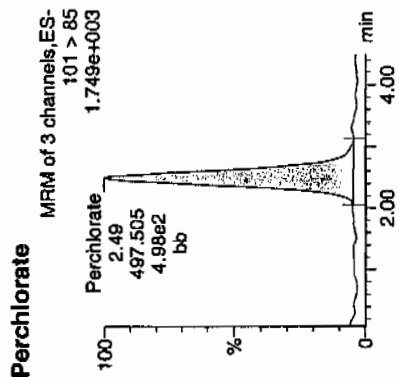
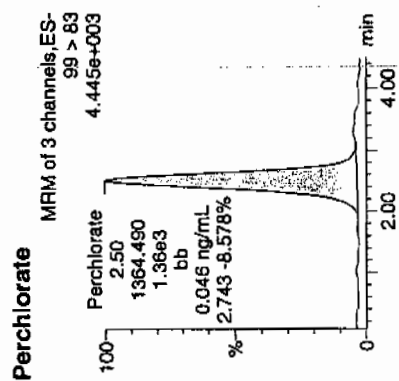
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201035a
Date: 01-Feb-2010
Time: 19:01:19
ID: WCL100128-07CRI
Vial: 1:2,B

*Purs
WCL
02-02-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.50	1364.490	1364.490	bb			0.0462	92.48	-7.52	124.313	2.74
WCL100128-07CRI	Perchlorate-101	101 > 85	2.49	497.505	497.505	bb			0.0512	102.43	2.43	233.335	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.49	11314.174	11314.174	bb			0.4533	90.67	-9.33	3148.7...	

Quantify Sample Report MassLynx 4.0 SP4

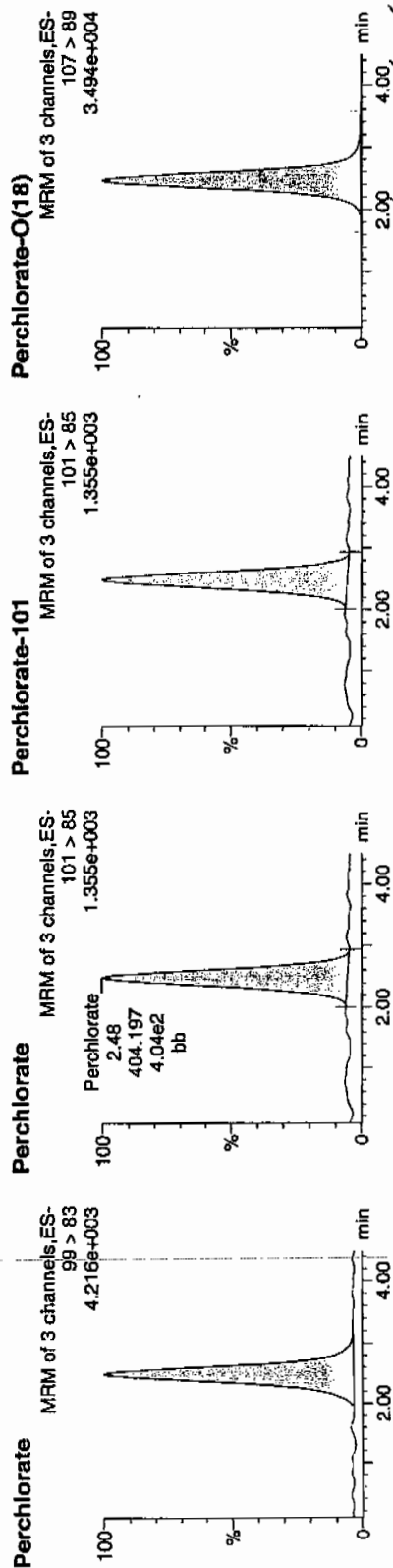
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

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Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201048a
Date: 01-Feb-2010
Time: 20:39:34
ID: WCL100128-07CRI
Vial: 1:2,B

Per
and
02-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.48	1349.276	1349.276	bb			0.0457	91.45	-8.55	181.749	3.34
WCL100128-07CRI	Perchlorate-101	101 > 85	2.48	404.197	404.197	bb			0.0416	83.22	-16.78	309.135	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.48	11204.420	11204.420	bb			0.4489	89.79	-10.21	1822.4...	

QUALITY CONTROL

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

MB

Date Received: 30-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 1202024354

Date Filtered: 30-JAN-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	01-FEB-10 16:37	per0201016a
	Perchlorate Isotope Ratio						1	01-FEB-10 16:37	per0201016a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	01-FEB-10 16:37	per0201016a
	Perchlorate-O(18)			4.49	ug/kg		1	01-FEB-10 16:37	per0201016a

[^] 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\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
 Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201016a

Date: 01-Feb-2010

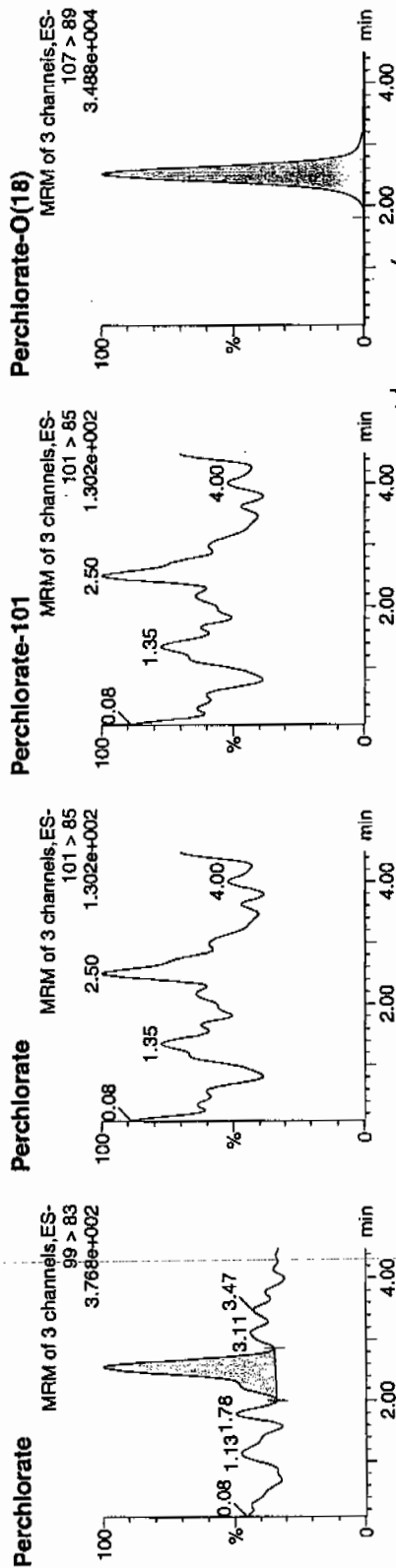
Time: 16:37:58

ID: 1202024354

Vial: 1:4,A

02-01-10

1202024354 | 1202024354 | 1202024354



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024354	Perchlorate	99 > 83	2.55	79.743	79.743	bb			0.0027			19.503	0.00
1202024354	Perchlorate-101	101 > 85											
1202024354	Perchlorate-O(18)	107 > 89	2.51	11193.584	11193.584	bb			0.4485	89.70	-10.30	4765.3...	

Have a look

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

LCS

Date Received: 30-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 1202024355

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	1.97	ug/kg	J	1	01-FEB-10 16:45	per0201017a
	Perchlorate Isotope Ratio			2.75			1	01-FEB-10 16:45	per0201017a
14797-73-0	Perchlorate-101	.5	2	2.18	ug/kg		1	01-FEB-10 16:45	per0201017a
	Perchlorate-O(18)			4.69	ug/kg		1	01-FEB-10 16:45	per0201017a

[^] 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

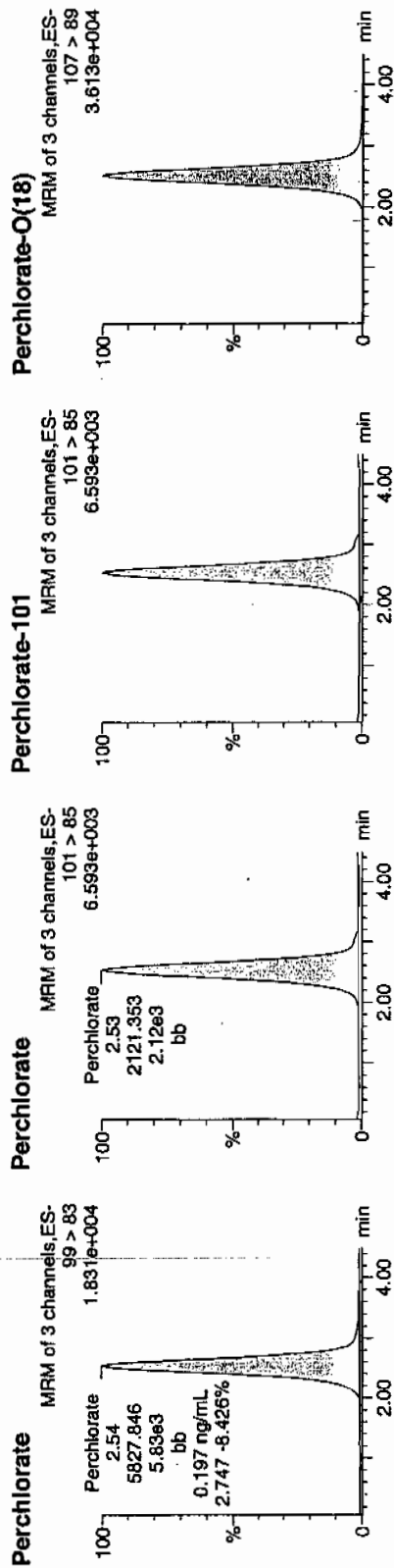
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201017a
Date: 01-Feb-2010
Time: 16:45:31
ID: 1202024355
Vial: 1:4,B

02-02-10

1202024355 | 5827.846 | 2121.353 | 2.53 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024355	Perchlorate	99 > 83	2.54	5827.846	5827.846	bb			0.1975	98.75	-1.25	997.368	2.75
1202024355	Perchlorate-101	101 > 85	2.53	2121.353	2121.353	bb			0.2184	109.19	9.19	779.616	
1202024355	Perchlorate-O(18)	107 > 89	2.53	11708.824	11708.824	bb			0.4692	93.83	-6.17	2545.5...	

$$\frac{5827.846}{29509} = 0.1975$$

4/11/10

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: 945204

Extraction Type: Solid Prep

Client Sample No.

RE15-10-841IMS

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 1202024356

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 85

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	.591	2.36	3.28	ug/kg		1	01-FEB-10 17:38	per0201024a
	Perchlorate Isotope Ratio			2.86			1	01-FEB-10 17:38	per0201024a
14797-73-0	Perchlorate-101	.591	2.36	3.48	ug/kg		1	01-FEB-10 17:38	per0201024a
	Perchlorate-O(18)			6.71	ug/kg		1	01-FEB-10 17:38	per0201024a

[^] 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\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201024a

Date: 01-Feb-2010

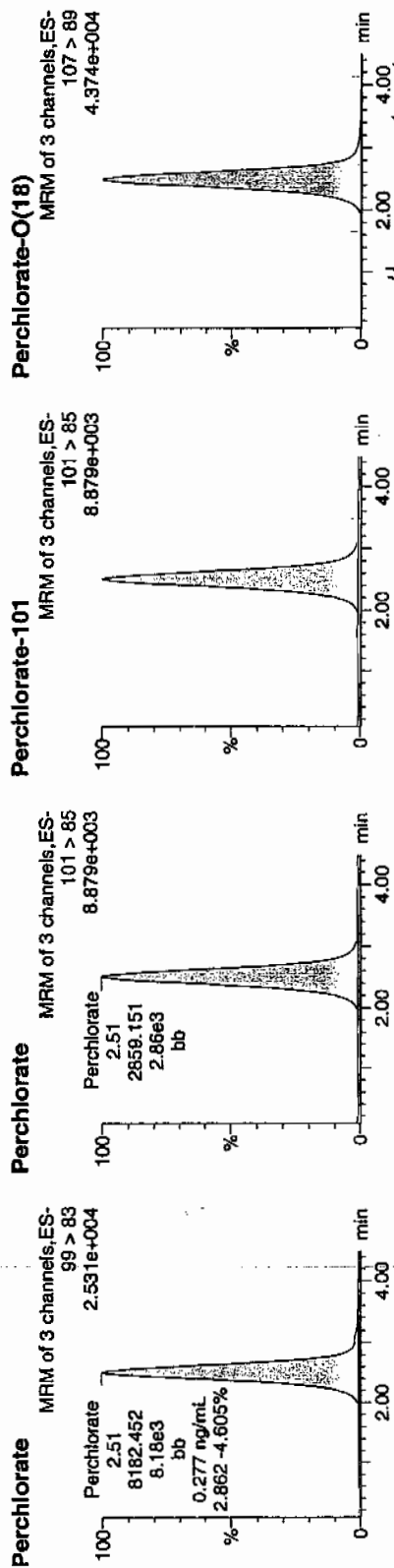
Time: 17:38:18

ID: 1202024356

Vial: 1:4,F

02-02-10

10001945200 | 5020 | MS | 1 | 1



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202024356	Perchlorate	99 > 83	2.51	8182.452	8182.452	bb			0.2773	138.64	-38.64	1469.7...	2.86
1202024356	Perchlorate-101	101 > 85	2.51	2859.151	2859.151	bb			0.2943	147.16	47.16	467.560	
1202024356	Perchlorate-O(18)	107 > 89	2.50	14173.000	14173.000	bb			0.5679	113.58	-13.58	7404.9...	

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: 945204

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8411MSD

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1325-1

GEL Sample ID: 1202024357

Date Filtered: 30-JAN-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.591	2.36	3.40	ug/kg		1	01-FEB-10 17:45	per0201025a
	Perchlorate Isotope Ratio			2.98			1	01-FEB-10 17:45	per0201025a
14797-73-0	Perchlorate-101	.591	2.36	3.46	ug/kg		1	01-FEB-10 17:45	per0201025a
	Perchlorate-O(18)			6.93	ug/kg		1	01-FEB-10 17:45	per0201025a

[^] 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

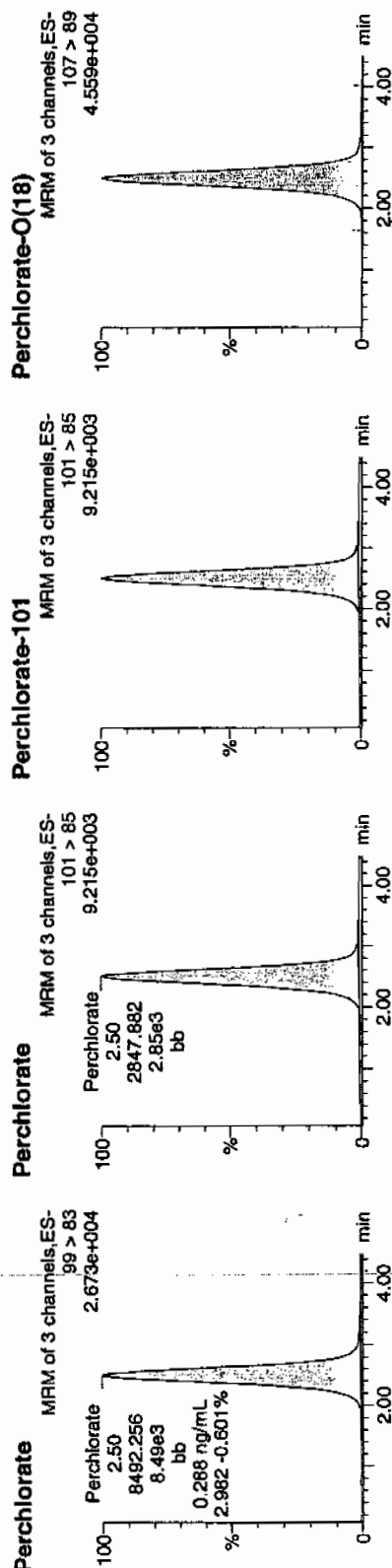
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
 Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

Name: per0201025a
 Date: 01-Feb-2010
 Time: 17:45:50
 ID: 1202024357
 Vial: 1:5A

02-02-10

1202024357 | 1202024357 | 1202024357 | 1202024357



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ratio
1202024357	Perchlorate	99 > 83	2.50	8492.256	8492.256	bb			0.2878	143.89	43.89	2087.2...	2.98
1202024357	Perchlorate-101	101 > 85	2.50	2847.882	2847.882	bb			0.2932	146.58	46.58	1011.3...	
1202024357	Perchlorate-O(18)	107 > 89	2.49	14631.627	14631.627	bb			0.5863	117.25	17.25	5561.2...	

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: 945204 Verified by: _____
 Analyst: Jareth Shirley
 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)
1203024354 MB	30-JAN-2010 12:09:17	2	20	10
1203024355 LCS	30-JAN-2010 12:09:17	2	20	10
245113001	30-JAN-2010 12:09:17	2	20	10
245113002	30-JAN-2010 12:09:17	2	20	10
1203024356 MS (245113002)	30-JAN-2010 12:09:17	2	20	10
1203024357 MSD (245113002)	30-JAN-2010 12:09:17	2	20	10
245113003	30-JAN-2010 12:09:17	2	20	10
245113004	30-JAN-2010 12:09:17	2	20	10
245113005	30-JAN-2010 12:09:17	2	20	10
245113006	30-JAN-2010 12:09:17	2	20	10
245113007	30-JAN-2010 12:09:17	2	20	10
245113008	30-JAN-2010 12:09:17	2	20	10
245113009	30-JAN-2010 12:09:17	2	20	10
245113010	30-JAN-2010 12:09:17	2	20	10
245113011	30-JAN-2010 12:09:17	2	20	10
245113012	30-JAN-2010 12:09:17	2	20	10
245113013	30-JAN-2010 12:09:17	2	20	10
245113014	30-JAN-2010 12:09:17	2	20	10
245371001	30-JAN-2010 12:09:17	2	20	10
245371002	30-JAN-2010 12:09:17	2	20	10
245372002	30-JAN-2010 12:09:17	2	20	10
245372003	30-JAN-2010 12:09:17	2	20	10
245372004	30-JAN-2010 12:09:17	2	20	10
1203024358 LCS	30-JAN-2010 12:09:17	2	20	10

Comments:

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments
LCS	1203024358	10 ug/L ICV/KCV Second Source	UCL091130-01.2	.4	mL	Desalting cartridges used: 090406-1-Ba & 091130-1-H
LCS	1203024355	10 ug/L ICV/KCV Second Source	UCL091130-01.2	.4	mL	
MS	1203024356	10 ug/L ICV/KCV Second Source	UCL091130-01.2	.4	mL	
MSD	1203024357	10 ug/L ICV/KCV Second Source	UCL091130-01.2	.4	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 02/01/10
 Extr. Injection Volume: 20uL
 Sequence Number: per020110a
 Initial Calibration Date: 02/01/10

Method: EPA 6850-Modified
 Int. Std.: UCL100122-01
 Mobile Phase Lot#: 1254342, 1246195
 Standard-Samp Reagent Lot#: 1233976

Reviewed BY: *Hnik*
 Date: *02/03/10*
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100128-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0201001a	IPB001	CWW	2/1/2010 14:44			1		USE	B
per0201002a	IPB001	CWW	2/1/2010 14:52			1		USE	B
per0201003a	WCLICAL-01	CWW	2/1/2010 15:00			1		USE	I
per0201004a	WCLICAL-02	CWW	2/1/2010 15:07			1		USE	I
per0201005a	WCLICAL-03	CWW	2/1/2010 15:15			1		USE	I
per0201006a	WCLICAL-04	CWW	2/1/2010 15:22			1		USE	I
per0201007a	WCLICAL-05	CWW	2/1/2010 15:30			1		USE	I
per0201008a	IPB002	CWW	2/1/2010 15:37			1		USE	B
per0201009a	WCLICV	CWW	2/1/2010 15:45			1		USE	C
per0201010a	IPB003	CWW	2/1/2010 15:52			1		USE	B
per0201011a	WCLCRI	CWW	2/1/2010 16:00			1		USE	C
per0201012a	245777001	CWW	2/1/2010 16:07	947199	10-1458	10	LANL	USE	S
per0201013a	245777005	CWW	2/1/2010 16:15	947199	10-1458	10	LANL	USE	S
per0201014a	245807001	CWW	2/1/2010 16:22	947199	10-1474-1	1	LANL	USE	S
per0201015a	IPB004	CWW	2/1/2010 16:30			1		USE	B
per0201016a	1202024354	CWW	2/1/2010 16:37	945206	VARIOUS	1	LANL	USE	S
per0201017a	1202024355	CWW	2/1/2010 16:45	945206	VARIOUS	1	LANL	USE	S
per0201018a	1202024358	CWW	2/1/2010 16:53	945206	VARIOUS	1	LANL	USE	S
per0201019a	245113001	CWW	2/1/2010 17:00	945206	10-1325-1	1	LANL	USE	S
per0201020a	WCLCCV	CWW	2/1/2010 17:08			1		USE	C
per0201021a	IPB005	CWW	2/1/2010 17:15			1		USE	B
per0201022a	WCLCRI	CWW	2/1/2010 17:23			1		USE	C
per0201023a	245113002	CWW	2/1/2010 17:30	945206	10-1325-1	1	LANL	USE	S
per0201024a	1202024356	CWW	2/1/2010 17:38	945206	10-1325-1	1	LANL	USE	S
per0201025a	1202024357	CWW	2/1/2010 17:45	945206	10-1325-1	1	LANL	USE	S
per0201026a	245113003	CWW	2/1/2010 17:53	945206	10-1325-1	1	LANL	USE	S
per0201027a	245113004	CWW	2/1/2010 18:00	945206	10-1325-1	1	LANL	USE	S
per0201028a	245113005	CWW	2/1/2010 18:08	945206	10-1325-1	1	LANL	USE	S
per0201029a	245113006	CWW	2/1/2010 18:16	945206	10-1325-1	1	LANL	USE	S

per0201030a	245113007	CWW	2/1/2010 18:23	945206	10-1325-1	1	LANL	USE	S
per0201031a	245113008	CWW	2/1/2010 18:31	945206	10-1325-1	1	LANL	USE	S
per0201032a	245113009	CWW	2/1/2010 18:38	945206	10-1325-1	1	LANL	USE	S
per0201033a	WCLCCV	CWW	2/1/2010 18:46			1		USE	C
per0201034a	IPB006	CWW	2/1/2010 18:53			1		USE	B
per0201035a	WCLCRI	CWW	2/1/2010 19:01			1		USE	C
per0201036a	245113010	CWW	2/1/2010 19:08	945206	10-1325-1	1	LANL	USE	S
per0201037a	245113011	CWW	2/1/2010 19:16	945206	10-1325-1	1	LANL	USE	S
per0201038a	245113012	CWW	2/1/2010 19:24	945206	10-1325-1	1	LANL	USE	S
per0201039a	245113013	CWW	2/1/2010 19:31	945206	10-1325-1	1	LANL	USE	S
per0201040a	245113014	CWW	2/1/2010 19:39	945206	10-1325-1	1	LANL	USE	S
per0201041a	245371001	CWW	2/1/2010 19:46	945206	10-1374	1	LANL	USE	S
per0201042a	245371002	CWW	2/1/2010 19:54	945206	10-1374	1	LANL	USE	S
per0201043a	245372002	CWW	2/1/2010 20:01	945206	10-1375	1	LANL	USE	S
per0201044a	245372003	CWW	2/1/2010 20:09	945206	10-1375	1	LANL	USE	S
per0201045a	245372004	CWW	2/1/2010 20:16	945206	10-1375	1	LANL	USE	S
per0201046a	WCLCCV	CWW	2/1/2010 20:24			1		USE	C
per0201047a	IPB007	CWW	2/1/2010 20:32			1		USE	B
per0201048a	WCLCRI	CWW	2/1/2010 20:39			1		USE	C
per0201049a	1202024390	CWW	2/1/2010 20:47	945227	VARIOUS	1	LANL	USE	S
per0201050a	1202024391	CWW	2/1/2010 20:54	945227	VARIOUS	1	LANL	USE	S
per0201051a	1202024399	CWW	2/1/2010 21:02	945227	VARIOUS	1	LANL	USE	S
per0201052a	245250001	CWW	2/1/2010 21:09	945227	10-1351-1	1	LANL	USE	S
per0201053a	245250002	CWW	2/1/2010 21:17	945227	10-1351-1	1	LANL	USE	S
per0201054a	245373001	CWW	2/1/2010 21:24	945227	10-1375-1	1	LANL	USE	S
per0201055a	245375001	CWW	2/1/2010 21:32	945227	10-1373-1	1	LANL	USE	S
per0201056a	1202024392	CWW	2/1/2010 21:40	945227	10-1373-1	1	LANL	USE	S
per0201057a	1202024393	CWW	2/1/2010 21:47	945227	10-1373-1	1	LANL	USE	S
per0201058a	WCLCCV	CWW	2/1/2010 21:55			1		USE	C
per0201059a	IPB008	CWW	2/1/2010 22:02			1		USE	B
per0201060a	WCLCRI	CWW	2/1/2010 22:10			1		USE	C
per0201061a	245375002	CWW	2/1/2010 22:17	945227	10-1373-1	1	LANL	USE	S
per0201062a	245378001	CWW	2/1/2010 22:25	945227	10-1378-1	1	LANL	USE	S
per0201063a	245378002	CWW	2/1/2010 22:33	945227	10-1378-1	1	LANL	USE	S
per0201064a	245382001	CWW	2/1/2010 22:40	945227	10-1381	1	LANL	USE	S
per0201065a	245386001	CWW	2/1/2010 22:48	945227	10-1383-1	1	LANL	USE	S
per0201066a	245390001	CWW	2/1/2010 22:55	945227	10-1386-1	1	LANL	USE	S

S S C B C

USE
USE
USE
USE
USE

LANL
LANL

1
1
1
1
1

10-1390-1
10-1390-1

945227
945227

2/1/2010 23:03
2/1/2010 23:10
2/1/2010 23:18
2/1/2010 23:26
2/1/2010 23:33

CWW
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CWW
CWW
CWW

245392001
245392002
WCLCCV
IPB009
WCLCRI

per0201067a
per0201068a
per0201069a
per0201070a
per0201071a

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 786124
Revision No.: 1

DATA EXCEPTION REPORT			
Mo. Day Yr. 02-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 6850 Modified	Matrix Type: Solid	Client Code: LANL
Batch ID: 945206	Sample Numbers: See Below		
<p>Potentially affected work order(s)(SDG): 245113(10-1325-1), 245371(10-1374), 245372(10-1375)</p> <p>Application Issues:</p> <p>Failed Recovery for MSD/PSD</p> <p>Failed Recovery for MS/PS</p>			
Specification and Requirements Exception Description:		DER Disposition:	
<p>1. High recovery of Perchlorate-101 was observed in both 1202024356 (MS) and 1202024357(MSD). The recoveries were 129% and 128%, respectively. The acceptance range is 75-125%.</p>		<p>1. The high recovery in both matrix spikes may be the result of the background concentration present in the parent sample, 245113002, and/or matrix effect.</p>	

Originator's Name:
Charles Wilson 03-FEB-10

Data Validator/Group Leader:
Herbert Maier 03-FEB-10

Isotope Ratio Criteria

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

2.31-3.85

Tune Criteria

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

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1325**

Sample Analysis

Sample ID	Client ID
245112001	RE15-10-8442
1202021499	Method Blank (MB) ICP
1202021500	Laboratory Control Sample (LCS)
1202021503	245120001(RE15-10-7226L) Serial Dilution (SD)
1202021501	245120001(RE15-10-7226D) Sample Duplicate (DUP)
1202021502	245120001(RE15-10-7226S) Matrix Spike (MS)
1202021504	Method Blank (MB) ICP-MS
1202021505	Laboratory Control Sample (LCS)
1202021508	245120001(RE15-10-7226L) Serial Dilution (SD)
1202021506	245120001(RE15-10-7226D) Sample Duplicate (DUP)
1202021507	245120001(RE15-10-7226S) Matrix Spike (MS)
1202024759	Method Blank (MB) CVAA
1202024760	Laboratory Control Sample (LCS)
1202024763	245120001(RE15-10-7226L) Serial Dilution (SD)
1202024761	245120001(RE15-10-7226D) Sample Duplicate (DUP)
1202024762	245120001(RE15-10-7226S) Matrix Spike (MS)

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

Method/Analysis Information

Analytical Batch:	944077, 944080 and 945393
Prep Batch :	944076, 944079 and 945391
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 4300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The Metals analysis - ICPMS was performed on a Perkin Elmer ELAN 6100E inductively coupled plasma mass spectrometer (ICP-MS). The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 360+/-7 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial lens voltage of 5.2.

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits with the exception of selenium that recovered outside of the advisory control limits of 70-130%.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

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 sample was selected as the quality control (QC) sample for this SDG: 245120001 (RE15-10-7226)-ICP, ICP-MS and CVAA.

Matrix Spike (MS) Recovery Statement

The percent recoveries (%R) obtained from the MS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. All applicable elements met the acceptance criteria.

Duplicate Relative Percent Difference (RPD) Statement

The RPD obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is >5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control of +/-RL is used to evaluate the DUP results. All applicable analytes met these requirements.

Serial Dilution % Difference Statement

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

Technical Information**Holding Time Specifications**

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

on the day of expiration. All samples in this SDG met the specified holding time.

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG did not require dilutions.

Preparation Information

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

Miscellaneous Information**Electronic Packaging Comment**

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

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

Data Exception (DER) Documentation

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

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Nik-Cole Elmore Date: 2.15.10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245112001

BASIS: As Received

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8442

LEVEL: Low

DATE RECEIVED 20-JAN-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	01/29/10 15:45	012910-1	944077
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/29/10 21:26	100129-8	944080
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/30/10 13:28	100130-9	944080
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/29/10 21:26	100129-8	944080
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/29/10 15:45	012910-1	944077
7439-89-6	Iron	48.8	ug/L	J	30	100	100	1	P	HSC	01/29/10 15:45	012910-1	944077
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/29/10 21:26	100129-8	944080
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/29/10 15:45	012910-1	944077
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	01/30/10 13:28	100130-9	944080
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/02/10 09:57	020210W1-13	945393
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-09-7	Potassium	128	ug/L	J	50	150	150	1	P	HSC	01/29/10 15:45	012910-1	944077
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-23-5	Sodium	300	ug/L	U	100	300	300	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	02/06/10 01:09	100205-2	944080
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/29/10 13:36	100129-3	944080
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:45	012910-1	944077
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/29/10 15:45	012910-1	944077

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944077	944076	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
944080	944079	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
945393	945391	SW846 7470A Prep	20	mL	20	mL	02/01/10	TXB3

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Aluminum	5000	ug/L	5000	ug/L	100.1	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Arsenic	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Barium	538	ug/L	500	ug/L	107.6	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Calcium	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Chromium	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Cobalt	538	ug/L	500	ug/L	107.7	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Copper	539	ug/L	500	ug/L	107.8	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Iron	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Magnesium	4810	ug/L	5000	ug/L	96.2	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Nickel	495	ug/L	500	ug/L	99	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Potassium	2430	ug/L	2500	ug/L	97.2	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Selenium	2750	ug/L	2500	ug/L	109.9	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Silver	258	ug/L	250	ug/L	103.2	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Sodium	2420	ug/L	2500	ug/L	97	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Vanadium	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Zinc	505	ug/L	500	ug/L	101	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Uranium	52.7	ug/L	50	ug/L	105.5	90.0 – 110.0	MS	29-JAN-10 12:01	100129-3
	Antimony	50.9	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	29-JAN-10 20:43	100129-8
	Cadmium	49.2	ug/L	50	ug/L	98.5	90.0 – 110.0	MS	29-JAN-10 20:43	100129-8
	Lead	52.1	ug/L	50	ug/L	104.3	90.0 – 110.0	MS	29-JAN-10 20:43	100129-8
	Beryllium	52.4	ug/L	50	ug/L	104.9	90.0 – 110.0	MS	30-JAN-10 12:55	100130-9
	Manganese	52.5	ug/L	50	ug/L	104.9	90.0 – 110.0	MS	30-JAN-10 12:55	100130-9
	Mercury	5.09	ug/L	5	ug/L	101.7	90.0 – 110.0	AV	02-FEB-10 09:32	020210W1-13
	Thallium	49.3	ug/L	50	ug/L	98.6	90.0 – 110.0	MS	06-FEB-10 00:28	100205-2
CCV01										
	Aluminum	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Arsenic	529	ug/L	500	ug/L	105.8	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Barium	525	ug/L	500	ug/L	105	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Chromium	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 07:10	012910-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cobalt	526	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Copper	528	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Iron	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Magnesium	5210	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Nickel	525	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Potassium	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Selenium	542	ug/L	500	ug/L	108.5	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Silver	532	ug/L	500	ug/L	106.4	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Sodium	10100	ug/L	10000	ug/L	101.4	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Vanadium	531	ug/L	500	ug/L	106.2	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Zinc	523	ug/L	500	ug/L	104.6	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Uranium	51.8	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	29-JAN-10 12:12	100129-3
	Antimony	51	ug/L	50	ug/L	102	90.0 – 110.0	MS	29-JAN-10 21:01	100129-8
	Cadmium	48.8	ug/L	50	ug/L	97.6	90.0 – 110.0	MS	29-JAN-10 21:01	100129-8
	Lead	51.5	ug/L	50	ug/L	102.9	90.0 – 110.0	MS	29-JAN-10 21:01	100129-8
	Beryllium	51.9	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	30-JAN-10 13:07	100130-9
	Manganese	50.8	ug/L	50	ug/L	101.5	90.0 – 110.0	MS	30-JAN-10 13:07	100130-9
	Mercury	4.97	ug/L	5	ug/L	99.5	80.0 – 120.0	AV	02-FEB-10 09:38	020210W1-13
	Thallium	49.1	ug/L	50	ug/L	98.2	90.0 – 110.0	MS	06-FEB-10 00:51	100205-2
CCV02	Aluminum	5090	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Arsenic	529	ug/L	500	ug/L	105.8	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Barium	527	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Chromium	526	ug/L	500	ug/L	105.3	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Cobalt	526	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Copper	529	ug/L	500	ug/L	105.9	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Iron	5100	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Magnesium	5210	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Nickel	527	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 07:21	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Potassium	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Selenium	542	ug/L	500	ug/L	108.5	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Silver	534	ug/L	500	ug/L	106.9	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Sodium	10100	ug/L	10000	ug/L	101.4	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Vanadium	533	ug/L	500	ug/L	106.5	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Zinc	524	ug/L	500	ug/L	104.8	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Uranium	51.9	ug/L	50	ug/L	103.9	90.0 - 110.0	MS	29-JAN-10 12:30	100129-3
	Antimony	54.4	ug/L	50	ug/L	108.8	90.0 - 110.0	MS	29-JAN-10 21:12	100129-8
	Cadmium	51.7	ug/L	50	ug/L	103.4	90.0 - 110.0	MS	29-JAN-10 21:12	100129-8
	Lead	53.2	ug/L	50	ug/L	106.3	90.0 - 110.0	MS	29-JAN-10 21:12	100129-8
	Beryllium	51	ug/L	50	ug/L	102.1	90.0 - 110.0	MS	30-JAN-10 13:14	100130-9
	Manganese	51.1	ug/L	50	ug/L	102.2	90.0 - 110.0	MS	30-JAN-10 13:14	100130-9
	Mercury	5.08	ug/L	5	ug/L	101.6	80.0 - 120.0	AV	02-FEB-10 10:01	020210W1-13
	Thallium	49.1	ug/L	50	ug/L	98.2	90.0 - 110.0	MS	06-FEB-10 01:32	100205-2
CCV03	Aluminum	5010	ug/L	5000	ug/L	100.2	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Arsenic	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Barium	514	ug/L	500	ug/L	102.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Calcium	4990	ug/L	5000	ug/L	99.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Chromium	514	ug/L	500	ug/L	102.7	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Cobalt	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Copper	517	ug/L	500	ug/L	103.3	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Iron	5100	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Magnesium	5150	ug/L	5000	ug/L	102.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Nickel	512	ug/L	500	ug/L	102.5	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Potassium	5120	ug/L	5000	ug/L	102.4	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Selenium	532	ug/L	500	ug/L	106.3	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Silver	523	ug/L	500	ug/L	104.6	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Sodium	9990	ug/L	10000	ug/L	99.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Vanadium	521	ug/L	500	ug/L	104.3	90.0 - 110.0	P	29-JAN-10 07:31	012910-1

SW846

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Zinc	511	ug/L	500	ug/L	102.3	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Uranium	50.8	ug/L	50	ug/L	101.7	90.0 - 110.0	MS	29-JAN-10 12:50	100129-3
	Antimony	50.7	ug/L	50	ug/L	101.3	90.0 - 110.0	MS	29-JAN-10 21:44	100129-8
	Cadmium	48.7	ug/L	50	ug/L	97.4	90.0 - 110.0	MS	29-JAN-10 21:44	100129-8
	Lead	51.7	ug/L	50	ug/L	103.5	90.0 - 110.0	MS	29-JAN-10 21:44	100129-8
	Beryllium	50.1	ug/L	50	ug/L	100.3	90.0 - 110.0	MS	30-JAN-10 13:24	100130-9
	Manganese	50.5	ug/L	50	ug/L	100.9	90.0 - 110.0	MS	30-JAN-10 13:24	100130-9
	Mercury	5.08	ug/L	5	ug/L	101.7	80.0 - 120.0	AV	02-FEB-10 10:24	020210W1-13
CCV04	Aluminum	5130	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Arsenic	512	ug/L	500	ug/L	102.5	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Barium	514	ug/L	500	ug/L	102.9	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Calcium	4900	ug/L	5000	ug/L	98	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Chromium	515	ug/L	500	ug/L	102.9	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Cobalt	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Copper	522	ug/L	500	ug/L	104.3	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Iron	5180	ug/L	5000	ug/L	103.6	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Magnesium	5200	ug/L	5000	ug/L	103.9	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Nickel	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Potassium	5200	ug/L	5000	ug/L	104.1	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Selenium	522	ug/L	500	ug/L	104.4	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Silver	528	ug/L	500	ug/L	105.7	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Sodium	10100	ug/L	10000	ug/L	100.9	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Vanadium	523	ug/L	500	ug/L	104.6	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Zinc	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	29-JAN-10 08:11	012910-1
	Uranium	48.3	ug/L	50	ug/L	96.5	90.0 - 110.0	MS	29-JAN-10 13:12	100129-3
	Beryllium	50.3	ug/L	50	ug/L	100.6	90.0 - 110.0	MS	30-JAN-10 13:40	100130-9
	Manganese	50.9	ug/L	50	ug/L	101.8	90.0 - 110.0	MS	30-JAN-10 13:40	100130-9
CCV05	Aluminum	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 08:55	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Arsenic	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Barium	523	ug/L	500	ug/L	104.6	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Calcium	5060	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Chromium	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Cobalt	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Copper	527	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Iron	5230	ug/L	5000	ug/L	104.5	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Magnesium	5300	ug/L	5000	ug/L	106.1	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Nickel	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Potassium	5310	ug/L	5000	ug/L	106.1	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Selenium	541	ug/L	500	ug/L	108.2	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Silver	534	ug/L	500	ug/L	106.8	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Sodium	10300	ug/L	10000	ug/L	102.5	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Vanadium	530	ug/L	500	ug/L	105.9	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Zinc	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 08:55	012910-1
	Uranium	46.8	ug/L	50	ug/L	93.7	90.0 – 110.0	MS	29-JAN-10 13:28	100129-3
CCV06	Aluminum	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Arsenic	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Barium	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Calcium	4950	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Chromium	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Cobalt	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Copper	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Magnesium	5140	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Nickel	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Potassium	5150	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Selenium	538	ug/L	500	ug/L	107.6	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Silver	530	ug/L	500	ug/L	105.9	90.0 – 110.0	P	29-JAN-10 09:14	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Sodium	9900	ug/L	10000	ug/L	99	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Vanadium	527	ug/L	500	ug/L	105.3	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Zinc	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Uranium	46.8	ug/L	50	ug/L	93.7	90.0 – 110.0	MS	29-JAN-10 13:47	100129-3
CCV07	Aluminum	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Arsenic	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Barium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Calcium	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Chromium	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Cobalt	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Copper	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Iron	5090	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Nickel	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Potassium	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Selenium	526	ug/L	500	ug/L	105.3	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Silver	521	ug/L	500	ug/L	104.1	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Sodium	9900	ug/L	10000	ug/L	99	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Vanadium	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Zinc	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
CCV08	Aluminum	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Arsenic	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Barium	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Calcium	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Chromium	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Cobalt	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Copper	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Iron	5200	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	29-JAN-10 10:19	012910-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Magnesium	5250	ug/L	5000	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Nickel	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Potassium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Selenium	542	ug/L	500	ug/L	108.3	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Silver	532	ug/L	500	ug/L	106.4	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Sodium	10100	ug/L	10000	ug/L	100.5	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Vanadium	529	ug/L	500	ug/L	105.7	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Zinc	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
CCV09	Aluminum	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Arsenic	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Barium	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Calcium	4940	ug/L	5000	ug/L	98.8	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Chromium	517	ug/L	500	ug/L	103.3	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Cobalt	515	ug/L	500	ug/L	103	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Copper	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Iron	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Magnesium	5280	ug/L	5000	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Nickel	515	ug/L	500	ug/L	103	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Potassium	5230	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Selenium	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Silver	528	ug/L	500	ug/L	105.6	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Sodium	10100	ug/L	10000	ug/L	100.7	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Vanadium	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Zinc	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
CCV10	Aluminum	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Arsenic	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Barium	526	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Calcium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	29-JAN-10 11:31	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Chromium	525	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Cobalt	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Copper	531	ug/L	500	ug/L	106.2	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Iron	5240	ug/L	5000	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Magnesium	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Nickel	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Potassium	5280	ug/L	5000	ug/L	105.7	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Selenium	535	ug/L	500	ug/L	107	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Silver	537	ug/L	500	ug/L	107.4	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Sodium	10100	ug/L	10000	ug/L	101.1	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Vanadium	533	ug/L	500	ug/L	106.7	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
	Zinc	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 11:31	012910-1
CCV11	Aluminum	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Arsenic	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Barium	527	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Calcium	5040	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Chromium	528	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Cobalt	525	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Copper	533	ug/L	500	ug/L	106.7	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Iron	5260	ug/L	5000	ug/L	105.2	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Magnesium	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Nickel	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Potassium	5280	ug/L	5000	ug/L	105.6	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Selenium	542	ug/L	500	ug/L	108.4	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Silver	538	ug/L	500	ug/L	107.7	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Sodium	10100	ug/L	10000	ug/L	101.4	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Vanadium	536	ug/L	500	ug/L	107.2	90.0 – 110.0	P	29-JAN-10 12:08	012910-1
	Zinc	525	ug/L	500	ug/L	105	90.0 – 110.0	P	29-JAN-10 12:08	012910-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
CCV12										
	Aluminum	5130	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Arsenic	511	ug/L	500	ug/L	102.3	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Barium	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Calcium	4980	ug/L	5000	ug/L	99.5	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Chromium	518	ug/L	500	ug/L	103.5	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Cobalt	517	ug/L	500	ug/L	103.4	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Copper	524	ug/L	500	ug/L	104.9	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Iron	5210	ug/L	5000	ug/L	104.3	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Magnesium	5240	ug/L	5000	ug/L	104.7	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Nickel	518	ug/L	500	ug/L	103.5	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Potassium	5250	ug/L	5000	ug/L	105	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Selenium	519	ug/L	500	ug/L	103.7	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Silver	532	ug/L	500	ug/L	106.3	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Sodium	10100	ug/L	10000	ug/L	100.7	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Vanadium	527	ug/L	500	ug/L	105.3	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Zinc	517	ug/L	500	ug/L	103.4	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
CCV13										
	Aluminum	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Arsenic	500	ug/L	500	ug/L	100	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Barium	508	ug/L	500	ug/L	101.7	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Calcium	4810	ug/L	5000	ug/L	96.2	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Chromium	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Cobalt	507	ug/L	500	ug/L	101.5	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Copper	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Magnesium	5150	ug/L	5000	ug/L	103.1	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Nickel	508	ug/L	500	ug/L	101.6	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Potassium	5180	ug/L	5000	ug/L	103.6	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Selenium	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Silver	517	ug/L	500	ug/L	103.5	90.0 - 110.0	P	29-JAN-10 13:17	012910-1

SW846

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV14	Sodium	9860	ug/L	10000	ug/L	98.6	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Vanadium	517	ug/L	500	ug/L	103.3	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Aluminum	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Arsenic	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Barium	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Calcium	4840	ug/L	5000	ug/L	96.7	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Chromium	512	ug/L	500	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Cobalt	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Copper	515	ug/L	500	ug/L	103	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Iron	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Magnesium	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Nickel	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Potassium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Selenium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Silver	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Sodium	9860	ug/L	10000	ug/L	98.6	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Vanadium	520	ug/L	500	ug/L	103.9	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Zinc	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
CCV15	Aluminum	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Arsenic	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Barium	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Calcium	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Chromium	518	ug/L	500	ug/L	103.7	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Cobalt	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Copper	523	ug/L	500	ug/L	104.7	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Iron	5120	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Magnesium	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 14:29	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Nickel	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Potassium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Selenium	525	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Silver	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Sodium	9830	ug/L	10000	ug/L	98.3	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Vanadium	528	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Zinc	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
CCV16	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Arsenic	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Barium	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Calcium	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Chromium	524	ug/L	500	ug/L	104.7	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Cobalt	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Copper	530	ug/L	500	ug/L	106	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Iron	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Magnesium	5210	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Nickel	523	ug/L	500	ug/L	104.7	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Potassium	5270	ug/L	5000	ug/L	105.3	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Selenium	540	ug/L	500	ug/L	108.1	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Silver	533	ug/L	500	ug/L	106.6	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Sodium	10000	ug/L	10000	ug/L	100.4	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Vanadium	533	ug/L	500	ug/L	106.5	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
	Zinc	523	ug/L	500	ug/L	104.5	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
CCV17	Aluminum	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Arsenic	531	ug/L	500	ug/L	106.3	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Barium	533	ug/L	500	ug/L	106.7	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Chromium	533	ug/L	500	ug/L	106.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cobalt	531	ug/L	500	ug/L	106.2	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Copper	539	ug/L	500	ug/L	107.8	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Iron	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Magnesium	5310	ug/L	5000	ug/L	106.1	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Nickel	534	ug/L	500	ug/L	106.9	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Potassium	5320	ug/L	5000	ug/L	106.3	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Selenium	549	ug/L	500	ug/L	109.9	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Silver	540	ug/L	500	ug/L	108.1	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Sodium	10200	ug/L	10000	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Vanadium	542	ug/L	500	ug/L	108.3	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Zinc	531	ug/L	500	ug/L	106.3	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
CCV18	Aluminum	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Arsenic	524	ug/L	500	ug/L	104.7	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Barium	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Calcium	5010	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Chromium	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Cobalt	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Copper	529	ug/L	500	ug/L	105.7	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Iron	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Magnesium	5330	ug/L	5000	ug/L	106.6	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Nickel	525	ug/L	500	ug/L	105	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Potassium	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Selenium	533	ug/L	500	ug/L	106.6	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Silver	532	ug/L	500	ug/L	106.5	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Sodium	10200	ug/L	10000	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Vanadium	533	ug/L	500	ug/L	106.5	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Zinc	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	29-JAN-10 16:06	012910-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Uranium	.23	ug/L	.2	ug/L	115	70.0 – 130.0	MS	29-JAN-10 12:05	100129-3
	Lead	2.38	ug/L	2	ug/L	118.9	70.0 – 130.0	MS	29-JAN-10 20:50	100129-8
	Cadmium	1.12	ug/L	1	ug/L	111.7	70.0 – 130.0	MS	29-JAN-10 20:50	100129-8
	Antimony	3.55	ug/L	3	ug/L	118.5	70.0 – 130.0	MS	29-JAN-10 20:50	100129-8
	Manganese	6	ug/L	5	ug/L	119.9	70.0 – 130.0	MS	30-JAN-10 13:00	100130-9
	Beryllium	.57	ug/L	.5	ug/L	114	70.0 – 130.0	MS	30-JAN-10 13:00	100130-9
	Mercury	.195	ug/L	.2	ug/L	97.5	70.0 – 130.0	AV	02-FEB-10 09:36	020210W1-13
	Thallium	1.01	ug/L	1	ug/L	100.6	70.0 – 130.0	MS	06-FEB-10 00:37	100205-2
PQL01										
	Selenium	39.2	ug/L	30	ug/L	130.7	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Aluminum	210	ug/L	200	ug/L	105	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Iron	119	ug/L	100	ug/L	118.6	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Magnesium	331	ug/L	300	ug/L	110.4	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Nickel	5.54	ug/L	5	ug/L	110.9	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Potassium	173	ug/L	150	ug/L	115.5	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Silver	5.41	ug/L	5	ug/L	108.2	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Sodium	310	ug/L	300	ug/L	103.3	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Arsenic	35.8	ug/L	30	ug/L	119.3	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Barium	5.35	ug/L	5	ug/L	106.9	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Chromium	6.19	ug/L	5	ug/L	123.7	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Cobalt	5.2	ug/L	5	ug/L	104.1	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Copper	11.3	ug/L	10	ug/L	112.7	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Vanadium	5.59	ug/L	5	ug/L	111.9	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Zinc	11	ug/L	10	ug/L	109.9	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Calcium	211	ug/L	200	ug/L	105.4	70.0 – 130.0	P	29-JAN-10 06:39	012910-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

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										
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 06:35	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 06:35	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 06:35	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 06:35	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 06:35	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 06:35	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 06:35	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 06:35	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 06:35	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 06:35	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 12:03	100129-3
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	29-JAN-10 20:47	100129-8
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	29-JAN-10 20:47	100129-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	29-JAN-10 20:47	100129-8
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 12:58	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 12:58	100130-9
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-FEB-10 09:34	020210W1-13
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	06-FEB-10 00:33	100205-2
CCB01										
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 07:13	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:13	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 07:13	012910-1
	Chromium	1.02	+/-5	J	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Copper	3.11	+/-10	J	3.0	10.0	LIQ	P	29-JAN-10 07:13	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 07:13	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 07:13	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 07:13	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:13	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 07:13	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 07:13	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 12:14	100129-3
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	29-JAN-10 21:05	100129-8
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	29-JAN-10 21:05	100129-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	29-JAN-10 21:05	100129-8
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 13:09	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 13:09	100130-9
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-FEB-10 09:40	020210W1-13
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	06-FEB-10 00:55	100205-2
CCB02	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 07:24	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:24	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 07:24	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 07:24	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 07:24	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 07:24	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 07:24	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:24	012910-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

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>
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 07:24	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 07:24	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 12:32	100129-3
	Antimony	1.17	+/-3	J	1.0	3.0	LIQ	MS	29-JAN-10 21:15	100129-8
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	29-JAN-10 21:15	100129-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	29-JAN-10 21:15	100129-8
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 13:16	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 13:16	100130-9
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-FEB-10 10:03	020210W1-13
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	06-FEB-10 01:37	100205-2
CCB03	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 07:35	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:35	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 07:35	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 07:35	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 07:35	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 07:35	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 07:35	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:35	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 07:35	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 07:35	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 12:52	100129-3
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	29-JAN-10 21:48	100129-8

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

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	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	29-JAN-10 21:48	100129-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	29-JAN-10 21:48	100129-8
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 13:26	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 13:26	100130-9
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-FEB-10 10:26	020210W1-13
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 08:15	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 08:15	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 08:15	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 08:15	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 08:15	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 08:15	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 08:15	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 08:15	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 08:15	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 08:15	012910-1
CCB05	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 13:14	100129-3
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 13:43	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 13:43	100130-9
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 08:59	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 08:59	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 08:59	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 08:59	012910-1
	Iron	35.78	+/-100	J	30.0	100	LIQ	P	29-JAN-10 08:59	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 08:59	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 08:59	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 08:59	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 08:59	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 08:59	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 13:30	100129-3
CCB06	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 09:18	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 09:18	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 09:18	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 09:18	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 09:18	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 09:18	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 09:18	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 09:18	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 09:18	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 09:18	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 13:49	100129-3

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

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	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 09:50	012910-1
	Arsenic	6.68	+/-30	J	5.0	30.0	LIQ	P	29-JAN-10 09:50	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 09:50	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 09:50	012910-1
	Iron	35.28	+/-100	J	30.0	100	LIQ	P	29-JAN-10 09:50	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 09:50	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 09:50	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 09:50	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 09:50	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 09:50	012910-1
CCB08	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 10:23	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 10:23	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 10:23	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 10:23	012910-1
	Iron	52.65	+/-100	J	30.0	100	LIQ	P	29-JAN-10 10:23	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 10:23	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 10:23	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 10:23	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 10:23	012910-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

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>
CCB09	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 10:23	012910-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 10:50	012910-1
	Arsenic	5.07	+/-30	J	5.0	30.0	LIQ	P	29-JAN-10 10:50	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 10:50	012910-1
	Chromium	1.0	+/-5	J	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 10:50	012910-1
	Iron	41.66	+/-100	J	30.0	100	LIQ	P	29-JAN-10 10:50	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 10:50	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 10:50	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 10:50	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 10:50	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 10:50	012910-1
CCB10	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 11:34	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 11:34	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 11:34	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 11:34	012910-1
	Iron	30.55	+/-100	J	30.0	100	LIQ	P	29-JAN-10 11:34	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 11:34	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 11:34	012910-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

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>
CCB11	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 11:34	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 11:34	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 11:34	012910-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 12:11	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 12:11	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 12:11	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 12:11	012910-1
	Iron	45.47	+/-100	J	30.0	100	LIQ	P	29-JAN-10 12:11	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 12:11	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 12:11	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 12:11	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 12:11	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 12:11	012910-1
CCB12	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 12:51	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 12:51	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 12:51	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 12:51	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 12:51	012910-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 12:51	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 12:51	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 12:51	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 12:51	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 12:51	012910-1
CCB13	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 13:21	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 13:21	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 13:21	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 13:21	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 13:21	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 13:21	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 13:21	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 13:21	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 13:21	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 13:21	012910-1
CCB14	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 13:49	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 13:49	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 13:49	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:49	012910-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

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-JAN-10 13:49	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 13:49	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 13:49	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 13:49	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 13:49	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 13:49	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 13:49	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 13:49	012910-1
CCB15	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 14:33	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 14:33	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 14:33	012910-1
	Chromium	1.09	+/-5	J	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 14:33	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 14:33	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 14:33	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 14:33	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 14:33	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 14:33	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 14:33	012910-1
CCB16	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 15:12	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 15:12	012910-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

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	LIQ	P	29-JAN-10 15:12	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 15:12	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 15:12	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 15:12	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 15:12	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 15:12	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 15:12	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 15:12	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 15:12	012910-1
CCB17	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 15:41	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 15:41	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 15:41	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 15:41	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 15:41	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 15:41	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 15:41	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 15:41	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 15:41	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 15:41	012910-1

SW846

Metals

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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
CCB18	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 16:10	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 16:10	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 16:10	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 16:10	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 16:10	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 16:10	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 16:10	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 16:10	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 16:10	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 16:10	012910-1

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-1325
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>
1202021499	Zinc	3.3	ug/L	+/-10	U	P	3.3	10
	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
	Copper	3	ug/L	+/-10	U	P	3	10
	Magnesium	85	ug/L	+/-300	U	P	85	300
	Potassium	50	ug/L	+/-150	U	P	50	150
	Silver	1	ug/L	+/-5	U	P	1	5
	Vanadium	1	ug/L	+/-5	U	P	1	5
	Sodium	100	ug/L	+/-300	U	P	100	300
	Selenium	6.63	ug/L	+/-30	J	P	5	30
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Iron	30	ug/L	+/-100	U	P	30	100
	Cobalt	1	ug/L	+/-5	U	P	1	5
	Chromium	1	ug/L	+/-5	U	P	1	5
	Calcium	50	ug/L	+/-200	U	P	50	200
1202021504	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	0.5	ug/L	+/-2	U	MS	0.5	2
	Manganese	1	ug/L	+/-5	U	MS	1	5
	Thallium	0.3	ug/L	+/-1	U	MS	0.3	1
	Uranium	0.05	ug/L	+/-0.2	U	MS	0.05	0.2
1202024759	Mercury	0.066	ug/L	+/-0.2	U	AV	0.066	0.2

METALS
-4-
Interference Check Sample

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	517000	ug/L	500000	ug/L	103	80.0 – 120.0	29-JAN-10 06:42	012910-1
	Arsenic	-17.6	ug/L					29-JAN-10 06:42	012910-1
	Barium	7.1	ug/L					29-JAN-10 06:42	012910-1
	Calcium	487000	ug/L	500000	ug/L	97.4	80.0 – 120.0	29-JAN-10 06:42	012910-1
	Chromium	-0.093	ug/L					29-JAN-10 06:42	012910-1
	Cobalt	1.74	ug/L					29-JAN-10 06:42	012910-1
	Copper	2.47	ug/L					29-JAN-10 06:42	012910-1
	Iron	192000	ug/L	200000	ug/L	96.2	80.0 – 120.0	29-JAN-10 06:42	012910-1
	Magnesium	498000	ug/L	500000	ug/L	99.5	80.0 – 120.0	29-JAN-10 06:42	012910-1
	Nickel	1.46	ug/L					29-JAN-10 06:42	012910-1
	Potassium	-96.2	ug/L					29-JAN-10 06:42	012910-1
	Selenium	22.2	ug/L					29-JAN-10 06:42	012910-1
	Silver	-7.97	ug/L					29-JAN-10 06:42	012910-1
	Sodium	24.4	ug/L					29-JAN-10 06:42	012910-1
	Vanadium	2.53	ug/L					29-JAN-10 06:42	012910-1
	Zinc	0.91	ug/L					29-JAN-10 06:42	012910-1
ICSAB01									
	Aluminum	522000	ug/L	500000	ug/L	104	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Arsenic	520	ug/L	500	ug/L	104	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Barium	530	ug/L	500	ug/L	106	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Calcium	492000	ug/L	500000	ug/L	98.5	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Chromium	515	ug/L	500	ug/L	103	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Cobalt	466	ug/L	500	ug/L	93.2	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Copper	586	ug/L	500	ug/L	117	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Iron	192000	ug/L	200000	ug/L	95.9	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Magnesium	498000	ug/L	500000	ug/L	99.6	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Nickel	467	ug/L	500	ug/L	93.5	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Potassium	5300	ug/L	5000	ug/L	106	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Selenium	2540	ug/L	2500	ug/L	102	80.0 – 120.0	29-JAN-10 06:45	012910-1

METALS
-4-
Interference Check Sample

SDG No: 10-1325

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	268	ug/L	250	ug/L	107	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Sodium	5170	ug/L	5000	ug/L	103	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Vanadium	546	ug/L	500	ug/L	109	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Zinc	499	ug/L	500	ug/L	99.7	80.0 – 120.0	29-JAN-10 06:45	012910-1

METALS

-4-

Interference Check Sample

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Thallium	-0.018	ug/L					06-FEB-10 00:42	100205-2
ICSAB01	Thallium	19.4	ug/L	20	ug/L	97.1	80.0 - 120.0	06-FEB-10 00:46	100205-2

METALS
-4-
Interference Check Sample

SDG No: 10-1325

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	0.001	ug/L					29-JAN-10 12:08	100129-3
ICSAB01	Uranium	21.1	ug/L	20	ug/L	105	80.0 - 120.0	29-JAN-10 12:10	100129-3

METALS

-4-

Interference Check Sample

SDG No: 10-1325

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	0.272	ug/L					29-JAN-10 20:54	100129-8
	Cadmium	0.664	ug/L					29-JAN-10 20:54	100129-8
	Lead	0.237	ug/L					29-JAN-10 20:54	100129-8
ICSAB01	Antimony	21.4	ug/L	20	ug/L	107	80.0 - 120.0	29-JAN-10 20:57	100129-8
	Cadmium	20.1	ug/L	20.44	ug/L	98.2	80.0 - 120.0	29-JAN-10 20:57	100129-8
	Lead	20.4	ug/L	20.19	ug/L	101	80.0 - 120.0	29-JAN-10 20:57	100129-8

METALS
-4-
Interference Check Sample

SDG No: 10-1325

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (% R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.116	ug/L					30-JAN-10 13:02	100130-9
	Manganese	6.34	ug/L					30-JAN-10 13:02	100130-9
ICSAB01	Beryllium	21.5	ug/L	20	ug/L	108	80.0 - 120.0	30-JAN-10 13:05	100130-9
	Manganese	27.2	ug/L	25.8	ug/L	105	80.0 - 120.0	30-JAN-10 13:05	100130-9

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1325

Client ID RE15-10-7226S

Contract: LANL01004

Level: Low

Matrix: WATER

% Solids:

Sample ID: 245120001

Spike ID: 1202021502

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75-125	5220		68	U	5000	104		P
Arsenic	ug/L	75-125	547		5	U	500	109		P
Barium	ug/L	75-125	540		1	U	500	108		P
Calcium	ug/L	75-125	5100		50	U	5000	101		P
Chromium	ug/L	75-125	538		1.24	J	500	107		P
Cobalt	ug/L	75-125	527		1	U	500	105		P
Copper	ug/L	75-125	546		3	U	500	109		P
Iron	ug/L	75-125	5300		32.5	J	5000	105		P
Magnesium	ug/L	75-125	5330		85	U	5000	106		P
Nickel	ug/L	75-125	539		1.5	U	500	108		P
Potassium	ug/L	75-125	5400		129	J	5000	105		P
Selenium	ug/L	75-125	519		5	U	500	103		P
Silver	ug/L	75-125	533		1	U	500	107		P
Sodium	ug/L	75-125	5130		100	U	5000	102		P
Vanadium	ug/L	75-125	548		1	U	500	109		P
Zinc	ug/L	75-125	522		3.3	U	500	104		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1325 Client ID: RE15-10-7226S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 245120001 Spike ID: 1202021507

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75-125	207		1	U	200	104		MS
Beryllium	ug/L	75-125	57.6		0.1	U	50	115		MS
Cadmium	ug/L	75-125	10.4		0.11	U	10	104		MS
Lead	ug/L	75-125	43.1		0.5	U	40	107		MS
Manganese	ug/L	75-125	52.8		1	U	50	104		MS
Thallium	ug/L	75-125	101		0.3	U	100	101		MS
Uranium	ug/L	75-125	49.2		0.05	U	50	98.4		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1325

Client ID RE15-10-7226S

Contract: LANL01004

Level: Low

Matrix: WATER

% Solids:

Sample ID: 245120001

Spike ID: 1202024762

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/L	75-125	2.12		0.066	U	2	106		AV

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1325

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE15-10-7226D

Sample ID: 245120001

Duplicate ID: 1202021501

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		1.24 J		1 U		200		P
Cobalt	ug/L		1 U		1 U				P
Copper	ug/L		3 U		3 U				P
Iron	ug/L	+/-100	32.5 J		44.5 J		31.1		P
Magnesium	ug/L		85 U		85 U				P
Nickel	ug/L		1.5 U		1.5 U				P
Potassium	ug/L	+/-150	129 J		121 J		6.45		P
Selenium	ug/L		5 U		5 U				P
Silver	ug/L		1 U		1 U				P
Sodium	ug/L		100 U		100 U				P
Vanadium	ug/L		1 U		1 U				P
Zinc	ug/L		3.3 U		3.3 U				P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1325

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE15-10-7226D

Sample ID: 245120001

Duplicate ID: 1202021506

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L		1 U		1 U				MS
Beryllium	ug/L		0.1 U		0.1 U				MS
Cadmium	ug/L		0.11 U		0.11 U				MS
Lead	ug/L		0.5 U		0.5 U				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

-6-

Duplicate Sample Summary

SDG No.: 10-1325

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE15-10-7226D

Sample ID: 245120001

Duplicate ID: 1202024761

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

-7-

Laboratory Control Sample Summary

SDG NO. 10-1325

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>
1202021500								
	Aluminum	ug/L	5000	5200		104	80-120	P
	Arsenic	ug/L	500	540		108	80-120	P
	Barium	ug/L	500	538		108	80-120	P
	Calcium	ug/L	5000	5090		102	80-120	P
	Chromium	ug/L	500	536		107	80-120	P
	Cobalt	ug/L	500	524		105	80-120	P
	Copper	ug/L	500	541		108	80-120	P
	Iron	ug/L	5000	5280		106	80-120	P
	Magnesium	ug/L	5000	5250		105	80-120	P
	Nickel	ug/L	500	534		107	80-120	P
	Potassium	ug/L	5000	5310		106	80-120	P
	Selenium	ug/L	500	521		104	80-120	P
	Silver	ug/L	500	532		106	80-120	P
	Sodium	ug/L	5000	5050		101	80-120	P
	Vanadium	ug/L	500	546		109	80-120	P
	Zinc	ug/L	500	521		104	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1325

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>
1202021505								
	Antimony	ug/L	50	51.3		103	80-120	MS
	Beryllium	ug/L	50	56		112	80-120	MS
	Cadmium	ug/L	50	49.5		99.1	80-120	MS
	Lead	ug/L	50	51.6		103	80-120	MS
	Manganese	ug/L	50	52.2		104	80-120	MS
	Thallium	ug/L	50	51		102	80-120	MS
	Uranium	ug/L	50	46.6		93.1	80-120	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1325

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>
1202024760	Mercury	ug/L	2	2.06		103	80-120	AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1325

Client ID RE15-10-7226L

Contract: LANL01004

Matrix: LIQUID

Level: Low

Sample ID: 245120001

Serial Dilution ID: 1202021503

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	1.24	J	6.1	J	392			P
Cobalt	1	U	5	U				P
Copper	3	U	15	U				P
Iron	32.5	J	150	U	100			P
Magnesium	85	U	425	U				P
Nickel	1.5	U	7.5	U				P
Potassium	129	J	250	U	100			P
Selenium	5	U	25	U				P
Silver	1	U	5	U				P
Sodium	100	U	500	U				P
Vanadium	1	U	5	U				P
Zinc	3.3	U	16.5	U				P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1325

Client ID RE15-10-7226L

Contract: LANL01004

Matrix: LIQUID

Level: Low

Sample ID: 245120001

Serial Dilution ID: 1202021508

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Antimony	1	U	5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.11	U	.55	U				MS
Lead	.5	U	2.5	U				MS
Manganese	1	U	5	U				MS
Thallium	.3	U	2.34	J				MS
Uranium	.05	U	.25	U				MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1325 Client ID RE15-10-7226L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 245120001 Serial Dilution ID: 1202024763

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.066	U	.33	U				AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1325

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 944076							
1202021499	MB for batch 944076	MB	W	25-JAN-10	50mL	50mL	
1202021500	LCS for batch 944076	LCS	W	25-JAN-10	50mL	50mL	
1202021502	RE15-10-7226S	MS	W	25-JAN-10	50mL	50mL	
1202021501	RE15-10-7226D	DUP	W	25-JAN-10	50mL	50mL	
245112001	RE15-10-8442	SAMPLE	W	25-JAN-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1325

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	944079						
1202021504	MB for batch 944079	MB	W	25-JAN-10	50mL	50mL	
1202021505	LCS for batch 944079	LCS	W	25-JAN-10	50mL	50mL	
1202021507	RE15-10-7226S	MS	W	25-JAN-10	50mL	50mL	
1202021878	RE15-10-7226S	MS	W	25-JAN-10	50mL	50mL	
1202021506	RE15-10-7226D	DUP	W	25-JAN-10	50mL	50mL	
245112001	RE15-10-8442	SAMPLE	W	25-JAN-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1325

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 945391							
1202024759	MB for batch 945391	MB	W	01-FEB-10	20mL	20mL	
1202024760	LCS for batch 945391	LCS	W	01-FEB-10	20mL	20mL	
1202024762	RE15-10-7226S	MS	W	01-FEB-10	20mL	20mL	
1202024761	RE15-10-7226D	DUP	W	01-FEB-10	20mL	20mL	
245112001	RE15-10-8442	SAMPLE	W	01-FEB-10	20mL	20mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 29-JAN-10

End Date: 29-JAN-10

Client Sdg: 10-1325

Method: MS

Data File: 100129-3

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	11:55																						X		
S10	1	11:57																						X		
S100	1	11:59																						X		
ICV01	1	12:01																						X		
ICB01	1	12:03																						X		
CRDL01	1	12:05																						X		
ICSA01	1	12:08																						X		
ICSAB01	1	12:10																						X		
CCV01	1	12:12																						X		
CCB01	1	12:14																						X		
ZZZZZZ	1	12:16																								
ZZZZZZ	1	12:19																								
ZZZZZZ	1	12:21																								
ZZZZZZ	1	12:23																								
ZZZZZZ	1	12:25																								
ZZZZZZ	1	12:28																								
CCV02	1	12:30																						X		
CCB02	1	12:32																						X		
ZZZZZZ	1	12:39																								
ZZZZZZ	1	12:41																								
ZZZZZZ	1	12:44																								
ZZZZZZ	5	12:46																								
ZZZZZZ	1	12:48																								
CCV03	1	12:50																						X		
CCB03	1	12:52																						X		
ZZZZZZ	1	12:56																								
ZZZZZZ	1	12:58																								
ZZZZZZ	1	13:00																								
ZZZZZZ	1	13:03																								
ZZZZZZ	1	13:05																								
ZZZZZZ	1	13:07																								
ZZZZZZ	5	13:10																								
CCV04	1	13:12																						X		
CCB04	1	13:14																						X		
ZZZZZZ	1	13:16																								
ZZZZZZ	1	13:19																								
ZZZZZZ	1	13:21																								
ZZZZZZ	1	13:23																								
ZZZZZZ	1	13:25																								
CCV05	1	13:28																						X		

[illegible]

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 29-JAN-10

End Date: 29-JAN-10

Client Sdg: 10-1325

Method MS

Data File: 100129-8

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	20:32	X					X						X												
S10	1	20:36	X					X						X												
S100	1	20:39	X					X						X												
ICV01	1	20:43	X					X						X												
ICB01	1	20:47	X					X						X												
CRDL01	1	20:50	X					X						X												
ICSA01	1	20:54	X					X						X												
ICSAB01	1	20:57	X					X						X												
CCV01	1	21:01	X					X						X												
CCB01	1	21:05	X					X						X												
LR01	1	21:08	X					X						X												
CCV02	1	21:12	X					X						X												
CCB02	1	21:15	X					X						X												
1202021504	1	21:19	X					X						X												
1202021505	1	21:23	X					X						X												
245112001	1	21:26	X					X						X												
ZZZZZ	1	21:30																								
1202021506	1	21:33	X					X						X												
1202021507	1	21:37	X					X						X												
1202021508	5	21:41	X					X						X												
CCV03	1	21:44	X					X						X												
CCB03	1	21:48	X					X						X												

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 30-JAN-10

End Date: 30-JAN-10

Client Sdg: 10-1325

Method MS

Data File: 100130-9

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	12:48					X									X										
S10	1	12:51					X									X										
S100	1	12:53					X									X										
ICV01	1	12:55					X									X										
ICB01	1	12:58					X									X										
CRDL01	1	13:00					X									X										
ICSA01	1	13:02					X									X										
ICSAB01	1	13:05					X									X										
CCV01	1	13:07					X									X										
CCB01	1	13:09					X									X										
LR01	1	13:12					X									X										
CCV02	1	13:14					X									X										
CCB02	1	13:16					X									X										
1202021504	1	13:19					X									X										
1202021505	1	13:21					X									X										
CCV03	1	13:24					X									X										
CCB03	1	13:26					X									X										
245112001	1	13:28					X									X										
ZZZZZ	1	13:31																								
1202021506	1	13:33					X									X										
1202021507	1	13:35					X									X										
1202021508	5	13:38					X									X										
CCV04	1	13:40					X									X										
CCB04	1	13:43					X									X										

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 02-FEB-10

End Date: 02-FEB-10

Client Sdg: 10-1325

Method AV

Data File: 020210W1-13

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	09:21															X									
S0.2	1	09:23															X									
S0.5	1	09:25															X									
S2.0	1	09:27															X									
S5.0	1	09:28															X									
S10.0	1	09:30															X									
ICV01	1	09:32															X									
ICB01	1	09:34															X									
CRDL01	1	09:36															X									
CCV01	1	09:38															X									
CCB01	1	09:40															X									
ZZZZZZ	1	09:42																								
ZZZZZZ	1	09:44																								
ZZZZZZ	1	09:46																								
ZZZZZZ	1	09:48																								
ZZZZZZ	1	09:50																								
ZZZZZZ	5	09:52																								
1202024759	1	09:53															X									
1202024760	1	09:55															X									
245112001	1	09:57															X									
ZZZZZZ	1	09:59																								
CCV02	1	10:01															X									
CCB02	1	10:03															X									
1202024761	1	10:05															X									
1202024762	1	10:07															X									
1202024763	5	10:09															X									
ZZZZZZ	1	10:11																								
ZZZZZZ	1	10:13																								
ZZZZZZ	1	10:15																								
ZZZZZZ	1	10:17																								
ZZZZZZ	1	10:18																								
ZZZZZZ	1	10:20																								
ZZZZZZ	1	10:22																								
CCV03	1	10:24															X									
CCB03	1	10:26															X									

Metals
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Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS3**Start Date:** 06-FEB-10**End Date:** 06-FEB-10**Client Sdg:** 10-1325**Method:** MS**Data File:** 100205-2

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	00:15																				X				
S10	1	00:19																				X				
S100	1	00:24																				X				
ICV01	1	00:28																				X				
ICB01	1	00:33																				X				
CRDL01	1	00:37																				X				
ICSA01	1	00:42																				X				
ICSAB01	1	00:46																				X				
CCV01	1	00:51																				X				
CCB01	1	00:55																				X				
1202021504	1	01:00																				X				
1202021505	1	01:05																				X				
245112001	1	01:09																				X				
ZZZZZZ	1	01:14																								
1202021506	1	01:18																				X				
1202021507	1	01:23																				X				
1202021508	5	01:27																				X				
CCV02	1	01:32																				X				
CCB02	1	01:37																				X				

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA1

Start Date: 29-JAN-10

End Date: 29-JAN-10

Client Sdg: 10-1325

Method P

Data File: 012910-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	06:16	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S0.1	1	06:19			X	X				X	X	X						X	X	X	X				X	X
S0.5	1	06:22	X		X	X			X	X	X	X			X			X	X	X	X				X	X
SCAL	1	06:26	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S10	1	06:29	X						X				X		X							X				
ICV01	1	06:32	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICB01	1	06:35	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
PQL01	1	06:39	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSA01	1	06:42	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSAB01	1	06:45	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR01	1	06:48	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR02	1	06:51	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	06:54																								
ZZZZZZ	1	06:58																								
CCV01	1	07:10	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB01	1	07:13	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR03	1	07:17	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV02	1	07:21	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB02	1	07:24	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	5	07:28																								
CCV03	1	07:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB03	1	07:35	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	07:39																								
ZZZZZZ	1	07:42																								
ZZZZZZ	1	07:45																								
ZZZZZZ	1	07:49																								
ZZZZZZ	1	07:53																								
ZZZZZZ	1	07:56																								
ZZZZZZ	5	08:00																								
ZZZZZZ	1	08:04																								
ZZZZZZ	1	08:07																								
CCV04	1	08:11	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB04	1	08:15	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	08:18																								
ZZZZZZ	1	08:22																								
ZZZZZZ	1	08:26																								
ZZZZZZ	1	08:29																								
ZZZZZZ	1	08:33																								
ZZZZZZ	1	08:37																								
ZZZZZZ	1	08:40																								

Metals
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Analysis Run Log

[illegible]

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	11:27																								
CCV10	1	11:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB10	1	11:34	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	11:38																								
ZZZZZZ	1	11:42																								
ZZZZZZ	1	11:46																								
ZZZZZZ	1	11:49																								
ZZZZZZ	1	11:53																								
ZZZZZZ	1	11:57																								
ZZZZZZ	1	12:00																								
ZZZZZZ	1	12:04																								
CCV11	1	12:08	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB11	1	12:11	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	12:26																								
ZZZZZZ	1	12:29																								
ZZZZZZ	1	12:33																								
ZZZZZZ	1	12:37																								
ZZZZZZ	1	12:40																								
ZZZZZZ	5	12:44																								
CCV12	1	12:47	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB12	1	12:51	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	12:55																								
ZZZZZZ	1	12:59																								
ZZZZZZ	1	13:02																								
ZZZZZZ	1	13:06																								
ZZZZZZ	1	13:10																								
ZZZZZZ	5	13:13																								
CCV13	1	13:17	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB13	1	13:21	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	13:24																								
ZZZZZZ	1	13:28																								
ZZZZZZ	1	13:31																								
ZZZZZZ	1	13:35																								
ZZZZZZ	1	13:39																								
ZZZZZZ	1	13:42																								
CCV14	1	13:46	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB14	1	13:49	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	10	14:04																								
ZZZZZZ	10	14:07																								
ZZZZZZ	10	14:11																								

Samp No.	D/F	Run Time																		
ZZZZZZ	10	14:15																		
ZZZZZZ	10	14:18																		
ZZZZZZ	10	14:22																		
ZZZZZZ	50	14:25																		
CCV15	1	14:29	X	X	X			X	X	X	X	X	X			X	X	X	X	X
CCB15	1	14:33	X	X	X			X	X	X	X	X	X			X	X	X	X	X
ZZZZZZ	1	14:36																		
ZZZZZZ	1	14:40																		
ZZZZZZ	1	14:43																		
ZZZZZZ	1	14:47																		
ZZZZZZ	1	14:51																		
ZZZZZZ	5	14:54																		
ZZZZZZ	1	14:58																		
ZZZZZZ	1	15:01																		
ZZZZZZ	1	15:05																		
CCV16	1	15:08	X	X	X			X	X	X	X	X	X			X	X	X	X	X
CCB16	1	15:12	X	X	X			X	X	X	X	X	X			X	X	X	X	X
1202021499	1	15:16	X	X	X			X	X	X	X	X	X			X	X	X	X	X
1202021500	1	15:19	X	X	X			X	X	X	X	X	X			X	X	X	X	X
ZZZZZZ	1	15:23																		
1202021501	1	15:27	X	X	X			X	X	X	X	X	X			X	X	X	X	X
1202021502	1	15:30	X	X	X			X	X	X	X	X	X			X	X	X	X	X
1202021503	5	15:34	X	X	X			X	X	X	X	X	X			X	X	X	X	X
CCV17	1	15:37	X	X	X			X	X	X	X	X	X			X	X	X	X	X
CCB17	1	15:41	X	X	X			X	X	X	X	X	X			X	X	X	X	X
245112001	1	15:45	X	X	X			X	X	X	X	X	X			X	X	X	X	X
ZZZZZZ	1	15:48																		
ZZZZZZ	1	15:52																		
ZZZZZZ	1	15:55																		
ZZZZZZ	1	15:59																		
ZZZZZZ	1	16:03																		
CCV18	1	16:06	X	X	X			X	X	X	X	X	X			X	X	X	X	X
CCB18	1	16:10	X	X	X			X	X	X	X	X	X			X	X	X	X	X

Standards

METALS
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Instrument Detection Limits

SDG NO. 10-1325

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. 10-1325

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY				
LIQUID	Mercury		0.066	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1325

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: GELGEL Job No: **10-1325**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1325**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-NOV-09**

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

METALS
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1325**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-NOV-09**

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1325

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1325**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1325

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-12-
Linear Ranges

SDG NO. 10-1325

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-NOV-09
Antimony	1000	250	ug/L	01-NOV-09
Arsenic	1000	1000	ug/L	01-NOV-09
Barium	1000	1000	ug/L	01-NOV-09
Beryllium	1000	1000	ug/L	01-NOV-09
Cadmium	1000	1000	ug/L	01-NOV-09
Calcium	500	50000	ug/L	01-NOV-09
Chromium	1000	1000	ug/L	01-NOV-09
Cobalt	1000	1000	ug/L	01-NOV-09
Copper	1000	1000	ug/L	01-NOV-09
Iron	500	50000	ug/L	01-NOV-09
Lead	1000	5000	ug/L	01-NOV-09
Magnesium	1	50000	ug/L	01-NOV-09
Manganese	1000	1000	ug/L	01-NOV-09
Nickel	1000	1000	ug/L	01-NOV-09
Potassium	1	50000	ug/L	01-NOV-09
Selenium	1000	500	ug/L	01-NOV-09
Silver	1000	250	ug/L	01-NOV-09
Sodium	1	50000	ug/L	01-NOV-09
Thallium	1000	500	ug/L	01-NOV-09
Uranium	1000	5000	ug/L	01-NOV-09
Vanadium	1000	100	ug/L	01-NOV-09
Zinc	1000	2500	ug/L	01-NOV-09

METALS
-12-
Linear Ranges

SDG NO. 10-1325

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS3

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-NOV-09
Antimony	1000	250	ug/L	01-NOV-09
Arsenic	1000	1000	ug/L	01-NOV-09
Barium	1000	1000	ug/L	01-NOV-09
Beryllium	1000	1000	ug/L	01-NOV-09
Cadmium	1000	1000	ug/L	01-NOV-09
Calcium	500	50000	ug/L	01-NOV-09
Chromium	1000	1000	ug/L	01-NOV-09
Cobalt	1000	1000	ug/L	01-NOV-09
Copper	1000	1000	ug/L	01-NOV-09
Iron	500	50000	ug/L	01-NOV-09
Lead	1000	5000	ug/L	01-NOV-09
Magnesium	1	50000	ug/L	01-NOV-09
Manganese	1000	1000	ug/L	01-NOV-09
Nickel	1000	1000	ug/L	01-NOV-09
Potassium	1	50000	ug/L	01-NOV-09
Selenium	1000	500	ug/L	01-NOV-09
Silver	1000	250	ug/L	01-NOV-09
Sodium	1	50000	ug/L	01-NOV-09
Thallium	1000	500	ug/L	01-NOV-09
Uranium	1000	5000	ug/L	01-NOV-09
Vanadium	1000	100	ug/L	01-NOV-09
Zinc	1000	2500	ug/L	01-NOV-09

METALS
-12-
Linear Ranges

SDG NO. 10-1325

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA1

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	20	500000	ug/L	01-NOV-09
Antimony	20	10000	ug/L	01-NOV-09
Arsenic	20	10000	ug/L	01-NOV-09
Barium	20	15000	ug/L	01-NOV-09
Beryllium	20	3000	ug/L	01-NOV-09
Cadmium	20	10000	ug/L	01-NOV-09
Calcium	20	500000	ug/L	01-NOV-09
Chromium	20	25000	ug/L	01-NOV-09
Cobalt	20	10000	ug/L	01-NOV-09
Copper	20	20000	ug/L	01-NOV-09
Iron	20	500000	ug/L	01-NOV-09
Lead	20	25000	ug/L	01-NOV-09
Magnesium	20	500000	ug/L	01-NOV-09
Manganese	20	10000	ug/L	01-NOV-09
Nickel	20	10000	ug/L	01-NOV-09
Potassium	20	300000	ug/L	01-NOV-09
Selenium	20	10000	ug/L	01-NOV-09
Silver	20	1000	ug/L	01-NOV-09
Sodium	20	500000	ug/L	01-NOV-09
Thallium	20	10000	ug/L	01-NOV-09
Uranium	20	15000	ug/L	01-NOV-09
Vanadium	20	10000	ug/L	01-NOV-09
Zinc	20	15000	ug/L	01-NOV-09

Raw Data

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Analysis Begun

Start Time: 1/29/2010 06:16:09

Plasma On Time: 1/25/2010 05:31:26

Logged In Analyst: optima

Technique: ICP Continuous

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

Sample Information File: C:\pe\optimal\Sample Information\012910.sif

Batch ID:

Results Data Set: 012910

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

=====
Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 1/29/2010 06:16:09

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	78453.6	78453.6	0.000 %	06:16:54
1	Al 396.153Radial†	-28.6	-28.6	[0.00] µg/L	06:16:54
1	Ca 317.933Radial†	254.4	254.5	[0.00] µg/L	06:17:15
1	Fe 238.204 Radial†	16.3	16.3	[0.00] µg/L	06:17:15
1	K 766.490 Radial†	361.8	361.9	[0.00] µg/L	06:16:54
1	Mg 279.077 IEC†	9.2	9.2	[0.00] µg/L	06:17:15
1	Na 589.592 Radial†	551.3	551.5	[0.00] µg/L	06:16:54
1	Sr 421.552†	632.6	632.8	[0.00] µg/L	06:16:54
1	Sc 361.383	2006976.9	2006976.9	0.0000 %	06:18:16
1	Y 371.029	1268565.6	1268565.6	0.0000 %	06:18:16
1	Ag 328.068†	-98.3	-96.8	[0.00] µg/L	06:18:22
1	As 188.979†	-2.6	-2.5	[0.00] µg/L	06:18:43
1	B 249.677†	368.9	363.3	[0.00] µg/L	06:18:22
1	Ba 233.527†	-25.4	-25.0	[0.00] µg/L	06:18:43
1	Be 313.107†	3819.6	3761.6	[0.00] µg/L	06:18:22
1	Cd 226.502†	-130.4	-128.4	[0.00] µg/L	06:18:43
1	Co 228.616†	-53.2	-52.4	[0.00] µg/L	06:18:43
1	Cr 267.716†	-73.7	-72.6	[0.00] µg/L	06:18:22
1	Cu 324.752†	3914.9	3855.3	[0.00] µg/L	06:18:22
1	Mn 257.610†	-156.1	-153.8	[0.00] µg/L	06:18:43
1	Mo 202.031†	14.6	14.3	[0.00] µg/L	06:18:43
1	Ni 231.604†	338.4	333.3	[0.00] µg/L	06:18:43
1	P 214.914†	218.9	215.6	[0.00] µg/L	06:18:43
1	Pb 220.353†	56.9	56.1	[0.00] µg/L	06:18:43
1	S 181.975 Axial†	23.2	22.9	[0.00] µg/L	06:18:43
1	Sb 206.836†	24.7	24.3	[0.00] µg/L	06:18:43
1	Se 196.026†	10.7	10.5	[0.00] µg/L	06:18:43
1	SiO2†	2371.3	2335.3	[0.00] µg/L	06:18:22
1	Si 251.611†	287.8	283.4	[0.00] µg/L	06:18:43
1	Sn 189.927†	24.8	24.5	[0.00] µg/L	06:18:43
1	Ti 334.940†	786.8	774.9	[0.00] µg/L	06:18:22
1	Tl 190.801†	-23.3	-23.0	[0.00] µg/L	06:18:43
1	U 409.014†	-208.4	-205.2	[0.00] µg/L	06:18:22
1	V 292.402†	-137.7	-135.6	[0.00] µg/L	06:18:22
1	Zn 213.857†	627.6	618.1	[0.00] µg/L	06:18:43
2	Sc RADIAL	78583.3	78583.3	0.000 %	06:17:20
2	Al 396.153Radial†	-47.9	-47.8	[0.00] µg/L	06:17:20
2	Ca 317.933Radial†	238.6	238.3	[0.00] µg/L	06:17:41
2	Fe 238.204 Radial†	15.6	15.6	[0.00] µg/L	06:17:41
2	K 766.490 Radial†	392.9	392.3	[0.00] µg/L	06:17:20
2	Mg 279.077 IEC†	9.9	9.9	[0.00] µg/L	06:17:41
2	Na 589.592 Radial†	568.9	568.2	[0.00] µg/L	06:17:20
2	Sr 421.552†	642.0	641.2	[0.00] µg/L	06:17:20
2	Sc 361.383	1939456.0	1939456.0	0.0000 %	06:18:49
2	Y 371.029	1225701.0	1225701.0	0.0000 %	06:18:49
2	Ag 328.068†	-93.9	-95.7	[0.00] µg/L	06:18:54
2	As 188.979†	-3.4	-3.4	[0.00] µg/L	06:19:15

2	B 249.677†	377.1	384.3	[0.00]	µg/L	06:18:54
2	Ba 233.527†	-21.3	-21.8	[0.00]	µg/L	06:19:15
2	Be 313.107†	3821.8	3894.7	[0.00]	µg/L	06:18:54
2	Cd 226.502†	-124.7	-127.1	[0.00]	µg/L	06:19:15
2	Co 228.616†	-46.5	-47.4	[0.00]	µg/L	06:19:15
2	Cr 267.716†	-115.3	-117.5	[0.00]	µg/L	06:18:54
2	Cu 324.752†	3884.3	3958.4	[0.00]	µg/L	06:18:54
2	Mn 257.610†	-138.9	-141.6	[0.00]	µg/L	06:19:15
2	Mo 202.031†	16.0	16.3	[0.00]	µg/L	06:19:15
2	Ni 231.604†	323.2	329.4	[0.00]	µg/L	06:19:15
2	P 214.914†	215.8	219.9	[0.00]	µg/L	06:19:15
2	Pb 220.353†	61.1	62.2	[0.00]	µg/L	06:19:15
2	S 181.975 Axial†	24.3	24.7	[0.00]	µg/L	06:19:15
2	Sb 206.836†	29.2	29.7	[0.00]	µg/L	06:19:15
2	Se 196.026†	9.6	9.8	[0.00]	µg/L	06:19:15
2	SiO2†	2394.1	2439.7	[0.00]	µg/L	06:18:54
2	Si 251.611†	273.9	279.1	[0.00]	µg/L	06:19:15
2	Sn 189.927†	22.1	22.5	[0.00]	µg/L	06:19:15
2	Ti 334.940†	638.9	651.1	[0.00]	µg/L	06:18:54
2	Tl 190.801†	-26.7	-27.2	[0.00]	µg/L	06:19:15
2	U 409.014†	-217.2	-221.3	[0.00]	µg/L	06:18:54
2	V 292.402†	-119.1	-121.3	[0.00]	µg/L	06:18:54
2	Zn 213.857†	637.6	649.8	[0.00]	µg/L	06:19:15
3	Sc RADIAL	78404.4	78404.4	0.000	%	06:17:46
3	Al 396.153Radial†	-12.0	-12.0	[0.00]	µg/L	06:17:46
3	Ca 317.933Radial†	248.6	248.8	[0.00]	µg/L	06:18:06
3	Fe 238.204 Radial†	17.2	17.2	[0.00]	µg/L	06:18:06
3	K 766.490 Radial†	441.4	441.9	[0.00]	µg/L	06:17:46
3	Mg 279.077 IEC†	5.4	5.4	[0.00]	µg/L	06:18:06
3	Na 589.592 Radial†	540.8	541.4	[0.00]	µg/L	06:17:46
3	Sr 421.552†	627.5	628.1	[0.00]	µg/L	06:17:46
3	Sc 361.383	1982931.6	1982931.6	0.0000	%	06:19:21
3	Y 371.029	1253063.7	1253063.7	0.0000	%	06:19:21
3	Ag 328.068†	-85.6	-85.3	[0.00]	µg/L	06:19:26
3	As 188.979†	-2.2	-2.2	[0.00]	µg/L	06:19:47
3	B 249.677†	363.4	362.2	[0.00]	µg/L	06:19:26
3	Ba 233.527†	-25.2	-25.1	[0.00]	µg/L	06:19:47
3	Be 313.107†	3857.7	3845.1	[0.00]	µg/L	06:19:26
3	Cd 226.502†	-120.7	-120.3	[0.00]	µg/L	06:19:47
3	Co 228.616†	-48.3	-48.1	[0.00]	µg/L	06:19:47
3	Cr 267.716†	-116.7	-116.3	[0.00]	µg/L	06:19:26
3	Cu 324.752†	3898.8	3886.1	[0.00]	µg/L	06:19:26
3	Mn 257.610†	-148.7	-148.2	[0.00]	µg/L	06:19:47
3	Mo 202.031†	7.1	7.1	[0.00]	µg/L	06:19:47
3	Ni 231.604†	332.7	331.6	[0.00]	µg/L	06:19:47
3	P 214.914†	224.8	224.0	[0.00]	µg/L	06:19:47
3	Pb 220.353†	65.4	65.2	[0.00]	µg/L	06:19:47
3	S 181.975 Axial†	21.8	21.8	[0.00]	µg/L	06:19:47
3	Sb 206.836†	18.1	18.0	[0.00]	µg/L	06:19:47
3	Se 196.026†	3.5	3.5	[0.00]	µg/L	06:19:47
3	SiO2†	2401.1	2393.2	[0.00]	µg/L	06:19:26
3	Si 251.611†	285.7	284.7	[0.00]	µg/L	06:19:47
3	Sn 189.927†	23.5	23.4	[0.00]	µg/L	06:19:47
3	Ti 334.940†	687.9	685.6	[0.00]	µg/L	06:19:26
3	Tl 190.801†	-23.5	-23.4	[0.00]	µg/L	06:19:47
3	U 409.014†	-132.6	-132.2	[0.00]	µg/L	06:19:26
3	V 292.402†	-89.3	-89.0	[0.00]	µg/L	06:19:26
3	Zn 213.857†	631.0	628.9	[0.00]	µg/L	06:19:47

Mean Data: 80

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1976454.8	34223.24	1.73%	0.0000 %
Sc RADIAL	78480.5	92.39	0.12%	0.000 %
Y 371.029	1249110.1	21704.06	1.74%	0.0000 %
Ag 328.068†	-92.6	6.36	6.87%	[0.00] µg/L
Al 396.153Radial†	-29.5	17.91	60.70%	[0.00] µg/L
As 188.979†	-2.7	0.62	22.88%	[0.00] µg/L
B 249.677†	369.9	12.48	3.37%	[0.00] µg/L
Ba 233.527†	-24.0	1.91	7.97%	[0.00] µg/L

Be 313.107†	3833.8	67.30	1.76%	[0.00]	µg/L
Ca 317.933Radial†	247.2	8.20	3.32%	[0.00]	µg/L
Cd 226.502†	-125.3	4.33	3.45%	[0.00]	µg/L
Co 228.616†	-49.3	2.70	5.47%	[0.00]	µg/L
Cr 267.716†	-102.1	25.61	25.07%	[0.00]	µg/L
Cu 324.752†	3900.0	52.94	1.36%	[0.00]	µg/L
Fe 238.204 Radial†	16.3	0.81	4.96%	[0.00]	µg/L
K 766.490 Radial†	398.7	40.35	10.12%	[0.00]	µg/L
Mg 279.077 IEC†	8.2	2.39	29.31%	[0.00]	µg/L
Mn 257.610†	-147.8	6.11	4.13%	[0.00]	µg/L
Mo 202.031†	12.6	4.87	38.67%	[0.00]	µg/L
Na 589.592 Radial†	553.7	13.56	2.45%	[0.00]	µg/L
Ni 231.604†	331.4	1.95	0.59%	[0.00]	µg/L
P 214.914†	219.8	4.24	1.93%	[0.00]	µg/L
Pb 220.353†	61.2	4.66	7.61%	[0.00]	µg/L
S 181.975 Axial†	23.1	1.51	6.51%	[0.00]	µg/L
Sb 206.836†	24.0	5.86	24.40%	[0.00]	µg/L
Se 196.026†	7.9	3.83	48.28%	[0.00]	µg/L
SiO2†	2389.4	52.34	2.19%	[0.00]	µg/L
Si 251.611†	282.4	2.94	1.04%	[0.00]	µg/L
Sn 189.927†	23.5	0.99	4.23%	[0.00]	µg/L
Sr 421.552†	634.0	6.63	1.05%	[0.00]	µg/L
Ti 334.940†	703.9	63.85	9.07%	[0.00]	µg/L
Tl 190.801†	-24.5	2.34	9.52%	[0.00]	µg/L
U 409.014†	-186.2	47.51	25.52%	[0.00]	µg/L
V 292.402†	-115.3	23.90	20.72%	[0.00]	µg/L
Zn 213.857†	632.3	16.11	2.55%	[0.00]	µg/L

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

Autosampler Location: 2
 Date Collected: 1/29/2010 06:19:56
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc RADIAL	79236.4	79236.4	101 %		06:20:31
1	K 766.490 Radial†	1984.6	1566.9	[1000] µg/L		06:20:31
1	Sr 421.552†	18556.0	17744.9	[100] µg/L		06:20:31
1	Sc 361.383	1990329.2	1990329.2	100.70 %		06:20:53
1	Y 371.029	1257365.7	1257365.7	100.66 %		06:20:53
1	Ag 328.068†	12034.4	12043.1	[100] µg/L		06:20:58
1	As 188.979†	47.5	49.9	[100] µg/L		06:21:19
1	B 249.677†	2646.7	2258.3	[100] µg/L		06:20:58
1	Ba 233.527†	3932.5	3929.1	[100] µg/L		06:20:58
1	Be 313.107†	165533.1	160545.4	[100] µg/L		06:20:53
1	Cd 226.502†	3842.1	3940.6	[100] µg/L		06:20:58
1	Co 228.616†	1991.3	2026.7	[100] µg/L		06:21:19
1	Cr 267.716†	4922.2	4990.1	[100] µg/L		06:20:58
1	Cu 324.752†	19162.1	15128.5	[100] µg/L		06:20:58
1	Mn 257.610†	30905.3	30837.7	[100] µg/L		06:20:58
1	Mo 202.031†	916.2	897.2	[100] µg/L		06:21:19
1	Ni 231.604†	2158.1	1811.7	[100] µg/L		06:20:58
1	P 214.914†	466.1	243.0	[500] µg/L		06:21:19
1	Pb 220.353†	446.9	382.6	[100] µg/L		06:21:19
1	S 181.975 Axial†	69.4	45.8	[200] µg/L		06:21:19
1	Sb 206.836†	130.4	105.5	[100] µg/L		06:21:19
1	Se 196.026†	83.0	74.5	[100] µg/L		06:21:19
1	SiO2†	8177.4	5731.0	[1069.5] µg/L		06:20:58
1	Si 251.611†	7049.5	6717.9	[500] µg/L		06:20:58
1	Sn 189.927†	226.1	201.0	[100] µg/L		06:21:19
1	Ti 334.940†	45199.3	44180.4	[100] µg/L		06:20:58
1	Tl 190.801†	38.7	62.9	[100] µg/L		06:21:19
1	U 409.014†	1020.6	1199.7	[100] µg/L		06:20:58
1	V 292.402†	9195.2	9246.4	[100] µg/L		06:20:58
1	Zn 213.857†	4611.5	3947.1	[100] µg/L		06:20:58
2	Sc RADIAL	79037.1	79037.1	101 %		06:20:37
2	K 766.490 Radial†	1979.5	1566.8	[1000] µg/L		06:20:37
2	Sr 421.552†	18407.2	17643.5	[100] µg/L		06:20:37
2	Sc 361.383	1986550.7	1986550.7	100.51 %		06:21:25
2	Y 371.029	1255285.0	1255285.0	100.49 %		06:21:25
2	Ag 328.068†	11941.3	11973.2	[100] µg/L		06:21:31
2	As 188.979†	50.0	52.5	[100] µg/L		06:21:51
2	B 249.677†	2617.4	2234.2	[100] µg/L		06:21:31
2	Ba 233.527†	3882.7	3886.9	[100] µg/L		06:21:31
2	Be 313.107†	165391.7	160717.3	[100] µg/L		06:21:25
2	Cd 226.502†	3759.6	3865.8	[100] µg/L		06:21:31
2	Co 228.616†	1983.3	2022.6	[100] µg/L		06:21:51
2	Cr 267.716†	4830.6	4908.2	[100] µg/L		06:21:31
2	Cu 324.752†	19034.1	15037.4	[100] µg/L		06:21:31
2	Mn 257.610†	30541.6	30534.2	[100] µg/L		06:21:31
2	Mo 202.031†	910.6	893.4	[100] µg/L		06:21:51
2	Ni 231.604†	2160.4	1818.0	[100] µg/L		06:21:31
2	P 214.914†	453.9	231.8	[500] µg/L		06:21:51
2	Pb 220.353†	460.9	397.4	[100] µg/L		06:21:51
2	S 181.975 Axial†	61.7	38.3	[200] µg/L		06:21:51
2	Sb 206.836†	133.7	109.0	[100] µg/L		06:21:51
2	Se 196.026†	89.8	81.4	[100] µg/L		06:21:51
2	SiO2†	8088.6	5658.0	[1069.5] µg/L		06:21:31
2	Si 251.611†	6987.7	6669.7	[500] µg/L		06:21:31
2	Sn 189.927†	220.7	196.2	[100] µg/L		06:21:51
2	Ti 334.940†	44724.3	43793.2	[100] µg/L		06:21:31
2	Tl 190.801†	46.8	71.1	[100] µg/L		06:21:51
2	U 409.014†	1014.9	1195.9	[100] µg/L		06:21:31
2	V 292.402†	9034.2	9103.6	[100] µg/L		06:21:31

2	Zn 213.857†	4608.4	3952.8	[100] µg/L	06:21:31
3	Sc RADIAL	78912.9	78912.9	101 %	06:20:42
3	K 766.490 Radial†	1957.6	1548.1	[1000] µg/L	06:20:42
3	Sr 421.552†	18504.4	17768.9	[100] µg/L	06:20:42
3	Sc 361.383	1995586.1	1995586.1	100.97 %	06:21:57
3	Y 371.029	1260364.4	1260364.4	100.90 %	06:21:57
3	Ag 328.068†	11896.4	11874.9	[100] µg/L	06:22:03
3	As 188.979†	52.9	55.1	[100] µg/L	06:22:23
3	B 249.677†	2623.7	2228.6	[100] µg/L	06:22:03
3	Ba 233.527†	3892.3	3878.9	[100] µg/L	06:22:03
3	Be 313.107†	164759.1	159345.8	[100] µg/L	06:21:57
3	Cd 226.502†	3753.1	3842.4	[100] µg/L	06:22:03
3	Co 228.616†	1987.9	2018.1	[100] µg/L	06:22:23
3	Cr 267.716†	4833.6	4889.4	[100] µg/L	06:22:03
3	Cu 324.752†	19014.9	14932.7	[100] µg/L	06:22:03
3	Mn 257.610†	30577.7	30432.4	[100] µg/L	06:22:03
3	Mo 202.031†	910.3	889.0	[100] µg/L	06:22:23
3	Ni 231.604†	2172.5	1820.2	[100] µg/L	06:22:03
3	P 214.914†	462.5	238.2	[500] µg/L	06:22:23
3	Pb 220.353†	455.9	390.3	[100] µg/L	06:22:23
3	S 181.975 Axial†	66.1	42.4	[200] µg/L	06:22:23
3	Sb 206.836†	123.3	98.1	[100] µg/L	06:22:23
3	Se 196.026†	78.0	69.3	[100] µg/L	06:22:23
3	SiO2†	8090.8	5623.8	[1069.5] µg/L	06:22:03
3	Si 251.611†	6996.2	6646.7	[500] µg/L	06:22:03
3	Sn 189.927†	224.9	199.3	[100] µg/L	06:22:23
3	Ti 334.940†	44728.6	43596.0	[100] µg/L	06:22:03
3	Tl 190.801†	42.1	66.2	[100] µg/L	06:22:23
3	U 409.014†	1049.9	1226.1	[100] µg/L	06:22:03
3	V 292.402†	8986.4	9015.6	[100] µg/L	06:22:03
3	Zn 213.857†	4577.8	3901.6	[100] µg/L	06:22:03

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1990822.0	4537.79	0.23%	100.73 %
Sc RADIAL	79062.1	163.17	0.21%	101 %
Y 371.029	1257671.7	2553.49	0.20%	100.69 %
Ag 328.068†	11963.7	84.50	0.71%	[100] µg/L
As 188.979†	52.5	2.64	5.03%	[100] µg/L
B 249.677†	2240.4	15.76	0.70%	[100] µg/L
Ba 233.527†	3898.3	26.94	0.69%	[100] µg/L
Be 313.107†	160202.9	747.18	0.47%	[100] µg/L
Cd 226.502†	3882.9	51.30	1.32%	[100] µg/L
Co 228.616†	2022.5	4.30	0.21%	[100] µg/L
Cr 267.716†	4929.2	53.53	1.09%	[100] µg/L
Cu 324.752†	15032.9	97.99	0.65%	[100] µg/L
K 766.490 Radial†	1560.6	10.82	0.69%	[1000] µg/L
Mn 257.610†	30601.5	210.85	0.69%	[100] µg/L
Mo 202.031†	893.2	4.10	0.46%	[100] µg/L
Ni 231.604†	1816.7	4.44	0.24%	[100] µg/L
P 214.914†	237.7	5.63	2.37%	[500] µg/L
Pb 220.353†	390.1	7.43	1.90%	[100] µg/L
S 181.975 Axial†	42.1	3.76	8.91%	[200] µg/L
Sb 206.836†	104.2	5.56	5.33%	[100] µg/L
Se 196.026†	75.1	6.07	8.09%	[100] µg/L
SiO2†	5671.0	54.74	0.97%	[1069.5] µg/L
Si 251.611†	6678.1	36.31	0.54%	[500] µg/L
Sn 189.927†	198.8	2.46	1.24%	[100] µg/L
Sr 421.552†	17719.1	66.58	0.38%	[100] µg/L
Ti 334.940†	43856.5	297.30	0.68%	[100] µg/L
Tl 190.801†	66.8	4.13	6.18%	[100] µg/L
U 409.014†	1207.2	16.42	1.36%	[100] µg/L
V 292.402†	9121.8	116.50	1.28%	[100] µg/L
Zn 213.857†	3933.8	28.03	0.71%	[100] µg/L

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

Autosampler Location: 3
 Date Collected: 1/29/2010 06:22:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	79260.3	79260.3	101 %		06:23:05
1	Al 396.153Radial†	7595.8	7550.6	[5000] µg/L		06:23:05
1	Ca 317.933Radial†	7090.2	6773.2	[5000] µg/L		06:23:05
1	K 766.490 Radial†	8406.1	7924.7	[5000] µg/L		06:23:05
1	Mg 279.077 IEC†	492.0	479.0	[5000] µg/L		06:23:26
1	Sr 421.552†	85623.8	84147.2	[500] µg/L		06:23:05
1	Sc 361.383	1988873.8	1988873.8	100.63 %		06:24:29
1	Y 371.029	1252566.3	1252566.3	100.28 %		06:24:29
1	Ag 328.068†	57050.4	56786.7	[500] µg/L		06:24:34
1	As 188.979†	241.4	242.6	[500] µg/L		06:24:55
1	B 249.677†	11152.2	10712.6	[500] µg/L		06:24:34
1	Ba 233.527†	18598.2	18506.0	[500] µg/L		06:24:34
1	Be 313.107†	771283.5	762633.7	[500] µg/L		06:24:29
1	Cd 226.502†	18252.7	18264.0	[500] µg/L		06:24:34
1	Co 228.616†	9815.6	9803.7	[500] µg/L		06:24:34
1	Cr 267.716†	23336.2	23292.6	[500] µg/L		06:24:34
1	Cu 324.752†	74989.9	70621.7	[500] µg/L		06:24:34
1	Mn 257.610†	144696.5	143940.8	[500] µg/L		06:24:34
1	Mo 202.031†	4300.7	4261.2	[500] µg/L		06:24:55
1	Ni 231.604†	8943.4	8556.2	[500] µg/L		06:24:34
1	P 214.914†	1370.9	1142.5	[2500] µg/L		06:24:55
1	Pb 220.353†	1947.8	1874.4	[500] µg/L		06:24:55
1	S 181.975 Axial†	212.1	187.6	[1000] µg/L		06:24:55
1	Sb 206.836†	507.9	480.7	[500] µg/L		06:24:55
1	Se 196.026†	361.6	351.4	[500] µg/L		06:24:55
1	SiO2†	29660.5	27085.9	[5347.5] µg/L		06:24:34
1	Si 251.611†	32390.3	31905.6	[2500] µg/L		06:24:34
1	Sn 189.927†	976.1	946.6	[500] µg/L		06:24:55
1	Ti 334.940†	213831.8	211792.7	[500] µg/L		06:24:29
1	Tl 190.801†	288.1	310.8	[500] µg/L		06:24:55
1	U 409.014†	5376.8	5529.5	[500] µg/L		06:24:34
1	V 292.402†	43367.2	43211.7	[500] µg/L		06:24:34
1	Zn 213.857†	19243.9	18491.5	[500] µg/L		06:24:34
2	Sc RADIAL	79242.6	79242.6	101 %		06:23:31
2	Al 396.153Radial†	7589.8	7546.3	[5000] µg/L		06:23:31
2	Ca 317.933Radial†	7103.7	6788.2	[5000] µg/L		06:23:31
2	K 766.490 Radial†	8366.1	7887.0	[5000] µg/L		06:23:31
2	Mg 279.077 IEC†	498.8	485.9	[5000] µg/L		06:23:52
2	Sr 421.552†	85475.1	84018.9	[500] µg/L		06:23:31
2	Sc 361.383	2001726.7	2001726.7	101.28 %		06:25:02
2	Y 371.029	1260859.9	1260859.9	100.94 %		06:25:02
2	Ag 328.068†	56354.2	55735.3	[500] µg/L		06:25:07
2	As 188.979†	240.2	239.8	[500] µg/L		06:25:28
2	B 249.677†	11056.9	10547.3	[500] µg/L		06:25:07
2	Ba 233.527†	18377.0	18168.9	[500] µg/L		06:25:07
2	Be 313.107†	757902.9	744500.6	[500] µg/L		06:25:02
2	Cd 226.502†	18059.3	17956.6	[500] µg/L		06:25:07
2	Co 228.616†	9675.3	9602.4	[500] µg/L		06:25:07
2	Cr 267.716†	23017.8	22829.4	[500] µg/L		06:25:07
2	Cu 324.752†	74220.6	69383.6	[500] µg/L		06:25:07
2	Mn 257.610†	142920.4	141263.9	[500] µg/L		06:25:07
2	Mo 202.031†	4222.2	4156.3	[500] µg/L		06:25:28
2	Ni 231.604†	8885.1	8441.5	[500] µg/L		06:25:07
2	P 214.914†	1361.0	1123.9	[2500] µg/L		06:25:28
2	Pb 220.353†	1916.2	1830.8	[500] µg/L		06:25:28
2	S 181.975 Axial†	207.6	181.9	[1000] µg/L		06:25:28
2	Sb 206.836†	515.1	484.6	[500] µg/L		06:25:28
2	Se 196.026†	357.7	345.2	[500] µg/L		06:25:28
2	SiO2†	29361.6	26601.6	[5347.5] µg/L		06:25:07

2	Si 251.611†	31999.0	31312.6	[2500]	µg/L	06:25:07
2	Sn 189.927†	959.9	924.3	[500]	µg/L	06:25:28
2	Ti 334.940†	210147.7	206790.7	[500]	µg/L	06:25:02
2	Tl 190.801†	285.6	306.6	[500]	µg/L	06:25:28
2	U 409.014†	5323.2	5442.2	[500]	µg/L	06:25:07
2	V 292.402†	42784.9	42360.1	[500]	µg/L	06:25:07
2	Zn 213.857†	19038.7	18166.1	[500]	µg/L	06:25:07
3	Sc RADIAL	79210.5	79210.5	101	%	06:23:57
3	Al 396.153Radial†	7586.0	7545.5	[5000]	µg/L	06:23:57
3	Ca 317.933Radial†	7095.8	6783.3	[5000]	µg/L	06:23:57
3	K 766.490 Radial†	8305.4	7830.2	[5000]	µg/L	06:23:57
3	Mg 279.077 IEC†	494.4	481.7	[5000]	µg/L	06:24:18
3	Sr 421.552†	85515.6	84093.4	[500]	µg/L	06:23:57
3	Sc 361.383	2014150.7	2014150.7	101.91	%	06:25:34
3	Y 371.029	1268615.6	1268615.6	101.56	%	06:25:34
3	Ag 328.068†	53430.5	52523.1	[500]	µg/L	06:25:40
3	As 188.979†	203.6	202.5	[500]	µg/L	06:26:01
3	B 249.677†	10417.9	9853.0	[500]	µg/L	06:25:40
3	Ba 233.527†	16882.3	16590.3	[500]	µg/L	06:25:40
3	Be 313.107†	724303.9	706914.4	[500]	µg/L	06:25:34
3	Cd 226.502†	16532.1	16348.0	[500]	µg/L	06:25:40
3	Co 228.616†	8787.2	8672.0	[500]	µg/L	06:25:40
3	Cr 267.716†	20475.4	20194.4	[500]	µg/L	06:25:40
3	Cu 324.752†	68035.6	62862.4	[500]	µg/L	06:25:40
3	Mn 257.610†	129904.1	127620.7	[500]	µg/L	06:25:40
3	Mo 202.031†	3601.8	3521.8	[500]	µg/L	06:26:01
3	Ni 231.604†	8093.2	7610.3	[500]	µg/L	06:25:40
3	P 214.914†	1203.9	961.5	[2500]	µg/L	06:26:01
3	Pb 220.353†	1711.1	1617.9	[500]	µg/L	06:26:01
3	S 181.975 Axial†	194.1	167.4	[1000]	µg/L	06:26:01
3	Sb 206.836†	448.2	415.8	[500]	µg/L	06:26:01
3	Se 196.026†	311.3	297.5	[500]	µg/L	06:26:01
3	SiO2†	27493.1	24589.1	[5347.5]	µg/L	06:25:40
3	Si 251.611†	29757.6	28918.2	[2500]	µg/L	06:25:40
3	Sn 189.927†	805.9	767.4	[500]	µg/L	06:26:01
3	Ti 334.940†	199664.7	195224.0	[500]	µg/L	06:25:34
3	Tl 190.801†	262.5	282.1	[500]	µg/L	06:26:01
3	U 409.014†	4825.0	4920.9	[500]	µg/L	06:25:40
3	V 292.402†	38869.8	38257.6	[500]	µg/L	06:25:40
3	Zn 213.857†	17442.2	16483.5	[500]	µg/L	06:25:40

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	2001583.8	12639.07	0.63%	101.27	%
Sc RADIAL	79237.8	25.26	0.03%	101	%
Y 371.029	1260680.6	8026.16	0.64%	100.93	%
Ag 328.068†	55015.1	2221.20	4.04%	[500]	µg/L
Al 396.153Radial†	7547.5	2.72	0.04%	[5000]	µg/L
As 188.979†	228.3	22.38	9.80%	[500]	µg/L
B 249.677†	10371.0	456.14	4.40%	[500]	µg/L
Ba 233.527†	17755.1	1022.70	5.76%	[500]	µg/L
Be 313.107†	738016.2	28419.96	3.85%	[500]	µg/L
Ca 317.933Radial†	6781.5	7.61	0.11%	[5000]	µg/L
Cd 226.502†	17522.9	1029.06	5.87%	[500]	µg/L
Co 228.616†	9359.4	603.69	6.45%	[500]	µg/L
Cr 267.716†	22105.5	1671.17	7.56%	[500]	µg/L
Cu 324.752†	67622.6	4168.69	6.16%	[500]	µg/L
K 766.490 Radial†	7880.6	47.56	0.60%	[5000]	µg/L
Mg 279.077 IEC†	482.2	3.48	0.72%	[5000]	µg/L
Mn 257.610†	137608.5	8752.58	6.36%	[500]	µg/L
Mo 202.031†	3979.8	400.08	10.05%	[500]	µg/L
Ni 231.604†	8202.6	516.18	6.29%	[500]	µg/L
P 214.914†	1076.0	99.57	9.25%	[2500]	µg/L
Pb 220.353†	1774.4	137.27	7.74%	[500]	µg/L
S 181.975 Axial†	178.9	10.42	5.82%	[1000]	µg/L
Sb 206.836†	460.4	38.65	8.40%	[500]	µg/L
Se 196.026†	331.4	29.49	8.90%	[500]	µg/L
SiO2†	26092.2	1324.03	5.07%	[5347.5]	µg/L
Si 251.611†	30712.1	1581.63	5.15%	[2500]	µg/L

Sn 189.927†	879.4	97.67	11.11%	[500] µg/L
Sr 421.552†	84086.5	64.43	0.08%	[500] µg/L
Ti 334.940†	204602.5	8498.33	4.15%	[500] µg/L
Tl 190.801†	299.8	15.50	5.17%	[500] µg/L
U 409.014†	5297.5	329.06	6.21%	[500] µg/L
V 292.402†	41276.5	2648.86	6.42%	[500] µg/L
Zn 213.857†	17713.7	1077.77	6.08%	[500] µg/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 1/29/2010 06:26:11

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	80422.4	80422.4	102 %	06:26:43
1	Al 396.153Radial†	15443.2	15099.8	[10000] µg/L	06:26:43
1	Ca 317.933Radial†	13844.6	13263.1	[10000] µg/L	06:27:04
1	Fe 238.204 Radial†	770.1	735.2	[10000] µg/L	06:27:04
1	K 766.490 Radial†	16743.3	15940.3	[10000] µg/L	06:26:43
1	Mg 279.077 IEC†	989.7	957.7	[10000] µg/L	06:27:04
1	Na 589.592 Radial†	38174.8	36699.3	[10000] µg/L	06:26:43
1	Sr 421.552†	172238.8	167445.7	[1000] µg/L	06:26:43
1	Sc 361.383	2025538.1	2025538.1	102.48 %	06:28:08
1	Y 371.029	1274375.3	1274375.3	102.02 %	06:28:08
1	Ag 328.068†	114457.3	111776.3	[1000] µg/L	06:28:13
1	As 188.979†	489.4	480.3	[1000] µg/L	06:28:34
1	B 249.677†	22326.6	21415.6	[1000] µg/L	06:28:13
1	Ba 233.527†	37399.8	36517.4	[1000] µg/L	06:28:13
1	Be 313.107†	1554768.1	1513258.9	[1000] µg/L	06:28:08
1	Cd 226.502†	36797.7	36031.3	[1000] µg/L	06:28:13
1	Co 228.616†	19631.9	19205.5	[1000] µg/L	06:28:13
1	Cr 267.716†	47065.9	46027.6	[1000] µg/L	06:28:13
1	Cu 324.752†	146844.3	139385.9	[1000] µg/L	06:28:13
1	Mn 257.610†	295323.0	288314.5	[1000] µg/L	06:28:08
1	Mo 202.031†	8742.7	8518.3	[1000] µg/L	06:28:13
1	Ni 231.604†	17650.7	16891.6	[1000] µg/L	06:28:13
1	P 214.914†	2551.9	2270.3	[5000] µg/L	06:28:34
1	Pb 220.353†	3878.6	3723.4	[1000] µg/L	06:28:34
1	S 181.975 Axial†	405.9	372.9	[2000] µg/L	06:28:34
1	Sb 206.836†	1043.0	993.7	[1000] µg/L	06:28:34
1	Se 196.026†	717.2	691.9	[1000] µg/L	06:28:34
1	SiO2†	56939.5	53170.4	[10695] µg/L	06:28:13
1	Si 251.611†	64538.5	62692.1	[5000] µg/L	06:28:13
1	Sn 189.927†	1956.0	1885.1	[1000] µg/L	06:28:34
1	Ti 334.940†	433187.5	421986.6	[1000] µg/L	06:28:08
1	Tl 190.801†	609.0	618.8	[1000] µg/L	06:28:34
1	U 409.014†	11136.7	11053.1	[1000] µg/L	06:28:13
1	V 292.402†	87279.2	85279.5	[1000] µg/L	06:28:13
1	Zn 213.857†	37892.2	36341.8	[1000] µg/L	06:28:13
2	Sc RADIAL	80394.1	80394.1	102 %	06:27:09
2	Al 396.153Radial†	15388.6	15051.8	[10000] µg/L	06:27:09
2	Ca 317.933Radial†	13761.5	13186.7	[10000] µg/L	06:27:30
2	Fe 238.204 Radial†	766.1	731.5	[10000] µg/L	06:27:30
2	K 766.490 Radial†	16645.7	15850.8	[10000] µg/L	06:27:09
2	Mg 279.077 IEC†	988.8	957.1	[10000] µg/L	06:27:30
2	Na 589.592 Radial†	37940.9	36484.1	[10000] µg/L	06:27:09
2	Sr 421.552†	171452.8	166737.7	[1000] µg/L	06:27:09
2	Sc 361.383	2005963.8	2005963.8	101.49 %	06:28:41
2	Y 371.029	1262095.6	1262095.6	101.04 %	06:28:41
2	Ag 328.068†	114499.9	112908.1	[1000] µg/L	06:28:46
2	As 188.979†	484.4	480.0	[1000] µg/L	06:29:07
2	B 249.677†	22337.7	21639.1	[1000] µg/L	06:28:46
2	Ba 233.527†	37326.1	36801.0	[1000] µg/L	06:28:46
2	Be 313.107†	1535483.2	1509061.5	[1000] µg/L	06:28:41
2	Cd 226.502†	36703.6	36288.9	[1000] µg/L	06:28:46
2	Co 228.616†	19648.8	19409.1	[1000] µg/L	06:28:46
2	Cr 267.716†	47002.7	46413.4	[1000] µg/L	06:28:46
2	Cu 324.752†	146724.2	140665.8	[1000] µg/L	06:28:46
2	Mn 257.610†	291677.7	287534.8	[1000] µg/L	06:28:41
2	Mo 202.031†	8720.7	8579.9	[1000] µg/L	06:28:46
2	Ni 231.604†	17632.0	17041.2	[1000] µg/L	06:28:46
2	P 214.914†	2525.0	2268.0	[5000] µg/L	06:29:07
2	Pb 220.353†	3839.4	3721.8	[1000] µg/L	06:29:07

2	S 181.975 Axial†	398.2	369.2	[2000]	µg/L	06:29:07
2	Sb 206.836†	1033.6	994.4	[1000]	µg/L	06:29:07
2	Se 196.026†	706.1	687.8	[1000]	µg/L	06:29:07
2	SiO2†	56849.3	53623.6	[10695]	µg/L	06:28:46
2	Si 251.611†	64443.7	63213.2	[5000]	µg/L	06:28:46
2	Sn 189.927†	1923.5	1871.8	[1000]	µg/L	06:29:07
2	Ti 334.940†	428029.5	421029.1	[1000]	µg/L	06:28:41
2	Tl 190.801†	607.5	623.1	[1000]	µg/L	06:29:07
2	U 409.014†	11121.9	11144.5	[1000]	µg/L	06:28:46
2	V 292.402†	87192.6	86025.2	[1000]	µg/L	06:28:46
2	Zn 213.857†	37875.2	36685.8	[1000]	µg/L	06:28:46
3	Sc RADIAL	80380.2	80380.2	102	%	06:27:35
3	Al 396.153Radial†	15313.9	14981.5	[10000]	µg/L	06:27:35
3	Ca 317.933Radial†	13841.7	13267.4	[10000]	µg/L	06:27:56
3	Fe 238.204 Radial†	772.1	737.5	[10000]	µg/L	06:27:56
3	K 766.490 Radial†	16625.3	15833.7	[10000]	µg/L	06:27:35
3	Mg 279.077 IEC†	991.4	959.9	[10000]	µg/L	06:27:56
3	Na 589.592 Radial†	37822.8	36375.3	[10000]	µg/L	06:27:35
3	Sr 421.552†	170950.2	166275.9	[1000]	µg/L	06:27:35
3	Sc 361.383	2007251.3	2007251.3	101.56	%	06:29:14
3	Y 371.029	1262998.2	1262998.2	101.11	%	06:29:14
3	Ag 328.068†	109571.5	107983.0	[1000]	µg/L	06:29:20
3	As 188.979†	419.4	415.7	[1000]	µg/L	06:29:40
3	B 249.677†	21215.0	20519.6	[1000]	µg/L	06:29:20
3	Ba 233.527†	34713.2	34204.5	[1000]	µg/L	06:29:20
3	Be 313.107†	1466974.8	1440633.8	[1000]	µg/L	06:29:14
3	Cd 226.502†	34039.6	33642.7	[1000]	µg/L	06:29:20
3	Co 228.616†	18023.7	17796.5	[1000]	µg/L	06:29:20
3	Cr 267.716†	42166.7	41621.9	[1000]	µg/L	06:29:20
3	Cu 324.752†	135506.4	129527.4	[1000]	µg/L	06:29:20
3	Mn 257.610†	279120.1	274985.5	[1000]	µg/L	06:29:14
3	Mo 202.031†	8001.7	7866.3	[1000]	µg/L	06:29:20
3	Ni 231.604†	16228.0	15647.6	[1000]	µg/L	06:29:20
3	P 214.914†	2231.9	1977.8	[5000]	µg/L	06:29:40
3	Pb 220.353†	3363.6	3250.9	[1000]	µg/L	06:29:40
3	S 181.975 Axial†	365.4	336.6	[2000]	µg/L	06:29:40
3	Sb 206.836†	901.8	863.9	[1000]	µg/L	06:29:40
3	Se 196.026†	633.1	615.4	[1000]	µg/L	06:29:40
3	SiO2†	53579.0	50367.6	[10695]	µg/L	06:29:20
3	Si 251.611†	60554.5	59343.0	[5000]	µg/L	06:29:20
3	Sn 189.927†	1618.7	1570.4	[1000]	µg/L	06:29:40
3	Ti 334.940†	407594.2	400636.8	[1000]	µg/L	06:29:14
3	Tl 190.801†	542.0	558.2	[1000]	µg/L	06:29:40
3	U 409.014†	10131.9	10162.6	[1000]	µg/L	06:29:20
3	V 292.402†	79295.9	78194.6	[1000]	µg/L	06:29:20
3	Zn 213.857†	34859.8	33692.7	[1000]	µg/L	06:29:20

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	2012917.7	10948.46	0.54%	101.84	%
Sc RADIAL	80398.9	21.55	0.03%	102	%
Y 371.029	1266489.7	6844.03	0.54%	101.39	%
Ag 328.068†	110889.1	2579.65	2.33%	[1000]	µg/L
Al 396.153Radial†	15044.4	59.49	0.40%	[10000]	µg/L
As 188.979†	458.6	37.21	8.11%	[1000]	µg/L
B 249.677†	21191.5	592.46	2.80%	[1000]	µg/L
Ba 233.527†	35841.0	1424.28	3.97%	[1000]	µg/L
Be 313.107†	1487651.4	40772.47	2.74%	[1000]	µg/L
Ca 317.933Radial†	13239.1	45.37	0.34%	[10000]	µg/L
Cd 226.502†	35321.0	1459.14	4.13%	[1000]	µg/L
Co 228.616†	18803.7	878.16	4.67%	[1000]	µg/L
Cr 267.716†	44687.6	2662.01	5.96%	[1000]	µg/L
Cu 324.752†	136526.4	6094.98	4.46%	[1000]	µg/L
Fe 238.204 Radial†	734.7	3.00	0.41%	[10000]	µg/L
K 766.490 Radial†	15874.9	57.28	0.36%	[10000]	µg/L
Mg 279.077 IEC†	958.2	1.46	0.15%	[10000]	µg/L
Mn 257.610†	283611.6	7480.60	2.64%	[1000]	µg/L
Mo 202.031†	8321.5	395.38	4.75%	[1000]	µg/L
Na 589.592 Radial†	36519.6	164.92	0.45%	[10000]	µg/L

Ni 231.604†	16526.8	765.08	4.63%	[1000] µg/L
P 214.914†	2172.0	168.22	7.75%	[5000] µg/L
Pb 220.353†	3565.4	272.36	7.64%	[1000] µg/L
S 181.975 Axial†	359.6	19.96	5.55%	[2000] µg/L
Sb 206.836†	950.7	75.14	7.90%	[1000] µg/L
Se 196.026†	665.0	43.02	6.47%	[1000] µg/L
SiO2†	52387.2	1763.65	3.37%	[10695] µg/L
Si 251.611†	61749.5	2100.29	3.40%	[5000] µg/L
Sn 189.927†	1775.8	177.97	10.02%	[1000] µg/L
Sr 421.552†	166819.8	589.18	0.35%	[1000] µg/L
Ti 334.940†	414550.8	12059.39	2.91%	[1000] µg/L
Tl 190.801†	600.0	36.24	6.04%	[1000] µg/L
U 409.014†	10786.7	542.42	5.03%	[1000] µg/L
V 292.402†	83166.5	4321.84	5.20%	[1000] µg/L
Zn 213.857†	35573.4	1637.80	4.60%	[1000] µg/L

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

Autosampler Location: 5
 Date Collected: 1/29/2010 06:29:49
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	79716.7	79716.7	102 %	06:30:22
1	Al 396.153Radial†	78496.7	77308.9	[50000] µg/L	06:30:22
1	Ca 317.933Radial†	70941.5	69594.2	[50000] µg/L	06:30:22
1	Fe 238.204 Radial†	1575.0	1534.3	[20000] µg/L	06:30:42
1	Mg 279.077 IEC†	5020.7	4934.7	[50000] µg/L	06:30:42
1	Na 589.592 Radial†	77315.4	75562.8	[20000] µg/L	06:30:22
1	Sc 361.383	2008171.4	2008171.4	101.60 %	06:31:45
1	Y 371.029	1255104.6	1255104.6	100.48 %	06:31:45
2	Sc RADIAL	79442.6	79442.6	101 %	06:30:47
2	Al 396.153Radial†	78081.7	77165.6	[50000] µg/L	06:30:47
2	Ca 317.933Radial†	70417.1	69317.1	[50000] µg/L	06:30:47
2	Fe 238.204 Radial†	1578.8	1543.3	[20000] µg/L	06:31:08
2	Mg 279.077 IEC†	4998.0	4929.3	[50000] µg/L	06:31:08
2	Na 589.592 Radial†	77062.9	75575.9	[20000] µg/L	06:30:47
2	Sc 361.383	2006995.9	2006995.9	101.55 %	06:31:53
2	Y 371.029	1254366.8	1254366.8	100.42 %	06:31:53
3	Sc RADIAL	79515.0	79515.0	101 %	06:31:13
3	Al 396.153Radial†	78405.5	77414.9	[50000] µg/L	06:31:13
3	Ca 317.933Radial†	70864.1	69695.0	[50000] µg/L	06:31:13
3	Fe 238.204 Radial†	1520.3	1484.2	[20000] µg/L	06:31:34
3	Mg 279.077 IEC†	4834.2	4763.1	[50000] µg/L	06:31:34
3	Na 589.592 Radial†	77349.0	75788.9	[20000] µg/L	06:31:13
3	Sc 361.383	1992141.0	1992141.0	100.79 %	06:32:01
3	Y 371.029	1245087.6	1245087.6	99.678 %	06:32:01

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	2002436.1	8935.19	0.45%	101.31 %
Sc RADIAL	79558.1	142.05	0.18%	101 %
Y 371.029	1251519.7	5582.56	0.45%	100.19 %
Al 396.153Radial†	77296.4	125.09	0.16%	[50000] µg/L
Ca 317.933Radial†	69535.4	195.64	0.28%	[50000] µg/L
Fe 238.204 Radial†	1520.6	31.85	2.09%	[20000] µg/L
Mg 279.077 IEC†	4875.7	97.55	2.00%	[50000] µg/L
Na 589.592 Radial†	75642.5	126.95	0.17%	[20000] µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	110.8	0.00000	0.999970	
Al 396.153Radial	3	Lin Thru 0	0.0	1.544	0.00000	0.999984	
As 188.979	3	Lin Thru 0	0.0	0.4588	0.00000	0.999916	
B 249.677	3	Lin Thru 0	0.0	21.11	0.00000	0.999949	
Ba 233.527	3	Lin Thru 0	0.0	35.80	0.00000	0.999962	
Be 313.107	3	Lin Thru 0	0.0	1486	0.00000	0.999971	
Ca 317.933Radial	3	Lin Thru 0	0.0	1.388	0.00000	0.999955	
Cd 226.502	3	Lin Thru 0	0.0	35.29	0.00000	0.999955	
Co 228.616	3	Lin Thru 0	0.0	18.80	0.00000	0.999975	
Cr 267.716	3	Lin Thru 0	0.0	44.63	0.00000	0.999947	
Cu 324.752	3	Lin Thru 0	0.0	136.4	0.00000	0.999951	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0755	0.00000	0.999908	
K 766.490 Radial	3	Lin Thru 0	0.0	1.585	0.00000	0.999995	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0974	0.00000	0.999994	
Mn 257.610	3	Lin Thru 0	0.0	282.1	0.00000	0.999901	
Mo 202.031	3	Lin Thru 0	0.0	8.255	0.00000	0.999820	
Na 589.592 Radia	2	Lin Thru 0	0.0	3.756	0.00000	0.999904	

Ni 231.604	3	Lin Thru 0	0.0	16.52	0.00000	0.999956
P 214.914	3	Lin Thru 0	0.0	0.4339	0.00000	0.999957
Pb 220.353	3	Lin Thru 0	0.0	3.565	0.00000	0.999963
S 181.975 Axial	3	Lin Thru 0	0.0	0.1799	0.00000	0.999881
Sb 206.836	3	Lin Thru 0	0.0	0.9455	0.00000	0.999879
Se 196.026	3	Lin Thru 0	0.0	0.6653	0.00000	0.999933
SiO2	3	Lin Thru 0	0.0	4.898	0.00000	0.999971
Si 251.611	3	Lin Thru 0	0.0	12.34	0.00000	0.999971
Sn 189.927	3	Lin Thru 0	0.0	1.774	0.00000	0.999934
Sr 421.552	3	Lin Thru 0	0.0	167.2	0.00000	0.999980
Ti 334.940	3	Lin Thru 0	0.0	413.7	0.00000	0.999972
Tl 190.801	3	Lin Thru 0	0.0	0.6005	0.00000	0.999950
U 409.014	3	Lin Thru 0	0.0	10.76	0.00000	0.999915
V 292.402	3	Lin Thru 0	0.0	83.11	0.00000	0.999958
Zn 213.857	3	Lin Thru 0	0.0	35.57	0.00000	0.999954

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 1/29/2010 06:32:11

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	79928.9	79928.9	102 %		06:32:44
1	Al 396.153Radial†	7863.1	7750.1	5008.5 µg/L	5008.5 ppb	06:32:44
1	Ca 317.933Radial†	7191.5	6814.0	4909.8 µg/L	4909.8 ppb	06:32:44
1	Fe 238.204 Radial†	403.4	379.7	5039.9 µg/L	5039.9 ppb	06:33:04
1	K 766.490 Radial†	4314.2	3837.3	2421.0 µg/L	2421.0 ppb	06:32:44
1	Mg 279.077 IEC†	477.4	460.6	4730.4 µg/L	4730.4 ppb	06:33:04
1	Na 589.592 Radial†	9870.7	9138.1	2432.9 µg/L	2432.9 ppb	06:32:44
1	Sr 421.552†	91682.7	89387.2	534.71 µg/L	534.71 ppb	06:32:44
1	Sc 361.383	1987278.7	1987278.7	100.55 %		06:34:08
1	Y 371.029	1252104.6	1252104.6	100.24 %		06:34:08
1	Ag 328.068†	28322.5	28260.8	258.77 µg/L	258.77 ppb	06:34:13
1	As 188.979†	238.7	240.1	522.34 µg/L	522.34 ppb	06:34:34
1	B 249.677†	11991.7	11556.5	545.61 µg/L	545.61 ppb	06:34:13
1	Ba 233.527†	19458.7	19376.6	542.16 µg/L	542.16 ppb	06:34:13
1	Be 313.107†	389930.5	383972.9	258.16 µg/L	258.16 ppb	06:34:08
1	Cd 226.502†	18926.4	18948.6	536.81 µg/L	536.81 ppb	06:34:13
1	Co 228.616†	10250.1	10243.6	544.39 µg/L	544.39 ppb	06:34:13
1	Cr 267.716†	23613.0	23586.5	528.82 µg/L	528.82 ppb	06:34:13
1	Cu 324.752†	78591.2	74263.2	545.22 µg/L	545.22 ppb	06:34:13
1	Mn 257.610†	141474.8	140852.0	499.74 µg/L	499.74 ppb	06:34:13
1	Mo 202.031†	4459.9	4423.0	536.02 µg/L	536.02 ppb	06:34:34
1	Ni 231.604†	8653.6	8275.0	500.46 µg/L	500.46 ppb	06:34:13
1	P 214.914†	1442.0	1214.3	2746.4 µg/L	2746.4 ppb	06:34:34
1	Pb 220.353†	2032.6	1960.4	550.13 µg/L	550.13 ppb	06:34:34
1	S 181.975 Axial†	483.2	457.4	2543.0 µg/L	2543.0 ppb	06:34:34
1	Sb 206.836†	512.9	486.1	516.52 µg/L	516.52 ppb	06:34:34
1	Se 196.026†	1892.1	1873.8	2835.8 µg/L	2835.8 ppb	06:34:34
1	SiO2†	57325.7	54624.1	11153 µg/L	11153 ppb	06:34:13
1	Si 251.611†	64706.3	64071.5	5190.1 µg/L	5190.1 ppb	06:34:13
1	Sn 189.927†	1017.3	988.3	559.55 µg/L	559.55 ppb	06:34:34
1	Ti 334.940†	204780.4	202961.2	490.33 µg/L	490.33 ppb	06:34:08
1	Tl 190.801†	300.2	323.1	542.17 µg/L	542.17 ppb	06:34:34
1	U 409.014†	5086.1	5244.6	486.47 µg/L	486.47 ppb	06:34:13
1	V 292.402†	42507.4	42391.2	516.19 µg/L	516.19 ppb	06:34:13
1	Zn 213.857†	19016.5	18280.7	510.28 µg/L	510.28 ppb	06:34:13
2	Sc RADIAL	80932.1	80932.1	103 %		06:33:10
2	Al 396.153Radial†	7837.5	7629.6	4930.5 µg/L	4930.5 ppb	06:33:10
2	Ca 317.933Radial†	7204.8	6739.4	4856.0 µg/L	4856.0 ppb	06:33:10
2	Fe 238.204 Radial†	409.7	381.0	5056.4 µg/L	5056.4 ppb	06:33:30
2	K 766.490 Radial†	4336.8	3806.8	2401.7 µg/L	2401.7 ppb	06:33:10
2	Mg 279.077 IEC†	492.8	469.7	4824.2 µg/L	4824.2 ppb	06:33:30
2	Na 589.592 Radial†	9853.9	9001.7	2396.6 µg/L	2396.6 ppb	06:33:10
2	Sr 421.552†	91248.9	87850.7	525.52 µg/L	525.52 ppb	06:33:10
2	Sc 361.383	1984521.4	1984521.4	100.41 %		06:34:40
2	Y 371.029	1250390.4	1250390.4	100.10 %		06:34:40
2	Ag 328.068†	28694.2	28670.1	262.51 µg/L	262.51 ppb	06:34:46
2	As 188.979†	245.9	247.6	538.66 µg/L	538.66 ppb	06:35:06
2	B 249.677†	12257.5	11837.7	558.94 µg/L	558.94 ppb	06:34:46
2	Ba 233.527†	19731.6	19675.3	550.52 µg/L	550.52 ppb	06:34:46
2	Be 313.107†	393202.7	387770.6	260.72 µg/L	260.72 ppb	06:34:40
2	Cd 226.502†	19168.3	19215.7	544.38 µg/L	544.38 ppb	06:34:46
2	Co 228.616†	10409.0	10416.0	553.55 µg/L	553.55 ppb	06:34:46
2	Cr 267.716†	23953.2	23958.0	537.14 µg/L	537.14 ppb	06:34:46
2	Cu 324.752†	79714.3	75490.3	554.22 µg/L	554.22 ppb	06:34:46
2	Mn 257.610†	143465.5	143030.2	507.45 µg/L	507.45 ppb	06:34:46
2	Mo 202.031†	4436.5	4405.9	533.95 µg/L	533.95 ppb	06:35:06
2	Ni 231.604†	8774.6	8407.5	508.47 µg/L	508.47 ppb	06:34:46
2	P 214.914†	1436.2	1210.5	2736.7 µg/L	2736.7 ppb	06:35:06
2	Pb 220.353†	2007.1	1937.8	543.76 µg/L	543.76 ppb	06:35:06

2	S 181.975 Axial†	481.3	456.2	2536.2 µg/L	2536.2 ppb	06:35:06
2	Sb 206.836†	506.8	480.7	510.67 µg/L	510.67 ppb	06:35:06
2	Se 196.026†	1892.1	1876.5	2839.8 µg/L	2839.8 ppb	06:35:06
2	SiO2†	58117.8	55492.1	11330 µg/L	11330 ppb	06:34:46
2	Si 251.611†	65621.4	65072.3	5271.2 µg/L	5271.2 ppb	06:34:46
2	Sn 189.927†	1016.3	988.7	559.77 µg/L	559.77 ppb	06:35:06
2	Ti 334.940†	206425.7	204882.8	494.96 µg/L	494.96 ppb	06:34:40
2	Tl 190.801†	296.0	319.4	535.98 µg/L	535.98 ppb	06:35:06
2	U 409.014†	5189.5	5354.6	496.70 µg/L	496.70 ppb	06:34:46
2	V 292.402†	43059.1	42999.4	523.53 µg/L	523.53 ppb	06:34:46
2	Zn 213.857†	19315.0	18604.2	519.32 µg/L	519.32 ppb	06:34:46
3	Sc RADIAL	79818.3	79818.3	102 %		06:33:36
3	Al 396.153Radial†	7951.1	7847.3	5073.0 µg/L	5073.0 ppb	06:33:36
3	Ca 317.933Radial†	7319.9	6950.0	5007.8 µg/L	5007.8 ppb	06:33:36
3	Fe 238.204 Radial†	406.5	383.4	5087.7 µg/L	5087.7 ppb	06:33:56
3	K 766.490 Radial†	4382.6	3910.5	2467.1 µg/L	2467.1 ppb	06:33:36
3	Mg 279.077 IEC†	491.3	474.9	4875.7 µg/L	4875.7 ppb	06:33:56
3	Na 589.592 Radial†	9904.3	9184.7	2445.3 µg/L	2445.3 ppb	06:33:36
3	Sr 421.552†	92698.1	90510.4	541.43 µg/L	541.43 ppb	06:33:36
3	Sc 361.383	1982848.1	1982848.1	100.32 %		06:35:13
3	Y 371.029	1248683.6	1248683.6	99.966 %		06:35:13
3	Ag 328.068†	27621.7	27625.2	252.84 µg/L	252.84 ppb	06:35:19
3	As 188.979†	213.0	215.0	467.84 µg/L	467.84 ppb	06:35:39
3	B 249.677†	11681.8	11274.2	532.16 µg/L	532.16 ppb	06:35:19
3	Ba 233.527†	18671.7	18635.4	521.41 µg/L	521.41 ppb	06:35:19
3	Be 313.107†	379861.1	374802.5	252.00 µg/L	252.00 ppb	06:35:13
3	Cd 226.502†	18080.1	18147.0	514.07 µg/L	514.07 ppb	06:35:19
3	Co 228.616†	9710.9	9728.9	516.97 µg/L	516.97 ppb	06:35:19
3	Cr 267.716†	21991.7	22023.0	493.76 µg/L	493.76 ppb	06:35:19
3	Cu 324.752†	74691.9	70551.1	518.01 µg/L	518.01 ppb	06:35:19
3	Mn 257.610†	134263.1	133978.0	475.37 µg/L	475.37 ppb	06:35:19
3	Mo 202.031†	3848.5	3823.6	463.40 µg/L	463.40 ppb	06:35:39
3	Ni 231.604†	8223.5	7865.5	475.70 µg/L	475.70 ppb	06:35:19
3	P 214.914†	1280.7	1056.7	2385.0 µg/L	2385.0 ppb	06:35:39
3	Pb 220.353†	1810.1	1743.1	489.06 µg/L	489.06 ppb	06:35:39
3	S 181.975 Axial†	437.8	413.2	2297.3 µg/L	2297.3 ppb	06:35:39
3	Sb 206.836†	453.0	427.6	453.77 µg/L	453.77 ppb	06:35:39
3	Se 196.026†	1708.0	1694.6	2566.5 µg/L	2566.5 ppb	06:35:39
3	SiO2†	55274.1	52706.5	10761 µg/L	10761 ppb	06:35:19
3	Si 251.611†	62208.5	61725.5	5000.1 µg/L	5000.1 ppb	06:35:19
3	Sn 189.927†	866.4	840.2	476.10 µg/L	476.10 ppb	06:35:39
3	Ti 334.940†	198834.1	197489.1	477.09 µg/L	477.09 ppb	06:35:13
3	Tl 190.801†	263.7	287.4	482.44 µg/L	482.44 ppb	06:35:39
3	U 409.014†	4753.0	4923.9	456.65 µg/L	456.65 ppb	06:35:19
3	V 292.402†	39970.5	39956.9	486.23 µg/L	486.23 ppb	06:35:19
3	Zn 213.857†	18077.7	17387.2	485.30 µg/L	485.30 ppb	06:35:19

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1984882.7	100.43 %	0.113			0.11%
Sc RADIAL	80226.4	102 %	0.8			0.76%
Y 371.029	1250392.9	100.10 %	0.137			0.14%
Ag 328.068†	28185.4	258.04 µg/L	4.876	258.04 ppb	4.876	1.89%
QC value within limits for Ag 328.068 Recovery = 103.22%						
Al 396.153Radial†	7742.3	5004.0 µg/L	71.36	5004.0 ppb	71.36	1.43%
QC value within limits for Al 396.153Radial Recovery = 100.08%						
As 188.979†	234.2	509.62 µg/L	37.084	509.62 ppb	37.084	7.28%
QC value within limits for As 188.979 Recovery = 101.92%						
B 249.677†	11556.1	545.57 µg/L	13.388	545.57 ppb	13.388	2.45%
QC value within limits for B 249.677 Recovery = 109.11%						
Ba 233.527†	19229.1	538.03 µg/L	14.991	538.03 ppb	14.991	2.79%
QC value within limits for Ba 233.527 Recovery = 107.61%						
Be 313.107†	382182.0	256.96 µg/L	4.482	256.96 ppb	4.482	1.74%
QC value within limits for Be 313.107 Recovery = 102.78%						
Ca 317.933Radial†	6834.4	4924.5 µg/L	76.96	4924.5 ppb	76.96	1.56%
QC value within limits for Ca 317.933Radial Recovery = 98.49%						
Cd 226.502†	18770.4	531.75 µg/L	15.777	531.75 ppb	15.777	2.97%
QC value within limits for Cd 226.502 Recovery = 106.35%						
Co 228.616†	10129.5	538.30 µg/L	19.033	538.30 ppb	19.033	3.54%

QC value within limits for Co 228.616 Recovery = 107.66%							
Cr 267.716†	23189.1	519.91 µg/L	23.021	519.91 ppb	23.021	4.43%	
QC value within limits for Cr 267.716 Recovery = 103.98%							
Cu 324.752†	73434.9	539.15 µg/L	18.854	539.15 ppb	18.854	3.50%	
QC value within limits for Cu 324.752 Recovery = 107.83%							
Fe 238.204 Radial†	381.4	5061.4 µg/L	24.29	5061.4 ppb	24.29	0.48%	
QC value within limits for Fe 238.204 Radial Recovery = 101.23%							
K 766.490 Radial†	3851.5	2429.9 µg/L	33.62	2429.9 ppb	33.62	1.38%	
QC value within limits for K 766.490 Radial Recovery = 97.20%							
Mg 279.077 IEC†	468.4	4810.1 µg/L	73.68	4810.1 ppb	73.68	1.53%	
QC value within limits for Mg 279.077 IEC Recovery = 96.20%							
Mn 257.610†	139286.7	494.19 µg/L	16.746	494.19 ppb	16.746	3.39%	
QC value within limits for Mn 257.610 Recovery = 98.84%							
Mo 202.031†	4217.5	511.12 µg/L	41.341	511.12 ppb	41.341	8.09%	
QC value within limits for Mo 202.031 Recovery = 102.22%							
Na 589.592 Radial†	9108.2	2424.9 µg/L	25.31	2424.9 ppb	25.31	1.04%	
QC value within limits for Na 589.592 Radial Recovery = 97.00%							
Ni 231.604†	8182.7	494.87 µg/L	17.085	494.87 ppb	17.085	3.45%	
QC value within limits for Ni 231.604 Recovery = 98.97%							
P 214.914†	1160.5	2622.7 µg/L	205.94	2622.7 ppb	205.94	7.85%	
QC value within limits for P 214.914 Recovery = 104.91%							
Pb 220.353†	1880.4	527.65 µg/L	33.571	527.65 ppb	33.571	6.36%	
QC value within limits for Pb 220.353 Recovery = 105.53%							
S 181.975 Axial†	442.3	2458.8 µg/L	139.96	2458.8 ppb	139.96	5.69%	
QC value within limits for S 181.975 Axial Recovery = 98.35%							
Sb 206.836†	464.8	493.65 µg/L	34.665	493.65 ppb	34.665	7.02%	
QC value within limits for Sb 206.836 Recovery = 98.73%							
Se 196.026†	1815.0	2747.3 µg/L	156.63	2747.3 ppb	156.63	5.70%	
QC value within limits for Se 196.026 Recovery = 109.89%							
SiO2†	54274.2	11081 µg/L	291.0	11081 ppb	291.0	2.63%	
QC value within limits for SiO2 Recovery = 103.61%							
Si 251.611†	63623.1	5153.8 µg/L	139.15	5153.8 ppb	139.15	2.70%	
QC value within limits for Si 251.611 Recovery = 103.08%							
Sn 189.927†	939.1	531.81 µg/L	48.243	531.81 ppb	48.243	9.07%	
QC value within limits for Sn 189.927 Recovery = 106.36%							
Sr 421.552†	89249.4	533.88 µg/L	7.987	533.88 ppb	7.987	1.50%	
QC value within limits for Sr 421.552 Recovery = 106.78%							
Ti 334.940†	201777.7	487.46 µg/L	9.276	487.46 ppb	9.276	1.90%	
QC value within limits for Ti 334.940 Recovery = 97.49%							
Tl 190.801†	309.9	520.20 µg/L	32.842	520.20 ppb	32.842	6.31%	
QC value within limits for Tl 190.801 Recovery = 104.04%							
U 409.014†	5174.4	479.94 µg/L	20.807	479.94 ppb	20.807	4.34%	
QC value within limits for U 409.014 Recovery = 95.99%							
V 292.402†	41782.5	508.65 µg/L	19.757	508.65 ppb	19.757	3.88%	
QC value within limits for V 292.402 Recovery = 101.73%							
Zn 213.857†	18090.7	504.96 µg/L	17.617	504.96 ppb	17.617	3.49%	
QC value within limits for Zn 213.857 Recovery = 100.99%							
All analyte(s) passed QC.							

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 1/29/2010 06:35:50

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	77995.9	77995.9	99.4 %		06:36:22
1	Al 396.153Radial†	-7.2	22.2	14.359 µg/L	14.359 ppb	06:36:22
1	Ca 317.933Radial†	252.4	6.8	4.9021 µg/L	4.9021 ppb	06:36:43
1	Fe 238.204 Radial†	17.6	1.3	17.681 µg/L	17.681 ppb	06:36:43
1	K 766.490 Radial†	396.0	-0.3	-0.1812 µg/L	-0.1812 ppb	06:36:22
1	Mg 279.077 IEC†	10.5	2.5	25.193 µg/L	25.193 ppb	06:36:43
1	Na 589.592 Radial†	519.5	-30.9	-8.2362 µg/L	-8.2362 ppb	06:36:22
1	Sr 421.552†	645.2	15.2	0.0908 µg/L	0.0908 ppb	06:36:22
1	Sc 361.383	1960605.6	1960605.6	99.198 %		06:37:45
1	Y 371.029	1239249.6	1239249.6	99.211 %		06:37:45
1	Ag 328.068†	-94.2	-2.3	-0.0208 µg/L	-0.0208 ppb	06:37:50
1	As 188.979†	-2.2	0.5	1.0624 µg/L	1.0624 ppb	06:38:11
1	B 249.677†	380.1	13.3	0.6192 µg/L	0.6192 ppb	06:37:50
1	Ba 233.527†	-20.1	3.7	0.1042 µg/L	0.1042 ppb	06:38:11
1	Be 313.107†	3907.2	105.0	0.0706 µg/L	0.0706 ppb	06:37:50
1	Cd 226.502†	-105.8	18.6	0.5264 µg/L	0.5264 ppb	06:38:11
1	Co 228.616†	-50.4	-1.5	-0.0807 µg/L	-0.0807 ppb	06:38:11
1	Cr 267.716†	-91.9	9.5	0.2138 µg/L	0.2138 ppb	06:37:50
1	Cu 324.752†	3935.5	67.4	0.4965 µg/L	0.4965 ppb	06:37:50
1	Mn 257.610†	-139.9	6.8	0.0255 µg/L	0.0255 ppb	06:38:11
1	Mo 202.031†	23.3	10.9	1.3231 µg/L	1.3231 ppb	06:38:11
1	Ni 231.604†	329.4	0.7	0.0426 µg/L	0.0426 ppb	06:38:11
1	P 214.914†	218.6	0.6	1.2664 µg/L	1.2664 ppb	06:38:11
1	Pb 220.353†	57.4	-3.3	-0.9263 µg/L	-0.9263 ppb	06:38:11
1	S 181.975 Axial†	21.0	-2.0	-10.861 µg/L	-10.861 ppb	06:38:11
1	Sb 206.836†	28.3	4.5	4.8136 µg/L	4.8136 ppb	06:38:11
1	Se 196.026†	5.1	-2.8	-4.1480 µg/L	-4.1480 ppb	06:38:11
1	SiO2†	2379.6	9.4	1.9247 µg/L	1.9247 ppb	06:37:50
1	Si 251.611†	300.7	20.7	1.6782 µg/L	1.6782 ppb	06:38:11
1	Sn 189.927†	30.0	6.8	3.8184 µg/L	3.8184 ppb	06:38:11
1	Ti 334.940†	737.3	39.3	0.0932 µg/L	0.0932 ppb	06:37:50
1	Tl 190.801†	-25.0	-0.6	-1.0624 µg/L	-1.0624 ppb	06:38:11
1	U 409.014†	-156.3	28.7	2.6636 µg/L	2.6636 ppb	06:37:50
1	V 292.402†	-126.2	-11.9	-0.1292 µg/L	-0.1292 ppb	06:37:50
1	Zn 213.857†	645.3	18.3	0.5104 µg/L	0.5104 ppb	06:38:11
2	Sc RADIAL	76938.5	76938.5	98.0 %		06:36:48
2	Al 396.153Radial†	-31.9	-3.1	-2.0123 µg/L	-2.0123 ppb	06:36:48
2	Ca 317.933Radial†	255.6	13.5	9.7238 µg/L	9.7238 ppb	06:37:09
2	Fe 238.204 Radial†	16.8	0.8	10.164 µg/L	10.164 ppb	06:37:09
2	K 766.490 Radial†	429.2	39.1	24.673 µg/L	24.673 ppb	06:36:48
2	Mg 279.077 IEC†	13.3	5.4	55.337 µg/L	55.337 ppb	06:37:09
2	Na 589.592 Radial†	529.9	-13.1	-3.4938 µg/L	-3.4938 ppb	06:36:48
2	Sr 421.552†	755.9	137.0	0.8198 µg/L	0.8198 ppb	06:36:48
2	Sc 361.383	1969612.5	1969612.5	99.654 %		06:38:17
2	Y 371.029	1244668.3	1244668.3	99.644 %		06:38:17
2	Ag 328.068†	-104.8	-12.6	-0.1102 µg/L	-0.1102 ppb	06:38:22
2	As 188.979†	0.6	3.3	7.1431 µg/L	7.1431 ppb	06:38:43
2	B 249.677†	374.4	5.7	0.2675 µg/L	0.2675 ppb	06:38:22
2	Ba 233.527†	-11.6	12.3	0.3443 µg/L	0.3443 ppb	06:38:43
2	Be 313.107†	3891.8	71.6	0.0480 µg/L	0.0480 ppb	06:38:22
2	Cd 226.502†	-103.3	21.6	0.6117 µg/L	0.6117 ppb	06:38:43
2	Co 228.616†	-40.5	8.7	0.4612 µg/L	0.4612 ppb	06:38:43
2	Cr 267.716†	-49.2	52.7	1.1821 µg/L	1.1821 ppb	06:38:22
2	Cu 324.752†	3969.6	83.5	0.6134 µg/L	0.6134 ppb	06:38:22
2	Mn 257.610†	-8.8	139.0	0.4918 µg/L	0.4918 ppb	06:38:43
2	Mo 202.031†	18.8	6.3	0.7600 µg/L	0.7600 ppb	06:38:43
2	Ni 231.604†	345.3	15.1	0.9134 µg/L	0.9134 ppb	06:38:43
2	P 214.914†	218.6	-0.5	-1.2611 µg/L	-1.2611 ppb	06:38:43
2	Pb 220.353†	72.4	11.5	3.2422 µg/L	3.2422 ppb	06:38:43

2	S 181.975 Axial†	27.2	4.2	23.371 µg/L	23.371 ppb	06:38:43
2	Sb 206.836†	25.6	1.7	1.8128 µg/L	1.8128 ppb	06:38:43
2	Se 196.026†	6.5	-1.5	-2.1619 µg/L	-2.1619 ppb	06:38:43
2	SiO2†	2374.0	-7.2	-1.4707 µg/L	-1.4707 ppb	06:38:22
2	Si 251.611†	348.3	67.0	5.4307 µg/L	5.4307 ppb	06:38:43
2	Sn 189.927†	26.4	3.1	1.7507 µg/L	1.7507 ppb	06:38:43
2	Ti 334.940†	808.5	107.4	0.2554 µg/L	0.2554 ppb	06:38:22
2	Tl 190.801†	-23.5	1.0	1.6427 µg/L	1.6427 ppb	06:38:43
2	U 409.014†	-267.1	-81.8	-7.6045 µg/L	-7.6045 ppb	06:38:22
2	V 292.402†	-80.6	34.4	0.4156 µg/L	0.4156 ppb	06:38:22
2	Zn 213.857†	662.3	32.4	0.9009 µg/L	0.9009 ppb	06:38:43
3	Sc RADIAL	76991.3	76991.3	98.1 %		06:37:14
3	Al 396.153Radial†	-12.3	16.9	10.942 µg/L	10.942 ppb	06:37:14
3	Ca 317.933Radial†	247.6	5.2	3.7205 µg/L	3.7205 ppb	06:37:34
3	Fe 238.204 Radial†	17.8	1.9	24.574 µg/L	24.574 ppb	06:37:34
3	K 766.490 Radial†	423.4	32.9	20.754 µg/L	20.754 ppb	06:37:14
3	Mg 279.077 IEC†	9.2	1.2	12.747 µg/L	12.747 ppb	06:37:34
3	Na 589.592 Radial†	518.4	-25.3	-6.7265 µg/L	-6.7265 ppb	06:37:14
3	Sr 421.552†	635.3	13.6	0.0813 µg/L	0.0813 ppb	06:37:14
3	Sc 361.383	1959006.8	1959006.8	99.117 %		06:38:49
3	Y 371.029	1238702.0	1238702.0	99.167 %		06:38:49
3	Ag 328.068†	-45.5	46.7	0.4229 µg/L	0.4229 ppb	06:38:54
3	As 188.979†	-4.3	-1.6	-3.4467 µg/L	-3.4467 ppb	06:39:15
3	B 249.677†	360.8	-6.0	-0.2929 µg/L	-0.2929 ppb	06:38:54
3	Ba 233.527†	-4.5	19.4	0.5413 µg/L	0.5413 ppb	06:39:15
3	Be 313.107†	4146.2	349.3	0.2349 µg/L	0.2349 ppb	06:38:54
3	Cd 226.502†	-104.8	19.5	0.5501 µg/L	0.5501 ppb	06:39:15
3	Co 228.616†	-46.6	2.3	0.1241 µg/L	0.1241 ppb	06:39:15
3	Cr 267.716†	-42.6	59.1	1.3247 µg/L	1.3247 ppb	06:38:54
3	Cu 324.752†	4021.8	157.7	1.1597 µg/L	1.1597 ppb	06:38:54
3	Mn 257.610†	-46.7	100.8	0.3600 µg/L	0.3600 ppb	06:39:15
3	Mo 202.031†	22.4	10.0	1.2150 µg/L	1.2150 ppb	06:39:15
3	Ni 231.604†	326.1	-2.4	-0.1473 µg/L	-0.1473 ppb	06:39:15
3	P 214.914†	215.3	-2.7	-6.2944 µg/L	-6.2944 ppb	06:39:15
3	Pb 220.353†	62.0	1.4	0.3900 µg/L	0.3900 ppb	06:39:15
3	S 181.975 Axial†	23.5	0.5	3.0563 µg/L	3.0563 ppb	06:39:15
3	Sb 206.836†	18.4	-5.5	-5.7930 µg/L	-5.7930 ppb	06:39:15
3	Se 196.026†	13.2	5.3	8.1326 µg/L	8.1326 ppb	06:39:15
3	SiO2†	2403.5	35.5	7.2565 µg/L	7.2565 ppb	06:38:54
3	Si 251.611†	312.7	33.0	2.6750 µg/L	2.6750 ppb	06:39:15
3	Sn 189.927†	22.4	-0.8	-0.4515 µg/L	-0.4515 ppb	06:39:15
3	Ti 334.940†	809.3	112.7	0.2714 µg/L	0.2714 ppb	06:38:54
3	Tl 190.801†	-19.3	5.1	8.4313 µg/L	8.4313 ppb	06:39:15
3	U 409.014†	-225.6	-41.4	-3.8526 µg/L	-3.8526 ppb	06:38:54
3	V 292.402†	-112.5	1.8	0.0319 µg/L	0.0319 ppb	06:38:54
3	Zn 213.857†	647.7	21.2	0.5936 µg/L	0.5936 ppb	06:39:15

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1963075.0	99.323 %	0.2893			0.29%
Sc RADIAL	77308.6	98.5 %	0.76			0.77%
Y 371.029	1240873.3	99.341 %	0.2640			0.27%
Ag 328.068†	10.6	0.0973 µg/L	0.28549	0.0973 ppb	0.28549	293.44%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.0	7.7628 µg/L	8.63614	7.7628 ppb	8.63614	111.25%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.7	1.5863 µg/L	5.31432	1.5863 ppb	5.31432	335.02%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	4.3	0.1979 µg/L	0.46001	0.1979 ppb	0.46001	232.42%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	11.8	0.3299 µg/L	0.21893	0.3299 ppb	0.21893	66.36%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	175.3	0.1179 µg/L	0.10202	0.1179 ppb	0.10202	86.55%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	8.5	6.1154 µg/L	3.18024	6.1154 ppb	3.18024	52.00%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	19.9	0.5627 µg/L	0.04400	0.5627 ppb	0.04400	7.82%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.2	0.1682 µg/L	0.27362	0.1682 ppb	0.27362	162.68%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	40.5	0.9069 µg/L	0.60444	0.9069 ppb	0.60444	66.65%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	102.8	0.7565 µg/L	0.35399	0.7565 ppb	0.35399	46.79%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.3	17.473 µg/L	7.2071	17.473 ppb	7.2071	41.25%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	23.9	15.082 µg/L	13.3626	15.082 ppb	13.3626	88.60%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	3.0	31.092 µg/L	21.8995	31.092 ppb	21.8995	70.43%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	82.2	0.2924 µg/L	0.24036	0.2924 ppb	0.24036	82.20%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.1	1.0994 µg/L	0.29883	1.0994 ppb	0.29883	27.18%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-23.1	-6.1522 µg/L	2.42277	-6.1522 ppb	2.42277	39.38%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	4.5	0.2696 µg/L	0.56559	0.2696 ppb	0.56559	209.82%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.9	-2.0964 µg/L	3.84901	-2.0964 ppb	3.84901	183.60%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	3.2	0.9020 µg/L	2.13087	0.9020 ppb	2.13087	236.25%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	0.9	5.1886 µg/L	17.21508	5.1886 ppb	17.21508	331.79%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	0.3	0.2778 µg/L	5.46740	0.2778 ppb	5.46740	>999.9%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.4	0.6075 µg/L	6.59210	0.6075 ppb	6.59210	>999.9%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	12.6	2.5701 µg/L	4.39926	2.5701 ppb	4.39926	171.17%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	40.3	3.2613 µg/L	1.94378	3.2613 ppb	1.94378	59.60%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	3.0	1.7059 µg/L	2.13530	1.7059 ppb	2.13530	125.17%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	55.3	0.3306 µg/L	0.42362	0.3306 ppb	0.42362	128.12%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	86.5	0.2067 µg/L	0.09861	0.2067 ppb	0.09861	47.71%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.8	3.0039 µg/L	4.89101	3.0039 ppb	4.89101	162.82%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-31.5	-2.9312 µg/L	5.19569	-2.9312 ppb	5.19569	177.25%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	8.1	0.1061 µg/L	0.27987	0.1061 ppb	0.27987	263.84%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	24.0	0.6683 µg/L	0.20568	0.6683 ppb	0.20568	30.78%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 1/29/2010 06:39:24

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	77426.3	77426.3	98.7 %		06:39:57
1	Al 396.153Radial†	302.9	336.5	217.71 µg/L	217.71 ppb	06:39:57
1	Ca 317.933Radial†	539.1	299.3	215.65 µg/L	215.65 ppb	06:40:17
1	Fe 238.204 Radial†	25.9	9.9	130.80 µg/L	130.80 ppb	06:40:17
1	K 766.490 Radial†	672.2	282.6	178.32 µg/L	178.32 ppb	06:39:57
1	Mg 279.077 IEC†	39.0	31.4	321.93 µg/L	321.93 ppb	06:40:17
1	Na 589.592 Radial†	1680.3	1149.5	306.03 µg/L	306.03 ppb	06:39:57
1	Sr 421.552†	1591.7	979.3	5.8582 µg/L	5.8582 ppb	06:39:57
1	Sc 361.383	1954707.3	1954707.3	98.900 %		06:41:19
1	Y 371.029	1236193.9	1236193.9	98.966 %		06:41:19
1	Ag 328.068†	499.6	597.8	5.4421 µg/L	5.4421 ppb	06:41:25
1	As 188.979†	13.6	16.5	35.909 µg/L	35.909 ppb	06:41:45
1	B 249.677†	1506.5	1153.3	54.570 µg/L	54.570 ppb	06:41:25
1	Ba 233.527†	170.3	196.2	5.4903 µg/L	5.4903 ppb	06:41:45
1	Be 313.107†	11759.9	8056.9	5.4189 µg/L	5.4189 ppb	06:41:25
1	Cd 226.502†	71.1	197.2	5.5787 µg/L	5.5787 ppb	06:41:45
1	Co 228.616†	60.5	110.5	5.8774 µg/L	5.8774 ppb	06:41:45
1	Cr 267.716†	166.7	270.7	6.0694 µg/L	6.0694 ppb	06:41:25
1	Cu 324.752†	5458.1	1618.9	11.888 µg/L	11.888 ppb	06:41:25
1	Mn 257.610†	2967.0	3147.8	11.162 µg/L	11.162 ppb	06:41:25
1	Mo 202.031†	107.0	95.6	11.591 µg/L	11.591 ppb	06:41:45
1	Ni 231.604†	426.2	99.5	6.0186 µg/L	6.0186 ppb	06:41:45
1	P 214.914†	297.8	81.3	186.15 µg/L	186.15 ppb	06:41:45
1	Pb 220.353†	108.4	48.4	13.544 µg/L	13.544 ppb	06:41:45
1	S 181.975 Axial†	43.7	21.1	117.06 µg/L	117.06 ppb	06:41:45
1	Sb 206.836†	34.8	11.2	11.962 µg/L	11.962 ppb	06:41:45
1	Se 196.026†	32.7	25.1	38.222 µg/L	38.222 ppb	06:41:45
1	SiO2†	3487.0	1136.4	232.02 µg/L	232.02 ppb	06:41:25
1	Si 251.611†	1623.0	1358.6	110.06 µg/L	110.06 ppb	06:41:45
1	Sn 189.927†	40.8	17.8	10.173 µg/L	10.173 ppb	06:41:45
1	Ti 334.940†	2944.1	2273.0	5.4726 µg/L	5.4726 ppb	06:41:25
1	Tl 190.801†	-10.6	13.8	23.028 µg/L	23.028 ppb	06:41:45
1	U 409.014†	448.0	639.2	59.378 µg/L	59.378 ppb	06:41:25
1	V 292.402†	364.0	483.4	5.9883 µg/L	5.9883 ppb	06:41:25
1	Zn 213.857†	1033.3	412.6	11.528 µg/L	11.528 ppb	06:41:45
2	Sc RADIAL	77597.2	77597.2	98.9 %		06:40:23
2	Al 396.153Radial†	291.4	324.2	209.74 µg/L	209.74 ppb	06:40:23
2	Ca 317.933Radial†	535.0	293.9	211.77 µg/L	211.77 ppb	06:40:43
2	Fe 238.204 Radial†	25.0	8.9	118.08 µg/L	118.08 ppb	06:40:43
2	K 766.490 Radial†	626.4	234.8	148.14 µg/L	148.14 ppb	06:40:23
2	Mg 279.077 IEC†	39.1	31.3	321.77 µg/L	321.77 ppb	06:40:43
2	Na 589.592 Radial†	1712.3	1178.1	313.66 µg/L	313.66 ppb	06:40:23
2	Sr 421.552†	1536.4	919.9	5.5025 µg/L	5.5025 ppb	06:40:23
2	Sc 361.383	1964316.1	1964316.1	99.386 %		06:41:51
2	Y 371.029	1242489.5	1242489.5	99.470 %		06:41:51
2	Ag 328.068†	528.3	624.2	5.6771 µg/L	5.6771 ppb	06:41:57
2	As 188.979†	14.9	17.7	38.614 µg/L	38.614 ppb	06:42:18
2	B 249.677†	1462.0	1101.1	52.106 µg/L	52.106 ppb	06:41:57
2	Ba 233.527†	171.6	196.6	5.5022 µg/L	5.5022 ppb	06:42:18
2	Be 313.107†	11787.7	8026.8	5.3986 µg/L	5.3986 ppb	06:41:57
2	Cd 226.502†	60.5	186.2	5.2674 µg/L	5.2674 ppb	06:42:18
2	Co 228.616†	51.7	101.3	5.3897 µg/L	5.3897 ppb	06:42:18
2	Cr 267.716†	191.7	295.1	6.6149 µg/L	6.6149 ppb	06:41:57
2	Cu 324.752†	5371.0	1504.3	11.046 µg/L	11.046 ppb	06:41:57
2	Mn 257.610†	2986.4	3152.7	11.178 µg/L	11.178 ppb	06:41:57
2	Mo 202.031†	105.1	93.1	11.285 µg/L	11.285 ppb	06:42:18
2	Ni 231.604†	424.6	95.9	5.7992 µg/L	5.7992 ppb	06:42:18
2	P 214.914†	291.2	73.1	167.55 µg/L	167.55 ppb	06:42:18
2	Pb 220.353†	103.2	42.7	11.930 µg/L	11.930 ppb	06:42:18

2	S 181.975 Axial†	41.4	18.6	103.13 µg/L	103.13 ppb	06:42:18
2	Sb 206.836†	34.3	10.5	11.162 µg/L	11.162 ppb	06:42:18
2	Se 196.026†	35.2	27.4	41.627 µg/L	41.627 ppb	06:42:18
2	SiO2†	3506.8	1139.1	232.57 µg/L	232.57 ppb	06:41:57
2	Si 251.611†	1612.1	1339.7	108.52 µg/L	108.52 ppb	06:42:18
2	Sn 189.927†	46.1	22.9	13.048 µg/L	13.048 ppb	06:42:18
2	Ti 334.940†	2927.3	2241.5	5.3965 µg/L	5.3965 ppb	06:41:57
2	Tl 190.801†	-8.0	16.5	27.543 µg/L	27.543 ppb	06:42:18
2	U 409.014†	446.7	635.7	59.052 µg/L	59.052 ppb	06:41:57
2	V 292.402†	329.8	447.1	5.5497 µg/L	5.5497 ppb	06:41:57
2	Zn 213.857†	1031.9	406.0	11.346 µg/L	11.346 ppb	06:42:18
3	Sc RADIAL	77065.9	77065.9	98.2 %		06:40:49
3	Al 396.153Radial†	278.6	313.2	202.64 µg/L	202.64 ppb	06:40:49
3	Ca 317.933Radial†	522.3	284.7	205.11 µg/L	205.11 ppb	06:41:09
3	Fe 238.204 Radial†	24.0	8.1	106.82 µg/L	106.82 ppb	06:41:09
3	K 766.490 Radial†	692.6	306.6	193.42 µg/L	193.42 ppb	06:40:49
3	Mg 279.077 IEC†	41.5	34.1	350.16 µg/L	350.16 ppb	06:41:09
3	Na 589.592 Radial†	1687.8	1165.2	310.20 µg/L	310.20 ppb	06:40:49
3	Sr 421.552†	1547.9	942.3	5.6367 µg/L	5.6367 ppb	06:40:49
3	Sc 361.383	1958720.9	1958720.9	99.103 %		06:42:24
3	Y 371.029	1238417.9	1238417.9	99.144 %		06:42:24
3	Ag 328.068†	465.2	562.0	5.1129 µg/L	5.1129 ppb	06:42:29
3	As 188.979†	12.2	15.1	32.828 µg/L	32.828 ppb	06:42:50
3	B 249.677†	1418.5	1061.4	50.227 µg/L	50.227 ppb	06:42:29
3	Ba 233.527†	154.9	180.3	5.0448 µg/L	5.0448 ppb	06:42:50
3	Be 313.107†	11325.3	7594.0	5.1076 µg/L	5.1076 ppb	06:42:29
3	Cd 226.502†	48.3	174.0	4.9235 µg/L	4.9235 ppb	06:42:50
3	Co 228.616†	32.1	81.7	4.3435 µg/L	4.3435 ppb	06:42:50
3	Cr 267.716†	158.5	262.1	5.8761 µg/L	5.8761 ppb	06:42:29
3	Cu 324.752†	5332.0	1480.4	10.869 µg/L	10.869 ppb	06:42:29
3	Mn 257.610†	2810.9	2984.2	10.578 µg/L	10.578 ppb	06:42:29
3	Mo 202.031†	92.0	80.2	9.7224 µg/L	9.7224 ppb	06:42:50
3	Ni 231.604†	407.3	79.5	4.8126 µg/L	4.8126 ppb	06:42:50
3	P 214.914†	284.4	67.1	153.62 µg/L	153.62 ppb	06:42:50
3	Pb 220.353†	100.5	40.2	11.253 µg/L	11.253 ppb	06:42:50
3	S 181.975 Axial†	44.1	21.4	118.97 µg/L	118.97 ppb	06:42:50
3	Sb 206.836†	30.6	6.9	7.3891 µg/L	7.3891 ppb	06:42:50
3	Se 196.026†	32.6	24.9	37.781 µg/L	37.781 ppb	06:42:50
3	SiO2†	3420.3	1061.9	216.81 µg/L	216.81 ppb	06:42:29
3	Si 251.611†	1481.5	1212.5	98.218 µg/L	98.218 ppb	06:42:50
3	Sn 189.927†	37.3	14.2	8.1292 µg/L	8.1292 ppb	06:42:50
3	Ti 334.940†	2772.0	2093.2	5.0355 µg/L	5.0355 ppb	06:42:29
3	Tl 190.801†	-8.0	16.5	27.582 µg/L	27.582 ppb	06:42:50
3	U 409.014†	361.0	550.5	51.143 µg/L	51.143 ppb	06:42:29
3	V 292.402†	305.2	423.3	5.2408 µg/L	5.2408 ppb	06:42:29
3	Zn 213.857†	984.3	360.9	10.082 µg/L	10.082 ppb	06:42:50

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1959248.1	99.129 %	0.2442			0.25%
Sc RADIAL	77363.1	98.6 %	0.35			0.35%
Y 371.029	1239033.8	99.193 %	0.2556			0.26%
Ag 328.068†	594.6	5.4107 µg/L	0.28341	5.4107 ppb	0.28341	5.24%
QC value within limits for Ag 328.068 Recovery = 108.21%						
Al 396.153Radial†	324.6	210.03 µg/L	7.536	210.03 ppb	7.536	3.59%
QC value within limits for Al 396.153Radial Recovery = 105.02%						
As 188.979†	16.4	35.784 µg/L	2.8949	35.784 ppb	2.8949	8.09%
QC value within limits for As 188.979 Recovery = 119.28%						
B 249.677†	1105.3	52.301 µg/L	2.1785	52.301 ppb	2.1785	4.17%
QC value within limits for B 249.677 Recovery = 104.60%						
Ba 233.527†	191.0	5.3458 µg/L	0.26070	5.3458 ppb	0.26070	4.88%
QC value within limits for Ba 233.527 Recovery = 106.92%						
Be 313.107†	7892.6	5.3084 µg/L	0.17417	5.3084 ppb	0.17417	3.28%
QC value within limits for Be 313.107 Recovery = 106.17%						
Ca 317.933Radial†	292.6	210.84 µg/L	5.330	210.84 ppb	5.330	2.53%
QC value within limits for Ca 317.933Radial Recovery = 105.42%						
Cd 226.502†	185.8	5.2566 µg/L	0.32773	5.2566 ppb	0.32773	6.23%
QC value within limits for Cd 226.502 Recovery = 105.13%						
Co 228.616†	97.8	5.2035 µg/L	0.78370	5.2035 ppb	0.78370	15.06%

QC value within limits for Co 228.616 Recovery = 104.07%							
Cr 267.716†	276.0	6.1868 µg/L	0.38316	6.1868 ppb	0.38316	6.19%	
QC value within limits for Cr 267.716 Recovery = 123.74%							
Cu 324.752†	1534.5	11.268 µg/L	0.5445	11.268 ppb	0.5445	4.83%	
QC value within limits for Cu 324.752 Recovery = 112.68%							
Fe 238.204 Radial†	8.9	118.57 µg/L	11.997	118.57 ppb	11.997	10.12%	
QC value within limits for Fe 238.204 Radial Recovery = 118.57%							
K 766.490 Radial†	274.7	173.29 µg/L	23.052	173.29 ppb	23.052	13.30%	
QC value within limits for K 766.490 Radial Recovery = 115.53%							
Mg 279.077 IEC†	32.3	331.28 µg/L	16.344	331.28 ppb	16.344	4.93%	
QC value within limits for Mg 279.077 IEC Recovery = 110.43%							
Mn 257.610†	3094.9	10.972 µg/L	0.3420	10.972 ppb	0.3420	3.12%	
QC value within limits for Mn 257.610 Recovery = 109.72%							
Mo 202.031†	89.7	10.866 µg/L	1.0025	10.866 ppb	1.0025	9.23%	
QC value within limits for Mo 202.031 Recovery = 108.66%							
Na 589.592 Radial†	1164.3	309.96 µg/L	3.823	309.96 ppb	3.823	1.23%	
QC value within limits for Na 589.592 Radial Recovery = 103.32%							
Ni 231.604†	91.6	5.5435 µg/L	0.64236	5.5435 ppb	0.64236	11.59%	
QC value within limits for Ni 231.604 Recovery = 110.87%							
P 214.914†	73.8	169.11 µg/L	16.318	169.11 ppb	16.318	9.65%	
QC value within limits for P 214.914 Recovery = 112.74%							
Pb 220.353†	43.8	12.242 µg/L	1.1773	12.242 ppb	1.1773	9.62%	
QC value within limits for Pb 220.353 Recovery = 122.42%							
S 181.975 Axial†	20.3	113.05 µg/L	8.646	113.05 ppb	8.646	7.65%	
QC value within limits for S 181.975 Axial Recovery = 113.05%							
Sb 206.836†	9.5	10.171 µg/L	2.4424	10.171 ppb	2.4424	24.01%	
QC value within limits for Sb 206.836 Recovery = 101.71%							
Se 196.026†	25.8	39.210 µg/L	2.1050	39.210 ppb	2.1050	5.37%	
QC value greater than the upper limit for Se 196.026 Recovery = 130.70%							
SiO2†	1112.4	227.13 µg/L	8.946	227.13 ppb	8.946	3.94%	
QC value within limits for SiO2 Recovery = 106.63%							
Si 251.611†	1303.6	105.60 µg/L	6.437	105.60 ppb	6.437	6.10%	
QC value within limits for Si 251.611 Recovery = 105.60%							
Sn 189.927†	18.3	10.450 µg/L	2.4710	10.450 ppb	2.4710	23.65%	
QC value within limits for Sn 189.927 Recovery = 104.50%							
Sr 421.552†	947.2	5.6658 µg/L	0.17963	5.6658 ppb	0.17963	3.17%	
QC value within limits for Sr 421.552 Recovery = 113.32%							
Ti 334.940†	2202.6	5.3015 µg/L	0.23350	5.3015 ppb	0.23350	4.40%	
QC value within limits for Ti 334.940 Recovery = 106.03%							
Tl 190.801†	15.6	26.051 µg/L	2.6180	26.051 ppb	2.6180	10.05%	
QC value greater than the upper limit for Tl 190.801 Recovery = 130.25%							
U 409.014†	608.5	56.524 µg/L	4.6634	56.524 ppb	4.6634	8.25%	
QC value within limits for U 409.014 Recovery = 113.05%							
V 292.402†	451.3	5.5929 µg/L	0.37562	5.5929 ppb	0.37562	6.72%	
QC value within limits for V 292.402 Recovery = 111.86%							
Zn 213.857†	393.2	10.985 µg/L	0.7873	10.985 ppb	0.7873	7.17%	
QC value within limits for Zn 213.857 Recovery = 109.85%							
QC Failed. Continue with analysis.							

Sequence No.: 9
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 103
 Date Collected: 1/29/2010 06:42:59
 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	75709.8	75709.8	96.5 %		06:43:40
1	Al 396.153Radial†	766188.4	794257.4	514420 µg/L	514420 ppb	06:43:35
1	Ca 317.933Radial†	651112.5	674693.6	486150 µg/L	486150 ppb	06:43:35
1	Fe 238.204 Radial†	13998.6	14494.6	191930 µg/L	191930 ppb	06:43:40
1	K 766.490 Radial†	224.3	-166.2	-104.86 µg/L	-104.86 ppb	06:43:40
1	Mg 279.077 IEC†	46618.0	48315.9	495650 µg/L	495650 ppb	06:43:40
1	Na 589.592 Radial†	609.5	78.1	20.793 µg/L	20.793 ppb	06:43:40
1	Sr 421.552†	1222.5	633.2	3.7877 µg/L	3.7877 ppb	06:43:40
1	Sc 361.383	1844586.0	1844586.0	93.328 %		06:44:13
1	Y 371.029	1152552.6	1152552.6	92.270 %		06:44:13
1	Ag 328.068†	-2181.1	-2244.4	-8.2125 µg/L	-8.2125 ppb	06:44:18
1	As 188.979†	-6.5	-4.2	-23.328 µg/L	-23.328 ppb	06:44:39
1	B 249.677†	2701.5	2524.7	19.438 µg/L	19.438 ppb	06:44:18
1	Ba 233.527†	212.3	251.4	7.0107 µg/L	7.0107 ppb	06:44:39
1	Be 313.107†	3036.2	-580.5	-0.4011 µg/L	-0.4011 ppb	06:44:18
1	Cd 226.502†	655.7	827.9	1.7668 µg/L	1.7668 ppb	06:44:39
1	Co 228.616†	-15.6	32.6	1.6666 µg/L	1.6666 ppb	06:44:39
1	Cr 267.716†	-108.2	-13.8	-0.3136 µg/L	-0.3136 ppb	06:44:39
1	Cu 324.752†	546.1	-3314.8	2.3733 µg/L	2.3733 ppb	06:44:18
1	Mn 257.610†	-2468.2	-2496.8	-3.1571 µg/L	-3.1571 ppb	06:44:18
1	Mo 202.031†	-86.8	-105.6	-5.5005 µg/L	-5.5005 ppb	06:44:39
1	Ni 231.604†	300.6	-9.3	1.9309 µg/L	1.9309 ppb	06:44:39
1	P 214.914†	231.9	28.6	57.667 µg/L	57.667 ppb	06:44:39
1	Pb 220.353†	-45.6	-110.0	-9.8561 µg/L	-9.8561 ppb	06:44:39
1	S 181.975 Axial†	64.3	45.8	254.45 µg/L	254.45 ppb	06:44:39
1	Sb 206.836†	67.8	48.7	8.9817 µg/L	8.9817 ppb	06:44:39
1	Se 196.026†	-395.2	-431.4	16.506 µg/L	16.506 ppb	06:44:39
1	SiO2†	2116.0	-122.1	-24.934 µg/L	-24.934 ppb	06:44:39
1	Si 251.611†	380.6	125.3	10.154 µg/L	10.154 ppb	06:44:39
1	Sn 189.927†	-323.3	-369.9	11.842 µg/L	11.842 ppb	06:44:39
1	Ti 334.940†	11244.8	11344.9	-3.9702 µg/L	-3.9702 ppb	06:44:18
1	Tl 190.801†	20.0	46.0	-8.5499 µg/L	-8.5499 ppb	06:44:39
1	U 409.014†	-143.9	32.0	-53.356 µg/L	-53.356 ppb	06:44:18
1	V 292.402†	-641.3	-571.9	3.1952 µg/L	3.1952 ppb	06:44:18
1	Zn 213.857†	1865.6	1366.7	1.2276 µg/L	1.2276 ppb	06:44:39
2	Sc RADIAL	74864.5	74864.5	95.4 %		06:43:51
2	Al 396.153Radial†	765183.9	802171.8	519540 µg/L	519540 ppb	06:43:46
2	Ca 317.933Radial†	649077.7	680180.9	490100 µg/L	490100 ppb	06:43:46
2	Fe 238.204 Radial†	13896.0	14550.8	192680 µg/L	192680 ppb	06:43:51
2	K 766.490 Radial†	267.4	-118.3	-74.658 µg/L	-74.658 ppb	06:43:51
2	Mg 279.077 IEC†	46429.5	48663.9	499220 µg/L	499220 ppb	06:43:51
2	Na 589.592 Radial†	621.6	97.9	26.075 µg/L	26.075 ppb	06:43:51
2	Sr 421.552†	1193.8	617.4	3.6934 µg/L	3.6934 ppb	06:43:51
2	Sc 361.383	1835658.1	1835658.1	92.876 %		06:44:45
2	Y 371.029	1146805.4	1146805.4	91.810 %		06:44:45
2	Ag 328.068†	-2117.4	-2187.2	-7.6548 µg/L	-7.6548 ppb	06:44:51
2	As 188.979†	-2.8	-0.3	-15.025 µg/L	-15.025 ppb	06:45:11
2	B 249.677†	2613.3	2443.9	15.218 µg/L	15.218 ppb	06:44:51
2	Ba 233.527†	214.0	254.4	7.0911 µg/L	7.0911 ppb	06:45:11
2	Be 313.107†	3036.8	-564.1	-0.3901 µg/L	-0.3901 ppb	06:44:51
2	Cd 226.502†	669.2	845.8	2.1898 µg/L	2.1898 ppb	06:45:11
2	Co 228.616†	-20.7	27.0	1.3669 µg/L	1.3669 ppb	06:45:11
2	Cr 267.716†	-77.6	18.6	0.4120 µg/L	0.4120 ppb	06:45:11
2	Cu 324.752†	519.6	-3340.5	2.2882 µg/L	2.2882 ppb	06:44:51
2	Mn 257.610†	-2466.8	-2508.1	-3.2412 µg/L	-3.2412 ppb	06:44:51
2	Mo 202.031†	-90.8	-110.4	-6.0490 µg/L	-6.0490 ppb	06:45:11
2	Ni 231.604†	294.6	-14.2	1.6452 µg/L	1.6452 ppb	06:45:11
2	P 214.914†	224.5	21.9	42.771 µg/L	42.771 ppb	06:45:11
2	Pb 220.353†	-45.6	-110.2	-9.6741 µg/L	-9.6741 ppb	06:45:11

2	S 181.975 Axial†	61.6	43.2	240.32 µg/L	240.32 ppb	06:45:11
2	Sb 206.836†	49.4	29.2	-11.960 µg/L	-11.960 ppb	06:45:11
2	Se 196.026†	-381.0	-418.2	38.694 µg/L	38.694 ppb	06:45:11
2	SiO2†	2105.2	-122.8	-25.063 µg/L	-25.063 ppb	06:45:11
2	Si 251.611†	381.0	127.8	10.352 µg/L	10.352 ppb	06:45:11
2	Sn 189.927†	-354.7	-405.3	-6.5075 µg/L	-6.5075 ppb	06:45:11
2	Ti 334.940†	11278.1	11439.3	-3.9608 µg/L	-3.9608 ppb	06:44:51
2	Tl 190.801†	16.0	41.8	-16.175 µg/L	-16.175 ppb	06:45:11
2	U 409.014†	-38.2	145.1	-43.195 µg/L	-43.195 ppb	06:44:51
2	V 292.402†	-708.0	-647.0	2.3389 µg/L	2.3389 ppb	06:44:51
2	Zn 213.857†	1854.1	1364.0	0.9168 µg/L	0.9168 ppb	06:45:11
3	Sc RADIAL	74897.5	74897.5	95.4 %		06:44:03
3	Al 396.153Radial†	759712.9	796085.2	515600 µg/L	515600 ppb	06:43:57
3	Ca 317.933Radial†	642978.1	673489.3	485280 µg/L	485280 ppb	06:43:57
3	Fe 238.204 Radial†	13913.5	14562.8	192840 µg/L	192840 ppb	06:44:03
3	K 766.490 Radial†	215.3	-173.1	-109.21 µg/L	-109.21 ppb	06:44:03
3	Mg 279.077 IEC†	46363.0	48572.7	498290 µg/L	498290 ppb	06:44:03
3	Na 589.592 Radial†	623.2	99.3	26.449 µg/L	26.449 ppb	06:44:03
3	Sr 421.552†	1210.6	634.4	3.7951 µg/L	3.7951 ppb	06:44:03
3	Sc 361.383	1831604.9	1831604.9	92.671 %		06:45:17
3	Y 371.029	1144864.1	1144864.1	91.654 %		06:45:17
3	Ag 328.068†	-2154.8	-2232.6	-8.0568 µg/L	-8.0568 ppb	06:45:23
3	As 188.979†	-2.7	-0.2	-14.435 µg/L	-14.435 ppb	06:45:43
3	B 249.677†	2555.0	2387.2	12.449 µg/L	12.449 ppb	06:45:23
3	Ba 233.527†	217.5	258.7	7.2109 µg/L	7.2109 ppb	06:45:43
3	Be 313.107†	3034.3	-559.5	-0.3868 µg/L	-0.3868 ppb	06:45:23
3	Cd 226.502†	660.3	837.8	1.9464 µg/L	1.9464 ppb	06:45:43
3	Co 228.616†	-6.3	42.6	2.1956 µg/L	2.1956 ppb	06:45:43
3	Cr 267.716†	-110.1	-16.6	-0.3776 µg/L	-0.3776 ppb	06:45:43
3	Cu 324.752†	573.3	-3281.3	2.7447 µg/L	2.7447 ppb	06:45:23
3	Mn 257.610†	-2469.2	-2516.7	-3.2129 µg/L	-3.2129 ppb	06:45:23
3	Mo 202.031†	-91.9	-111.8	-6.2114 µg/L	-6.2114 ppb	06:45:43
3	Ni 231.604†	281.3	-27.9	0.8142 µg/L	0.8142 ppb	06:45:43
3	P 214.914†	235.4	34.2	70.075 µg/L	70.075 ppb	06:45:43
3	Pb 220.353†	-50.3	-115.4	-11.355 µg/L	-11.355 ppb	06:45:43
3	S 181.975 Axial†	63.4	45.3	251.62 µg/L	251.62 ppb	06:45:43
3	Sb 206.836†	71.4	53.1	13.677 µg/L	13.677 ppb	06:45:43
3	Se 196.026†	-397.0	-436.3	11.397 µg/L	11.397 ppb	06:45:43
3	SiO2†	2121.9	-99.7	-20.352 µg/L	-20.352 ppb	06:45:43
3	Si 251.611†	398.0	147.1	11.913 µg/L	11.913 ppb	06:45:43
3	Sn 189.927†	-335.2	-385.2	3.6265 µg/L	3.6265 ppb	06:45:43
3	Ti 334.940†	11038.4	11207.5	-4.5243 µg/L	-4.5243 ppb	06:45:23
3	Tl 190.801†	14.2	39.9	-18.536 µg/L	-18.536 ppb	06:45:43
3	U 409.014†	-107.3	70.4	-49.861 µg/L	-49.861 ppb	06:45:23
3	V 292.402†	-728.6	-670.9	2.0490 µg/L	2.0490 ppb	06:45:23
3	Zn 213.857†	1837.5	1350.5	0.5854 µg/L	0.5854 ppb	06:45:43

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1837283.0	92.959 %	0.3360			0.36%
Sc RADIAL	75157.3	95.8 %	0.61			0.64%
Y 371.029	1148074.0	91.911 %	0.3201			0.35%
Ag 328.068†	-2221.4	-7.9747 µg/L	0.28777	-7.9747 ppb	0.28777	3.61%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	797504.8	516520 µg/L	2683.8	516520 ppb	2683.8	0.52%
QC value within limits for Al 396.153Radial Recovery = 103.30%						
As 188.979†	-1.6	-17.596 µg/L	4.9726	-17.596 ppb	4.9726	28.26%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	2451.9	15.702 µg/L	3.5191	15.702 ppb	3.5191	22.41%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	254.8	7.1042 µg/L	0.10078	7.1042 ppb	0.10078	1.42%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-568.0	-0.3926 µg/L	0.00749	-0.3926 ppb	0.00749	1.91%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	676121.3	487180 µg/L	2570.2	487180 ppb	2570.2	0.53%
QC value within limits for Ca 317.933Radial Recovery = 97.44%						
Cd 226.502†	837.2	1.9677 µg/L	0.21234	1.9677 ppb	0.21234	10.79%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	34.1	1.7430 µg/L	0.41961	1.7430 ppb	0.41961	24.07%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† -3.9 -0.0930 µg/L 0.43859 -0.0930 ppb 0.43859 471.40%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752† -3312.2 2.4688 µg/L 0.24275 2.4688 ppb 0.24275 9.83%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 14536.0 192480 µg/L 482.3 192480 ppb 482.3 0.25%

QC value within limits for Fe 238.204 Radial Recovery = 96.24%

K 766.490 Radial† -152.5 -96.244 µg/L 18.8199 -96.244 ppb 18.8199 19.55%

QC value within limits for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† 48517.5 497720 µg/L 1851.4 497720 ppb 1851.4 0.37%

QC value within limits for Mg 279.077 IEC Recovery = 99.54%

Mn 257.610† -2507.2 -3.2038 µg/L 0.04278 -3.2038 ppb 0.04278 1.34%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† -109.2 -5.9203 µg/L 0.37249 -5.9203 ppb 0.37249 6.29%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† 91.8 24.439 µg/L 3.1630 24.439 ppb 3.1630 12.94%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† -17.1 1.4634 µg/L 0.58014 1.4634 ppb 0.58014 39.64%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† 28.2 56.838 µg/L 13.6711 56.838 ppb 13.6711 24.05%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -111.9 -10.295 µg/L 0.9225 -10.295 ppb 0.9225 8.96%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† 44.8 248.80 µg/L 7.477 248.80 ppb 7.477 3.01%

QC value greater than the upper limit for S 181.975 Axial Recovery = Not calculated

Sb 206.836† 43.6 3.5664 µg/L 13.64944 3.5664 ppb 13.64944 382.72%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† -428.6 22.199 µg/L 14.5116 22.199 ppb 14.5116 65.37%

QC value within limits for Se 196.026 Recovery = Not calculated

SiO2† -114.9 -23.450 µg/L 2.6830 -23.450 ppb 2.6830 11.44%

QC value within limits for SiO2 Recovery = Not calculated

Si 251.611† 133.4 10.806 µg/L 0.9639 10.806 ppb 0.9639 8.92%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† -386.8 2.9869 µg/L 9.19132 2.9869 ppb 9.19132 307.72%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 421.552† 628.4 3.7587 µg/L 0.05670 3.7587 ppb 0.05670 1.51%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† 11330.5 -4.1518 µg/L 0.32270 -4.1518 ppb 0.32270 7.77%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† 42.5 -14.420 µg/L 5.2190 -14.420 ppb 5.2190 36.19%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† 82.5 -48.804 µg/L 5.1627 -48.804 ppb 5.1627 10.58%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† -629.9 2.5277 µg/L 0.59596 2.5277 ppb 0.59596 23.58%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† 1360.4 0.9099 µg/L 0.32113 0.9099 ppb 0.32113 35.29%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 10

Sample ID: ICSAB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 1/29/2010 06:45:54

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	74813.4	74813.4	95.3 %		06:46:33
1	Al 396.153Radial†	776009.2	814075.0	527240 µg/L	527240 ppb	06:46:28
1	Ca 317.933Radial†	659319.7	691389.3	498180 µg/L	498180 ppb	06:46:28
1	Fe 238.204 Radial†	13849.9	14512.5	192180 µg/L	192180 ppb	06:46:33
1	K 766.490 Radial†	8385.2	8397.5	5298.0 µg/L	5298.0 ppb	06:46:33
1	Mg 279.077 IEC†	46333.9	48596.8	498540 µg/L	498540 ppb	06:46:33
1	Na 589.592 Radial†	19036.3	19415.7	5169.1 µg/L	5169.1 ppb	06:46:33
1	Sr 421.552†	86671.2	90285.4	540.08 µg/L	540.08 ppb	06:46:28
1	Sc 361.383	1832013.7	1832013.7	92.692 %		06:47:09
1	Y 371.029	1144827.4	1144827.4	91.651 %		06:47:09
1	Ag 328.068†	25713.4	27833.3	266.83 µg/L	266.83 ppb	06:47:09
1	As 188.979†	224.6	245.0	518.25 µg/L	518.25 ppb	06:47:30
1	B 249.677†	13211.7	13883.4	558.16 µg/L	558.16 ppb	06:47:09
1	Ba 233.527†	17531.7	18938.0	529.94 µg/L	529.94 ppb	06:47:09
1	Be 313.107†	350552.4	374357.1	251.67 µg/L	251.67 ppb	06:47:09
1	Cd 226.502†	16564.7	17996.0	488.63 µg/L	488.63 ppb	06:47:09
1	Co 228.616†	8025.2	8707.2	462.48 µg/L	462.48 ppb	06:47:30
1	Cr 267.716†	21150.8	22920.6	513.91 µg/L	513.91 ppb	06:47:09
1	Cu 324.752†	73985.3	75918.6	583.37 µg/L	583.37 ppb	06:47:09
1	Mn 257.610†	129370.7	139718.5	500.85 µg/L	500.85 ppb	06:47:09
1	Mo 202.031†	3826.7	4115.9	505.92 µg/L	505.92 ppb	06:47:30
1	Ni 231.604†	7381.8	7632.3	464.07 µg/L	464.07 ppb	06:47:30
1	P 214.914†	1309.1	1192.5	2690.0 µg/L	2690.0 ppb	06:47:30
1	Pb 220.353†	1637.7	1705.7	500.10 µg/L	500.10 ppb	06:47:30
1	S 181.975 Axial†	519.5	537.3	2987.0 µg/L	2987.0 ppb	06:47:30
1	Sb 206.836†	516.1	532.8	522.52 µg/L	522.52 ppb	06:47:30
1	Se 196.026†	1163.8	1247.6	2542.4 µg/L	2542.4 ppb	06:47:30
1	SiO2†	55242.3	57208.4	11681 µg/L	11681 ppb	06:47:09
1	Si 251.611†	62694.5	67355.1	5456.1 µg/L	5456.1 ppb	06:47:09
1	Sn 189.927†	557.7	578.2	549.47 µg/L	549.47 ppb	06:47:30
1	Ti 334.940†	214685.3	230907.8	526.75 µg/L	526.75 ppb	06:47:09
1	Tl 190.801†	286.5	333.6	474.42 µg/L	474.42 ppb	06:47:30
1	U 409.014†	5377.7	5988.0	499.46 µg/L	499.46 ppb	06:47:09
1	V 292.402†	40647.8	43967.9	544.83 µg/L	544.83 ppb	06:47:09
1	Zn 213.857†	18294.5	19104.7	496.69 µg/L	496.69 ppb	06:47:09
2	Sc RADIAL	74990.7	74990.7	95.6 %		06:46:45
2	Al 396.153Radial†	764565.6	800175.2	518240 µg/L	518240 ppb	06:46:40
2	Ca 317.933Radial†	648030.6	677940.4	488490 µg/L	488490 ppb	06:46:40
2	Fe 238.204 Radial†	13770.4	14394.9	190620 µg/L	190620 ppb	06:46:45
2	K 766.490 Radial†	8403.7	8396.0	5297.1 µg/L	5297.1 ppb	06:46:45
2	Mg 279.077 IEC†	46231.3	48374.6	496260 µg/L	496260 ppb	06:46:45
2	Na 589.592 Radial†	19011.9	19343.0	5149.8 µg/L	5149.8 ppb	06:46:45
2	Sr 421.552†	85360.4	88698.7	530.59 µg/L	530.59 ppb	06:46:40
2	Sc 361.383	1810753.6	1810753.6	91.616 %		06:47:37
2	Y 371.029	1131749.1	1131749.1	90.604 %		06:47:37
2	Ag 328.068†	25458.5	27880.8	267.16 µg/L	267.16 ppb	06:47:37
2	As 188.979†	223.6	246.8	522.53 µg/L	522.53 ppb	06:47:58
2	B 249.677†	13008.9	13829.4	556.41 µg/L	556.41 ppb	06:47:37
2	Ba 233.527†	17314.3	18922.7	529.52 µg/L	529.52 ppb	06:47:37
2	Be 313.107†	346550.3	374429.2	251.72 µg/L	251.72 ppb	06:47:37
2	Cd 226.502†	16381.2	18005.6	489.08 µg/L	489.08 ppb	06:47:37
2	Co 228.616†	8020.0	8803.2	467.60 µg/L	467.60 ppb	06:47:58
2	Cr 267.716†	20922.2	22939.0	514.32 µg/L	514.32 ppb	06:47:37
2	Cu 324.752†	73521.1	76349.0	586.31 µg/L	586.31 ppb	06:47:37
2	Mn 257.610†	127765.4	139605.0	500.33 µg/L	500.33 ppb	06:47:37
2	Mo 202.031†	3843.8	4183.0	513.99 µg/L	513.99 ppb	06:47:58
2	Ni 231.604†	7381.4	7725.4	469.68 µg/L	469.68 ppb	06:47:58
2	P 214.914†	1311.4	1211.6	2732.3 µg/L	2732.3 ppb	06:47:58
2	Pb 220.353†	1649.6	1739.4	509.13 µg/L	509.13 ppb	06:47:58

2	S 181.975 Axial†	523.5	548.3	3048.4 µg/L	3048.4 ppb	06:47:58
2	Sb 206.836†	518.3	541.7	532.92 µg/L	532.92 ppb	06:47:58
2	Se 196.026†	1149.0	1246.2	2533.1 µg/L	2533.1 ppb	06:47:58
2	SiO2†	54671.5	57285.1	11696 µg/L	11696 ppb	06:47:37
2	Si 251.611†	61867.1	67246.1	5447.2 µg/L	5447.2 ppb	06:47:37
2	Sn 189.927†	556.5	584.0	550.04 µg/L	550.04 ppb	06:47:58
2	Ti 334.940†	212489.4	231230.3	527.55 µg/L	527.55 ppb	06:47:37
2	Tl 190.801†	279.8	329.9	469.84 µg/L	469.84 ppb	06:47:58
2	U 409.014†	5355.4	6031.7	504.33 µg/L	504.33 ppb	06:47:37
2	V 292.402†	40174.5	43966.1	544.80 µg/L	544.80 ppb	06:47:37
2	Zn 213.857†	18147.0	19175.3	498.85 µg/L	498.85 ppb	06:47:37
3	Sc RADIAL	74868.7	74868.7	95.4 %		06:46:57
3	Al 396.153Radial†	766045.0	803029.0	520090 µg/L	520090 ppb	06:46:51
3	Ca 317.933Radial†	649422.7	680504.1	490330 µg/L	490330 ppb	06:46:51
3	Fe 238.204 Radial†	13870.3	14523.1	192320 µg/L	192320 ppb	06:46:57
3	K 766.490 Radial†	8423.2	8430.8	5319.1 µg/L	5319.1 ppb	06:46:57
3	Mg 279.077 IEC†	46422.8	48654.1	499130 µg/L	499130 ppb	06:46:57
3	Na 589.592 Radial†	19118.2	19486.8	5188.0 µg/L	5188.0 ppb	06:46:57
3	Sr 421.552†	85516.2	89007.5	532.44 µg/L	532.44 ppb	06:46:51
3	Sc 361.383	1811735.0	1811735.0	91.666 %		06:48:05
3	Y 371.029	1132696.4	1132696.4	90.680 %		06:48:05
3	Ag 328.068†	25668.8	28095.2	269.23 µg/L	269.23 ppb	06:48:05
3	As 188.979†	222.9	245.9	520.68 µg/L	520.68 ppb	06:48:25
3	B 249.677†	13092.4	13912.8	559.48 µg/L	559.48 ppb	06:48:05
3	Ba 233.527†	17396.8	19002.5	531.75 µg/L	531.75 ppb	06:48:05
3	Be 313.107†	348353.7	376191.6	252.90 µg/L	252.90 ppb	06:48:05
3	Cd 226.502†	16486.0	18110.2	491.86 µg/L	491.86 ppb	06:48:05
3	Co 228.616†	8022.7	8801.5	467.50 µg/L	467.50 ppb	06:48:25
3	Cr 267.716†	21033.7	23048.2	516.77 µg/L	516.77 ppb	06:48:05
3	Cu 324.752†	73826.0	76638.1	588.67 µg/L	588.67 ppb	06:48:05
3	Mn 257.610†	128552.6	140388.2	503.22 µg/L	503.22 ppb	06:48:05
3	Mo 202.031†	3855.3	4193.3	515.31 µg/L	515.31 ppb	06:48:25
3	Ni 231.604†	7361.0	7698.9	468.10 µg/L	468.10 ppb	06:48:25
3	P 214.914†	1298.5	1196.7	2697.1 µg/L	2697.1 ppb	06:48:25
3	Pb 220.353†	1653.8	1743.0	510.19 µg/L	510.19 ppb	06:48:25
3	S 181.975 Axial†	522.5	546.9	3040.3 µg/L	3040.3 ppb	06:48:25
3	Sb 206.836†	532.9	557.3	549.27 µg/L	549.27 ppb	06:48:25
3	Se 196.026†	1159.9	1257.4	2555.9 µg/L	2555.9 ppb	06:48:25
3	SiO2†	54969.6	57577.9	11756 µg/L	11756 ppb	06:48:05
3	Si 251.611†	62233.7	67609.4	5476.7 µg/L	5476.7 ppb	06:48:05
3	Sn 189.927†	571.9	600.5	560.43 µg/L	560.43 ppb	06:48:25
3	Ti 334.940†	213290.8	231979.0	529.17 µg/L	529.17 ppb	06:48:05
3	Tl 190.801†	298.2	349.8	502.62 µg/L	502.62 ppb	06:48:25
3	U 409.014†	5350.4	6023.1	503.18 µg/L	503.18 ppb	06:48:05
3	V 292.402†	40513.0	44311.7	549.06 µg/L	549.06 ppb	06:48:05
3	Zn 213.857†	18210.1	19233.5	500.25 µg/L	500.25 ppb	06:48:05

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1818167.4	91.991 %	0.6072			0.66%
Sc RADIAL	74890.9	95.4 %	0.12			0.12%
Y 371.029	1136424.3	90.979 %	0.5838			0.64%
Ag 328.068†	27936.4	267.74 µg/L	1.301	267.74 ppb	1.301	0.49%
QC value within limits for Ag 328.068 Recovery = 107.09%						
Al 396.153Radial†	805759.7	521850 µg/L	4754.8	521850 ppb	4754.8	0.91%
QC value within limits for Al 396.153Radial Recovery = 104.37%						
As 188.979†	245.9	520.49 µg/L	2.145	520.49 ppb	2.145	0.41%
QC value within limits for As 188.979 Recovery = 104.10%						
B 249.677†	13875.2	558.02 µg/L	1.540	558.02 ppb	1.540	0.28%
QC value within limits for B 249.677 Recovery = 111.60%						
Ba 233.527†	18954.4	530.40 µg/L	1.187	530.40 ppb	1.187	0.22%
QC value within limits for Ba 233.527 Recovery = 106.08%						
Be 313.107†	374992.6	252.09 µg/L	0.699	252.09 ppb	0.699	0.28%
QC value within limits for Be 313.107 Recovery = 100.84%						
Ca 317.933Radial†	683277.9	492330 µg/L	5145.2	492330 ppb	5145.2	1.05%
QC value within limits for Ca 317.933Radial Recovery = 98.47%						
Cd 226.502†	18037.2	489.86 µg/L	1.745	489.86 ppb	1.745	0.36%
QC value within limits for Cd 226.502 Recovery = 97.97%						
Co 228.616†	8770.6	465.86 µg/L	2.925	465.86 ppb	2.925	0.63%

QC value within limits for Co 228.616 Recovery = 93.17%							
Cr 267.716†	22969.3	515.00 µg/L	1.548	515.00 ppb	1.548	0.30%	
QC value within limits for Cr 267.716 Recovery = 103.00%							
Cu 324.752†	76301.9	586.12 µg/L	2.653	586.12 ppb	2.653	0.45%	
QC value within limits for Cu 324.752 Recovery = 117.22%							
Fe 238.204 Radial†	14476.8	191710 µg/L	941.9	191710 ppb	941.9	0.49%	
QC value within limits for Fe 238.204 Radial Recovery = 95.85%							
K 766.490 Radial†	8408.1	5304.7 µg/L	12.42	5304.7 ppb	12.42	0.23%	
QC value within limits for K 766.490 Radial Recovery = 106.09%							
Mg 279.077 IEC†	48541.8	497980 µg/L	1514.2	497980 ppb	1514.2	0.30%	
QC value within limits for Mg 279.077 IEC Recovery = 99.60%							
Mn 257.610†	139903.9	501.46 µg/L	1.539	501.46 ppb	1.539	0.31%	
QC value within limits for Mn 257.610 Recovery = 100.29%							
Mo 202.031†	4164.0	511.74 µg/L	5.082	511.74 ppb	5.082	0.99%	
QC value within limits for Mo 202.031 Recovery = 102.35%							
Na 589.592 Radial†	19415.2	5169.0 µg/L	19.14	5169.0 ppb	19.14	0.37%	
QC value within limits for Na 589.592 Radial Recovery = 103.38%							
Ni 231.604†	7685.5	467.28 µg/L	2.892	467.28 ppb	2.892	0.62%	
QC value within limits for Ni 231.604 Recovery = 93.46%							
P 214.914†	1200.3	2706.5 µg/L	22.63	2706.5 ppb	22.63	0.84%	
QC value within limits for P 214.914 Recovery = 108.26%							
Pb 220.353†	1729.3	506.47 µg/L	5.545	506.47 ppb	5.545	1.09%	
QC value within limits for Pb 220.353 Recovery = 101.29%							
S 181.975 Axial†	544.2	3025.2 µg/L	33.36	3025.2 ppb	33.36	1.10%	
QC value greater than the upper limit for S 181.975 Axial Recovery = 121.01%							
Sb 206.836†	543.9	534.90 µg/L	13.485	534.90 ppb	13.485	2.52%	
QC value within limits for Sb 206.836 Recovery = 106.98%							
Se 196.026†	1250.4	2543.8 µg/L	11.48	2543.8 ppb	11.48	0.45%	
QC value within limits for Se 196.026 Recovery = 101.75%							
SiO2†	57357.1	11711 µg/L	39.8	11711 ppb	39.8	0.34%	
QC value within limits for SiO2 Recovery = 109.50%							
Si 251.611†	67403.5	5460.0 µg/L	15.10	5460.0 ppb	15.10	0.28%	
QC value within limits for Si 251.611 Recovery = 109.20%							
Sn 189.927†	587.6	553.31 µg/L	6.172	553.31 ppb	6.172	1.12%	
QC value within limits for Sn 189.927 Recovery = 110.66%							
Sr 421.552†	89330.5	534.37 µg/L	5.032	534.37 ppb	5.032	0.94%	
QC value within limits for Sr 421.552 Recovery = 106.87%							
Ti 334.940†	231372.4	527.82 µg/L	1.231	527.82 ppb	1.231	0.23%	
QC value within limits for Ti 334.940 Recovery = 105.56%							
Tl 190.801†	337.8	482.29 µg/L	17.751	482.29 ppb	17.751	3.68%	
QC value within limits for Tl 190.801 Recovery = 96.46%							
U 409.014†	6014.3	502.32 µg/L	2.548	502.32 ppb	2.548	0.51%	
QC value within limits for U 409.014 Recovery = 100.46%							
V 292.402†	44081.9	546.23 µg/L	2.451	546.23 ppb	2.451	0.45%	
QC value within limits for V 292.402 Recovery = 109.25%							
Zn 213.857†	19171.2	498.60 µg/L	1.791	498.60 ppb	1.791	0.36%	
QC value within limits for Zn 213.857 Recovery = 99.72%							
QC Failed. Continue with analysis.							

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

Autosampler Location: 105
 Date Collected: 1/29/2010 06:48:35
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: LRL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74780.8	74780.8	95.3 %		06:49:15
1	Al 396.153Radial†	763756.8	801571.8	519150 µg/L	519150 ppb	06:49:10
1	Ca 317.933Radial†	648687.8	680533.2	490360 µg/L	490360 ppb	06:49:10
1	Fe 238.204 Radial†	33775.9	35430.6	469160 µg/L	469160 ppb	06:49:15
1	K 766.490 Radial†	242.6	-144.1	-90.915 µg/L	-90.915 ppb	06:49:15
1	Mg 279.077 IEC†	46087.2	48359.1	495800 µg/L	495800 ppb	06:49:15
1	Na 589.592 Radial†	1774554.1	1861793.2	495670 µg/L	495670 ppb	06:49:10
1	Sr 421.552†	1476.2	915.3	5.4750 µg/L	5.4750 ppb	06:49:15
1	Sc 361.383	1811566.7	1811566.7	91.657 %		06:49:50
1	Y 371.029	1125478.5	1125478.5	90.102 %		06:49:50
1	Ag 328.068†	-4124.1	-4406.9	-10.469 µg/L	-10.469 ppb	06:49:50
1	As 188.979†	-14.1	-12.7	-25.901 µg/L	-25.901 ppb	06:50:11
1	B 249.677†	5896.9	6063.7	42.419 µg/L	42.419 ppb	06:49:50
1	Ba 233.527†	482.2	550.1	15.297 µg/L	15.297 ppb	06:50:11
1	Be 313.107†	-1125.3	-5061.5	-3.4186 µg/L	-3.4186 ppb	06:49:50
1	Cd 226.502†	1780.5	2067.8	5.5699 µg/L	5.5699 ppb	06:49:50
1	Co 228.616†	103.9	162.7	8.5549 µg/L	8.5549 ppb	06:50:11
1	Cr 267.716†	244.3	368.7	8.2372 µg/L	8.2372 ppb	06:50:11
1	Cu 324.752†	-4777.0	-9111.8	-1.5973 µg/L	-1.5973 ppb	06:49:50
1	Mn 257.610†	-13543.0	-14627.8	-9.3024 µg/L	-9.3024 ppb	06:49:50
1	Mo 202.031†	-210.9	-242.7	-11.575 µg/L	-11.575 ppb	06:50:11
1	Ni 231.604†	260.0	-47.8	3.1946 µg/L	3.1946 ppb	06:50:11
1	P 214.914†	407.4	224.7	289.68 µg/L	289.68 ppb	06:50:11
1	Pb 220.353†	73.2	18.7	0.8948 µg/L	0.8948 ppb	06:50:11
1	S 181.975 Axial†	60.0	42.3	235.08 µg/L	235.08 ppb	06:50:11
1	Sb 206.836†	63.5	45.3	4.6321 µg/L	4.6321 ppb	06:50:11
1	Se 196.026†	-1121.5	-1231.5	-80.772 µg/L	-80.772 ppb	06:50:11
1	SiO2†	1640.3	-599.8	-122.46 µg/L	-122.46 ppb	06:50:11
1	Si 251.611†	-292.1	-601.1	-48.690 µg/L	-48.690 ppb	06:50:11
1	Sn 189.927†	-379.2	-437.2	0.4313 µg/L	0.4313 ppb	06:50:11
1	Ti 334.940†	13627.4	14163.9	2.8767 µg/L	2.8767 ppb	06:49:50
1	Tl 190.801†	7.2	32.4	-26.494 µg/L	-26.494 ppb	06:50:11
1	U 409.014†	143175.3	156393.2	14441 µg/L	14441 ppb	06:49:50
1	V 292.402†	-2976.8	-3132.4	2.0701 µg/L	2.0701 ppb	06:49:50
1	Zn 213.857†	3082.1	2730.4	26.448 µg/L	26.448 ppb	06:50:11
2	Sc RADIAL	74865.0	74865.0	95.4 %		06:49:27
2	Al 396.153Radial†	763291.8	800182.6	518250 µg/L	518250 ppb	06:49:22
2	Ca 317.933Radial†	647106.8	678110.0	488610 µg/L	488610 ppb	06:49:22
2	Fe 238.204 Radial†	34069.9	35698.9	472710 µg/L	472710 ppb	06:49:27
2	K 766.490 Radial†	257.9	-128.4	-80.993 µg/L	-80.993 ppb	06:49:27
2	Mg 279.077 IEC†	46498.5	48735.9	499660 µg/L	499660 ppb	06:49:27
2	Na 589.592 Radial†	1772685.4	1857739.1	494590 µg/L	494590 ppb	06:49:22
2	Sr 421.552†	1442.0	877.6	5.2500 µg/L	5.2500 ppb	06:49:27
2	Sc 361.383	1810730.8	1810730.8	91.615 %		06:50:18
2	Y 371.029	1125386.0	1125386.0	90.095 %		06:50:18
2	Ag 328.068†	-4219.8	-4513.4	-11.209 µg/L	-11.209 ppb	06:50:18
2	As 188.979†	-12.3	-10.7	-21.162 µg/L	-21.162 ppb	06:50:38
2	B 249.677†	5924.9	6097.3	42.157 µg/L	42.157 ppb	06:50:18
2	Ba 233.527†	484.1	552.4	15.362 µg/L	15.362 ppb	06:50:38
2	Be 313.107†	-1033.1	-4961.4	-3.3519 µg/L	-3.3519 ppb	06:50:18
2	Cd 226.502†	1765.4	2052.2	4.7257 µg/L	4.7257 ppb	06:50:18
2	Co 228.616†	134.7	196.3	10.341 µg/L	10.341 ppb	06:50:38
2	Cr 267.716†	223.2	345.8	7.7232 µg/L	7.7232 ppb	06:50:38
2	Cu 324.752†	-4821.0	-9162.2	-1.4730 µg/L	-1.4730 ppb	06:50:18
2	Mn 257.610†	-13519.9	-14609.4	-8.9192 µg/L	-8.9192 ppb	06:50:18
2	Mo 202.031†	-225.7	-258.9	-13.406 µg/L	-13.406 ppb	06:50:38
2	Ni 231.604†	243.9	-65.2	2.1834 µg/L	2.1834 ppb	06:50:38
2	P 214.914†	389.9	205.8	243.06 µg/L	243.06 ppb	06:50:38
2	Pb 220.353†	75.6	21.3	1.3442 µg/L	1.3442 ppb	06:50:38

2	S 181.975 Axial†	54.0	35.8	199.11 µg/L	199.11 ppb	06:50:38
2	Sb 206.836†	46.6	26.8	-14.760 µg/L	-14.760 ppb	06:50:38
2	Se 196.026†	-1091.0	-1198.8	-19.322 µg/L	-19.322 ppb	06:50:38
2	SiO2†	1643.0	-596.0	-121.69 µg/L	-121.69 ppb	06:50:38
2	Si 251.611†	-337.3	-650.6	-52.700 µg/L	-52.700 ppb	06:50:38
2	Sn 189.927†	-375.7	-433.6	3.1545 µg/L	3.1545 ppb	06:50:38
2	Ti 334.940†	14291.1	14895.2	4.3110 µg/L	4.3110 ppb	06:50:18
2	Tl 190.801†	14.2	40.0	-13.627 µg/L	-13.627 ppb	06:50:38
2	U 409.014†	143959.3	157321.2	14527 µg/L	14527 ppb	06:50:18
2	V 292.402†	-3002.6	-3162.1	1.9750 µg/L	1.9750 ppb	06:50:18
2	Zn 213.857†	3071.1	2719.9	25.768 µg/L	25.768 ppb	06:50:38
3	Sc RADIAL	74475.6	74475.6	94.9 %		06:49:39
3	Al 396.153Radial†	761774.5	802768.2	519930 µg/L	519930 ppb	06:49:34
3	Ca 317.933Radial†	645404.8	679864.0	489870 µg/L	489870 ppb	06:49:34
3	Fe 238.204 Radial†	33791.6	35592.4	471300 µg/L	471300 ppb	06:49:39
3	K 766.490 Radial†	200.7	-187.2	-118.14 µg/L	-118.14 ppb	06:49:39
3	Mg 279.077 IEC†	46185.5	48661.0	498890 µg/L	498890 ppb	06:49:39
3	Na 589.592 Radial†	1771468.1	1866174.5	496840 µg/L	496840 ppb	06:49:34
3	Sr 421.552†	1422.7	865.2	5.1755 µg/L	5.1755 ppb	06:49:39
3	Sc 361.383	1804407.4	1804407.4	91.295 %		06:50:45
3	Y 371.029	1121643.5	1121643.5	89.795 %		06:50:45
3	Ag 328.068†	-4167.8	-4472.6	-10.933 µg/L	-10.933 ppb	06:50:45
3	As 188.979†	-11.8	-10.2	-20.205 µg/L	-20.205 ppb	06:51:06
3	B 249.677†	5967.4	6166.4	46.169 µg/L	46.169 ppb	06:50:45
3	Ba 233.527†	474.1	543.3	15.106 µg/L	15.106 ppb	06:51:06
3	Be 313.107†	-1103.9	-5042.9	-3.4076 µg/L	-3.4076 ppb	06:50:45
3	Cd 226.502†	1769.7	2063.8	5.2139 µg/L	5.2139 ppb	06:50:45
3	Co 228.616†	134.6	196.7	10.356 µg/L	10.356 ppb	06:51:06
3	Cr 267.716†	240.2	365.3	8.1609 µg/L	8.1609 ppb	06:51:06
3	Cu 324.752†	-4904.6	-9272.2	-2.4756 µg/L	-2.4756 ppb	06:50:45
3	Mn 257.610†	-13593.4	-14741.6	-9.5448 µg/L	-9.5448 ppb	06:50:45
3	Mo 202.031†	-224.1	-258.1	-13.352 µg/L	-13.352 ppb	06:51:06
3	Ni 231.604†	277.7	-27.2	4.4686 µg/L	4.4686 ppb	06:51:06
3	P 214.914†	389.2	206.5	246.44 µg/L	246.44 ppb	06:51:06
3	Pb 220.353†	75.0	21.0	1.2965 µg/L	1.2965 ppb	06:51:06
3	S 181.975 Axial†	72.1	55.8	310.39 µg/L	310.39 ppb	06:51:06
3	Sb 206.836†	63.7	45.7	5.1408 µg/L	5.1408 ppb	06:51:06
3	Se 196.026†	-1109.8	-1223.6	-61.666 µg/L	-61.666 ppb	06:51:06
3	SiO2†	1648.3	-583.9	-119.23 µg/L	-119.23 ppb	06:51:06
3	Si 251.611†	-334.3	-648.7	-52.544 µg/L	-52.544 ppb	06:51:06
3	Sn 189.927†	-369.6	-428.2	6.1554 µg/L	6.1554 ppb	06:51:06
3	Ti 334.940†	15027.1	15756.1	6.4730 µg/L	6.4730 ppb	06:50:45
3	Tl 190.801†	14.1	40.0	-13.697 µg/L	-13.697 ppb	06:51:06
3	U 409.014†	144347.5	158297.0	14618 µg/L	14618 ppb	06:50:45
3	V 292.402†	-3032.8	-3206.7	1.4594 µg/L	1.4594 ppb	06:50:45
3	Zn 213.857†	3090.3	2752.7	26.792 µg/L	26.792 ppb	06:51:06

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1808901.6	91.523 %	0.1981			0.22%
Sc RADIAL	74707.1	95.2 %	0.26			0.27%
Y 371.029	1124169.3	89.998 %	0.1752			0.19%
Ag 328.068†	-4464.3	-10.870 µg/L	0.3738	-10.870 ppb	0.3738	3.44%
Al 396.153Radial†	801507.5	519110 µg/L	838.1	519110 ppb	838.1	0.16%
QC value within limits for Al 396.153Radial Recovery = 103.82%						
As 188.979†	-11.2	-22.423 µg/L	3.0499	-22.423 ppb	3.0499	13.60%
B 249.677†	6109.1	43.582 µg/L	2.2445	43.582 ppb	2.2445	5.15%
Ba 233.527†	548.6	15.255 µg/L	0.1330	15.255 ppb	0.1330	0.87%
Be 313.107†	-5021.9	-3.3927 µg/L	0.03574	-3.3927 ppb	0.03574	1.05%
Ca 317.933Radial†	679502.4	489610 µg/L	901.7	489610 ppb	901.7	0.18%
QC value within limits for Ca 317.933Radial Recovery = 97.92%						
Cd 226.502†	2061.3	5.1699 µg/L	0.42382	5.1699 ppb	0.42382	8.20%
Co 228.616†	185.2	9.7509 µg/L	1.03582	9.7509 ppb	1.03582	10.62%
Cr 267.716†	359.9	8.0404 µg/L	0.27735	8.0404 ppb	0.27735	3.45%
Cu 324.752†	-9182.0	-1.8486 µg/L	0.54649	-1.8486 ppb	0.54649	29.56%
Fe 238.204 Radial†	35573.9	471060 µg/L	1788.7	471060 ppb	1788.7	0.38%
QC value within limits for Fe 238.204 Radial Recovery = 94.21%						
K 766.490 Radial†	-153.2	-96.681 µg/L	19.2309	-96.681 ppb	19.2309	19.89%
Mg 279.077 IEC†	48585.3	498120 µg/L	2045.3	498120 ppb	2045.3	0.41%

QC value within limits for Mg 279.077 IEC Recovery = 99.62%							
Mn 257.610†	-14659.6	-9.2555 µg/L	0.31540	-9.2555 ppb	0.31540	3.41%	
Mo 202.031†	-253.2	-12.778 µg/L	1.0419	-12.778 ppb	1.0419	8.15%	
Na 589.592 Radial†	1861902.3	495700 µg/L	1123.2	495700 ppb	1123.2	0.23%	
QC value within limits for Na 589.592 Radial Recovery = 99.14%							
Ni 231.604†	-46.7	3.2822 µg/L	1.14508	3.2822 ppb	1.14508	34.89%	
P 214.914†	212.3	259.73 µg/L	25.997	259.73 ppb	25.997	10.01%	
Pb 220.353†	20.4	1.1785 µg/L	0.24686	1.1785 ppb	0.24686	20.95%	
S 181.975 Axial†	44.6	248.19 µg/L	56.787	248.19 ppb	56.787	22.88%	
Sb 206.836†	39.3	-1.6624 µg/L	11.34577	-1.6624 ppb	11.34577	682.50%	
Se 196.026†	-1218.0	-53.920 µg/L	31.4488	-53.920 ppb	31.4488	58.33%	
SiO2†	-593.2	-121.13 µg/L	1.691	-121.13 ppb	1.691	1.40%	
Si 251.611†	-633.4	-51.312 µg/L	2.2715	-51.312 ppb	2.2715	4.43%	
Sn 189.927†	-433.0	3.2471 µg/L	2.86317	3.2471 ppb	2.86317	88.18%	
Sr 421.552†	886.0	5.3002 µg/L	0.15590	5.3002 ppb	0.15590	2.94%	
Ti 334.940†	14938.4	4.5536 µg/L	1.81040	4.5536 ppb	1.81040	39.76%	
Tl 190.801†	37.5	-17.939 µg/L	7.4086	-17.939 ppb	7.4086	41.30%	
U 409.014†	157337.1	14529 µg/L	88.4	14529 ppb	88.4	0.61%	
QC value within limits for U 409.014 Recovery = 96.86%							
V 292.402†	-3167.1	1.8348 µg/L	0.32858	1.8348 ppb	0.32858	17.91%	
Zn 213.857†	2734.3	26.336 µg/L	0.5209	26.336 ppb	0.5209	1.98%	
All analyte(s) passed QC.							

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 1/29/2010 06:51:16

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	77065.6	77065.6	98.2 %		06:51:58
1	Al 396.153Radial†	292.3	327.1	3.3367 µg/L	3.3367 ppb	06:51:58
1	Ca 317.933Radial†	318.3	77.0	55.474 µg/L	55.474 ppb	06:52:18
1	Fe 238.204 Radial†	-19.6	-36.3	-270.39 µg/L	-270.39 ppb	06:52:18
1	K 766.490 Radial†	490372.7	498976.8	314810 µg/L	314810 ppb	06:51:52
1	Mg 279.077 IEC†	-25.9	-34.5	-183.13 µg/L	-183.13 ppb	06:52:18
1	Na 589.592 Radial†	1829.3	1309.2	348.56 µg/L	348.56 ppb	06:51:58
1	Sr 421.552†	1674429.4	1704536.5	10196 µg/L	10196 ppb	06:51:52
1	Sc 361.383	1962801.1	1962801.1	99.309 %		06:53:50
1	Y 371.029	1230143.3	1230143.3	98.482 %		06:53:50
1	Ag 328.068†	-7188.6	-7146.0	4.5329 µg/L	4.5329 ppb	06:53:50
1	As 188.979†	4511.2	4545.3	9887.4 µg/L	9887.4 ppb	06:53:55
1	B 249.677†	105935.5	106302.4	5075.9 µg/L	5075.9 ppb	06:53:50
1	Ba 233.527†	478121.3	481471.2	13468 µg/L	13468 ppb	06:53:50
1	Be 313.107†	4397361.9	4424117.1	2972.8 µg/L	2972.8 ppb	06:53:39
1	Cd 226.502†	348359.7	350908.3	9952.5 µg/L	9952.5 ppb	06:53:50
1	Co 228.616†	184883.1	186218.5	9894.0 µg/L	9894.0 ppb	06:53:50
1	Cr 267.716†	1120265.5	1128160.4	25285 µg/L	25285 ppb	06:53:50
1	Cu 324.752†	2890397.7	2906604.0	21312 µg/L	21312 ppb	06:53:50
1	Mn 257.610†	2771028.8	2790452.5	9890.8 µg/L	9890.8 ppb	06:53:50
1	Mo 202.031†	83226.1	83792.5	10151 µg/L	10151 ppb	06:53:50
1	Ni 231.604†	165857.4	166679.7	10080 µg/L	10080 ppb	06:53:50
1	P 214.914†	8119.6	7956.3	16249 µg/L	16249 ppb	06:53:55
1	Pb 220.353†	92380.5	92962.0	26071 µg/L	26071 ppb	06:53:50
1	S 181.975 Axial†	9536.7	9579.9	53260 µg/L	53260 ppb	06:53:55
1	Sb 206.836†	9930.3	9975.3	10430 µg/L	10430 ppb	06:53:55
1	Se 196.026†	6767.1	6806.3	10229 µg/L	10229 ppb	06:53:55
1	SiO2†	502944.5	504053.7	102920 µg/L	102920 ppb	06:53:50
1	Si 251.611†	587130.6	590932.4	47868 µg/L	47868 ppb	06:53:50
1	Sn 189.927†	19539.2	19651.7	11077 µg/L	11077 ppb	06:53:55
1	Ti 334.940†	4209334.4	4237911.6	10244 µg/L	10244 ppb	06:53:39
1	Tl 190.801†	5935.6	6001.4	10091 µg/L	10091 ppb	06:53:55
1	U 409.014†	795.4	987.2	91.819 µg/L	91.819 ppb	06:53:50
1	V 292.402†	863819.5	869943.7	10604 µg/L	10604 ppb	06:53:50
1	Zn 213.857†	532190.9	535260.7	14967 µg/L	14967 ppb	06:53:50
2	Sc RADIAL	76960.2	76960.2	98.1 %		06:52:30
2	Al 396.153Radial†	312.8	348.5	22.133 µg/L	22.133 ppb	06:52:30
2	Ca 317.933Radial†	316.8	75.9	54.666 µg/L	54.666 ppb	06:52:50
2	Fe 238.204 Radial†	-18.7	-35.4	-263.08 µg/L	-263.08 ppb	06:52:50
2	K 766.490 Radial†	496745.8	506159.4	319340 µg/L	319340 ppb	06:52:24
2	Mg 279.077 IEC†	-22.1	-30.7	-148.39 µg/L	-148.39 ppb	06:52:50
2	Na 589.592 Radial†	1557.4	1034.5	275.41 µg/L	275.41 ppb	06:52:30
2	Sr 421.552†	1698938.4	1731864.0	10360 µg/L	10360 ppb	06:52:24
2	Sc 361.383	1982518.2	1982518.2	100.31 %		06:54:14
2	Y 371.029	1242163.2	1242163.2	99.444 %		06:54:14
2	Ag 328.068†	-7090.3	-6976.0	4.4474 µg/L	4.4474 ppb	06:54:14
2	As 188.979†	4367.1	4356.5	9476.2 µg/L	9476.2 ppb	06:54:20
2	B 249.677†	105005.2	104314.1	4980.7 µg/L	4980.7 ppb	06:54:14
2	Ba 233.527†	472823.0	471400.9	13186 µg/L	13186 ppb	06:54:14
2	Be 313.107†	4341654.7	4324542.2	2905.9 µg/L	2905.9 ppb	06:54:04
2	Cd 226.502†	344481.0	343552.7	9743.9 µg/L	9743.9 ppb	06:54:14
2	Co 228.616†	182422.3	181913.7	9665.3 µg/L	9665.3 ppb	06:54:14
2	Cr 267.716†	1103191.5	1099919.6	24652 µg/L	24652 ppb	06:54:14
2	Cu 324.752†	2845234.6	2832632.7	20770 µg/L	20770 ppb	06:54:14
2	Mn 257.610†	2734796.9	2726580.5	9664.4 µg/L	9664.4 ppb	06:54:14
2	Mo 202.031†	82073.7	81810.1	9910.9 µg/L	9910.9 ppb	06:54:14
2	Ni 231.604†	163687.8	162855.8	9849.1 µg/L	9849.1 ppb	06:54:14
2	P 214.914†	7822.2	7578.4	15428 µg/L	15428 ppb	06:54:20
2	Pb 220.353†	91432.3	91091.5	25547 µg/L	25547 ppb	06:54:14

2	S 181.975 Axial†	9279.4	9227.9	51303 µg/L	51303 ppb	06:54:20
2	Sb 206.836†	9614.8	9561.4	9995.7 µg/L	9995.7 ppb	06:54:20
2	Se 196.026†	6588.8	6560.7	9860.0 µg/L	9860.0 ppb	06:54:20
2	SiO2†	497707.6	493796.0	100820 µg/L	100820 ppb	06:54:14
2	Si 251.611†	580903.4	578844.3	46889 µg/L	46889 ppb	06:54:14
2	Sn 189.927†	18795.8	18714.9	10549 µg/L	10549 ppb	06:54:20
2	Ti 334.940†	4153305.5	4139899.0	10007 µg/L	10007 ppb	06:54:04
2	Tl 190.801†	5805.5	5812.3	9773.6 µg/L	9773.6 ppb	06:54:20
2	U 409.014†	825.5	1009.2	93.861 µg/L	93.861 ppb	06:54:14
2	V 292.402†	852022.4	849531.9	10355 µg/L	10355 ppb	06:54:14
2	Zn 213.857†	525348.3	523109.3	14628 µg/L	14628 ppb	06:54:14
3	Sc RADIAL	77519.2	77519.2	98.8 %		06:53:01
3	Al 396.153Radial†	395.1	429.5	95.898 µg/L	95.898 ppb	06:53:01
3	Ca 317.933Radial†	401.0	158.8	114.39 µg/L	114.39 ppb	06:53:22
3	Fe 238.204 Radial†	-18.7	-35.3	-283.75 µg/L	-283.75 ppb	06:53:22
3	K 766.490 Radial†	475994.2	481498.2	303780 µg/L	303780 ppb	06:52:56
3	Mg 279.077 IEC†	-15.1	-23.4	-90.914 µg/L	-90.914 ppb	06:53:22
3	Na 589.592 Radial†	1464.8	929.3	247.42 µg/L	247.42 ppb	06:53:01
3	Sr 421.552†	1623628.2	1643128.4	9829.1 µg/L	9829.1 ppb	06:52:56
3	Sc 361.383	1992712.7	1992712.7	100.82 %		06:54:39
3	Y 371.029	1248232.5	1248232.5	99.930 %		06:54:39
3	Ag 328.068†	-6369.3	-6224.8	3.9277 µg/L	3.9277 ppb	06:54:39
3	As 188.979†	4009.8	3979.8	8657.3 µg/L	8657.3 ppb	06:54:45
3	B 249.677†	97826.5	96658.4	4613.1 µg/L	4613.1 ppb	06:54:39
3	Ba 233.527†	428765.4	425291.2	11896 µg/L	11896 ppb	06:54:39
3	Be 313.107†	4087403.6	4050222.1	2721.5 µg/L	2721.5 ppb	06:54:29
3	Cd 226.502†	311837.7	309418.9	8775.7 µg/L	8775.7 ppb	06:54:39
3	Co 228.616†	163590.4	162305.0	8622.6 µg/L	8622.6 ppb	06:54:39
3	Cr 267.716†	969580.3	961772.0	21556 µg/L	21556 ppb	06:54:39
3	Cu 324.752†	2560933.8	2536140.1	18596 µg/L	18596 ppb	06:54:39
3	Mn 257.610†	2456079.8	2436189.3	8635.1 µg/L	8635.1 ppb	06:54:39
3	Mo 202.031†	73862.1	73246.9	8873.5 µg/L	8873.5 ppb	06:54:39
3	Ni 231.604†	146790.2	145261.2	8785.0 µg/L	8785.0 ppb	06:54:39
3	P 214.914†	7035.4	6758.2	13749 µg/L	13749 ppb	06:54:45
3	Pb 220.353†	83859.3	83113.9	23310 µg/L	23310 ppb	06:54:39
3	S 181.975 Axial†	8524.1	8431.4	46875 µg/L	46875 ppb	06:54:45
3	Sb 206.836†	8770.8	8675.3	9076.6 µg/L	9076.6 ppb	06:54:45
3	Se 196.026†	6034.6	5977.4	8983.2 µg/L	8983.2 ppb	06:54:45
3	SiO2†	458235.3	452107.3	92310 µg/L	92310 ppb	06:54:39
3	Si 251.611†	534935.9	530289.1	42956 µg/L	42956 ppb	06:54:39
3	Sn 189.927†	16656.0	16496.6	9298.6 µg/L	9298.6 ppb	06:54:45
3	Ti 334.940†	3913155.6	3880525.7	9380.5 µg/L	9380.5 ppb	06:54:29
3	Tl 190.801†	5445.0	5425.1	9122.8 µg/L	9122.8 ppb	06:54:45
3	U 409.014†	720.2	900.5	83.759 µg/L	83.759 ppb	06:54:39
3	V 292.402†	763681.1	757565.8	9233.5 µg/L	9233.5 ppb	06:54:39
3	Zn 213.857†	474042.1	469542.3	13130 µg/L	13130 ppb	06:54:39

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1979344.0	100.15 %	0.769			0.77%
Sc RADIAL	77181.7	98.3 %	0.38			0.38%
Y 371.029	1240179.7	99.285 %	0.7370			0.74%
Ag 328.068†	-6782.3	4.3027 µg/L	0.32755	4.3027 ppb	0.32755	7.61%
Al 396.153Radial†	368.4	40.456 µg/L	48.9253	40.456 ppb	48.9253	120.93%
As 188.979†	4293.9	9340.3 µg/L	626.21	9340.3 ppb	626.21	6.70%
QC value within limits for As 188.979 Recovery = 93.40%						
B 249.677†	102425.0	4889.9 µg/L	244.38	4889.9 ppb	244.38	5.00%
QC value within limits for B 249.677 Recovery = 97.80%						
Ba 233.527†	459387.8	12850 µg/L	838.0	12850 ppb	838.0	6.52%
QC value less than the lower limit for Ba 233.527 Recovery = 85.67%						
Be 313.107†	4266293.8	2866.7 µg/L	130.11	2866.7 ppb	130.11	4.54%
QC value within limits for Be 313.107 Recovery = 95.56%						
Ca 317.933Radial†	103.9	74.843 µg/L	34.2503	74.843 ppb	34.2503	45.76%
Cd 226.502†	334626.6	9490.7 µg/L	627.94	9490.7 ppb	627.94	6.62%
QC value within limits for Cd 226.502 Recovery = 94.91%						
Co 228.616†	176812.4	9394.0 µg/L	677.78	9394.0 ppb	677.78	7.22%
QC value within limits for Co 228.616 Recovery = 93.94%						
Cr 267.716†	1063284.0	23831 µg/L	1995.5	23831 ppb	1995.5	8.37%
QC value within limits for Cr 267.716 Recovery = 95.32%						

Cu 324.752†	2758458.9	20226 µg/L	1437.5	20226 ppb	1437.5	7.11%
QC value within limits for Cu 324.752 Recovery = 101.13%						
Fe 238.204 Radial†	-35.6	-272.40 µg/L	10.484	-272.40 ppb	10.484	3.85%
K 766.490 Radial†	495544.8	312640 µg/L	8002.3	312640 ppb	8002.3	2.56%
QC value within limits for K 766.490 Radial Recovery = 104.21%						
Mg 279.077 IEC†	-29.6	-140.81 µg/L	46.573	-140.81 ppb	46.573	33.07%
Mn 257.610†	2651074.1	9396.8 µg/L	669.27	9396.8 ppb	669.27	7.12%
QC value within limits for Mn 257.610 Recovery = 93.97%						
Mo 202.031†	79616.5	9645.2 µg/L	678.97	9645.2 ppb	678.97	7.04%
QC value within limits for Mo 202.031 Recovery = 96.45%						
Na 589.592 Radial†	1091.0	290.46 µg/L	52.222	290.46 ppb	52.222	17.98%
Ni 231.604†	158265.6	9571.5 µg/L	690.85	9571.5 ppb	690.85	7.22%
QC value within limits for Ni 231.604 Recovery = 95.72%						
P 214.914†	7430.9	15142 µg/L	1274.5	15142 ppb	1274.5	8.42%
QC value within limits for P 214.914 Recovery = 100.95%						
Pb 220.353†	89055.8	24976 µg/L	1466.7	24976 ppb	1466.7	5.87%
QC value within limits for Pb 220.353 Recovery = 99.90%						
S 181.975 Axial†	9079.7	50479 µg/L	3271.3	50479 ppb	3271.3	6.48%
QC value within limits for S 181.975 Axial Recovery = 100.96%						
Sb 206.836†	9404.0	9834.2 µg/L	691.15	9834.2 ppb	691.15	7.03%
QC value within limits for Sb 206.836 Recovery = 98.34%						
Se 196.026†	6448.1	9690.7 µg/L	639.92	9690.7 ppb	639.92	6.60%
QC value within limits for Se 196.026 Recovery = 96.91%						
SiO2†	483319.0	98682 µg/L	5617.4	98682 ppb	5617.4	5.69%
QC value within limits for SiO2 Recovery = 92.23%						
Si 251.611†	566688.6	45904 µg/L	2600.0	45904 ppb	2600.0	5.66%
QC value within limits for Si 251.611 Recovery = 91.81%						
Sn 189.927†	18287.7	10308 µg/L	913.3	10308 ppb	913.3	8.86%
QC value within limits for Sn 189.927 Recovery = 103.08%						
Sr 421.552†	1693176.3	10128 µg/L	271.9	10128 ppb	271.9	2.68%
QC value within limits for Sr 421.552 Recovery = 101.28%						
Ti 334.940†	4086112.1	9877.5 µg/L	446.40	9877.5 ppb	446.40	4.52%
QC value within limits for Ti 334.940 Recovery = 98.77%						
Tl 190.801†	5746.3	9662.4 µg/L	493.57	9662.4 ppb	493.57	5.11%
QC value within limits for Tl 190.801 Recovery = 96.62%						
U 409.014†	965.6	89.813 µg/L	5.3417	89.813 ppb	5.3417	5.95%
V 292.402†	825680.5	10064 µg/L	730.2	10064 ppb	730.2	7.25%
QC value within limits for V 292.402 Recovery = 100.64%						
Zn 213.857†	509304.1	14242 µg/L	977.6	14242 ppb	977.6	6.86%
QC value within limits for Zn 213.857 Recovery = 94.95%						
QC Failed. Continue with analysis.						

=====
Analysis Begun

Start Time: 1/29/2010 07:10:05

Plasma On Time: 1/25/2010 05:31:26

Logged In Analyst: optima

Technique: ICP Continuous

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

Sample Information File: C:\pe\optimal\Sample Information\012910.sif

Batch ID:

Results Data Set: 012910

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

Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 1/29/2010 05:40:44

IEC File: 011510.iec

MSF File:

Method Description:

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

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/29/2010 07:10:07

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	78460.5	78460.5	100.0 %		07:10:42
1	Al 396.153Radial†	7797.6	7829.1	5059.5 µg/L	5059.5 ppb	07:10:42
1	Ca 317.933Radial†	7291.2	7045.9	5076.9 µg/L	5076.9 ppb	07:10:42
1	Fe 238.204 Radial†	410.4	394.2	5231.0 µg/L	5231.0 ppb	07:11:02

1	K 766.490 Radial†	8680.9	8284.4	5226.6 µg/L	5226.6 ppb	07:10:42
1	Mg 279.077 IEC†	514.9	506.9	5205.9 µg/L	5205.9 ppb	07:11:02
1	Na 589.592 Radial†	38616.0	38072.1	10136 µg/L	10136 ppb	07:10:42
1	Sr 421.552†	87527.4	86915.6	519.92 µg/L	519.92 ppb	07:10:42
1	Sc 361.383	1978806.4	1978806.4	100.12 %		07:12:06
1	Y 371.029	1245705.5	1245705.5	99.727 %		07:12:06
1	Ag 328.068†	59341.3	59363.4	539.73 µg/L	539.73 ppb	07:12:11
1	As 188.979†	255.8	258.3	561.90 µg/L	561.90 ppb	07:12:32
1	B 249.677†	11582.1	11198.4	528.58 µg/L	528.58 ppb	07:12:11
1	Ba 233.527†	19247.7	19248.8	538.65 µg/L	538.65 ppb	07:12:11
1	Be 313.107†	796301.0	791520.9	532.36 µg/L	532.36 ppb	07:12:06
1	Cd 226.502†	18917.6	19020.4	538.86 µg/L	538.86 ppb	07:12:11
1	Co 228.616†	10146.5	10183.7	541.11 µg/L	541.11 ppb	07:12:11
1	Cr 267.716†	24165.2	24238.6	543.45 µg/L	543.45 ppb	07:12:11
1	Cu 324.752†	77809.0	73816.6	541.98 µg/L	541.98 ppb	07:12:11
1	Mn 257.610†	150718.3	150687.1	534.60 µg/L	534.60 ppb	07:12:06
1	Mo 202.031†	4492.1	4474.2	542.23 µg/L	542.23 ppb	07:12:32
1	Ni 231.604†	9290.3	8947.8	541.20 µg/L	541.20 ppb	07:12:11
1	P 214.914†	1412.1	1190.6	2692.2 µg/L	2692.2 ppb	07:12:32
1	Pb 220.353†	2034.8	1971.2	553.15 µg/L	553.15 ppb	07:12:32
1	S 181.975 Axial†	225.6	202.2	1124.1 µg/L	1124.1 ppb	07:12:32
1	Sb 206.836†	541.3	516.7	548.73 µg/L	548.73 ppb	07:12:32
1	Se 196.026†	372.6	364.2	567.18 µg/L	567.18 ppb	07:12:32
1	SiO2†	31162.4	28735.9	5867.2 µg/L	5867.2 ppb	07:12:11
1	Si 251.611†	34110.3	33787.4	2736.9 µg/L	2736.9 ppb	07:12:11
1	Sn 189.927†	1021.7	997.0	564.59 µg/L	564.59 ppb	07:12:32
1	Ti 334.940†	222867.7	221899.0	536.07 µg/L	536.07 ppb	07:12:06
1	Tl 190.801†	301.2	325.4	546.51 µg/L	546.51 ppb	07:12:32
1	U 409.014†	5593.1	5772.7	535.51 µg/L	535.51 ppb	07:12:11
1	V 292.402†	44947.7	45009.6	547.84 µg/L	547.84 ppb	07:12:11
1	Zn 213.857†	19928.4	19272.4	537.94 µg/L	537.94 ppb	07:12:11
2	Sc RADIAL	78520.4	78520.4	100 %		07:11:08
2	Al 396.153Radial†	7812.6	7838.1	5065.4 µg/L	5065.4 ppb	07:11:08
2	Ca 317.933Radial†	7292.7	7041.8	5074.0 µg/L	5074.0 ppb	07:11:08
2	Fe 238.204 Radial†	405.1	388.6	5157.0 µg/L	5157.0 ppb	07:11:28
2	K 766.490 Radial†	8719.5	8316.4	5246.8 µg/L	5246.8 ppb	07:11:08
2	Mg 279.077 IEC†	518.3	509.9	5236.2 µg/L	5236.2 ppb	07:11:28
2	Na 589.592 Radial†	38594.6	38021.3	10123 µg/L	10123 ppb	07:11:08
2	Sr 421.552†	87714.4	87035.8	520.64 µg/L	520.64 ppb	07:11:08
2	Sc 361.383	1968243.0	1968243.0	99.585 %		07:12:39
2	Y 371.029	1238826.5	1238826.5	99.177 %		07:12:39
2	Ag 328.068†	59023.1	59361.9	539.70 µg/L	539.70 ppb	07:12:44
2	As 188.979†	250.3	254.0	552.71 µg/L	552.71 ppb	07:13:05
2	B 249.677†	11453.5	11131.3	525.43 µg/L	525.43 ppb	07:12:44
2	Ba 233.527†	19096.2	19199.9	537.28 µg/L	537.28 ppb	07:12:44
2	Be 313.107†	794007.8	793486.7	533.68 µg/L	533.68 ppb	07:12:39
2	Cd 226.502†	18755.9	18959.5	537.14 µg/L	537.14 ppb	07:12:44
2	Co 228.616†	10052.9	10144.1	539.00 µg/L	539.00 ppb	07:12:44
2	Cr 267.716†	23998.3	24200.6	542.59 µg/L	542.59 ppb	07:12:44
2	Cu 324.752†	77334.9	73757.6	541.53 µg/L	541.53 ppb	07:12:44
2	Mn 257.610†	150282.7	151057.6	535.91 µg/L	535.91 ppb	07:12:39
2	Mo 202.031†	4466.5	4472.5	542.02 µg/L	542.02 ppb	07:13:05
2	Ni 231.604†	9201.8	8908.8	538.84 µg/L	538.84 ppb	07:12:44
2	P 214.914†	1410.9	1197.0	2707.0 µg/L	2707.0 ppb	07:13:05
2	Pb 220.353†	2030.4	1977.7	554.98 µg/L	554.98 ppb	07:13:05
2	S 181.975 Axial†	219.0	196.8	1094.1 µg/L	1094.1 ppb	07:13:05
2	Sb 206.836†	535.3	513.5	545.37 µg/L	545.37 ppb	07:13:05
2	Se 196.026†	374.3	367.9	572.52 µg/L	572.52 ppb	07:13:05
2	SiO2†	30891.9	28631.4	5845.8 µg/L	5845.8 ppb	07:12:44
2	Si 251.611†	33839.7	33698.5	2729.7 µg/L	2729.7 ppb	07:12:44
2	Sn 189.927†	1016.2	996.9	564.54 µg/L	564.54 ppb	07:13:05
2	Ti 334.940†	222369.5	222593.4	537.75 µg/L	537.75 ppb	07:12:39
2	Tl 190.801†	300.8	326.6	548.62 µg/L	548.62 ppb	07:13:05
2	U 409.014†	5570.3	5779.8	536.19 µg/L	536.19 ppb	07:12:44
2	V 292.402†	44585.1	44886.5	546.35 µg/L	546.35 ppb	07:12:44
2	Zn 213.857†	19795.6	19245.9	537.21 µg/L	537.21 ppb	07:12:44
3	Sc RADIAL	78784.5	78784.5	100 %		07:11:34
3	Al 396.153Radial†	7827.6	7826.9	5059.9 µg/L	5059.9 ppb	07:11:34
3	Ca 317.933Radial†	7341.1	7065.6	5091.1 µg/L	5091.1 ppb	07:11:34
3	Fe 238.204 Radial†	405.7	387.8	5145.0 µg/L	5145.0 ppb	07:11:54
3	K 766.490 Radial†	8707.2	8274.9	5220.7 µg/L	5220.7 ppb	07:11:34

3	Mg 279.077 IEC†	514.2	504.0	5174.9 µg/L	5174.9 ppb	07:11:54
3	Na 589.592 Radial†	38810.2	38106.7	10145 µg/L	10145 ppb	07:11:34
3	Sr 421.552†	88178.2	87203.8	521.65 µg/L	521.65 ppb	07:11:34
3	Sc 361.383	1976144.1	1976144.1	99.984 %		07:13:12
3	Y 371.029	1244071.7	1244071.7	99.597 %		07:13:12
3	Ag 328.068†	56791.1	56892.6	517.11 µg/L	517.11 ppb	07:13:18
3	As 188.979†	214.2	216.9	472.02 µg/L	472.02 ppb	07:13:38
3	B 249.677†	10969.1	10600.9	500.23 µg/L	500.23 ppb	07:13:18
3	Ba 233.527†	17818.2	17844.9	499.35 µg/L	499.35 ppb	07:13:18
3	Be 313.107†	755803.5	752088.6	505.84 µg/L	505.84 ppb	07:13:12
3	Cd 226.502†	17452.8	17580.8	498.04 µg/L	498.04 ppb	07:13:18
3	Co 228.616†	9302.4	9353.2	496.91 µg/L	496.91 ppb	07:13:18
3	Cr 267.716†	21611.7	21717.3	486.92 µg/L	486.92 ppb	07:13:18
3	Cu 324.752†	71865.9	67977.2	499.15 µg/L	499.15 ppb	07:13:18
3	Mn 257.610†	143205.0	143375.4	508.68 µg/L	508.68 ppb	07:13:12
3	Mo 202.031†	3748.7	3736.7	452.88 µg/L	452.88 ppb	07:13:38
3	Ni 231.604†	8527.7	8197.6	495.82 µg/L	495.82 ppb	07:13:18
3	P 214.914†	1230.1	1010.4	2280.0 µg/L	2280.0 ppb	07:13:38
3	Pb 220.353†	1764.0	1703.1	477.82 µg/L	477.82 ppb	07:13:38
3	S 181.975 Axial†	197.8	174.7	971.03 µg/L	971.03 ppb	07:13:38
3	Sb 206.836†	473.0	449.1	476.40 µg/L	476.40 ppb	07:13:38
3	Se 196.026†	319.0	311.1	487.05 µg/L	487.05 ppb	07:13:38
3	SiO2†	29289.0	26904.2	5493.2 µg/L	5493.2 ppb	07:13:18
3	Si 251.611†	31956.9	31679.5	2566.2 µg/L	2566.2 ppb	07:13:18
3	Sn 189.927†	842.3	819.0	464.22 µg/L	464.22 ppb	07:13:38
3	Ti 334.940†	210554.7	209883.9	507.03 µg/L	507.03 ppb	07:13:12
3	Tl 190.801†	277.1	301.7	506.82 µg/L	506.82 ppb	07:13:38
3	U 409.014†	4981.6	5168.6	479.38 µg/L	479.38 ppb	07:13:18
3	V 292.402†	40917.8	41039.5	499.19 µg/L	499.19 ppb	07:13:18
3	Zn 213.857†	18332.6	17703.2	494.11 µg/L	494.11 ppb	07:13:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1974397.8	99.896 %	0.2780			0.28%
Sc RADIAL	78588.5	100 %	0.2			0.22%
Y 371.029	1242867.9	99.500 %	0.2877			0.29%
Ag 328.068†	58539.3	532.18 µg/L	13.053	532.18 ppb	13.053	2.45%
QC value within limits for Ag 328.068 Recovery = 106.44%						
Al 396.153Radial†	7831.4	5061.6 µg/L	3.26	5061.6 ppb	3.26	0.06%
QC value within limits for Al 396.153Radial Recovery = 101.23%						
As 188.979†	243.1	528.88 µg/L	49.456	528.88 ppb	49.456	9.35%
QC value within limits for As 188.979 Recovery = 105.78%						
B 249.677†	10976.9	518.08 µg/L	15.541	518.08 ppb	15.541	3.00%
QC value within limits for B 249.677 Recovery = 103.62%						
Ba 233.527†	18764.5	525.09 µg/L	22.305	525.09 ppb	22.305	4.25%
QC value within limits for Ba 233.527 Recovery = 105.02%						
Be 313.107†	779032.1	523.96 µg/L	15.707	523.96 ppb	15.707	3.00%
QC value within limits for Be 313.107 Recovery = 104.79%						
Ca 317.933Radial†	7051.1	5080.6 µg/L	9.15	5080.6 ppb	9.15	0.18%
QC value within limits for Ca 317.933Radial Recovery = 101.61%						
Cd 226.502†	18520.2	524.68 µg/L	23.089	524.68 ppb	23.089	4.40%
QC value within limits for Cd 226.502 Recovery = 104.94%						
Co 228.616†	9893.7	525.68 µg/L	24.933	525.68 ppb	24.933	4.74%
QC value within limits for Co 228.616 Recovery = 105.14%						
Cr 267.716†	23385.5	524.32 µg/L	32.391	524.32 ppb	32.391	6.18%
QC value within limits for Cr 267.716 Recovery = 104.86%						
Cu 324.752†	71850.5	527.55 µg/L	24.600	527.55 ppb	24.600	4.66%
QC value within limits for Cu 324.752 Recovery = 105.51%						
Fe 238.204 Radial†	390.2	5177.7 µg/L	46.57	5177.7 ppb	46.57	0.90%
QC value within limits for Fe 238.204 Radial Recovery = 103.55%						
K 766.490 Radial†	8291.9	5231.4 µg/L	13.71	5231.4 ppb	13.71	0.26%
QC value within limits for K 766.490 Radial Recovery = 104.63%						
Mg 279.077 IEC†	506.9	5205.6 µg/L	30.69	5205.6 ppb	30.69	0.59%
QC value within limits for Mg 279.077 IEC Recovery = 104.11%						
Mn 257.610†	148373.4	526.39 µg/L	15.358	526.39 ppb	15.358	2.92%
QC value within limits for Mn 257.610 Recovery = 105.28%						
Mo 202.031†	4227.8	512.38 µg/L	51.525	512.38 ppb	51.525	10.06%
QC value within limits for Mo 202.031 Recovery = 102.48%						
Na 589.592 Radial†	38066.7	10135 µg/L	11.4	10135 ppb	11.4	0.11%

QC value within limits for Na 589.592 Radial Recovery = 101.35%

Ni 231.604†	8684.7	525.29 µg/L	25.542	525.29 ppb	25.542	4.86%
QC value within limits for Ni 231.604 Recovery = 105.06%						
P 214.914†	1132.7	2559.7 µg/L	242.36	2559.7 ppb	242.36	9.47%
QC value within limits for P 214.914 Recovery = 102.39%						
Pb 220.353†	1884.0	528.65 µg/L	44.032	528.65 ppb	44.032	8.33%
QC value within limits for Pb 220.353 Recovery = 105.73%						
S 181.975 Axial†	191.2	1063.1 µg/L	81.12	1063.1 ppb	81.12	7.63%
QC value within limits for S 181.975 Axial Recovery = 106.31%						
Sb 206.836†	493.1	523.50 µg/L	40.826	523.50 ppb	40.826	7.80%
QC value within limits for Sb 206.836 Recovery = 104.70%						
Se 196.026†	347.7	542.25 µg/L	47.881	542.25 ppb	47.881	8.83%
QC value within limits for Se 196.026 Recovery = 108.45%						
SiO2†	28090.5	5735.4 µg/L	210.04	5735.4 ppb	210.04	3.66%
QC value within limits for SiO2 Recovery = 107.25%						
Si 251.611†	33055.1	2677.6 µg/L	96.57	2677.6 ppb	96.57	3.61%
QC value within limits for Si 251.611 Recovery = 107.10%						
Sn 189.927†	937.6	531.11 µg/L	57.934	531.11 ppb	57.934	10.91%
QC value within limits for Sn 189.927 Recovery = 106.22%						
Sr 421.552†	87051.8	520.74 µg/L	0.866	520.74 ppb	0.866	0.17%
QC value within limits for Sr 421.552 Recovery = 104.15%						
Ti 334.940†	218125.4	526.95 µg/L	17.271	526.95 ppb	17.271	3.28%
QC value within limits for Ti 334.940 Recovery = 105.39%						
Tl 190.801†	317.9	533.98 µg/L	23.547	533.98 ppb	23.547	4.41%
QC value within limits for Tl 190.801 Recovery = 106.80%						
U 409.014†	5573.7	517.03 µg/L	32.606	517.03 ppb	32.606	6.31%
QC value within limits for U 409.014 Recovery = 103.41%						
V 292.402†	43645.2	531.13 µg/L	27.670	531.13 ppb	27.670	5.21%
QC value within limits for V 292.402 Recovery = 106.23%						
Zn 213.857†	18740.5	523.09 µg/L	25.100	523.09 ppb	25.100	4.80%
QC value within limits for Zn 213.857 Recovery = 104.62%						

All analyte(s) passed QC.

Sequence No.: 2
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 1/29/2010 07:13:49
 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	77610.3	77610.3	98.9 %		07:14:21
1	Al 396.153Radial†	-5.5	24.0	15.523 µg/L	15.523 ppb	07:14:21
1	Ca 317.933Radial†	299.9	56.1	40.418 µg/L	40.418 ppb	07:14:42
1	Fe 238.204 Radial†	17.9	1.7	22.812 µg/L	22.812 ppb	07:14:42
1	K 766.490 Radial†	402.6	8.4	5.2867 µg/L	5.2867 ppb	07:14:21
1	Mg 279.077 IEC†	7.7	-0.4	-3.9550 µg/L	-3.9550 ppb	07:14:42
1	Na 589.592 Radial†	577.6	30.4	8.0804 µg/L	8.0804 ppb	07:14:21
1	Sr 421.552†	667.2	40.6	0.2429 µg/L	0.2429 ppb	07:14:21
1	Sc 361.383	1958568.2	1958568.2	99.095 %		07:15:44
1	Y 371.029	1238167.9	1238167.9	99.124 %		07:15:44
1	Ag 328.068†	0.5	93.1	0.8440 µg/L	0.8440 ppb	07:15:49
1	As 188.979†	-3.0	-0.3	-0.6373 µg/L	-0.6373 ppb	07:16:10
1	B 249.677†	370.6	4.0	0.1802 µg/L	0.1802 ppb	07:15:49
1	Ba 233.527†	-13.5	10.4	0.2904 µg/L	0.2904 ppb	07:16:10
1	Be 313.107†	4435.7	642.4	0.4321 µg/L	0.4321 ppb	07:15:49
1	Cd 226.502†	-102.8	21.6	0.6093 µg/L	0.6093 ppb	07:16:10
1	Co 228.616†	-44.5	4.4	0.2350 µg/L	0.2350 ppb	07:16:10
1	Cr 267.716†	-59.8	41.8	0.9360 µg/L	0.9360 ppb	07:15:49
1	Cu 324.752†	4304.3	443.6	3.2559 µg/L	3.2559 ppb	07:15:49
1	Mn 257.610†	-28.9	118.7	0.4239 µg/L	0.4239 ppb	07:16:10
1	Mo 202.031†	17.9	5.5	0.6621 µg/L	0.6621 ppb	07:16:10
1	Ni 231.604†	338.4	10.1	0.6114 µg/L	0.6114 ppb	07:16:10
1	P 214.914†	217.2	-0.6	-1.7992 µg/L	-1.7992 ppb	07:16:10
1	Pb 220.353†	76.6	16.1	4.5249 µg/L	4.5249 ppb	07:16:10
1	S 181.975 Axial†	24.1	1.2	6.7481 µg/L	6.7481 ppb	07:16:10
1	Sb 206.836†	24.7	0.9	0.9329 µg/L	0.9329 ppb	07:16:10
1	Se 196.026†	6.2	-1.7	-2.4951 µg/L	-2.4951 ppb	07:16:10
1	SiO2†	2402.6	35.1	7.1686 µg/L	7.1686 ppb	07:15:49
1	Si 251.611†	302.2	22.6	1.8279 µg/L	1.8279 ppb	07:16:10
1	Sn 189.927†	25.2	1.9	1.1039 µg/L	1.1039 ppb	07:16:10
1	Ti 334.940†	852.1	156.0	0.3781 µg/L	0.3781 ppb	07:15:49
1	Tl 190.801†	-17.7	6.7	11.062 µg/L	11.062 ppb	07:16:10
1	U 409.014†	-272.4	-88.7	-8.2488 µg/L	-8.2488 ppb	07:15:49
1	V 292.402†	-84.6	29.9	0.3599 µg/L	0.3599 ppb	07:15:49
1	Zn 213.857†	684.7	58.7	1.6412 µg/L	1.6412 ppb	07:16:10
2	Sc RADIAL	77168.5	77168.5	98.3 %		07:14:47
2	Al 396.153Radial†	-28.6	0.5	0.2973 µg/L	0.2973 ppb	07:14:47
2	Ca 317.933Radial†	289.7	47.5	34.191 µg/L	34.191 ppb	07:15:08
2	Fe 238.204 Radial†	17.8	1.8	23.388 µg/L	23.388 ppb	07:15:08
2	K 766.490 Radial†	458.4	67.5	42.610 µg/L	42.610 ppb	07:14:47
2	Mg 279.077 IEC†	14.2	6.3	64.724 µg/L	64.724 ppb	07:15:08
2	Na 589.592 Radial†	559.3	15.1	4.0323 µg/L	4.0323 ppb	07:14:47
2	Sr 421.552†	711.9	89.9	0.5379 µg/L	0.5379 ppb	07:14:47
2	Sc 361.383	1947345.7	1947345.7	98.527 %		07:16:16
2	Y 371.029	1230773.7	1230773.7	98.532 %		07:16:16
2	Ag 328.068†	-41.9	50.1	0.4576 µg/L	0.4576 ppb	07:16:21
2	As 188.979†	-0.4	2.3	4.9615 µg/L	4.9615 ppb	07:16:42
2	B 249.677†	298.9	-66.6	-3.1646 µg/L	-3.1646 ppb	07:16:21
2	Ba 233.527†	-15.4	8.4	0.2351 µg/L	0.2351 ppb	07:16:42
2	Be 313.107†	4388.6	620.5	0.4173 µg/L	0.4173 ppb	07:16:21
2	Cd 226.502†	-112.0	11.6	0.3264 µg/L	0.3264 ppb	07:16:42
2	Co 228.616†	-31.8	17.0	0.9053 µg/L	0.9053 ppb	07:16:42
2	Cr 267.716†	-50.8	50.6	1.1347 µg/L	1.1347 ppb	07:16:21
2	Cu 324.752†	4233.6	396.9	2.9137 µg/L	2.9137 ppb	07:16:21
2	Mn 257.610†	-110.2	36.0	0.1283 µg/L	0.1283 ppb	07:16:42
2	Mo 202.031†	13.3	0.9	0.1092 µg/L	0.1092 ppb	07:16:42
2	Ni 231.604†	326.0	-0.6	-0.0360 µg/L	-0.0360 ppb	07:16:42
2	P 214.914†	212.5	-4.2	-9.9216 µg/L	-9.9216 ppb	07:16:42
2	Pb 220.353†	69.3	9.2	2.5598 µg/L	2.5598 ppb	07:16:42

2	S 181.975 Axial†	20.1	-2.7	-15.188 µg/L	-15.188 ppb	07:16:42
2	Sb 206.836†	23.4	-0.3	-0.2893 µg/L	-0.2893 ppb	07:16:42
2	Se 196.026†	11.3	3.5	5.3460 µg/L	5.3460 ppb	07:16:42
2	SiO2†	2391.9	38.3	7.8129 µg/L	7.8129 ppb	07:16:21
2	Si 251.611†	272.2	-6.2	-0.4987 µg/L	-0.4987 ppb	07:16:42
2	Sn 189.927†	26.6	3.5	1.9953 µg/L	1.9953 ppb	07:16:42
2	Ti 334.940†	901.5	211.2	0.5059 µg/L	0.5059 ppb	07:16:21
2	Tl 190.801†	-24.4	-0.2	-0.3991 µg/L	-0.3991 ppb	07:16:42
2	U 409.014†	-147.3	36.7	3.4091 µg/L	3.4091 ppb	07:16:21
2	V 292.402†	-60.5	53.9	0.6565 µg/L	0.6565 ppb	07:16:21
2	Zn 213.857†	678.2	56.1	1.5681 µg/L	1.5681 ppb	07:16:42
3	Sc RADIAL	77693.7	77693.7	99.0 %		07:15:13
3	Al 396.153Radial†	-23.7	5.6	3.6168 µg/L	3.6168 ppb	07:15:13
3	Ca 317.933Radial†	291.5	47.2	34.025 µg/L	34.025 ppb	07:15:33
3	Fe 238.204 Radial†	18.4	2.3	29.879 µg/L	29.879 ppb	07:15:33
3	K 766.490 Radial†	409.0	14.4	9.1115 µg/L	9.1115 ppb	07:15:13
3	Mg 279.077 IEC†	11.2	3.2	32.651 µg/L	32.651 ppb	07:15:33
3	Na 589.592 Radial†	570.2	22.3	5.9393 µg/L	5.9393 ppb	07:15:13
3	Sr 421.552†	639.6	12.1	0.0722 µg/L	0.0722 ppb	07:15:13
3	Sc 361.383	1947377.5	1947377.5	98.529 %		07:16:48
3	Y 371.029	1230920.2	1230920.2	98.544 %		07:16:48
3	Ag 328.068†	-47.8	44.1	0.4036 µg/L	0.4036 ppb	07:16:54
3	As 188.979†	-4.6	-2.0	-4.2753 µg/L	-4.2753 ppb	07:17:14
3	B 249.677†	311.4	-53.9	-2.5661 µg/L	-2.5661 ppb	07:16:54
3	Ba 233.527†	-27.2	-3.7	-0.1014 µg/L	-0.1014 ppb	07:17:14
3	Be 313.107†	4001.5	227.5	0.1529 µg/L	0.1529 ppb	07:16:54
3	Cd 226.502†	-123.2	0.2	0.0034 µg/L	0.0034 ppb	07:17:14
3	Co 228.616†	-44.7	4.0	0.2115 µg/L	0.2115 ppb	07:17:14
3	Cr 267.716†	-56.8	44.5	0.9965 µg/L	0.9965 ppb	07:16:54
3	Cu 324.752†	4265.7	429.5	3.1532 µg/L	3.1532 ppb	07:16:54
3	Mn 257.610†	-99.0	47.4	0.1706 µg/L	0.1706 ppb	07:17:14
3	Mo 202.031†	15.6	3.2	0.3922 µg/L	0.3922 ppb	07:17:14
3	Ni 231.604†	335.8	9.4	0.5670 µg/L	0.5670 ppb	07:17:14
3	P 214.914†	224.0	7.5	16.998 µg/L	16.998 ppb	07:17:14
3	Pb 220.353†	64.2	4.0	1.0976 µg/L	1.0976 ppb	07:17:14
3	S 181.975 Axial†	26.2	3.5	19.478 µg/L	19.478 ppb	07:17:14
3	Sb 206.836†	28.4	4.8	5.0405 µg/L	5.0405 ppb	07:17:14
3	Se 196.026†	11.5	3.8	5.7553 µg/L	5.7553 ppb	07:17:14
3	SiO2†	2384.6	30.8	6.2987 µg/L	6.2987 ppb	07:16:54
3	Si 251.611†	306.0	28.1	2.2798 µg/L	2.2798 ppb	07:17:14
3	Sn 189.927†	24.7	1.6	0.9115 µg/L	0.9115 ppb	07:17:14
3	Ti 334.940†	812.8	121.0	0.2906 µg/L	0.2906 ppb	07:16:54
3	Tl 190.801†	-21.0	3.2	5.2723 µg/L	5.2723 ppb	07:17:14
3	U 409.014†	-112.3	72.3	6.7129 µg/L	6.7129 ppb	07:16:54
3	V 292.402†	-63.3	51.1	0.6285 µg/L	0.6285 ppb	07:16:54
3	Zn 213.857†	673.6	51.4	1.4350 µg/L	1.4350 ppb	07:17:14

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1951097.1	98.717 %	0.3274			0.33%
Sc RADIAL	77490.9	98.7 %	0.36			0.36%
Y 371.029	1233287.3	98.733 %	0.3384			0.34%
Ag 328.068†	62.4	0.5684 µg/L	0.24020	0.5684 ppb	0.24020	42.26%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.0	6.4792 µg/L	8.00645	6.4792 ppb	8.00645	123.57%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.0	0.0163 µg/L	4.65296	0.0163 ppb	4.65296	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-38.8	-1.8502 µg/L	1.78360	-1.8502 ppb	1.78360	96.40%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.0	0.1414 µg/L	0.21205	0.1414 ppb	0.21205	150.00%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	496.8	0.3341 µg/L	0.15707	0.3341 ppb	0.15707	47.01%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	50.3	36.211 µg/L	3.6439	36.211 ppb	3.6439	10.06%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	11.1	0.3130 µg/L	0.30321	0.3130 ppb	0.30321	96.86%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.5	0.4506 µg/L	0.39392	0.4506 ppb	0.39392	87.42%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	45.6 1.0224 µg/L	0.10189 1.0224 ppb	0.10189 9.97%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	423.3 3.1076 µg/L	0.17561 3.1076 ppb	0.17561 5.65%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	1.9 25.360 µg/L	3.9245 25.360 ppb	3.9245 15.48%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	30.1 19.003 µg/L	20.5338 19.003 ppb	20.5338 108.06%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	3.0 31.140 µg/L	34.3644 31.140 ppb	34.3644 110.35%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	67.4 0.2409 µg/L	0.15986 0.2409 ppb	0.15986 66.36%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	3.2 0.3878 µg/L	0.27650 0.3878 ppb	0.27650 71.29%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	22.6 6.0173 µg/L	2.02517 6.0173 ppb	2.02517 33.66%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	6.3 0.3808 µg/L	0.36166 0.3808 ppb	0.36166 94.97%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	0.9 1.7591 µg/L	13.80819 1.7591 ppb	13.80819 784.94%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	9.7 2.7275 µg/L	1.71980 2.7275 ppb	1.71980 63.06%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	0.7 3.6792 µg/L	17.53577 3.6792 ppb	17.53577 476.62%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	1.8 1.8947 µg/L	2.79205 1.8947 ppb	2.79205 147.36%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	1.8 2.8687 µg/L	4.64968 2.8687 ppb	4.64968 162.08%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	34.7 7.0934 µg/L	0.75993 7.0934 ppb	0.75993 10.71%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	14.9 1.2030 µg/L	1.49094 1.2030 ppb	1.49094 123.94%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	2.3 1.3369 µg/L	0.57827 1.3369 ppb	0.57827 43.25%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	47.5 0.2843 µg/L	0.23559 0.2843 ppb	0.23559 82.86%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	162.7 0.3915 µg/L	0.10826 0.3915 ppb	0.10826 27.65%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	3.2 5.3118 µg/L	5.73072 5.3118 ppb	5.73072 107.89%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	6.8 0.6244 µg/L	7.85994 0.6244 ppb	7.85994 >999.9%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	45.0 0.5483 µg/L	0.16377 0.5483 ppb	0.16377 29.87%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	55.4 1.5481 µg/L	0.10451 1.5481 ppb	0.10451 6.75%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 3
 Sample ID: LR2
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 113
 Date Collected: 1/29/2010 07:17:24
 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	76586.7	76586.7	97.6 %		07:17:58
1	Al 396.153Radial†	-24.0	4.9	3.1787 µg/L	3.1787 ppb	07:17:58
1	Ca 317.933Radial†	298.4	58.6	42.250 µg/L	42.250 ppb	07:18:19
1	Fe 238.204 Radial†	15.1	-0.9	-11.972 µg/L	-11.972 ppb	07:18:19
1	K 766.490 Radial†	347.9	-42.2	-26.642 µg/L	-26.642 ppb	07:17:58
1	Mg 279.077 IEC†	12.8	5.0	51.394 µg/L	51.394 ppb	07:18:19
1	Na 589.592 Radial†	555.4	15.4	4.1060 µg/L	4.1060 ppb	07:17:58
1	Sr 421.552†	646.0	28.0	0.1672 µg/L	0.1672 ppb	07:17:58
1	Sc 361.383	1974406.3	1974406.3	99.896 %		07:19:21
1	Y 371.029	1249400.5	1249400.5	100.02 %		07:19:21
1	Ag 328.068†	-84.8	7.7	0.0680 µg/L	0.0680 ppb	07:19:27
1	As 188.979†	-2.4	0.3	0.7297 µg/L	0.7297 ppb	07:19:47
1	B 249.677†	301.6	-68.0	-3.2156 µg/L	-3.2156 ppb	07:19:47
1	Ba 233.527†	384904.1	385327.4	10763 µg/L	10763 ppb	07:19:21
1	Be 313.107†	3878.6	48.9	0.0328 µg/L	0.0328 ppb	07:19:27
1	Cd 226.502†	-121.2	4.0	0.1173 µg/L	0.1173 ppb	07:19:47
1	Co 228.616†	-338.9	-290.0	-15.426 µg/L	-15.426 ppb	07:19:47
1	Cr 267.716†	-69.0	33.1	0.7414 µg/L	0.7414 ppb	07:19:27
1	Cu 324.752†	4224.0	328.4	2.4063 µg/L	2.4063 ppb	07:19:27
1	Mn 257.610†	-81.1	66.7	0.2328 µg/L	0.2328 ppb	07:19:47
1	Mo 202.031†	14.6	2.0	0.2455 µg/L	0.2455 ppb	07:19:47
1	Ni 231.604†	383.4	52.4	3.1917 µg/L	3.1917 ppb	07:19:47
1	P 214.914†	218.1	-1.6	-3.8098 µg/L	-3.8098 ppb	07:19:47
1	Pb 220.353†	62.2	1.1	0.3205 µg/L	0.3205 ppb	07:19:47
1	S 181.975 Axial†	28.0	4.9	27.502 µg/L	27.502 ppb	07:19:47
1	Sb 206.836†	24.0	0.0	0.0372 µg/L	0.0372 ppb	07:19:47
1	Se 196.026†	10.4	2.5	3.7228 µg/L	3.7228 ppb	07:19:47
1	SiO2†	2380.6	-6.4	-1.2979 µg/L	-1.2979 ppb	07:19:27
1	Si 251.611†	286.4	4.2	0.3434 µg/L	0.3434 ppb	07:19:47
1	Sn 189.927†	25.0	1.6	0.8978 µg/L	0.8978 ppb	07:19:47
1	Ti 334.940†	733.4	30.3	0.0698 µg/L	0.0698 ppb	07:19:27
1	Tl 190.801†	-19.0	5.5	9.2328 µg/L	9.2328 ppb	07:19:47
1	U 409.014†	-193.0	-7.0	-0.6536 µg/L	-0.6536 ppb	07:19:27
1	V 292.402†	-121.4	-6.2	-0.0725 µg/L	-0.0725 ppb	07:19:27
1	Zn 213.857†	685.8	54.2	1.5041 µg/L	1.5041 ppb	07:19:47
2	Sc RADIAL	76788.0	76788.0	97.8 %		07:18:24
2	Al 396.153Radial†	-51.6	-23.2	-15.038 µg/L	-15.038 ppb	07:18:24
2	Ca 317.933Radial†	308.7	68.3	49.204 µg/L	49.204 ppb	07:18:45
2	Fe 238.204 Radial†	17.8	1.9	24.235 µg/L	24.235 ppb	07:18:45
2	K 766.490 Radial†	410.9	21.3	13.439 µg/L	13.439 ppb	07:18:24
2	Mg 279.077 IEC†	6.0	-2.1	-21.272 µg/L	-21.272 ppb	07:18:45
2	Na 589.592 Radial†	532.8	-9.2	-2.4403 µg/L	-2.4403 ppb	07:18:24
2	Sr 421.552†	631.9	11.8	0.0708 µg/L	0.0708 ppb	07:18:24
2	Sc 361.383	1954278.5	1954278.5	98.878 %		07:19:53
2	Y 371.029	1236366.9	1236366.9	98.980 %		07:19:53
2	Ag 328.068†	-40.7	51.4	0.4653 µg/L	0.4653 ppb	07:19:59
2	As 188.979†	3.6	6.4	13.906 µg/L	13.906 ppb	07:20:19
2	B 249.677†	287.1	-79.6	-3.7805 µg/L	-3.7805 ppb	07:20:19
2	Ba 233.527†	382916.7	387285.9	10818 µg/L	10818 ppb	07:19:53
2	Be 313.107†	3954.6	165.7	0.1114 µg/L	0.1114 ppb	07:19:59
2	Cd 226.502†	-121.7	2.2	0.0627 µg/L	0.0627 ppb	07:20:19
2	Co 228.616†	-335.4	-289.9	-15.419 µg/L	-15.419 ppb	07:20:19
2	Cr 267.716†	-24.5	77.3	1.7325 µg/L	1.7325 ppb	07:19:59
2	Cu 324.752†	4200.1	347.8	2.5536 µg/L	2.5536 ppb	07:19:59
2	Mn 257.610†	-81.8	65.2	0.2351 µg/L	0.2351 ppb	07:20:19
2	Mo 202.031†	15.3	2.9	0.3509 µg/L	0.3509 ppb	07:20:19
2	Ni 231.604†	372.6	45.4	2.7656 µg/L	2.7656 ppb	07:20:19
2	P 214.914†	211.8	-5.6	-13.159 µg/L	-13.159 ppb	07:20:19
2	Pb 220.353†	75.9	15.6	4.3750 µg/L	4.3750 ppb	07:20:19

2	S 181.975 Axial†	21.5	-1.4	-7.7451 µg/L	-7.7451 ppb	07:20:19
2	Sb 206.836†	26.0	2.3	2.4295 µg/L	2.4295 ppb	07:20:19
2	Se 196.026†	13.1	5.3	8.1228 µg/L	8.1228 ppb	07:20:19
2	SiO2†	2336.0	-26.9	-5.4894 µg/L	-5.4894 ppb	07:19:59
2	Si 251.611†	303.4	24.5	1.9810 µg/L	1.9810 ppb	07:20:19
2	Sn 189.927†	23.6	0.4	0.2459 µg/L	0.2459 ppb	07:20:19
2	Ti 334.940†	786.4	91.4	0.2235 µg/L	0.2235 ppb	07:19:59
2	Tl 190.801†	-21.8	2.5	4.1803 µg/L	4.1803 ppb	07:20:19
2	U 409.014†	-175.2	9.1	0.8355 µg/L	0.8355 ppb	07:19:59
2	V 292.402†	-118.9	-5.0	-0.0510 µg/L	-0.0510 ppb	07:19:59
2	Zn 213.857†	682.8	58.3	1.6212 µg/L	1.6212 ppb	07:20:19
3	Sc RADIAL	76868.6	76868.6	97.9 %		07:18:50
3	Al 396.153Radial†	-42.3	-13.7	-8.8774 µg/L	-8.8774 ppb	07:18:50
3	Ca 317.933Radial†	296.7	55.8	40.189 µg/L	40.189 ppb	07:19:11
3	Fe 238.204 Radial†	17.0	1.0	13.334 µg/L	13.334 ppb	07:19:11
3	K 766.490 Radial†	438.0	48.4	30.565 µg/L	30.565 ppb	07:18:50
3	Mg 279.077 IEC†	8.7	0.8	7.9249 µg/L	7.9249 ppb	07:19:11
3	Na 589.592 Radial†	598.0	56.8	15.132 µg/L	15.132 ppb	07:18:50
3	Sr 421.552†	650.9	30.5	0.1823 µg/L	0.1823 ppb	07:18:50
3	Sc 361.383	1961642.1	1961642.1	99.251 %		07:20:26
3	Y 371.029	1241196.8	1241196.8	99.366 %		07:20:26
3	Ag 328.068†	-59.6	32.6	0.2949 µg/L	0.2949 ppb	07:20:31
3	As 188.979†	-0.6	2.1	4.6822 µg/L	4.6822 ppb	07:20:52
3	B 249.677†	292.0	-75.7	-3.5904 µg/L	-3.5904 ppb	07:20:52
3	Ba 233.527†	370301.5	373121.6	10422 µg/L	10422 ppb	07:20:26
3	Be 313.107†	3909.0	104.8	0.0704 µg/L	0.0704 ppb	07:20:31
3	Cd 226.502†	-118.4	6.0	0.1709 µg/L	0.1709 ppb	07:20:52
3	Co 228.616†	-296.7	-249.6	-13.277 µg/L	-13.277 ppb	07:20:52
3	Cr 267.716†	-35.1	66.8	1.4973 µg/L	1.4973 ppb	07:20:31
3	Cu 324.752†	4182.3	313.9	2.3039 µg/L	2.3039 ppb	07:20:31
3	Mn 257.610†	-102.7	44.4	0.1587 µg/L	0.1587 ppb	07:20:52
3	Mo 202.031†	15.3	2.9	0.3465 µg/L	0.3465 ppb	07:20:52
3	Ni 231.604†	364.0	35.3	2.1561 µg/L	2.1561 ppb	07:20:52
3	P 214.914†	223.3	5.2	11.676 µg/L	11.676 ppb	07:20:52
3	Pb 220.353†	74.4	13.8	3.8583 µg/L	3.8583 ppb	07:20:52
3	S 181.975 Axial†	23.1	0.2	1.0242 µg/L	1.0242 ppb	07:20:52
3	Sb 206.836†	19.7	-4.2	-4.4214 µg/L	-4.4214 ppb	07:20:52
3	Se 196.026†	1.9	-6.0	-9.0150 µg/L	-9.0150 ppb	07:20:52
3	SiO2†	2363.9	-7.7	-1.5703 µg/L	-1.5703 ppb	07:20:31
3	Si 251.611†	285.1	4.8	0.3888 µg/L	0.3888 ppb	07:20:52
3	Sn 189.927†	20.0	-3.3	-1.8335 µg/L	-1.8335 ppb	07:20:52
3	Ti 334.940†	762.6	64.5	0.1558 µg/L	0.1558 ppb	07:20:31
3	Tl 190.801†	-19.1	5.3	8.8888 µg/L	8.8888 ppb	07:20:52
3	U 409.014†	-206.7	-22.1	-2.0552 µg/L	-2.0552 ppb	07:20:31
3	V 292.402†	-114.9	-0.4	-0.0004 µg/L	-0.0004 ppb	07:20:31
3	Zn 213.857†	680.4	53.3	1.4847 µg/L	1.4847 ppb	07:20:52

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1963442.3	99.342 %		0.5153			0.52%
Sc RADIAL	76747.8	97.8 %		0.19			0.19%
Y 371.029	1242321.4	99.457 %		0.5275			0.53%
Ag 328.068†	30.6	0.2761 µg/L		0.19935	0.2761 ppb	0.19935	72.22%
Al 396.153Radial†	-10.7	-6.9123 µg/L		9.26598	-6.9123 ppb	9.26598	134.05%
As 188.979†	3.0	6.4393 µg/L		6.76149	6.4393 ppb	6.76149	105.00%
B 249.677†	-74.4	-3.5288 µg/L		0.28742	-3.5288 ppb	0.28742	8.14%
Ba 233.527†	381911.7	10668 µg/L		214.4	10668 ppb	214.4	2.01%
Be 313.107†	106.4	0.0715 µg/L		0.03928	0.0715 ppb	0.03928	54.90%
Ca 317.933Radial†	60.9	43.881 µg/L		4.7238	43.881 ppb	4.7238	10.77%
Cd 226.502†	4.1	0.1170 µg/L		0.05411	0.1170 ppb	0.05411	46.26%
Co 228.616†	-276.5	-14.707 µg/L		1.2389	-14.707 ppb	1.2389	8.42%
Cr 267.716†	59.1	1.3238 µg/L		0.51784	1.3238 ppb	0.51784	39.12%
Cu 324.752†	330.0	2.4213 µg/L		0.12552	2.4213 ppb	0.12552	5.18%
Fe 238.204 Radial†	0.7	8.5322 µg/L		18.57449	8.5322 ppb	18.57449	217.70%
K 766.490 Radial†	9.2	5.7876 µg/L		29.36127	5.7876 ppb	29.36127	507.31%
Mg 279.077 IEC†	1.2	12.682 µg/L		36.5656	12.682 ppb	36.5656	288.32%
Mn 257.610†	58.7	0.2089 µg/L		0.04344	0.2089 ppb	0.04344	20.80%
Mo 202.031†	2.6	0.3143 µg/L		0.05963	0.3143 ppb	0.05963	18.97%
Na 589.592 Radial†	21.0	5.5992 µg/L		8.88079	5.5992 ppb	8.88079	158.61%

Ni 231.604†	44.4	2.7044 µg/L	0.52048	2.7044 ppb	0.52048	19.25%
P 214.914†	-0.6	-1.7644 µg/L	12.54335	-1.7644 ppb	12.54335	710.90%
Pb 220.353†	10.2	2.8513 µg/L	2.20688	2.8513 ppb	2.20688	77.40%
S 181.975 Axial†	1.2	6.9269 µg/L	18.34980	6.9269 ppb	18.34980	264.91%
Sb 206.836†	-0.6	-0.6516 µg/L	3.47701	-0.6516 ppb	3.47701	533.64%
Se 196.026†	0.6	0.9435 µg/L	8.90055	0.9435 ppb	8.90055	943.32%
SiO2†	-13.6	-2.7859 µg/L	2.34528	-2.7859 ppb	2.34528	84.19%
Si 251.611†	11.2	0.9044 µg/L	0.93263	0.9044 ppb	0.93263	103.12%
Sn 189.927†	-0.4	-0.2299 µg/L	1.42649	-0.2299 ppb	1.42649	620.42%
Sr 421.552†	23.4	0.1401 µg/L	0.06050	0.1401 ppb	0.06050	43.19%
Ti 334.940†	62.1	0.1497 µg/L	0.07705	0.1497 ppb	0.07705	51.47%
Tl 190.801†	4.4	7.4340 µg/L	2.82300	7.4340 ppb	2.82300	37.97%
U 409.014†	-6.7	-0.6245 µg/L	1.44555	-0.6245 ppb	1.44555	231.49%
V 292.402†	-3.9	-0.0413 µg/L	0.03700	-0.0413 ppb	0.03700	89.58%
Zn 213.857†	55.3	1.5367 µg/L	0.07387	1.5367 ppb	0.07387	4.81%

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

Autosampler Location: 7
 Date Collected: 1/29/2010 07:21:01
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	78654.9	78654.9	100 %		07:21:37
1	Al 396.153Radial†	7834.4	7846.5	5070.8 µg/L	5070.8 ppb	07:21:37
1	Ca 317.933Radial†	7250.7	6987.5	5034.8 µg/L	5034.8 ppb	07:21:37
1	Fe 238.204 Radial†	400.6	383.4	5088.3 µg/L	5088.3 ppb	07:21:57
1	K 766.490 Radial†	8625.8	8208.0	5178.4 µg/L	5178.4 ppb	07:21:37
1	Mg 279.077 IEC†	521.5	512.2	5260.6 µg/L	5260.6 ppb	07:21:57
1	Na 589.592 Radial†	38537.1	37898.0	10090 µg/L	10090 ppb	07:21:37
1	Sr 421.552†	87537.0	86708.9	518.69 µg/L	518.69 ppb	07:21:37
1	Sc 361.383	1972402.7	1972402.7	99.795 %		07:23:01
1	Y 371.029	1242162.1	1242162.1	99.444 %		07:23:01
1	Ag 328.068†	59349.0	59563.5	541.53 µg/L	541.53 ppb	07:23:06
1	As 188.979†	251.8	255.1	554.94 µg/L	554.94 ppb	07:23:27
1	B 249.677†	11469.7	11123.3	525.10 µg/L	525.10 ppb	07:23:06
1	Ba 233.527†	19192.9	19256.3	538.86 µg/L	538.86 ppb	07:23:06
1	Be 313.107†	790323.0	788112.9	530.06 µg/L	530.06 ppb	07:23:01
1	Cd 226.502†	18826.1	18990.1	538.02 µg/L	538.02 ppb	07:23:06
1	Co 228.616†	10094.0	10164.0	540.07 µg/L	540.07 ppb	07:23:06
1	Cr 267.716†	24130.0	24281.7	544.41 µg/L	544.41 ppb	07:23:06
1	Cu 324.752†	77697.0	73956.7	542.98 µg/L	542.98 ppb	07:23:06
1	Mn 257.610†	149691.4	150146.8	532.67 µg/L	532.67 ppb	07:23:01
1	Mo 202.031†	4465.9	4462.5	540.80 µg/L	540.80 ppb	07:23:27
1	Ni 231.604†	9268.2	8955.8	541.68 µg/L	541.68 ppb	07:23:06
1	P 214.914†	1420.7	1203.8	2722.4 µg/L	2722.4 ppb	07:23:27
1	Pb 220.353†	2018.8	1961.8	550.51 µg/L	550.51 ppb	07:23:27
1	S 181.975 Axial†	218.3	195.6	1087.6 µg/L	1087.6 ppb	07:23:27
1	Sb 206.836†	542.0	519.1	551.26 µg/L	551.26 ppb	07:23:27
1	Se 196.026†	367.2	360.0	560.27 µg/L	560.27 ppb	07:23:27
1	SiO2†	30999.4	28673.7	5854.5 µg/L	5854.5 ppb	07:23:06
1	Si 251.611†	34056.9	33844.4	2741.6 µg/L	2741.6 ppb	07:23:06
1	Sn 189.927†	1009.6	988.2	559.62 µg/L	559.62 ppb	07:23:27
1	Ti 334.940†	221523.2	221274.4	534.56 µg/L	534.56 ppb	07:23:01
1	Tl 190.801†	303.0	328.2	551.21 µg/L	551.21 ppb	07:23:27
1	U 409.014†	5678.2	5876.1	545.15 µg/L	545.15 ppb	07:23:06
1	V 292.402†	44792.2	44999.6	547.72 µg/L	547.72 ppb	07:23:06
1	Zn 213.857†	19884.7	19293.3	538.53 µg/L	538.53 ppb	07:23:06
2	Sc RADIAL	78176.1	78176.1	99.6 %		07:22:03
2	Al 396.153Radial†	7807.4	7867.3	5084.3 µg/L	5084.3 ppb	07:22:03
2	Ca 317.933Radial†	7239.3	7020.3	5058.4 µg/L	5058.4 ppb	07:22:03
2	Fe 238.204 Radial†	401.5	386.8	5132.9 µg/L	5132.9 ppb	07:22:23
2	K 766.490 Radial†	8633.6	8268.5	5216.7 µg/L	5216.7 ppb	07:22:03
2	Mg 279.077 IEC†	515.0	508.9	5225.9 µg/L	5225.9 ppb	07:22:23
2	Na 589.592 Radial†	38603.4	38200.0	10170 µg/L	10170 ppb	07:22:03
2	Sr 421.552†	87529.6	87236.3	521.84 µg/L	521.84 ppb	07:22:03
2	Sc 361.383	1965086.5	1965086.5	99.425 %		07:23:34
2	Y 371.029	1238017.2	1238017.2	99.112 %		07:23:34
2	Ag 328.068†	59237.6	59672.9	542.53 µg/L	542.53 ppb	07:23:39
2	As 188.979†	252.1	256.3	557.53 µg/L	557.53 ppb	07:24:00
2	B 249.677†	11442.9	11139.1	525.83 µg/L	525.83 ppb	07:23:39
2	Ba 233.527†	19190.0	19325.0	540.78 µg/L	540.78 ppb	07:23:39
2	Be 313.107†	796804.8	797580.6	536.43 µg/L	536.43 ppb	07:23:34
2	Cd 226.502†	18775.0	19008.9	538.55 µg/L	538.55 ppb	07:23:39
2	Co 228.616†	10089.6	10197.3	541.83 µg/L	541.83 ppb	07:23:39
2	Cr 267.716†	24133.8	24375.5	546.52 µg/L	546.52 ppb	07:23:39
2	Cu 324.752†	77694.0	74243.5	545.09 µg/L	545.09 ppb	07:23:39
2	Mn 257.610†	150709.9	151729.7	538.28 µg/L	538.28 ppb	07:23:34
2	Mo 202.031†	4463.1	4476.4	542.49 µg/L	542.49 ppb	07:24:00
2	Ni 231.604†	9265.7	8987.9	543.62 µg/L	543.62 ppb	07:23:39
2	P 214.914†	1408.4	1196.7	2706.0 µg/L	2706.0 ppb	07:24:00
2	Pb 220.353†	2018.6	1969.1	552.55 µg/L	552.55 ppb	07:24:00

2	S 181.975 Axial†	222.4	200.6	1115.2 µg/L	1115.2 ppb	07:24:00
2	Sb 206.836†	537.4	516.5	548.56 µg/L	548.56 ppb	07:24:00
2	Se 196.026†	375.3	369.5	574.73 µg/L	574.73 ppb	07:24:00
2	SiO2†	30968.8	28758.6	5871.8 µg/L	5871.8 ppb	07:23:39
2	Si 251.611†	33986.7	33900.9	2746.1 µg/L	2746.1 ppb	07:23:39
2	Sn 189.927†	1014.8	997.2	564.70 µg/L	564.70 ppb	07:24:00
2	Ti 334.940†	223312.8	223900.8	540.91 µg/L	540.91 ppb	07:23:34
2	Tl 190.801†	298.9	325.2	546.25 µg/L	546.25 ppb	07:24:00
2	U 409.014†	5629.7	5848.5	542.58 µg/L	542.58 ppb	07:23:39
2	V 292.402†	44797.1	45171.6	549.80 µg/L	549.80 ppb	07:23:39
2	Zn 213.857†	19861.1	19343.7	539.93 µg/L	539.93 ppb	07:23:39
3	Sc RADIAL	78796.8	78796.8	100 %		07:22:29
3	Al 396.153Radial†	7897.2	7895.0	5103.9 µg/L	5103.9 ppb	07:22:29
3	Ca 317.933Radial†	7286.0	7009.6	5050.7 µg/L	5050.7 ppb	07:22:29
3	Fe 238.204 Radial†	399.9	382.0	5068.7 µg/L	5068.7 ppb	07:22:49
3	K 766.490 Radial†	8684.1	8250.6	5205.3 µg/L	5205.3 ppb	07:22:29
3	Mg 279.077 IEC†	512.5	502.3	5157.5 µg/L	5157.5 ppb	07:22:49
3	Na 589.592 Radial†	38810.7	38101.2	10144 µg/L	10144 ppb	07:22:29
3	Sr 421.552†	88075.1	87087.4	520.95 µg/L	520.95 ppb	07:22:29
3	Sc 361.383	1967406.9	1967406.9	99.542 %		07:24:07
3	Y 371.029	1239052.8	1239052.8	99.195 %		07:24:07
3	Ag 328.068†	56728.6	57082.1	518.82 µg/L	518.82 ppb	07:24:13
3	As 188.979†	214.2	217.9	474.11 µg/L	474.11 ppb	07:24:33
3	B 249.677†	10851.9	10531.8	497.00 µg/L	497.00 ppb	07:24:13
3	Ba 233.527†	17837.9	17943.9	502.12 µg/L	502.12 ppb	07:24:13
3	Be 313.107†	755448.3	755088.7	507.85 µg/L	507.85 ppb	07:24:07
3	Cd 226.502†	17393.4	17598.7	498.55 µg/L	498.55 ppb	07:24:13
3	Co 228.616†	9222.8	9314.5	494.85 µg/L	494.85 ppb	07:24:13
3	Cr 267.716†	21556.5	21757.8	487.83 µg/L	487.83 ppb	07:24:13
3	Cu 324.752†	71662.1	68091.7	499.98 µg/L	499.98 ppb	07:24:13
3	Mn 257.610†	143216.8	144023.3	510.96 µg/L	510.96 ppb	07:24:07
3	Mo 202.031†	3776.7	3781.5	458.31 µg/L	458.31 ppb	07:24:33
3	Ni 231.604†	8508.8	8216.5	496.97 µg/L	496.97 ppb	07:24:13
3	P 214.914†	1240.3	1026.2	2316.4 µg/L	2316.4 ppb	07:24:33
3	Pb 220.353†	1771.4	1718.4	482.12 µg/L	482.12 ppb	07:24:33
3	S 181.975 Axial†	198.2	175.9	978.20 µg/L	978.20 ppb	07:24:33
3	Sb 206.836†	470.7	448.8	476.22 µg/L	476.22 ppb	07:24:33
3	Se 196.026†	320.9	314.4	491.73 µg/L	491.73 ppb	07:24:33
3	SiO2†	29205.2	26950.1	5502.6 µg/L	5502.6 ppb	07:24:13
3	Si 251.611†	31919.4	31783.7	2574.6 µg/L	2574.6 ppb	07:24:13
3	Sn 189.927†	848.3	828.7	469.68 µg/L	469.68 ppb	07:24:33
3	Ti 334.940†	210692.7	210957.8	509.63 µg/L	509.63 ppb	07:24:07
3	Tl 190.801†	271.8	297.6	500.03 µg/L	500.03 ppb	07:24:33
3	U 409.014†	5088.1	5297.7	491.39 µg/L	491.39 ppb	07:24:13
3	V 292.402†	40808.7	41111.7	500.11 µg/L	500.11 ppb	07:24:13
3	Zn 213.857†	18211.0	17662.5	492.96 µg/L	492.96 ppb	07:24:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1968298.7	99.587 %	0.1892			0.19%
Sc RADIAL	78542.6	100 %	0.4			0.41%
Y 371.029	1239744.0	99.250 %	0.1727			0.17%
Ag 328.068†	58772.8	534.29 µg/L	13.409	534.29 ppb	13.409	2.51%
QC value within limits for Ag 328.068 Recovery = 106.86%						
Al 396.153Radial†	7869.6	5086.3 µg/L	16.65	5086.3 ppb	16.65	0.33%
QC value within limits for Al 396.153Radial Recovery = 101.73%						
As 188.979†	243.1	528.86 µg/L	47.435	528.86 ppb	47.435	8.97%
QC value within limits for As 188.979 Recovery = 105.77%						
B 249.677†	10931.4	515.97 µg/L	16.436	515.97 ppb	16.436	3.19%
QC value within limits for B 249.677 Recovery = 103.19%						
Ba 233.527†	18841.7	527.25 µg/L	21.790	527.25 ppb	21.790	4.13%
QC value within limits for Ba 233.527 Recovery = 105.45%						
Be 313.107†	780260.7	524.78 µg/L	15.003	524.78 ppb	15.003	2.86%
QC value within limits for Be 313.107 Recovery = 104.96%						
Ca 317.933Radial†	7005.8	5048.0 µg/L	12.06	5048.0 ppb	12.06	0.24%
QC value within limits for Ca 317.933Radial Recovery = 100.96%						
Cd 226.502†	18532.5	525.04 µg/L	22.940	525.04 ppb	22.940	4.37%
QC value within limits for Cd 226.502 Recovery = 105.01%						
Co 228.616†	9891.9	525.58 µg/L	26.627	525.58 ppb	26.627	5.07%

QC value within limits for Co 228.616 Recovery = 105.12%							
Cr 267.716†	23471.7	526.25 µg/L	33.292	526.25 ppb	33.292	6.33%	
QC value within limits for Cr 267.716 Recovery = 105.25%							
Cu 324.752†	72097.3	529.35 µg/L	25.461	529.35 ppb	25.461	4.81%	
QC value within limits for Cu 324.752 Recovery = 105.87%							
Fe 238.204 Radial†	384.0	5096.6 µg/L	32.88	5096.6 ppb	32.88	0.65%	
QC value within limits for Fe 238.204 Radial Recovery = 101.93%							
K 766.490 Radial†	8242.4	5200.1 µg/L	19.63	5200.1 ppb	19.63	0.38%	
QC value within limits for K 766.490 Radial Recovery = 104.00%							
Mg 279.077 IEC†	507.8	5214.7 µg/L	52.42	5214.7 ppb	52.42	1.01%	
QC value within limits for Mg 279.077 IEC Recovery = 104.29%							
Mn 257.610†	148633.3	527.30 µg/L	14.428	527.30 ppb	14.428	2.74%	
QC value within limits for Mn 257.610 Recovery = 105.46%							
Mo 202.031†	4240.1	513.87 µg/L	48.121	513.87 ppb	48.121	9.36%	
QC value within limits for Mo 202.031 Recovery = 102.77%							
Na 589.592 Radial†	38066.4	10135 µg/L	41.0	10135 ppb	41.0	0.40%	
QC value within limits for Na 589.592 Radial Recovery = 101.35%							
Ni 231.604†	8720.1	527.43 µg/L	26.391	527.43 ppb	26.391	5.00%	
QC value within limits for Ni 231.604 Recovery = 105.49%							
P 214.914†	1142.2	2581.6 µg/L	229.83	2581.6 ppb	229.83	8.90%	
QC value within limits for P 214.914 Recovery = 103.26%							
Pb 220.353†	1883.1	528.39 µg/L	40.088	528.39 ppb	40.088	7.59%	
QC value within limits for Pb 220.353 Recovery = 105.68%							
S 181.975 Axial†	190.7	1060.3 µg/L	72.43	1060.3 ppb	72.43	6.83%	
QC value within limits for S 181.975 Axial Recovery = 106.03%							
Sb 206.836†	494.8	525.35 µg/L	42.564	525.35 ppb	42.564	8.10%	
QC value within limits for Sb 206.836 Recovery = 105.07%							
Se 196.026†	348.0	542.25 µg/L	44.342	542.25 ppb	44.342	8.18%	
QC value within limits for Se 196.026 Recovery = 108.45%							
SiO2†	28127.5	5743.0 µg/L	208.36	5743.0 ppb	208.36	3.63%	
QC value within limits for SiO2 Recovery = 107.40%							
Si 251.611†	33176.3	2687.4 µg/L	97.72	2687.4 ppb	97.72	3.64%	
QC value within limits for Si 251.611 Recovery = 107.50%							
Sn 189.927†	938.1	531.34 µg/L	53.453	531.34 ppb	53.453	10.06%	
QC value within limits for Sn 189.927 Recovery = 106.27%							
Sr 421.552†	87010.9	520.49 µg/L	1.627	520.49 ppb	1.627	0.31%	
QC value within limits for Sr 421.552 Recovery = 104.10%							
Ti 334.940†	218711.0	528.36 µg/L	16.535	528.36 ppb	16.535	3.13%	
QC value within limits for Ti 334.940 Recovery = 105.67%							
Tl 190.801†	317.0	532.50 µg/L	28.227	532.50 ppb	28.227	5.30%	
QC value within limits for Tl 190.801 Recovery = 106.50%							
U 409.014†	5674.1	526.37 µg/L	30.321	526.37 ppb	30.321	5.76%	
QC value within limits for U 409.014 Recovery = 105.27%							
V 292.402†	43761.0	532.54 µg/L	28.106	532.54 ppb	28.106	5.28%	
QC value within limits for V 292.402 Recovery = 106.51%							
Zn 213.857†	18766.5	523.81 µg/L	26.723	523.81 ppb	26.723	5.10%	
QC value within limits for Zn 213.857 Recovery = 104.76%							

All analyte(s) passed QC.

Sequence No.: 5

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 07:24:43

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	78707.8	78707.8	100 %		07:25:16
1	Al 396.153Radial†	-33.9	-4.3	-2.8122 µg/L	-2.8122 ppb	07:25:16
1	Ca 317.933Radial†	300.7	52.7	37.968 µg/L	37.968 ppb	07:25:36
1	Fe 238.204 Radial†	19.0	2.6	34.117 µg/L	34.117 ppb	07:25:36
1	K 766.490 Radial†	380.5	-19.3	-12.179 µg/L	-12.179 ppb	07:25:16
1	Mg 279.077 IEC†	7.2	-1.0	-10.482 µg/L	-10.482 ppb	07:25:36
1	Na 589.592 Radial†	540.1	-15.1	-4.0262 µg/L	-4.0262 ppb	07:25:16
1	Sr 421.552†	665.8	29.8	0.1785 µg/L	0.1785 ppb	07:25:16
1	Sc 361.383	1993559.8	1993559.8	100.87 %		07:26:38
1	Y 371.029	1259885.1	1259885.1	100.86 %		07:26:38
1	Ag 328.068†	-32.5	60.4	0.5439 µg/L	0.5439 ppb	07:26:44
1	As 188.979†	-1.3	1.5	3.1619 µg/L	3.1619 ppb	07:27:04
1	B 249.677†	312.2	-60.4	-2.8782 µg/L	-2.8782 ppb	07:26:44
1	Ba 233.527†	-0.7	23.3	0.6487 µg/L	0.6487 ppb	07:27:04
1	Be 313.107†	3944.3	76.6	0.0516 µg/L	0.0516 ppb	07:26:44
1	Cd 226.502†	-123.9	2.4	0.0653 µg/L	0.0653 ppb	07:27:04
1	Co 228.616†	-44.1	5.6	0.2970 µg/L	0.2970 ppb	07:27:04
1	Cr 267.716†	-75.6	27.2	0.6084 µg/L	0.6084 ppb	07:26:44
1	Cu 324.752†	4160.0	224.3	1.6495 µg/L	1.6495 ppb	07:26:44
1	Mn 257.610†	-113.7	35.1	0.1293 µg/L	0.1293 ppb	07:27:04
1	Mo 202.031†	15.7	3.0	0.3599 µg/L	0.3599 ppb	07:27:04
1	Ni 231.604†	331.4	-2.9	-0.1753 µg/L	-0.1753 ppb	07:27:04
1	P 214.914†	226.2	4.4	9.9572 µg/L	9.9572 ppb	07:27:04
1	Pb 220.353†	74.7	12.9	3.6047 µg/L	3.6047 ppb	07:27:04
1	S 181.975 Axial†	25.9	2.5	14.056 µg/L	14.056 ppb	07:27:04
1	Sb 206.836†	22.6	-1.6	-1.6932 µg/L	-1.6932 ppb	07:27:04
1	Se 196.026†	13.5	5.4	8.2627 µg/L	8.2627 ppb	07:27:04
1	SiO2†	2363.9	-45.7	-9.3393 µg/L	-9.3393 ppb	07:26:44
1	Si 251.611†	300.8	15.8	1.2782 µg/L	1.2782 ppb	07:27:04
1	Sn 189.927†	23.8	0.1	0.0935 µg/L	0.0935 ppb	07:27:04
1	Ti 334.940†	701.2	-8.6	-0.0195 µg/L	-0.0195 ppb	07:26:44
1	Tl 190.801†	-27.1	-2.3	-3.8802 µg/L	-3.8802 ppb	07:27:04
1	U 409.014†	-192.4	-4.5	-0.4254 µg/L	-0.4254 ppb	07:26:44
1	V 292.402†	-157.3	-40.7	-0.4836 µg/L	-0.4836 ppb	07:26:44
1	Zn 213.857†	674.1	36.0	1.0098 µg/L	1.0098 ppb	07:27:04
2	Sc RADIAL	77968.2	77968.2	99.3 %		07:25:42
2	Al 396.153Radial†	-14.8	14.6	9.4323 µg/L	9.4323 ppb	07:25:42
2	Ca 317.933Radial†	298.5	53.3	38.393 µg/L	38.393 ppb	07:26:02
2	Fe 238.204 Radial†	17.5	1.2	16.303 µg/L	16.303 ppb	07:26:02
2	K 766.490 Radial†	385.8	-10.4	-6.5605 µg/L	-6.5605 ppb	07:25:42
2	Mg 279.077 IEC†	9.4	1.3	13.314 µg/L	13.314 ppb	07:26:02
2	Na 589.592 Radial†	550.2	0.2	0.0436 µg/L	0.0436 ppb	07:25:42
2	Sr 421.552†	645.7	15.9	0.0949 µg/L	0.0949 ppb	07:25:42
2	Sc 361.383	1984323.3	1984323.3	100.40 %		07:27:10
2	Y 371.029	1254156.6	1254156.6	100.40 %		07:27:10
2	Ag 328.068†	-91.7	1.2	0.0138 µg/L	0.0138 ppb	07:27:16
2	As 188.979†	-2.0	0.7	1.5896 µg/L	1.5896 ppb	07:27:36
2	B 249.677†	327.7	-43.5	-2.0701 µg/L	-2.0701 ppb	07:27:16
2	Ba 233.527†	8.2	32.2	0.8987 µg/L	0.8987 ppb	07:27:36
2	Be 313.107†	3933.9	84.5	0.0568 µg/L	0.0568 ppb	07:27:16
2	Cd 226.502†	-121.3	4.5	0.1251 µg/L	0.1251 ppb	07:27:36
2	Co 228.616†	-42.6	6.9	0.3661 µg/L	0.3661 ppb	07:27:36
2	Cr 267.716†	-73.6	28.8	0.6454 µg/L	0.6454 ppb	07:27:16
2	Cu 324.752†	4165.2	248.7	1.8257 µg/L	1.8257 ppb	07:27:16
2	Mn 257.610†	-112.9	35.4	0.1272 µg/L	0.1272 ppb	07:27:36
2	Mo 202.031†	13.3	0.7	0.0864 µg/L	0.0864 ppb	07:27:36
2	Ni 231.604†	332.6	-0.1	-0.0061 µg/L	-0.0061 ppb	07:27:36
2	P 214.914†	224.1	3.4	7.5764 µg/L	7.5764 ppb	07:27:36
2	Pb 220.353†	64.5	3.1	0.8559 µg/L	0.8559 ppb	07:27:36

2	S 181.975 Axial†	26.1	2.9	15.942 µg/L	15.942 ppb	07:27:36
2	Sb 206.836†	24.3	0.1	0.1462 µg/L	0.1462 ppb	07:27:36
2	Se 196.026†	7.8	-0.1	-0.1524 µg/L	-0.1524 ppb	07:27:36
2	SiO2†	2367.4	-31.4	-6.4014 µg/L	-6.4014 ppb	07:27:16
2	Si 251.611†	304.7	21.1	1.7092 µg/L	1.7092 ppb	07:27:36
2	Sn 189.927†	21.9	-1.6	-0.8944 µg/L	-0.8944 ppb	07:27:36
2	Ti 334.940†	813.4	106.3	0.2565 µg/L	0.2565 ppb	07:27:16
2	Tl 190.801†	-18.8	5.8	9.6376 µg/L	9.6376 ppb	07:27:36
2	U 409.014†	-106.4	80.2	7.4496 µg/L	7.4496 ppb	07:27:16
2	V 292.402†	-96.2	19.5	0.2450 µg/L	0.2450 ppb	07:27:16
2	Zn 213.857†	676.3	41.4	1.1595 µg/L	1.1595 ppb	07:27:36
3	Sc RADIAL	76993.6	76993.6	98.1 %		07:26:07
3	Al 396.153Radial†	-10.3	19.0	12.303 µg/L	12.303 ppb	07:26:07
3	Ca 317.933Radial†	293.4	51.9	37.393 µg/L	37.393 ppb	07:26:28
3	Fe 238.204 Radial†	17.3	1.3	17.492 µg/L	17.492 ppb	07:26:28
3	K 766.490 Radial†	466.1	76.4	48.198 µg/L	48.198 ppb	07:26:07
3	Mg 279.077 IEC†	10.8	2.8	29.071 µg/L	29.071 ppb	07:26:28
3	Na 589.592 Radial†	551.6	8.6	2.2850 µg/L	2.2850 ppb	07:26:07
3	Sr 421.552†	632.5	10.7	0.0640 µg/L	0.0640 ppb	07:26:07
3	Sc 361.383	1972184.2	1972184.2	99.784 %		07:27:43
3	Y 371.029	1246487.9	1246487.9	99.790 %		07:27:43
3	Ag 328.068†	-57.6	34.9	0.3175 µg/L	0.3175 ppb	07:27:48
3	As 188.979†	0.0	2.7	5.9595 µg/L	5.9595 ppb	07:28:09
3	B 249.677†	280.9	-88.4	-4.1962 µg/L	-4.1962 ppb	07:27:48
3	Ba 233.527†	1.2	25.2	0.7034 µg/L	0.7034 ppb	07:28:09
3	Be 313.107†	3982.5	157.4	0.1058 µg/L	0.1058 ppb	07:27:48
3	Cd 226.502†	-126.4	-1.4	-0.0421 µg/L	-0.0421 ppb	07:28:09
3	Co 228.616†	-46.7	2.5	0.1352 µg/L	0.1352 ppb	07:28:09
3	Cr 267.716†	-34.3	67.7	1.5179 µg/L	1.5179 ppb	07:27:48
3	Cu 324.752†	4151.3	260.4	1.9116 µg/L	1.9116 ppb	07:27:48
3	Mn 257.610†	-94.3	53.3	0.1901 µg/L	0.1901 ppb	07:28:09
3	Mo 202.031†	22.7	10.2	1.2333 µg/L	1.2333 ppb	07:28:09
3	Ni 231.604†	326.2	-4.5	-0.2701 µg/L	-0.2701 ppb	07:28:09
3	P 214.914†	217.7	-1.7	-4.1071 µg/L	-4.1071 ppb	07:28:09
3	Pb 220.353†	69.4	8.3	2.3391 µg/L	2.3391 ppb	07:28:09
3	S 181.975 Axial†	21.9	-1.2	-6.5578 µg/L	-6.5578 ppb	07:28:09
3	Sb 206.836†	28.9	4.9	5.2194 µg/L	5.2194 ppb	07:28:09
3	Se 196.026†	12.0	4.1	6.2467 µg/L	6.2467 ppb	07:28:09
3	SiO2†	2336.3	-48.1	-9.8119 µg/L	-9.8119 ppb	07:27:48
3	Si 251.611†	282.9	1.1	0.0914 µg/L	0.0914 ppb	07:28:09
3	Sn 189.927†	26.2	2.8	1.5693 µg/L	1.5693 ppb	07:28:09
3	Ti 334.940†	834.7	132.6	0.3188 µg/L	0.3188 ppb	07:27:48
3	Tl 190.801†	-17.5	7.0	11.616 µg/L	11.616 ppb	07:28:09
3	U 409.014†	-152.2	33.7	3.1235 µg/L	3.1235 ppb	07:27:48
3	V 292.402†	-96.0	19.1	0.2476 µg/L	0.2476 ppb	07:27:48
3	Zn 213.857†	668.2	37.4	1.0462 µg/L	1.0462 ppb	07:28:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1983355.7	100.35 %	0.542			0.54%
Sc RADIAL	77889.8	99.2 %	1.10			1.10%
Y 371.029	1253509.9	100.35 %	0.538			0.54%
Ag 328.068†	32.2	0.2917 µg/L	0.26601	0.2917 ppb	0.26601	91.18%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.8	6.3076 µg/L	8.02730	6.3076 ppb	8.02730	127.26%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.6	3.5704 µg/L	2.21339	3.5704 ppb	2.21339	61.99%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-64.1	-3.0482 µg/L	1.07320	-3.0482 ppb	1.07320	35.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	26.9	0.7503 µg/L	0.13142	0.7503 ppb	0.13142	17.52%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	106.2	0.0714 µg/L	0.02991	0.0714 ppb	0.02991	41.91%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	52.6	37.918 µg/L	0.5015	37.918 ppb	0.5015	1.32%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.8	0.0494 µg/L	0.08475	0.0494 ppb	0.08475	171.44%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.0	0.2661 µg/L	0.11848	0.2661 ppb	0.11848	44.53%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	41.2 0.9239 µg/L	0.51475 0.9239 ppb	0.51475 55.72%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	244.5 1.7956 µg/L	0.13360 1.7956 ppb	0.13360 7.44%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	1.7 22.638 µg/L	9.9594 22.638 ppb	9.9594 43.99%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	15.6 9.8193 µg/L	33.35541 9.8193 ppb	33.35541 339.69%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	1.0 10.635 µg/L	19.9122 10.635 ppb	19.9122 187.24%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	41.3 0.1489 µg/L	0.03575 0.1489 ppb	0.03575 24.02%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	4.6 0.5599 µg/L	0.59902 0.5599 ppb	0.59902 106.99%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-2.1 -0.5659 µg/L	3.19943 -0.5659 ppb	3.19943 565.37%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-2.5 -0.1505 µg/L	0.13376 -0.1505 ppb	0.13376 88.87%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	2.0 4.4755 µg/L	7.52743 4.4755 ppb	7.52743 168.19%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	8.1 2.2666 µg/L	1.37582 2.2666 ppb	1.37582 60.70%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	1.4 7.8136 µg/L	12.48166 7.8136 ppb	12.48166 159.74%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	1.2 1.2241 µg/L	3.58015 1.2241 ppb	3.58015 292.46%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	3.1 4.7856 µg/L	4.39371 4.7856 ppb	4.39371 91.81%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-41.7 -8.5176 µg/L	1.84779 -8.5176 ppb	1.84779 21.69%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	12.7 1.0263 µg/L	0.83785 1.0263 ppb	0.83785 81.64%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	0.4 0.2561 µg/L	1.23985 0.2561 ppb	1.23985 484.11%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	18.8 0.1125 µg/L	0.05926 0.1125 ppb	0.05926 52.69%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	76.8 0.1853 µg/L	0.18004 0.1853 ppb	0.18004 97.16%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	3.5 5.7912 µg/L	8.43388 5.7912 ppb	8.43388 145.63%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	36.5 3.3826 µg/L	3.94392 3.3826 ppb	3.94392 116.59%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-0.7 0.0030 µg/L	0.42143 0.0030 ppb	0.42143 >999.9%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	38.3 1.0718 µg/L	0.07806 1.0718 ppb	0.07806 7.28%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 07:31:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	78404.5	78404.5	99.9 %		07:32:33
1	Al 396.153Radial†	7731.1	7768.1	5020.1 µg/L	5020.1 ppb	07:32:33
1	Ca 317.933Radial†	7159.5	6919.2	4985.6 µg/L	4985.6 ppb	07:32:33
1	Fe 238.204 Radial†	403.0	387.0	5136.1 µg/L	5136.1 ppb	07:32:53
1	K 766.490 Radial†	8495.9	8105.4	5113.7 µg/L	5113.7 ppb	07:32:33
1	Mg 279.077 IEC†	513.2	505.5	5191.7 µg/L	5191.7 ppb	07:32:53
1	Na 589.592 Radial†	38220.9	37704.2	10038 µg/L	10038 ppb	07:32:33
1	Sr 421.552†	86574.7	86024.6	514.59 µg/L	514.59 ppb	07:32:33
1	Sc 361.383	1989532.0	1989532.0	100.66 %		07:33:57
1	Y 371.029	1252770.7	1252770.7	100.29 %		07:33:57
1	Ag 328.068†	58937.3	58642.5	533.16 µg/L	533.16 ppb	07:34:03
1	As 188.979†	248.5	249.6	543.09 µg/L	543.09 ppb	07:34:23
1	B 249.677†	11347.6	10903.0	514.62 µg/L	514.62 ppb	07:34:03
1	Ba 233.527†	19025.7	18924.6	529.58 µg/L	529.58 ppb	07:34:03
1	Be 313.107†	782703.9	773725.4	520.39 µg/L	520.39 ppb	07:33:57
1	Cd 226.502†	18632.2	18635.1	527.94 µg/L	527.94 ppb	07:34:03
1	Co 228.616†	9984.2	9967.9	529.65 µg/L	529.65 ppb	07:34:03
1	Cr 267.716†	23934.2	23879.0	535.39 µg/L	535.39 ppb	07:34:03
1	Cu 324.752†	77009.2	72603.0	533.06 µg/L	533.06 ppb	07:34:03
1	Mn 257.610†	148209.6	147383.3	522.88 µg/L	522.88 ppb	07:33:57
1	Mo 202.031†	4454.4	4412.5	534.75 µg/L	534.75 ppb	07:34:23
1	Ni 231.604†	9137.7	8746.2	529.01 µg/L	529.01 ppb	07:34:03
1	P 214.914†	1392.9	1163.9	2631.5 µg/L	2631.5 ppb	07:34:23
1	Pb 220.353†	2002.3	1928.0	541.02 µg/L	541.02 ppb	07:34:23
1	S 181.975 Axial†	216.5	191.9	1066.9 µg/L	1066.9 ppb	07:34:23
1	Sb 206.836†	535.0	507.5	539.00 µg/L	539.00 ppb	07:34:23
1	Se 196.026†	368.2	357.8	557.17 µg/L	557.17 ppb	07:34:23
1	SiO2†	30715.9	28124.6	5742.4 µg/L	5742.4 ppb	07:34:03
1	Si 251.611†	33704.7	33200.7	2689.4 µg/L	2689.4 ppb	07:34:03
1	Sn 189.927†	1017.2	987.1	558.95 µg/L	558.95 ppb	07:34:23
1	Ti 334.940†	219557.7	217410.7	525.22 µg/L	525.22 ppb	07:33:57
1	Tl 190.801†	300.0	322.5	541.68 µg/L	541.68 ppb	07:34:23
1	U 409.014†	5640.9	5790.1	537.15 µg/L	537.15 ppb	07:34:03
1	V 292.402†	44482.6	44305.5	539.29 µg/L	539.29 ppb	07:34:03
1	Zn 213.857†	19674.3	18912.7	527.91 µg/L	527.91 ppb	07:34:03
2	Sc RADIAL	79179.4	79179.4	101 %		07:32:59
2	Al 396.153Radial†	7802.9	7763.5	5017.3 µg/L	5017.3 ppb	07:32:59
2	Ca 317.933Radial†	7306.7	6995.0	5040.2 µg/L	5040.2 ppb	07:32:59
2	Fe 238.204 Radial†	403.6	383.7	5092.6 µg/L	5092.6 ppb	07:33:19
2	K 766.490 Radial†	8619.6	8144.8	5138.6 µg/L	5138.6 ppb	07:32:59
2	Mg 279.077 IEC†	512.1	499.4	5128.6 µg/L	5128.6 ppb	07:33:19
2	Na 589.592 Radial†	38542.7	37648.8	10023 µg/L	10023 ppb	07:32:59
2	Sr 421.552†	87581.6	86174.5	515.49 µg/L	515.49 ppb	07:32:59
2	Sc 361.383	1982168.5	1982168.5	100.29 %		07:34:30
2	Y 371.029	1248792.9	1248792.9	99.975 %		07:34:30
2	Ag 328.068†	58861.5	58784.4	534.45 µg/L	534.45 ppb	07:34:36
2	As 188.979†	244.4	246.4	536.02 µg/L	536.02 ppb	07:34:57
2	B 249.677†	11359.2	10956.5	517.18 µg/L	517.18 ppb	07:34:36
2	Ba 233.527†	18987.2	18956.5	530.47 µg/L	530.47 ppb	07:34:36
2	Be 313.107†	781864.4	775776.9	521.77 µg/L	521.77 ppb	07:34:30
2	Cd 226.502†	18634.3	18705.9	529.96 µg/L	529.96 ppb	07:34:36
2	Co 228.616†	10009.5	10030.0	532.94 µg/L	532.94 ppb	07:34:36
2	Cr 267.716†	23845.9	23879.3	535.39 µg/L	535.39 ppb	07:34:36
2	Cu 324.752†	76935.5	72813.7	534.60 µg/L	534.60 ppb	07:34:36
2	Mn 257.610†	147856.8	147578.5	523.57 µg/L	523.57 ppb	07:34:30
2	Mo 202.031†	4404.7	4379.4	530.74 µg/L	530.74 ppb	07:34:57
2	Ni 231.604†	9137.0	8779.3	531.00 µg/L	531.00 ppb	07:34:36
2	P 214.914†	1399.9	1176.1	2659.3 µg/L	2659.3 ppb	07:34:57
2	Pb 220.353†	1985.8	1918.9	538.45 µg/L	538.45 ppb	07:34:57

2	S 181.975 Axial†	222.0	198.2	1101.9 µg/L	1101.9 ppb	07:34:57
2	Sb 206.836†	532.5	507.0	538.42 µg/L	538.42 ppb	07:34:57
2	Se 196.026†	357.7	348.8	543.45 µg/L	543.45 ppb	07:34:57
2	SiO2†	30736.9	28258.9	5769.8 µg/L	5769.8 ppb	07:34:36
2	Si 251.611†	33642.0	33262.6	2694.4 µg/L	2694.4 ppb	07:34:36
2	Sn 189.927†	999.7	973.3	551.20 µg/L	551.20 ppb	07:34:57
2	Ti 334.940†	219234.7	217898.9	526.41 µg/L	526.41 ppb	07:34:30
2	Tl 190.801†	298.2	321.9	540.64 µg/L	540.64 ppb	07:34:57
2	U 409.014†	5560.2	5730.3	531.60 µg/L	531.60 ppb	07:34:36
2	V 292.402†	44426.5	44413.8	540.55 µg/L	540.55 ppb	07:34:36
2	Zn 213.857†	19632.3	18943.5	528.76 µg/L	528.76 ppb	07:34:36
3	Sc RADIAL	79551.9	79551.9	101 %		07:33:25
3	Al 396.153Radial†	7787.9	7712.5	4986.0 µg/L	4986.0 ppb	07:33:25
3	Ca 317.933Radial†	7220.6	6876.1	4954.6 µg/L	4954.6 ppb	07:33:25
3	Fe 238.204 Radial†	403.4	381.6	5063.0 µg/L	5063.0 ppb	07:33:45
3	K 766.490 Radial†	8610.1	8095.5	5107.5 µg/L	5107.5 ppb	07:33:25
3	Mg 279.077 IEC†	513.4	498.3	5116.1 µg/L	5116.1 ppb	07:33:45
3	Na 589.592 Radial†	38326.7	37256.8	9919.0 µg/L	9919.0 ppb	07:33:25
3	Sr 421.552†	87079.6	85272.7	510.09 µg/L	510.09 ppb	07:33:25
3	Sc 361.383	2003843.7	2003843.7	101.39 %		07:35:04
3	Y 371.029	1262538.1	1262538.1	101.08 %		07:35:04
3	Ag 328.068†	55898.8	55227.4	501.97 µg/L	501.97 ppb	07:35:09
3	As 188.979†	213.1	212.9	463.18 µg/L	463.18 ppb	07:35:30
3	B 249.677†	10733.6	10217.0	482.06 µg/L	482.06 ppb	07:35:09
3	Ba 233.527†	17469.3	17254.4	482.83 µg/L	482.83 ppb	07:35:09
3	Be 313.107†	748609.8	734543.9	494.04 µg/L	494.04 ppb	07:35:04
3	Cd 226.502†	17089.2	16980.9	481.03 µg/L	481.03 ppb	07:35:09
3	Co 228.616†	9092.8	9017.8	479.08 µg/L	479.08 ppb	07:35:09
3	Cr 267.716†	21147.3	20960.4	469.95 µg/L	469.95 ppb	07:35:09
3	Cu 324.752†	70522.8	65658.9	482.14 µg/L	482.14 ppb	07:35:09
3	Mn 257.610†	142084.2	140290.0	497.73 µg/L	497.73 ppb	07:35:04
3	Mo 202.031†	3719.5	3656.1	443.11 µg/L	443.11 ppb	07:35:30
3	Ni 231.604†	8328.3	7883.1	476.80 µg/L	476.80 ppb	07:35:09
3	P 214.914†	1226.5	989.9	2234.6 µg/L	2234.6 ppb	07:35:30
3	Pb 220.353†	1756.8	1671.6	468.99 µg/L	468.99 ppb	07:35:30
3	S 181.975 Axial†	199.0	173.1	962.52 µg/L	962.52 ppb	07:35:30
3	Sb 206.836†	465.2	434.8	461.36 µg/L	461.36 ppb	07:35:30
3	Se 196.026†	328.3	315.9	493.95 µg/L	493.95 ppb	07:35:30
3	SiO2†	28746.2	25963.9	5301.2 µg/L	5301.2 ppb	07:35:09
3	Si 251.611†	31317.2	30606.7	2479.3 µg/L	2479.3 ppb	07:35:09
3	Sn 189.927†	841.7	806.7	457.27 µg/L	457.27 ppb	07:35:30
3	Ti 334.940†	208790.2	205232.5	495.79 µg/L	495.79 ppb	07:35:04
3	Tl 190.801†	266.4	287.3	482.80 µg/L	482.80 ppb	07:35:30
3	U 409.014†	4897.8	5017.1	465.32 µg/L	465.32 ppb	07:35:09
3	V 292.402†	40212.7	39778.4	483.88 µg/L	483.88 ppb	07:35:09
3	Zn 213.857†	17981.6	17103.5	477.37 µg/L	477.37 ppb	07:35:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1991848.1	100.78 %	0.558			0.55%
Sc RADIAL	79045.3	101 %	0.7			0.74%
Y 371.029	1254700.6	100.45 %	0.566			0.56%
Ag 328.068†	57551.4	523.19 µg/L	18.390	523.19 ppb	18.390	3.51%
QC value within limits for Ag 328.068 Recovery = 104.64%						
Al 396.153Radial†	7748.0	5007.8 µg/L	18.92	5007.8 ppb	18.92	0.38%
QC value within limits for Al 396.153Radial Recovery = 100.16%						
As 188.979†	236.3	514.09 µg/L	44.237	514.09 ppb	44.237	8.60%
QC value within limits for As 188.979 Recovery = 102.82%						
B 249.677†	10692.2	504.62 µg/L	19.580	504.62 ppb	19.580	3.88%
QC value within limits for B 249.677 Recovery = 100.92%						
Ba 233.527†	18378.5	514.29 µg/L	27.252	514.29 ppb	27.252	5.30%
QC value within limits for Ba 233.527 Recovery = 102.86%						
Be 313.107†	761348.7	512.06 µg/L	15.628	512.06 ppb	15.628	3.05%
QC value within limits for Be 313.107 Recovery = 102.41%						
Ca 317.933Radial†	6930.1	4993.5 µg/L	43.35	4993.5 ppb	43.35	0.87%
QC value within limits for Ca 317.933Radial Recovery = 99.87%						
Cd 226.502†	18107.3	512.98 µg/L	27.684	512.98 ppb	27.684	5.40%
QC value within limits for Cd 226.502 Recovery = 102.60%						
Co 228.616†	9671.9	513.89 µg/L	30.189	513.89 ppb	30.189	5.87%

QC value within limits for Co 228.616 Recovery = 102.78%							
Cr	267.716†	22906.2	513.58 µg/L	37.779	513.58 ppb	37.779	7.36%
QC value within limits for Cr 267.716 Recovery = 102.72%							
Cu	324.752†	70358.5	516.60 µg/L	29.857	516.60 ppb	29.857	5.78%
QC value within limits for Cu 324.752 Recovery = 103.32%							
Fe	238.204 Radial†	384.1	5097.2 µg/L	36.76	5097.2 ppb	36.76	0.72%
QC value within limits for Fe 238.204 Radial Recovery = 101.94%							
K	766.490 Radial†	8115.2	5119.9 µg/L	16.47	5119.9 ppb	16.47	0.32%
QC value within limits for K 766.490 Radial Recovery = 102.40%							
Mg	279.077 IEC†	501.1	5145.5 µg/L	40.56	5145.5 ppb	40.56	0.79%
QC value within limits for Mg 279.077 IEC Recovery = 102.91%							
Mn	257.610†	145083.9	514.73 µg/L	14.723	514.73 ppb	14.723	2.86%
QC value within limits for Mn 257.610 Recovery = 102.95%							
Mo	202.031†	4149.3	502.87 µg/L	51.791	502.87 ppb	51.791	10.30%
QC value within limits for Mo 202.031 Recovery = 100.57%							
Na	589.592 Radial†	37536.6	9993.5 µg/L	64.93	9993.5 ppb	64.93	0.65%
QC value within limits for Na 589.592 Radial Recovery = 99.94%							
Ni	231.604†	8469.5	512.27 µg/L	30.731	512.27 ppb	30.731	6.00%
QC value within limits for Ni 231.604 Recovery = 102.45%							
P	214.914†	1110.0	2508.5 µg/L	237.62	2508.5 ppb	237.62	9.47%
QC value within limits for P 214.914 Recovery = 100.34%							
Pb	220.353†	1839.5	516.15 µg/L	40.866	516.15 ppb	40.866	7.92%
QC value within limits for Pb 220.353 Recovery = 103.23%							
S	181.975 Axial†	187.7	1043.8 µg/L	72.49	1043.8 ppb	72.49	6.95%
QC value within limits for S 181.975 Axial Recovery = 104.38%							
Sb	206.836†	483.1	512.93 µg/L	44.656	512.93 ppb	44.656	8.71%
QC value within limits for Sb 206.836 Recovery = 102.59%							
Se	196.026†	340.8	531.52 µg/L	33.257	531.52 ppb	33.257	6.26%
QC value within limits for Se 196.026 Recovery = 106.30%							
SiO2†		27449.1	5604.5 µg/L	262.98	5604.5 ppb	262.98	4.69%
QC value within limits for SiO2 Recovery = 104.81%							
Si	251.611†	32356.7	2621.0 µg/L	122.79	2621.0 ppb	122.79	4.68%
QC value within limits for Si 251.611 Recovery = 104.84%							
Sn	189.927†	922.4	522.47 µg/L	56.603	522.47 ppb	56.603	10.83%
QC value within limits for Sn 189.927 Recovery = 104.49%							
Sr	421.552†	85823.9	513.39 µg/L	2.890	513.39 ppb	2.890	0.56%
QC value within limits for Sr 421.552 Recovery = 102.68%							
Ti	334.940†	213514.0	515.81 µg/L	17.346	515.81 ppb	17.346	3.36%
QC value within limits for Ti 334.940 Recovery = 103.16%							
Tl	190.801†	310.6	521.71 µg/L	33.698	521.71 ppb	33.698	6.46%
QC value within limits for Tl 190.801 Recovery = 104.34%							
U	409.014†	5512.5	511.36 µg/L	39.968	511.36 ppb	39.968	7.82%
QC value within limits for U 409.014 Recovery = 102.27%							
V	292.402†	42832.6	521.24 µg/L	32.361	521.24 ppb	32.361	6.21%
QC value within limits for V 292.402 Recovery = 104.25%							
Zn	213.857†	18319.9	511.35 µg/L	29.428	511.35 ppb	29.428	5.76%
QC value within limits for Zn 213.857 Recovery = 102.27%							
All analyte(s) passed QC.							

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 07:35:40

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	77019.7	77019.7	98.1 %		07:36:12
1	Al 396.153Radial†	-34.7	-5.8	-3.7856 µg/L	-3.7856 ppb	07:36:12
1	Ca 317.933Radial†	296.0	54.5	39.247 µg/L	39.247 ppb	07:36:32
1	Fe 238.204 Radial†	17.5	1.5	19.363 µg/L	19.363 ppb	07:36:32
1	K 766.490 Radial†	407.9	17.0	10.717 µg/L	10.717 ppb	07:36:12
1	Mg 279.077 IEC†	11.2	3.3	33.657 µg/L	33.657 ppb	07:36:32
1	Na 589.592 Radial†	538.8	-4.6	-1.2288 µg/L	-1.2288 ppb	07:36:12
1	Sr 421.552†	660.3	38.8	0.2318 µg/L	0.2318 ppb	07:36:12
1	Sc 361.383	1968002.7	1968002.7	99.572 %		07:37:34
1	Y 371.029	1244089.6	1244089.6	99.598 %		07:37:34
1	Ag 328.068†	-83.7	8.6	0.0747 µg/L	0.0747 ppb	07:37:40
1	As 188.979†	1.9	4.7	10.164 µg/L	10.164 ppb	07:38:01
1	B 249.677†	290.8	-77.9	-3.7004 µg/L	-3.7004 ppb	07:38:01
1	Ba 233.527†	-26.6	-2.8	-0.0787 µg/L	-0.0787 ppb	07:38:01
1	Be 313.107†	3872.5	55.4	0.0372 µg/L	0.0372 ppb	07:37:40
1	Cd 226.502†	-130.3	-5.5	-0.1594 µg/L	-0.1594 ppb	07:38:01
1	Co 228.616†	-45.8	3.3	0.1744 µg/L	0.1744 ppb	07:38:01
1	Cr 267.716†	-65.6	36.3	0.8119 µg/L	0.8119 ppb	07:37:40
1	Cu 324.752†	4069.3	186.8	1.3723 µg/L	1.3723 ppb	07:37:40
1	Mn 257.610†	-114.7	32.7	0.1170 µg/L	0.1170 ppb	07:38:01
1	Mo 202.031†	17.6	5.1	0.6237 µg/L	0.6237 ppb	07:38:01
1	Ni 231.604†	326.2	-3.9	-0.2333 µg/L	-0.2333 ppb	07:38:01
1	P 214.914†	215.1	-3.9	-9.0821 µg/L	-9.0821 ppb	07:38:01
1	Pb 220.353†	61.2	0.3	0.0943 µg/L	0.0943 ppb	07:38:01
1	S 181.975 Axial†	26.4	3.4	18.935 µg/L	18.935 ppb	07:38:01
1	Sb 206.836†	24.1	0.2	0.2314 µg/L	0.2314 ppb	07:38:01
1	Se 196.026†	11.7	3.8	5.7398 µg/L	5.7398 ppb	07:38:01
1	SiO2†	2299.7	-79.8	-16.296 µg/L	-16.296 ppb	07:37:40
1	Si 251.611†	278.4	-2.8	-0.2266 µg/L	-0.2266 ppb	07:38:01
1	Sn 189.927†	20.0	-3.3	-1.8645 µg/L	-1.8645 ppb	07:38:01
1	Ti 334.940†	738.6	37.9	0.0895 µg/L	0.0895 ppb	07:37:40
1	Tl 190.801†	-27.0	-2.6	-4.3559 µg/L	-4.3559 ppb	07:38:01
1	U 409.014†	-200.1	-14.7	-1.3734 µg/L	-1.3734 ppb	07:37:40
1	V 292.402†	-164.4	-49.8	-0.5928 µg/L	-0.5928 ppb	07:37:40
1	Zn 213.857†	667.8	38.4	1.0765 µg/L	1.0765 ppb	07:38:01
2	Sc RADIAL	76695.1	76695.1	97.7 %		07:36:38
2	Al 396.153Radial†	-17.9	11.2	7.2527 µg/L	7.2527 ppb	07:36:38
2	Ca 317.933Radial†	295.2	54.9	39.546 µg/L	39.546 ppb	07:36:58
2	Fe 238.204 Radial†	15.8	-0.1	-1.6866 µg/L	-1.6866 ppb	07:36:58
2	K 766.490 Radial†	418.4	29.4	18.569 µg/L	18.569 ppb	07:36:38
2	Mg 279.077 IEC†	9.0	1.0	10.497 µg/L	10.497 ppb	07:36:58
2	Na 589.592 Radial†	516.9	-24.7	-6.5805 µg/L	-6.5805 ppb	07:36:38
2	Sr 421.552†	666.5	47.9	0.2868 µg/L	0.2868 ppb	07:36:38
2	Sc 361.383	1982341.8	1982341.8	100.30 %		07:38:07
2	Y 371.029	1253153.4	1253153.4	100.32 %		07:38:07
2	Ag 328.068†	-23.7	68.9	0.6255 µg/L	0.6255 ppb	07:38:12
2	As 188.979†	-2.2	0.5	1.0761 µg/L	1.0761 ppb	07:38:33
2	B 249.677†	269.7	-101.1	-4.7860 µg/L	-4.7860 ppb	07:38:33
2	Ba 233.527†	-24.6	-0.6	-0.0157 µg/L	-0.0157 ppb	07:38:33
2	Be 313.107†	3923.3	77.9	0.0523 µg/L	0.0523 ppb	07:38:12
2	Cd 226.502†	-124.2	1.5	0.0420 µg/L	0.0420 ppb	07:38:33
2	Co 228.616†	-43.1	6.4	0.3390 µg/L	0.3390 ppb	07:38:33
2	Cr 267.716†	-74.0	28.3	0.6349 µg/L	0.6349 ppb	07:38:12
2	Cu 324.752†	4112.5	200.3	1.4686 µg/L	1.4686 ppb	07:38:12
2	Mn 257.610†	-103.5	44.7	0.1577 µg/L	0.1577 ppb	07:38:33
2	Mo 202.031†	19.2	6.6	0.7939 µg/L	0.7939 ppb	07:38:33
2	Ni 231.604†	323.8	-8.6	-0.5205 µg/L	-0.5205 ppb	07:38:33
2	P 214.914†	214.3	-6.2	-14.443 µg/L	-14.443 ppb	07:38:33
2	Pb 220.353†	64.5	3.2	0.8939 µg/L	0.8939 ppb	07:38:33

2	S 181.975 Axial†	25.5	2.3	12.570 µg/L	12.570 ppb	07:38:33
2	Sb 206.836†	25.6	1.5	1.5710 µg/L	1.5710 ppb	07:38:33
2	Se 196.026†	6.3	-1.7	-2.5664 µg/L	-2.5664 ppb	07:38:33
2	SiO2†	2336.2	-60.1	-12.272 µg/L	-12.272 ppb	07:38:12
2	Si 251.611†	300.6	17.3	1.4028 µg/L	1.4028 ppb	07:38:33
2	Sn 189.927†	22.8	-0.8	-0.4227 µg/L	-0.4227 ppb	07:38:33
2	Ti 334.940†	783.0	76.8	0.1856 µg/L	0.1856 ppb	07:38:12
2	Tl 190.801†	-21.7	2.9	4.7553 µg/L	4.7553 ppb	07:38:33
2	U 409.014†	-245.2	-58.2	-5.4122 µg/L	-5.4122 ppb	07:38:12
2	V 292.402†	-71.1	44.4	0.5365 µg/L	0.5365 ppb	07:38:12
2	Zn 213.857†	672.3	38.0	1.0680 µg/L	1.0680 ppb	07:38:33
3	Sc RADIAL	76626.5	76626.5	97.6 %		07:37:04
3	Al 396.153Radial†	-45.9	-17.5	-11.350 µg/L	-11.350 ppb	07:37:04
3	Ca 317.933Radial†	298.8	58.9	42.439 µg/L	42.439 ppb	07:37:24
3	Fe 238.204 Radial†	18.6	2.7	35.697 µg/L	35.697 ppb	07:37:24
3	K 766.490 Radial†	414.7	26.0	16.435 µg/L	16.435 ppb	07:37:04
3	Mg 279.077 IEC†	8.2	0.2	2.4057 µg/L	2.4057 ppb	07:37:24
3	Na 589.592 Radial†	488.4	-53.4	-14.228 µg/L	-14.228 ppb	07:37:04
3	Sr 421.552†	686.2	68.7	0.4112 µg/L	0.4112 ppb	07:37:04
3	Sc 361.383	1964755.1	1964755.1	99.408 %		07:38:39
3	Y 371.029	1241226.6	1241226.6	99.369 %		07:38:39
3	Ag 328.068†	-73.7	18.4	0.1727 µg/L	0.1727 ppb	07:38:44
3	As 188.979†	-4.9	-2.2	-4.8073 µg/L	-4.8073 ppb	07:39:05
3	B 249.677†	270.2	-98.1	-4.6640 µg/L	-4.6640 ppb	07:39:05
3	Ba 233.527†	-22.9	0.9	0.0268 µg/L	0.0268 ppb	07:39:05
3	Be 313.107†	3933.2	122.8	0.0826 µg/L	0.0826 ppb	07:38:44
3	Cd 226.502†	-110.9	13.7	0.3848 µg/L	0.3848 ppb	07:39:05
3	Co 228.616†	-57.8	-8.9	-0.4719 µg/L	-0.4719 ppb	07:39:05
3	Cr 267.716†	-74.4	27.3	0.6120 µg/L	0.6120 ppb	07:38:44
3	Cu 324.752†	4031.6	155.7	1.1466 µg/L	1.1466 ppb	07:38:44
3	Mn 257.610†	-123.7	23.4	0.0875 µg/L	0.0875 ppb	07:39:05
3	Mo 202.031†	20.0	7.6	0.9166 µg/L	0.9166 ppb	07:39:05
3	Ni 231.604†	331.1	1.7	0.1015 µg/L	0.1015 ppb	07:39:05
3	P 214.914†	213.6	-5.0	-11.532 µg/L	-11.532 ppb	07:39:05
3	Pb 220.353†	67.5	6.8	1.8967 µg/L	1.8967 ppb	07:39:05
3	S 181.975 Axial†	24.3	1.3	7.1232 µg/L	7.1232 ppb	07:39:05
3	Sb 206.836†	26.6	2.7	2.8820 µg/L	2.8820 ppb	07:39:05
3	Se 196.026†	8.1	0.2	0.4673 µg/L	0.4673 ppb	07:39:05
3	SiO2†	2358.1	-17.3	-3.5266 µg/L	-3.5266 ppb	07:38:44
3	Si 251.611†	296.5	15.8	1.2815 µg/L	1.2815 ppb	07:39:05
3	Sn 189.927†	27.8	4.5	2.5389 µg/L	2.5389 ppb	07:39:05
3	Ti 334.940†	793.1	93.9	0.2276 µg/L	0.2276 ppb	07:38:44
3	Tl 190.801†	-25.4	-1.0	-1.6725 µg/L	-1.6725 ppb	07:39:05
3	U 409.014†	-211.3	-26.4	-2.4568 µg/L	-2.4568 ppb	07:38:44
3	V 292.402†	-65.7	49.2	0.5998 µg/L	0.5998 ppb	07:38:44
3	Zn 213.857†	667.0	38.7	1.0840 µg/L	1.0840 ppb	07:39:05

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1971699.8	99.759 %	0.4735			0.47%
Sc RADIAL	76780.4	97.8 %	0.27			0.27%
Y 371.029	1246156.5	99.764 %	0.4985			0.50%
Ag 328.068†	32.0	0.2910 µg/L	0.29386	0.2910 ppb	0.29386	101.00%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-4.0	-2.6277 µg/L	9.35532	-2.6277 ppb	9.35532	356.03%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.0	2.1442 µg/L	7.54248	2.1442 ppb	7.54248	351.77%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-92.4	-4.3835 µg/L	0.59471	-4.3835 ppb	0.59471	13.57%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.8	-0.0225 µg/L	0.05308	-0.0225 ppb	0.05308	235.62%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	85.4	0.0574 µg/L	0.02310	0.0574 ppb	0.02310	40.26%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	56.1	40.411 µg/L	1.7627	40.411 ppb	1.7627	4.36%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	3.2	0.0891 µg/L	0.27515	0.0891 ppb	0.27515	308.77%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.3	0.0138 µg/L	0.42863	0.0138 ppb	0.42863	>999.9%

Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated				
		30.6	0.6863 µg/L	0.10942	0.6863 ppb	0.10942	15.94%
Cu	324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated				
		180.9	1.3292 µg/L	0.16528	1.3292 ppb	0.16528	12.44%
Fe	238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated				
		1.3	17.791 µg/L	18.7413	17.791 ppb	18.7413	105.34%
K	766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated				
		24.2	15.240 µg/L	4.0600	15.240 ppb	4.0600	26.64%
Mg	279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated				
		1.5	15.520 µg/L	16.2201	15.520 ppb	16.2201	104.51%
Mn	257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated				
		33.6	0.1207 µg/L	0.03522	0.1207 ppb	0.03522	29.18%
Mo	202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated				
		6.4	0.7780 µg/L	0.14709	0.7780 ppb	0.14709	18.91%
Na	589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated				
		-27.6	-7.3458 µg/L	6.53336	-7.3458 ppb	6.53336	88.94%
Ni	231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated				
		-3.6	-0.2174 µg/L	0.31130	-0.2174 ppb	0.31130	143.18%
P	214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated				
		-5.0	-11.686 µg/L	2.6838	-11.686 ppb	2.6838	22.97%
Pb	220.353†	QC value within limits for P 214.914	Recovery = Not calculated				
		3.4	0.9617 µg/L	0.90310	0.9617 ppb	0.90310	93.91%
S	181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated				
		2.3	12.876 µg/L	5.9118	12.876 ppb	5.9118	45.91%
Sb	206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated				
		1.5	1.5615 µg/L	1.32534	1.5615 ppb	1.32534	84.88%
Se	196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated				
		0.8	1.2136 µg/L	4.20307	1.2136 ppb	4.20307	346.34%
SiO2†		QC value within limits for Se 196.026	Recovery = Not calculated				
		-52.4	-10.698 µg/L	6.5285	-10.698 ppb	6.5285	61.02%
Si	251.611†	QC value within limits for SiO2	Recovery = Not calculated				
		10.1	0.8192 µg/L	0.90774	0.8192 ppb	0.90774	110.80%
Sn	189.927†	QC value within limits for Si 251.611	Recovery = Not calculated				
		0.1	0.0839 µg/L	2.24501	0.0839 ppb	2.24501	>999.9%
Sr	421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated				
		51.8	0.3099 µg/L	0.09190	0.3099 ppb	0.09190	29.65%
Ti	334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated				
		69.6	0.1675 µg/L	0.07078	0.1675 ppb	0.07078	42.25%
Tl	190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated				
		-0.2	-0.4244 µg/L	4.68206	-0.4244 ppb	4.68206	>999.9%
U	409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated				
		-33.1	-3.0808 µg/L	2.09046	-3.0808 ppb	2.09046	67.85%
V	292.402†	QC value within limits for U 409.014	Recovery = Not calculated				
		14.6	0.1811 µg/L	0.67103	0.1811 ppb	0.67103	370.48%
Zn	213.857†	QC value within limits for V 292.402	Recovery = Not calculated				
		38.4	1.0762 µg/L	0.00799	1.0762 ppb	0.00799	0.74%

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: 1/29/2010 08:11:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	77115.2	77115.2	98.3 %		08:12:06
1	Al 396.153Radial†	7765.7	7932.7	5126.8 µg/L	5126.8 ppb	08:12:06
1	Ca 317.933Radial†	6951.9	6827.8	4919.8 µg/L	4919.8 ppb	08:12:27
1	Fe 238.204 Radial†	401.4	392.2	5204.3 µg/L	5204.3 ppb	08:12:27
1	K 766.490 Radial†	8525.3	8277.5	5222.3 µg/L	5222.3 ppb	08:12:06
1	Mg 279.077 IEC†	508.6	509.4	5231.3 µg/L	5231.3 ppb	08:12:27
1	Na 589.592 Radial†	37777.7	37892.9	10088 µg/L	10088 ppb	08:12:06
1	Sr 421.552†	84968.0	85838.3	513.48 µg/L	513.48 ppb	08:12:06
1	Sc 361.383	1956039.0	1956039.0	98.967 %		08:13:30
1	Y 371.029	1232820.7	1232820.7	98.696 %		08:13:30
1	Ag 328.068†	58475.3	59178.2	538.01 µg/L	538.01 ppb	08:13:36
1	As 188.979†	247.1	252.5	549.26 µg/L	549.26 ppb	08:13:56
1	B 249.677†	11203.1	10950.1	516.82 µg/L	516.82 ppb	08:13:36
1	Ba 233.527†	18729.7	18949.2	530.27 µg/L	530.27 ppb	08:13:36
1	Be 313.107†	771890.5	776113.2	521.99 µg/L	521.99 ppb	08:13:30
1	Cd 226.502†	18236.9	18552.5	525.60 µg/L	525.60 ppb	08:13:36
1	Co 228.616†	9819.3	9971.1	529.80 µg/L	529.80 ppb	08:13:36
1	Cr 267.716†	23540.9	23888.7	535.60 µg/L	535.60 ppb	08:13:36
1	Cu 324.752†	76420.8	73318.4	538.32 µg/L	538.32 ppb	08:13:36
1	Mn 257.610†	146487.7	148164.5	525.66 µg/L	525.66 ppb	08:13:30
1	Mo 202.031†	4358.3	4391.2	532.17 µg/L	532.17 ppb	08:13:56
1	Ni 231.604†	9005.8	8768.3	530.34 µg/L	530.34 ppb	08:13:36
1	P 214.914†	1366.9	1161.4	2625.0 µg/L	2625.0 ppb	08:13:56
1	Pb 220.353†	1943.5	1902.6	533.88 µg/L	533.88 ppb	08:13:56
1	S 181.975 Axial†	215.1	194.2	1079.9 µg/L	1079.9 ppb	08:13:56
1	Sb 206.836†	529.8	511.3	543.00 µg/L	543.00 ppb	08:13:56
1	Se 196.026†	352.7	348.4	543.32 µg/L	543.32 ppb	08:13:56
1	SiO2†	30571.4	28501.1	5819.2 µg/L	5819.2 ppb	08:13:36
1	Si 251.611†	33557.4	33625.2	2723.8 µg/L	2723.8 ppb	08:13:36
1	Sn 189.927†	982.6	969.4	548.98 µg/L	548.98 ppb	08:13:56
1	Ti 334.940†	218110.7	219683.3	530.71 µg/L	530.71 ppb	08:13:30
1	Tl 190.801†	289.5	317.1	532.64 µg/L	532.64 ppb	08:13:56
1	U 409.014†	5622.9	5867.8	544.37 µg/L	544.37 ppb	08:13:36
1	V 292.402†	43889.7	44463.1	541.18 µg/L	541.18 ppb	08:13:36
1	Zn 213.857†	19414.5	18984.9	529.92 µg/L	529.92 ppb	08:13:36
2	Sc RADIAL	77548.0	77548.0	98.8 %		08:12:32
2	Al 396.153Radial†	7827.9	7951.5	5139.1 µg/L	5139.1 ppb	08:12:32
2	Ca 317.933Radial†	6962.2	6798.8	4898.8 µg/L	4898.8 ppb	08:12:53
2	Fe 238.204 Radial†	401.5	389.9	5174.8 µg/L	5174.8 ppb	08:12:53
2	K 766.490 Radial†	8488.1	8191.4	5168.0 µg/L	5168.0 ppb	08:12:32
2	Mg 279.077 IEC†	506.0	504.0	5175.5 µg/L	5175.5 ppb	08:12:53
2	Na 589.592 Radial†	38019.8	37923.3	10096 µg/L	10096 ppb	08:12:32
2	Sr 421.552†	85821.4	86219.3	515.76 µg/L	515.76 ppb	08:12:32
2	Sc 361.383	1948863.8	1948863.8	98.604 %		08:14:04
2	Y 371.029	1228108.1	1228108.1	98.319 %		08:14:04
2	Ag 328.068†	58077.5	58992.4	536.32 µg/L	536.32 ppb	08:14:09
2	As 188.979†	240.4	246.6	536.43 µg/L	536.43 ppb	08:14:30
2	B 249.677†	11073.8	10860.6	512.59 µg/L	512.59 ppb	08:14:09
2	Ba 233.527†	18542.3	18828.8	526.90 µg/L	526.90 ppb	08:14:09
2	Be 313.107†	769843.4	776908.7	522.53 µg/L	522.53 ppb	08:14:04
2	Cd 226.502†	18143.5	18525.6	524.84 µg/L	524.84 ppb	08:14:09
2	Co 228.616†	9748.7	9936.0	527.93 µg/L	527.93 ppb	08:14:09
2	Cr 267.716†	23366.4	23799.4	533.60 µg/L	533.60 ppb	08:14:09
2	Cu 324.752†	75843.9	73017.7	536.11 µg/L	536.11 ppb	08:14:09
2	Mn 257.610†	146079.7	148295.7	526.12 µg/L	526.12 ppb	08:14:04
2	Mo 202.031†	4318.0	4366.6	529.19 µg/L	529.19 ppb	08:14:30
2	Ni 231.604†	8930.8	8725.8	527.77 µg/L	527.77 ppb	08:14:09
2	P 214.914†	1367.3	1166.9	2637.9 µg/L	2637.9 ppb	08:14:30
2	Pb 220.353†	1942.3	1908.7	535.58 µg/L	535.58 ppb	08:14:30

2	S 181.975 Axial†	217.2	197.2	1096.2 µg/L	1096.2 ppb	08:14:30
2	Sb 206.836†	522.9	506.3	537.70 µg/L	537.70 ppb	08:14:30
2	Se 196.026†	346.2	343.1	535.26 µg/L	535.26 ppb	08:14:30
2	SiO2†	30353.0	28393.3	5797.2 µg/L	5797.2 ppb	08:14:09
2	Si 251.611†	33249.0	33437.3	2708.6 µg/L	2708.6 ppb	08:14:09
2	Sn 189.927†	978.6	969.0	548.77 µg/L	548.77 ppb	08:14:30
2	Ti 334.940†	217497.6	219873.0	531.17 µg/L	531.17 ppb	08:14:04
2	Tl 190.801†	287.1	315.6	530.31 µg/L	530.31 ppb	08:14:30
2	U 409.014†	5468.3	5731.9	531.75 µg/L	531.75 ppb	08:14:09
2	V 292.402†	43602.0	44334.6	539.59 µg/L	539.59 ppb	08:14:09
2	Zn 213.857†	19253.9	18894.2	527.39 µg/L	527.39 ppb	08:14:09
3	Sc RADIAL	77462.0	77462.0	98.7 %		08:12:58
3	Al 396.153Radial†	7785.1	7916.9	5118.4 µg/L	5118.4 ppb	08:12:58
3	Ca 317.933Radial†	6924.0	6767.8	4876.5 µg/L	4876.5 ppb	08:13:19
3	Fe 238.204 Radial†	400.1	389.0	5161.7 µg/L	5161.7 ppb	08:13:19
3	K 766.490 Radial†	8564.5	8278.4	5222.9 µg/L	5222.9 ppb	08:12:58
3	Mg 279.077 IEC†	506.5	505.0	5184.6 µg/L	5184.6 ppb	08:13:19
3	Na 589.592 Radial†	37907.2	37851.9	10077 µg/L	10077 ppb	08:12:58
3	Sr 421.552†	85674.5	86166.9	515.44 µg/L	515.44 ppb	08:12:58
3	Sc 361.383	1958617.8	1958617.8	99.098 %		08:14:37
3	Y 371.029	1234434.8	1234434.8	98.825 %		08:14:37
3	Ag 328.068†	55554.4	56152.9	510.36 µg/L	510.36 ppb	08:14:42
3	As 188.979†	202.9	207.5	451.44 µg/L	451.44 ppb	08:15:03
3	B 249.677†	10503.0	10228.7	482.57 µg/L	482.57 ppb	08:14:42
3	Ba 233.527†	17177.8	17358.2	485.73 µg/L	485.73 ppb	08:14:42
3	Be 313.107†	734382.9	737237.1	495.85 µg/L	495.85 ppb	08:14:37
3	Cd 226.502†	16703.5	16980.9	481.02 µg/L	481.02 ppb	08:14:42
3	Co 228.616†	8925.9	9056.5	481.13 µg/L	481.13 ppb	08:14:42
3	Cr 267.716†	20865.9	21158.1	474.39 µg/L	474.39 ppb	08:14:42
3	Cu 324.752†	70062.2	66800.2	490.52 µg/L	490.52 ppb	08:14:42
3	Mn 257.610†	139578.3	140997.2	500.25 µg/L	500.25 ppb	08:14:37
3	Mo 202.031†	3659.7	3680.5	446.07 µg/L	446.07 ppb	08:15:03
3	Ni 231.604†	8204.2	7947.5	480.70 µg/L	480.70 ppb	08:14:42
3	P 214.914†	1201.9	993.0	2240.6 µg/L	2240.6 ppb	08:15:03
3	Pb 220.353†	1708.0	1662.4	466.38 µg/L	466.38 ppb	08:15:03
3	S 181.975 Axial†	194.2	172.8	960.68 µg/L	960.68 ppb	08:15:03
3	Sb 206.836†	457.0	437.1	463.84 µg/L	463.84 ppb	08:15:03
3	Se 196.026†	316.3	311.2	487.29 µg/L	487.29 ppb	08:15:03
3	SiO2†	28545.7	26416.3	5393.6 µg/L	5393.6 ppb	08:14:42
3	Si 251.611†	31168.9	31170.4	2524.9 µg/L	2524.9 ppb	08:14:42
3	Sn 189.927†	817.3	801.3	454.22 µg/L	454.22 ppb	08:15:03
3	Ti 334.940†	206180.0	207353.8	500.91 µg/L	500.91 ppb	08:14:37
3	Tl 190.801†	263.5	290.5	488.10 µg/L	488.10 ppb	08:15:03
3	U 409.014†	4948.9	5180.2	480.46 µg/L	480.46 ppb	08:14:42
3	V 292.402†	39652.2	40128.6	488.15 µg/L	488.15 ppb	08:14:42
3	Zn 213.857†	17729.6	17258.8	481.69 µg/L	481.69 ppb	08:14:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1954506.9	98.890 %	0.2557			0.26%
Sc RADIAL	77375.1	98.6 %	0.29			0.30%
Y 371.029	1231787.9	98.613 %	0.2632			0.27%
Ag 328.068†	58107.8	528.23 µg/L	15.501	528.23 ppb	15.501	2.93%
QC value within limits for Ag 328.068 Recovery = 105.65%						
Al 396.153Radial†	7933.7	5128.1 µg/L	10.41	5128.1 ppb	10.41	0.20%
QC value within limits for Al 396.153Radial Recovery = 102.56%						
As 188.979†	235.5	512.38 µg/L	53.161	512.38 ppb	53.161	10.38%
QC value within limits for As 188.979 Recovery = 102.48%						
B 249.677†	10679.8	503.99 µg/L	18.673	503.99 ppb	18.673	3.71%
QC value within limits for B 249.677 Recovery = 100.80%						
Ba 233.527†	18378.7	514.30 µg/L	24.799	514.30 ppb	24.799	4.82%
QC value within limits for Ba 233.527 Recovery = 102.86%						
Be 313.107†	763419.6	513.46 µg/L	15.252	513.46 ppb	15.252	2.97%
QC value within limits for Be 313.107 Recovery = 102.69%						
Ca 317.933Radial†	6798.1	4898.4 µg/L	21.61	4898.4 ppb	21.61	0.44%
QC value within limits for Ca 317.933Radial Recovery = 97.97%						
Cd 226.502†	18019.7	510.49 µg/L	25.517	510.49 ppb	25.517	5.00%
QC value within limits for Cd 226.502 Recovery = 102.10%						
Co 228.616†	9654.5	512.96 µg/L	27.575	512.96 ppb	27.575	5.38%

QC value within limits for Co 228.616 Recovery = 102.59%							
Cr 267.716†	22948.7	514.53 µg/L	34.780	514.53 ppb	34.780	6.76%	
QC value within limits for Cr 267.716 Recovery = 102.91%							
Cu 324.752†	71045.5	521.65 µg/L	26.982	521.65 ppb	26.982	5.17%	
QC value within limits for Cu 324.752 Recovery = 104.33%							
Fe 238.204 Radial†	390.4	5180.3 µg/L	21.82	5180.3 ppb	21.82	0.42%	
QC value within limits for Fe 238.204 Radial Recovery = 103.61%							
K 766.490 Radial†	8249.1	5204.4 µg/L	31.51	5204.4 ppb	31.51	0.61%	
QC value within limits for K 766.490 Radial Recovery = 104.09%							
Mg 279.077 IEC†	506.1	5197.1 µg/L	29.93	5197.1 ppb	29.93	0.58%	
QC value within limits for Mg 279.077 IEC Recovery = 103.94%							
Mn 257.610†	145819.1	517.34 µg/L	14.805	517.34 ppb	14.805	2.86%	
QC value within limits for Mn 257.610 Recovery = 103.47%							
Mo 202.031†	4146.1	502.48 µg/L	48.870	502.48 ppb	48.870	9.73%	
QC value within limits for Mo 202.031 Recovery = 100.50%							
Na 589.592 Radial†	37889.3	10087 µg/L	9.5	10087 ppb	9.5	0.09%	
QC value within limits for Na 589.592 Radial Recovery = 100.87%							
Ni 231.604†	8480.6	512.94 µg/L	27.947	512.94 ppb	27.947	5.45%	
QC value within limits for Ni 231.604 Recovery = 102.59%							
P 214.914†	1107.1	2501.1 µg/L	225.73	2501.1 ppb	225.73	9.02%	
QC value within limits for P 214.914 Recovery = 100.05%							
Pb 220.353†	1824.6	511.95 µg/L	39.471	511.95 ppb	39.471	7.71%	
QC value within limits for Pb 220.353 Recovery = 102.39%							
S 181.975 Axial†	188.1	1045.6 µg/L	74.01	1045.6 ppb	74.01	7.08%	
QC value within limits for S 181.975 Axial Recovery = 104.56%							
Sb 206.836†	484.9	514.85 µg/L	44.249	514.85 ppb	44.249	8.59%	
QC value within limits for Sb 206.836 Recovery = 102.97%							
Se 196.026†	334.3	521.96 µg/L	30.290	521.96 ppb	30.290	5.80%	
QC value within limits for Se 196.026 Recovery = 104.39%							
SiO2†	27770.2	5670.0 µg/L	239.66	5670.0 ppb	239.66	4.23%	
QC value within limits for SiO2 Recovery = 106.03%							
Si 251.611†	32744.3	2652.4 µg/L	110.68	2652.4 ppb	110.68	4.17%	
QC value within limits for Si 251.611 Recovery = 106.10%							
Sn 189.927†	913.2	517.32 µg/L	54.648	517.32 ppb	54.648	10.56%	
QC value within limits for Sn 189.927 Recovery = 103.46%							
Sr 421.552†	86074.8	514.89 µg/L	1.235	514.89 ppb	1.235	0.24%	
QC value within limits for Sr 421.552 Recovery = 102.98%							
Ti 334.940†	215636.7	520.93 µg/L	17.341	520.93 ppb	17.341	3.33%	
QC value within limits for Ti 334.940 Recovery = 104.19%							
Tl 190.801†	307.7	517.02 µg/L	25.072	517.02 ppb	25.072	4.85%	
QC value within limits for Tl 190.801 Recovery = 103.40%							
U 409.014†	5593.3	518.86 µg/L	33.846	518.86 ppb	33.846	6.52%	
QC value within limits for U 409.014 Recovery = 103.77%							
V 292.402†	42975.4	522.97 µg/L	30.168	522.97 ppb	30.168	5.77%	
QC value within limits for V 292.402 Recovery = 104.59%							
Zn 213.857†	18379.3	513.00 µg/L	27.139	513.00 ppb	27.139	5.29%	
QC value within limits for Zn 213.857 Recovery = 102.60%							
All analyte(s) passed QC.							

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 08:15:12

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	75911.1	75911.1	96.7 %		08:15:45
1	Al 396.153Radial†	-20.4	8.4	5.4243 µg/L	5.4243 ppb	08:15:45
1	Ca 317.933Radial†	288.7	51.3	36.952 µg/L	36.952 ppb	08:16:05
1	Fe 238.204 Radial†	18.0	2.3	30.179 µg/L	30.179 ppb	08:16:05
1	K 766.490 Radial†	405.1	20.1	12.689 µg/L	12.689 ppb	08:15:45
1	Mg 279.077 IEC†	8.7	0.9	8.7823 µg/L	8.7823 ppb	08:16:05
1	Na 589.592 Radial†	419.3	-120.1	-31.985 µg/L	-31.985 ppb	08:15:45
1	Sr 421.552†	627.5	14.7	0.0879 µg/L	0.0879 ppb	08:15:45
1	Sc 361.383	1956273.2	1956273.2	98.979 %		08:17:07
1	Y 371.029	1237425.9	1237425.9	99.065 %		08:17:07
1	Ag 328.068†	-102.0	-10.5	-0.0913 µg/L	-0.0913 ppb	08:17:13
1	As 188.979†	1.2	3.9	8.6083 µg/L	8.6083 ppb	08:17:33
1	B 249.677†	223.1	-144.5	-6.8606 µg/L	-6.8606 ppb	08:17:33
1	Ba 233.527†	-20.8	2.9	0.0827 µg/L	0.0827 ppb	08:17:33
1	Be 313.107†	3789.9	-4.8	-0.0033 µg/L	-0.0033 ppb	08:17:13
1	Cd 226.502†	-118.5	5.6	0.1553 µg/L	0.1553 ppb	08:17:33
1	Co 228.616†	-34.9	14.1	0.7483 µg/L	0.7483 ppb	08:17:33
1	Cr 267.716†	-74.9	26.5	0.5939 µg/L	0.5939 ppb	08:17:33
1	Cu 324.752†	3920.9	61.4	0.4547 µg/L	0.4547 ppb	08:17:13
1	Mn 257.610†	-100.3	46.5	0.1685 µg/L	0.1685 ppb	08:17:33
1	Mo 202.031†	15.0	2.6	0.3186 µg/L	0.3186 ppb	08:17:33
1	Ni 231.604†	330.0	2.0	0.1205 µg/L	0.1205 ppb	08:17:33
1	P 214.914†	217.2	-0.4	-0.9740 µg/L	-0.9740 ppb	08:17:33
1	Pb 220.353†	66.6	6.2	1.7338 µg/L	1.7338 ppb	08:17:33
1	S 181.975 Axial†	25.2	2.3	13.013 µg/L	13.013 ppb	08:17:33
1	Sb 206.836†	28.5	4.8	5.1060 µg/L	5.1060 ppb	08:17:33
1	Se 196.026†	12.5	4.7	7.1355 µg/L	7.1355 ppb	08:17:33
1	SiO2†	2340.3	-25.0	-5.0943 µg/L	-5.0943 ppb	08:17:13
1	Si 251.611†	335.2	56.2	4.5522 µg/L	4.5522 ppb	08:17:33
1	Sn 189.927†	27.4	4.2	2.4004 µg/L	2.4004 ppb	08:17:33
1	Ti 334.940†	772.2	76.3	0.1844 µg/L	0.1844 ppb	08:17:13
1	Tl 190.801†	-27.8	-3.5	-5.8852 µg/L	-5.8852 ppb	08:17:33
1	U 409.014†	-222.1	-38.2	-3.5541 µg/L	-3.5541 ppb	08:17:13
1	V 292.402†	-98.8	15.5	0.1886 µg/L	0.1886 ppb	08:17:13
1	Zn 213.857†	671.9	46.6	1.3058 µg/L	1.3058 ppb	08:17:33
2	Sc RADIAL	76310.4	76310.4	97.2 %		08:16:11
2	Al 396.153Radial†	-30.9	-2.3	-1.4927 µg/L	-1.4927 ppb	08:16:11
2	Ca 317.933Radial†	289.5	50.6	36.455 µg/L	36.455 ppb	08:16:31
2	Fe 238.204 Radial†	17.7	1.9	24.616 µg/L	24.616 ppb	08:16:31
2	K 766.490 Radial†	414.3	27.4	17.264 µg/L	17.264 ppb	08:16:11
2	Mg 279.077 IEC†	7.7	-0.2	-2.4036 µg/L	-2.4036 ppb	08:16:31
2	Na 589.592 Radial†	404.0	-138.2	-36.781 µg/L	-36.781 ppb	08:16:11
2	Sr 421.552†	664.7	49.6	0.2967 µg/L	0.2967 ppb	08:16:11
2	Sc 361.383	1957168.5	1957168.5	99.024 %		08:17:39
2	Y 371.029	1237997.5	1237997.5	99.110 %		08:17:39
2	Ag 328.068†	-58.2	33.8	0.3051 µg/L	0.3051 ppb	08:17:45
2	As 188.979†	-2.8	-0.1	-0.2312 µg/L	-0.2312 ppb	08:18:05
2	B 249.677†	221.9	-145.9	-6.9216 µg/L	-6.9216 ppb	08:18:05
2	Ba 233.527†	-17.0	6.8	0.1905 µg/L	0.1905 ppb	08:18:05
2	Be 313.107†	3908.4	113.1	0.0761 µg/L	0.0761 ppb	08:17:45
2	Cd 226.502†	-108.9	15.3	0.4313 µg/L	0.4313 ppb	08:18:05
2	Co 228.616†	-43.5	5.4	0.2859 µg/L	0.2859 ppb	08:18:05
2	Cr 267.716†	-70.9	30.5	0.6838 µg/L	0.6838 ppb	08:18:05
2	Cu 324.752†	3897.0	35.4	0.2632 µg/L	0.2632 ppb	08:17:45
2	Mn 257.610†	-85.7	61.3	0.2206 µg/L	0.2206 ppb	08:18:05
2	Mo 202.031†	12.7	0.2	0.0255 µg/L	0.0255 ppb	08:18:05
2	Ni 231.604†	335.7	7.6	0.4616 µg/L	0.4616 ppb	08:18:05
2	P 214.914†	207.6	-10.2	-23.426 µg/L	-23.426 ppb	08:18:05
2	Pb 220.353†	59.4	-1.2	-0.3216 µg/L	-0.3216 ppb	08:18:05

2	S 181.975 Axial†	25.5	2.6	14.395 µg/L	14.395 ppb	08:18:05
2	Sb 206.836†	23.8	0.1	0.0564 µg/L	0.0564 ppb	08:18:05
2	Se 196.026†	3.2	-4.7	-6.9075 µg/L	-6.9075 ppb	08:18:05
2	SiO2†	2371.6	5.5	1.1314 µg/L	1.1314 ppb	08:17:45
2	Si 251.611†	329.5	50.4	4.0794 µg/L	4.0794 ppb	08:18:05
2	Sn 189.927†	27.2	4.0	2.2482 µg/L	2.2482 ppb	08:18:05
2	Ti 334.940†	723.2	26.4	0.0646 µg/L	0.0646 ppb	08:17:45
2	Tl 190.801†	-22.9	1.4	2.3756 µg/L	2.3756 ppb	08:18:05
2	U 409.014†	-236.7	-52.8	-4.9172 µg/L	-4.9172 ppb	08:17:45
2	V 292.402†	-139.5	-25.5	-0.3091 µg/L	-0.3091 ppb	08:17:45
2	Zn 213.857†	673.1	47.5	1.3318 µg/L	1.3318 ppb	08:18:05
3	Sc RADIAL	76332.1	76332.1	97.3 %		08:16:37
3	Al 396.153Radial†	-44.6	-16.3	-10.573 µg/L	-10.573 ppb	08:16:37
3	Ca 317.933Radial†	287.6	48.6	34.990 µg/L	34.990 ppb	08:16:57
3	Fe 238.204 Radial†	17.7	1.9	25.283 µg/L	25.283 ppb	08:16:57
3	K 766.490 Radial†	368.1	-20.2	-12.771 µg/L	-12.771 ppb	08:16:37
3	Mg 279.077 IEC†	7.3	-0.7	-6.9373 µg/L	-6.9373 ppb	08:16:57
3	Na 589.592 Radial†	413.9	-128.1	-34.098 µg/L	-34.098 ppb	08:16:37
3	Sr 421.552†	626.6	10.2	0.0613 µg/L	0.0613 ppb	08:16:37
3	Sc 361.383	1959202.8	1959202.8	99.127 %		08:18:11
3	Y 371.029	1239004.7	1239004.7	99.191 %		08:18:11
3	Ag 328.068†	-80.0	11.9	0.1077 µg/L	0.1077 ppb	08:18:17
3	As 188.979†	-0.4	2.3	5.0437 µg/L	5.0437 ppb	08:18:38
3	B 249.677†	226.9	-141.1	-6.6935 µg/L	-6.6935 ppb	08:18:38
3	Ba 233.527†	-11.9	12.0	0.3336 µg/L	0.3336 ppb	08:18:38
3	Be 313.107†	3878.8	79.2	0.0532 µg/L	0.0532 ppb	08:18:17
3	Cd 226.502†	-116.5	7.7	0.2160 µg/L	0.2160 ppb	08:18:38
3	Co 228.616†	-54.9	-6.1	-0.3231 µg/L	-0.3231 ppb	08:18:38
3	Cr 267.716†	-60.8	40.8	0.9143 µg/L	0.9143 ppb	08:18:38
3	Cu 324.752†	3910.3	44.7	0.3316 µg/L	0.3316 ppb	08:18:17
3	Mn 257.610†	-92.5	54.5	0.1969 µg/L	0.1969 ppb	08:18:38
3	Mo 202.031†	14.9	2.4	0.2964 µg/L	0.2964 ppb	08:18:38
3	Ni 231.604†	330.0	1.5	0.0935 µg/L	0.0935 ppb	08:18:38
3	P 214.914†	214.8	-3.2	-7.3525 µg/L	-7.3525 ppb	08:18:38
3	Pb 220.353†	59.9	-0.7	-0.1920 µg/L	-0.1920 ppb	08:18:38
3	S 181.975 Axial†	22.2	-0.7	-3.8887 µg/L	-3.8887 ppb	08:18:38
3	Sb 206.836†	30.2	6.5	6.8653 µg/L	6.8653 ppb	08:18:38
3	Se 196.026†	10.4	2.6	4.0075 µg/L	4.0075 ppb	08:18:38
3	SiO2†	2363.4	-5.2	-1.0640 µg/L	-1.0640 ppb	08:18:17
3	Si 251.611†	335.5	56.0	4.5358 µg/L	4.5358 ppb	08:18:38
3	Sn 189.927†	21.4	-1.8	-1.0264 µg/L	-1.0264 ppb	08:18:38
3	Ti 334.940†	794.2	97.4	0.2365 µg/L	0.2365 ppb	08:18:17
3	Tl 190.801†	-20.0	4.4	7.2475 µg/L	7.2475 ppb	08:18:38
3	U 409.014†	-194.4	-9.9	-0.9215 µg/L	-0.9215 ppb	08:18:17
3	V 292.402†	-132.6	-18.5	-0.2175 µg/L	-0.2175 ppb	08:18:17
3	Zn 213.857†	669.4	43.0	1.2076 µg/L	1.2076 ppb	08:18:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1957548.2	99.043 %	0.0760			0.08%
Sc RADIAL	76184.5	97.1 %	0.30			0.31%
Y 371.029	1238142.7	99.122 %	0.0640			0.06%
Ag 328.068†	11.8	0.1071 µg/L	0.19818	0.1071 ppb	0.19818	184.98%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.4	-2.2138 µg/L	8.02303	-2.2138 ppb	8.02303	362.40%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.1	4.4736 µg/L	4.44724	4.4736 ppb	4.44724	99.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-143.8	-6.8252 µg/L	0.11811	-6.8252 ppb	0.11811	1.73%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.2	0.2023 µg/L	0.12588	0.2023 ppb	0.12588	62.24%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	62.5	0.0420 µg/L	0.04085	0.0420 ppb	0.04085	97.29%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	50.1	36.133 µg/L	1.0199	36.133 ppb	1.0199	2.82%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	9.5	0.2675 µg/L	0.14502	0.2675 ppb	0.14502	54.21%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.5	0.2370 µg/L	0.53736	0.2370 ppb	0.53736	226.73%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	32.6 0.7307 µg/L	0.16525 0.7307 ppb	0.16525 22.62%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	47.2 0.3498 µg/L	0.09701 0.3498 ppb	0.09701 27.73%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	2.0 26.693 µg/L	3.0374 26.693 ppb	3.0374 11.38%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	9.1 5.7274 µg/L	16.18258 5.7274 ppb	16.18258 282.54%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-0.0 -0.1862 µg/L	8.09097 -0.1862 ppb	8.09097 >999.9%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	54.1 0.1953 µg/L	0.02606 0.1953 ppb	0.02606 13.34%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	1.8 0.2135 µg/L	0.16316 0.2135 ppb	0.16316 76.43%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-128.8 -34.288 µg/L	2.4040 -34.288 ppb	2.4040 7.01%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	3.7 0.2252 µg/L	0.20518 0.2252 ppb	0.20518 91.11%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-4.6 -10.584 µg/L	11.5698 -10.584 ppb	11.5698 109.31%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	1.4 0.4067 µg/L	1.15109 0.4067 ppb	1.15109 283.01%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	1.4 7.8399 µg/L	10.18073 7.8399 ppb	10.18073 129.86%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	3.8 4.0092 µg/L	3.53446 4.0092 ppb	3.53446 88.16%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.9 1.4119 µg/L	7.37255 1.4119 ppb	7.37255 522.19%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-8.2 -1.6756 µg/L	3.15755 -1.6756 ppb	3.15755 188.44%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	54.2 4.3891 µg/L	0.26833 4.3891 ppb	0.26833 6.11%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	2.1 1.2074 µg/L	1.93605 1.2074 ppb	1.93605 160.35%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	24.8 0.1486 µg/L	0.12891 0.1486 ppb	0.12891 86.74%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	66.7 0.1618 µg/L	0.08812 0.1618 ppb	0.08812 54.45%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	0.8 1.2460 µg/L	6.63882 1.2460 ppb	6.63882 532.83%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-33.6 -3.1309 µg/L	2.03117 -3.1309 ppb	2.03117 64.87%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-9.5 -0.1127 µg/L	0.26489 -0.1127 ppb	0.26489 235.11%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	45.7 1.2817 µg/L	0.06548 1.2817 ppb	0.06548 5.11%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 30

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 08:55:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76506.0	76506.0	97.5 %		08:56:22
1	Al 396.153Radial†	7768.7	7998.7	5169.4 µg/L	5169.4 ppb	08:56:22
1	Ca 317.933Radial†	7066.6	7001.8	5045.1 µg/L	5045.1 ppb	08:56:22
1	Fe 238.204 Radial†	401.4	395.4	5247.0 µg/L	5247.0 ppb	08:56:42
1	K 766.490 Radial†	8581.0	8403.7	5301.9 µg/L	5301.9 ppb	08:56:22
1	Mg 279.077 IEC†	511.3	516.4	5302.7 µg/L	5302.7 ppb	08:56:42
1	Na 589.592 Radial†	38079.2	38508.3	10252 µg/L	10252 ppb	08:56:22
1	Sr 421.552†	85893.0	87475.6	523.27 µg/L	523.27 ppb	08:56:22
1	Sc 361.383	1945023.1	1945023.1	98.410 %		08:57:45
1	Y 371.029	1225010.3	1225010.3	98.071 %		08:57:45
1	Ag 328.068†	58796.2	59839.0	544.03 µg/L	544.03 ppb	08:57:51
1	As 188.979†	243.7	250.3	544.59 µg/L	544.59 ppb	08:58:12
1	B 249.677†	11215.7	11027.0	520.45 µg/L	520.45 ppb	08:57:51
1	Ba 233.527†	18908.9	19238.4	538.36 µg/L	538.36 ppb	08:57:51
1	Be 313.107†	782566.2	791378.7	532.26 µg/L	532.26 ppb	08:57:45
1	Cd 226.502†	18416.6	18839.5	533.73 µg/L	533.73 ppb	08:57:51
1	Co 228.616†	9925.9	10135.6	538.55 µg/L	538.55 ppb	08:57:51
1	Cr 267.716†	23714.4	24199.7	542.58 µg/L	542.58 ppb	08:57:51
1	Cu 324.752†	76742.2	74082.4	543.93 µg/L	543.93 ppb	08:57:51
1	Mn 257.610†	148334.2	150879.2	535.28 µg/L	535.28 ppb	08:57:45
1	Mo 202.031†	4412.2	4470.9	541.83 µg/L	541.83 ppb	08:58:12
1	Ni 231.604†	9085.2	8900.6	538.34 µg/L	538.34 ppb	08:57:51
1	P 214.914†	1377.1	1179.5	2666.3 µg/L	2666.3 ppb	08:58:12
1	Pb 220.353†	1970.1	1940.8	544.61 µg/L	544.61 ppb	08:58:12
1	S 181.975 Axial†	215.7	196.1	1090.3 µg/L	1090.3 ppb	08:58:12
1	Sb 206.836†	542.1	526.8	559.51 µg/L	559.51 ppb	08:58:12
1	Se 196.026†	363.5	361.5	563.08 µg/L	563.08 ppb	08:58:12
1	SiO2†	30664.7	28770.8	5874.3 µg/L	5874.3 ppb	08:57:51
1	Si 251.611†	33626.4	33887.4	2745.0 µg/L	2745.0 ppb	08:57:51
1	Sn 189.927†	992.2	984.8	557.72 µg/L	557.72 ppb	08:58:12
1	Ti 334.940†	220872.3	223737.7	540.51 µg/L	540.51 ppb	08:57:45
1	Tl 190.801†	286.7	315.9	530.76 µg/L	530.76 ppb	08:58:12
1	U 409.014†	5472.0	5746.7	533.10 µg/L	533.10 ppb	08:57:51
1	V 292.402†	44196.8	45026.3	548.04 µg/L	548.04 ppb	08:57:51
1	Zn 213.857†	19548.6	19232.3	536.82 µg/L	536.82 ppb	08:57:51
2	Sc RADIAL	76962.6	76962.6	98.1 %		08:56:47
2	Al 396.153Radial†	7820.8	8004.6	5173.3 µg/L	5173.3 ppb	08:56:47
2	Ca 317.933Radial†	7127.1	7020.5	5058.6 µg/L	5058.6 ppb	08:56:47
2	Fe 238.204 Radial†	399.3	390.9	5187.3 µg/L	5187.3 ppb	08:57:08
2	K 766.490 Radial†	8661.9	8434.0	5321.1 µg/L	5321.1 ppb	08:56:47
2	Mg 279.077 IEC†	513.9	515.9	5298.0 µg/L	5298.0 ppb	08:57:08
2	Na 589.592 Radial†	38265.3	38466.3	10241 µg/L	10241 ppb	08:56:47
2	Sr 421.552†	86616.9	87691.2	524.56 µg/L	524.56 ppb	08:56:47
2	Sc 361.383	1951518.3	1951518.3	98.738 %		08:58:19
2	Y 371.029	1229223.6	1229223.6	98.408 %		08:58:19
2	Ag 328.068†	58813.3	59657.4	542.38 µg/L	542.38 ppb	08:58:24
2	As 188.979†	243.0	248.8	541.31 µg/L	541.31 ppb	08:58:45
2	B 249.677†	11270.2	11044.2	521.29 µg/L	521.29 ppb	08:58:24
2	Ba 233.527†	18908.5	19174.1	536.56 µg/L	536.56 ppb	08:58:24
2	Be 313.107†	788048.1	794284.0	534.21 µg/L	534.21 ppb	08:58:19
2	Cd 226.502†	18460.5	18821.7	533.23 µg/L	533.23 ppb	08:58:24
2	Co 228.616†	9902.5	10078.3	535.49 µg/L	535.49 ppb	08:58:24
2	Cr 267.716†	23755.4	24161.1	541.71 µg/L	541.71 ppb	08:58:24
2	Cu 324.752†	76858.6	73940.7	542.88 µg/L	542.88 ppb	08:58:24
2	Mn 257.610†	149358.7	151415.1	537.17 µg/L	537.17 ppb	08:58:19
2	Mo 202.031†	4383.5	4426.9	536.50 µg/L	536.50 ppb	08:58:45
2	Ni 231.604†	9112.6	8897.7	538.17 µg/L	538.17 ppb	08:58:24
2	P 214.914†	1373.8	1171.5	2647.9 µg/L	2647.9 ppb	08:58:45
2	Pb 220.353†	1972.5	1936.5	543.39 µg/L	543.39 ppb	08:58:45

2	S 181.975 Axial†	217.1	196.7	1093.6 µg/L	1093.6 ppb	08:58:45
2	Sb 206.836†	526.1	508.8	540.35 µg/L	540.35 ppb	08:58:45
2	Se 196.026†	359.0	355.7	554.18 µg/L	554.18 ppb	08:58:45
2	SiO2†	30732.4	28735.7	5867.1 µg/L	5867.1 ppb	08:58:24
2	Si 251.611†	33713.8	33862.2	2743.0 µg/L	2743.0 ppb	08:58:24
2	Sn 189.927†	984.5	973.7	551.43 µg/L	551.43 ppb	08:58:45
2	Ti 334.940†	222228.4	224364.2	542.02 µg/L	542.02 ppb	08:58:19
2	Tl 190.801†	292.6	320.9	539.19 µg/L	539.19 ppb	08:58:45
2	U 409.014†	5640.6	5898.9	547.25 µg/L	547.25 ppb	08:58:24
2	V 292.402†	44268.1	44949.1	547.08 µg/L	547.08 ppb	08:58:24
2	Zn 213.857†	19560.1	19177.8	535.29 µg/L	535.29 ppb	08:58:24
3	Sc RADIAL	76396.7	76396.7	97.3 %		08:57:13
3	Al 396.153Radial†	7832.6	8075.7	5221.1 µg/L	5221.1 ppb	08:57:13
3	Ca 317.933Radial†	7085.9	7032.0	5066.9 µg/L	5066.9 ppb	08:57:13
3	Fe 238.204 Radial†	400.7	395.3	5244.5 µg/L	5244.5 ppb	08:57:34
3	K 766.490 Radial†	8558.3	8393.0	5295.2 µg/L	5295.2 ppb	08:57:13
3	Mg 279.077 IEC†	511.2	516.9	5307.2 µg/L	5307.2 ppb	08:57:34
3	Na 589.592 Radial†	38078.1	38563.1	10267 µg/L	10267 ppb	08:57:13
3	Sr 421.552†	85973.7	87684.7	524.52 µg/L	524.52 ppb	08:57:13
3	Sc 361.383	1947793.1	1947793.1	98.550 %		08:58:52
3	Y 371.029	1227119.7	1227119.7	98.240 %		08:58:52
3	Ag 328.068†	55817.9	56731.9	515.63 µg/L	515.63 ppb	08:58:58
3	As 188.979†	208.5	214.3	466.30 µg/L	466.30 ppb	08:59:18
3	B 249.677†	10597.4	10383.4	489.87 µg/L	489.87 ppb	08:58:58
3	Ba 233.527†	17377.2	17656.8	494.09 µg/L	494.09 ppb	08:58:58
3	Be 313.107†	744793.0	751918.8	505.72 µg/L	505.72 ppb	08:58:52
3	Cd 226.502†	16843.3	17216.5	487.70 µg/L	487.70 ppb	08:58:58
3	Co 228.616†	9017.5	9199.6	488.73 µg/L	488.73 ppb	08:58:58
3	Cr 267.716†	21067.9	21480.1	481.60 µg/L	481.60 ppb	08:58:58
3	Cu 324.752†	70336.4	67471.5	495.45 µg/L	495.45 ppb	08:58:58
3	Mn 257.610†	141473.6	143703.3	509.85 µg/L	509.85 ppb	08:58:52
3	Mo 202.031†	3705.8	3747.7	454.22 µg/L	454.22 ppb	08:59:18
3	Ni 231.604†	8275.7	8066.1	487.87 µg/L	487.87 ppb	08:58:58
3	P 214.914†	1215.4	1013.5	2287.3 µg/L	2287.3 ppb	08:59:18
3	Pb 220.353†	1729.7	1694.0	475.28 µg/L	475.28 ppb	08:59:18
3	S 181.975 Axial†	197.5	177.3	985.45 µg/L	985.45 ppb	08:59:18
3	Sb 206.836†	462.6	445.4	472.62 µg/L	472.62 ppb	08:59:18
3	Se 196.026†	326.6	323.4	505.91 µg/L	505.91 ppb	08:59:18
3	SiO2†	28726.2	26759.5	5463.7 µg/L	5463.7 ppb	08:58:58
3	Si 251.611†	31274.3	31452.1	2547.8 µg/L	2547.8 ppb	08:58:58
3	Sn 189.927†	815.4	803.9	455.77 µg/L	455.77 ppb	08:59:18
3	Ti 334.940†	208831.6	211200.7	510.20 µg/L	510.20 ppb	08:58:52
3	Tl 190.801†	267.1	295.6	496.67 µg/L	496.67 ppb	08:59:18
3	U 409.014†	4964.0	5223.3	484.45 µg/L	484.45 ppb	08:58:58
3	V 292.402†	39901.5	40604.0	493.96 µg/L	493.96 ppb	08:58:58
3	Zn 213.857†	17847.8	17478.1	487.81 µg/L	487.81 ppb	08:58:58

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1948111.5	98.566 %	0.1649			0.17%
Sc RADIAL	76621.8	97.6 %	0.38			0.39%
Y 371.029	1227117.9	98.239 %	0.1687			0.17%
Ag 328.068†	58742.8	534.01 µg/L	15.940	534.01 ppb	15.940	2.98%
QC value within limits for Ag 328.068 Recovery = 106.80%						
Al 396.153Radial†	8026.3	5187.9 µg/L	28.77	5187.9 ppb	28.77	0.55%
QC value within limits for Al 396.153Radial Recovery = 103.76%						
As 188.979†	237.8	517.40 µg/L	44.287	517.40 ppb	44.287	8.56%
QC value within limits for As 188.979 Recovery = 103.48%						
B 249.677†	10818.2	510.54 µg/L	17.906	510.54 ppb	17.906	3.51%
QC value within limits for B 249.677 Recovery = 102.11%						
Ba 233.527†	18689.8	523.00 µg/L	25.058	523.00 ppb	25.058	4.79%
QC value within limits for Ba 233.527 Recovery = 104.60%						
Be 313.107†	779193.9	524.06 µg/L	15.916	524.06 ppb	15.916	3.04%
QC value within limits for Be 313.107 Recovery = 104.81%						
Ca 317.933Radial†	7018.1	5056.9 µg/L	10.95	5056.9 ppb	10.95	0.22%
QC value within limits for Ca 317.933Radial Recovery = 101.14%						
Cd 226.502†	18292.5	518.22 µg/L	26.436	518.22 ppb	26.436	5.10%
QC value within limits for Cd 226.502 Recovery = 103.64%						
Co 228.616†	9804.5	520.92 µg/L	27.919	520.92 ppb	27.919	5.36%

QC value within limits for Co 228.616 Recovery = 104.18%							
Cr 267.716†	23280.3	521.96 µg/L	34.955	521.96 ppb	34.955	6.70%	
QC value within limits for Cr 267.716 Recovery = 104.39%							
Cu 324.752†	71831.5	527.42 µg/L	27.689	527.42 ppb	27.689	5.25%	
QC value within limits for Cu 324.752 Recovery = 105.48%							
Fe 238.204 Radial†	393.8	5226.3 µg/L	33.75	5226.3 ppb	33.75	0.65%	
QC value within limits for Fe 238.204 Radial Recovery = 104.53%							
K 766.490 Radial†	8410.2	5306.1 µg/L	13.42	5306.1 ppb	13.42	0.25%	
QC value within limits for K 766.490 Radial Recovery = 106.12%							
Mg 279.077 IEC†	516.4	5302.6 µg/L	4.60	5302.6 ppb	4.60	0.09%	
QC value within limits for Mg 279.077 IEC Recovery = 106.05%							
Mn 257.610†	148665.8	527.43 µg/L	15.261	527.43 ppb	15.261	2.89%	
QC value within limits for Mn 257.610 Recovery = 105.49%							
Mo 202.031†	4215.2	510.85 µg/L	49.115	510.85 ppb	49.115	9.61%	
QC value within limits for Mo 202.031 Recovery = 102.17%							
Na 589.592 Radial†	38512.5	10253 µg/L	12.9	10253 ppb	12.9	0.13%	
QC value within limits for Na 589.592 Radial Recovery = 102.53%							
Ni 231.604†	8621.4	521.46 µg/L	29.089	521.46 ppb	29.089	5.58%	
QC value within limits for Ni 231.604 Recovery = 104.29%							
P 214.914†	1121.5	2533.9 µg/L	213.72	2533.9 ppb	213.72	8.43%	
QC value within limits for P 214.914 Recovery = 101.35%							
Pb 220.353†	1857.1	521.09 µg/L	39.681	521.09 ppb	39.681	7.62%	
QC value within limits for Pb 220.353 Recovery = 104.22%							
S 181.975 Axial†	190.0	1056.4 µg/L	61.50	1056.4 ppb	61.50	5.82%	
QC value within limits for S 181.975 Axial Recovery = 105.64%							
Sb 206.836†	493.7	524.16 µg/L	45.648	524.16 ppb	45.648	8.71%	
QC value within limits for Sb 206.836 Recovery = 104.83%							
Se 196.026†	346.9	541.06 µg/L	30.761	541.06 ppb	30.761	5.69%	
QC value within limits for Se 196.026 Recovery = 108.21%							
SiO2†	28088.7	5735.0 µg/L	235.05	5735.0 ppb	235.05	4.10%	
QC value within limits for SiO2 Recovery = 107.25%							
Si 251.611†	33067.2	2678.6 µg/L	113.31	2678.6 ppb	113.31	4.23%	
QC value within limits for Si 251.611 Recovery = 107.14%							
Sn 189.927†	920.8	521.64 µg/L	57.132	521.64 ppb	57.132	10.95%	
QC value within limits for Sn 189.927 Recovery = 104.33%							
Sr 421.552†	87617.2	524.12 µg/L	0.734	524.12 ppb	0.734	0.14%	
QC value within limits for Sr 421.552 Recovery = 104.82%							
Ti 334.940†	219767.5	530.91 µg/L	17.951	530.91 ppb	17.951	3.38%	
QC value within limits for Ti 334.940 Recovery = 106.18%							
Tl 190.801†	310.8	522.20 µg/L	22.514	522.20 ppb	22.514	4.31%	
QC value within limits for Tl 190.801 Recovery = 104.44%							
U 409.014†	5622.9	521.60 µg/L	32.941	521.60 ppb	32.941	6.32%	
QC value within limits for U 409.014 Recovery = 104.32%							
V 292.402†	43526.5	529.69 µg/L	30.948	529.69 ppb	30.948	5.84%	
QC value within limits for V 292.402 Recovery = 105.94%							
Zn 213.857†	18629.4	519.97 µg/L	27.865	519.97 ppb	27.865	5.36%	
QC value within limits for Zn 213.857 Recovery = 103.99%							
All analyte(s) passed QC.							

Sequence No.: 31

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 08:59:27

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	74525.6	74525.6	95.0 %		09:00:00
1	Al 396.153Radial†	-8.0	21.1	13.675 µg/L	13.675 ppb	09:00:00
1	Ca 317.933Radial†	256.3	22.7	16.338 µg/L	16.338 ppb	09:00:20
1	Fe 238.204 Radial†	17.7	2.3	30.394 µg/L	30.394 ppb	09:00:20
1	K 766.490 Radial†	393.1	15.2	9.6105 µg/L	9.6105 ppb	09:00:00
1	Mg 279.077 IEC†	8.9	1.3	12.804 µg/L	12.804 ppb	09:00:20
1	Na 589.592 Radial†	338.1	-197.7	-52.626 µg/L	-52.626 ppb	09:00:00
1	Sr 421.552†	634.3	33.9	0.2031 µg/L	0.2031 ppb	09:00:00
1	Sc 361.383	1930152.3	1930152.3	97.657 %		09:01:22
1	Y 371.029	1221367.3	1221367.3	97.779 %		09:01:22
1	Ag 328.068†	-97.9	-7.6	-0.0657 µg/L	-0.0657 ppb	09:01:28
1	As 188.979†	-3.8	-1.2	-2.6515 µg/L	-2.6515 ppb	09:01:49
1	B 249.677†	197.8	-167.4	-7.9458 µg/L	-7.9458 ppb	09:01:49
1	Ba 233.527†	-12.5	11.2	0.3133 µg/L	0.3133 ppb	09:01:49
1	Be 313.107†	3906.3	166.2	0.1117 µg/L	0.1117 ppb	09:01:28
1	Cd 226.502†	-120.4	2.0	0.0546 µg/L	0.0546 ppb	09:01:49
1	Co 228.616†	-45.8	2.4	0.1281 µg/L	0.1281 ppb	09:01:49
1	Cr 267.716†	-71.0	29.5	0.6608 µg/L	0.6608 ppb	09:01:28
1	Cu 324.752†	3869.7	62.5	0.4627 µg/L	0.4627 ppb	09:01:28
1	Mn 257.610†	-82.1	63.7	0.2295 µg/L	0.2295 ppb	09:01:49
1	Mo 202.031†	12.6	0.3	0.0376 µg/L	0.0376 ppb	09:01:49
1	Ni 231.604†	333.6	10.2	0.6200 µg/L	0.6200 ppb	09:01:49
1	P 214.914†	213.5	-1.2	-2.7762 µg/L	-2.7762 ppb	09:01:49
1	Pb 220.353†	60.7	1.0	0.2895 µg/L	0.2895 ppb	09:01:49
1	S 181.975 Axial†	19.8	-2.8	-15.752 µg/L	-15.752 ppb	09:01:49
1	Sb 206.836†	26.8	3.5	3.6534 µg/L	3.6534 ppb	09:01:49
1	Se 196.026†	7.8	0.0	0.1301 µg/L	0.1301 ppb	09:01:49
1	SiO2†	2377.5	45.1	9.2043 µg/L	9.2043 ppb	09:01:28
1	Si 251.611†	309.4	34.4	2.7867 µg/L	2.7867 ppb	09:01:49
1	Sn 189.927†	23.8	0.9	0.5310 µg/L	0.5310 ppb	09:01:49
1	Ti 334.940†	824.1	140.0	0.3376 µg/L	0.3376 ppb	09:01:28
1	Tl 190.801†	-27.0	-3.1	-5.1380 µg/L	-5.1380 ppb	09:01:49
1	U 409.014†	-223.8	-43.0	-3.9986 µg/L	-3.9986 ppb	09:01:28
1	V 292.402†	-95.6	17.4	0.2084 µg/L	0.2084 ppb	09:01:28
1	Zn 213.857†	657.1	40.6	1.1366 µg/L	1.1366 ppb	09:01:49
2	Sc RADIAL	75147.2	75147.2	95.8 %		09:00:26
2	Al 396.153Radial†	17.0	47.3	30.596 µg/L	30.596 ppb	09:00:26
2	Ca 317.933Radial†	268.2	32.9	23.729 µg/L	23.729 ppb	09:00:46
2	Fe 238.204 Radial†	17.3	1.7	22.681 µg/L	22.681 ppb	09:00:46
2	K 766.490 Radial†	405.7	25.0	15.769 µg/L	15.769 ppb	09:00:26
2	Mg 279.077 IEC†	7.9	0.1	1.3434 µg/L	1.3434 ppb	09:00:46
2	Na 589.592 Radial†	355.2	-182.8	-48.659 µg/L	-48.659 ppb	09:00:26
2	Sr 421.552†	640.6	35.0	0.2094 µg/L	0.2094 ppb	09:00:26
2	Sc 361.383	1922141.8	1922141.8	97.252 %		09:01:55
2	Y 371.029	1216343.9	1216343.9	97.377 %		09:01:55
2	Ag 328.068†	-47.8	43.4	0.3937 µg/L	0.3937 ppb	09:02:00
2	As 188.979†	-1.8	0.8	1.8301 µg/L	1.8301 ppb	09:02:21
2	B 249.677†	200.4	-163.9	-7.7756 µg/L	-7.7756 ppb	09:02:21
2	Ba 233.527†	-24.7	-1.4	-0.0390 µg/L	-0.0390 ppb	09:02:21
2	Be 313.107†	3943.2	220.8	0.1485 µg/L	0.1485 ppb	09:02:00
2	Cd 226.502†	-123.3	-1.5	-0.0455 µg/L	-0.0455 ppb	09:02:21
2	Co 228.616†	-42.6	5.5	0.2944 µg/L	0.2944 ppb	09:02:21
2	Cr 267.716†	-75.8	24.2	0.5414 µg/L	0.5414 ppb	09:02:00
2	Cu 324.752†	3857.1	66.1	0.4879 µg/L	0.4879 ppb	09:02:00
2	Mn 257.610†	-89.8	55.5	0.1996 µg/L	0.1996 ppb	09:02:21
2	Mo 202.031†	16.3	4.1	0.5020 µg/L	0.5020 ppb	09:02:21
2	Ni 231.604†	331.8	9.7	0.5888 µg/L	0.5888 ppb	09:02:21
2	P 214.914†	221.3	7.7	17.750 µg/L	17.750 ppb	09:02:21
2	Pb 220.353†	71.7	12.5	3.5236 µg/L	3.5236 ppb	09:02:21

2	S 181.975 Axial†	21.4	-1.1	-6.1056 µg/L	-6.1056 ppb	09:02:21
2	Sb 206.836†	18.3	-5.2	-5.4984 µg/L	-5.4984 ppb	09:02:21
2	Se 196.026†	7.1	-0.6	-0.8601 µg/L	-0.8601 ppb	09:02:21
2	SiO2†	2359.9	37.2	7.5956 µg/L	7.5956 ppb	09:02:00
2	Si 251.611†	324.6	51.3	4.1574 µg/L	4.1574 ppb	09:02:21
2	Sn 189.927†	22.4	-0.4	-0.2405 µg/L	-0.2405 ppb	09:02:21
2	Ti 334.940†	781.1	99.3	0.2402 µg/L	0.2402 ppb	09:02:00
2	Tl 190.801†	-16.8	7.3	12.102 µg/L	12.102 ppb	09:02:21
2	U 409.014†	-256.1	-77.1	-7.1706 µg/L	-7.1706 ppb	09:02:00
2	V 292.402†	-108.8	3.5	0.0406 µg/L	0.0406 ppb	09:02:00
2	Zn 213.857†	651.8	38.0	1.0622 µg/L	1.0622 ppb	09:02:21
3	Sc RADIAL	74848.0	74848.0	95.4 %		09:00:52
3	Al 396.153Radial†	-39.8	-12.2	-7.9072 µg/L	-7.9072 ppb	09:00:52
3	Ca 317.933Radial†	265.0	30.7	22.095 µg/L	22.095 ppb	09:01:12
3	Fe 238.204 Radial†	19.5	4.1	54.252 µg/L	54.252 ppb	09:01:12
3	K 766.490 Radial†	381.2	1.0	0.6230 µg/L	0.6230 ppb	09:00:52
3	Mg 279.077 IEC†	12.4	4.8	49.151 µg/L	49.151 ppb	09:01:12
3	Na 589.592 Radial†	386.6	-148.3	-39.485 µg/L	-39.485 ppb	09:00:52
3	Sr 421.552†	653.4	51.1	0.3055 µg/L	0.3055 ppb	09:00:52
3	Sc 361.383	1941523.0	1941523.0	98.233 %		09:02:27
3	Y 371.029	1228880.2	1228880.2	98.380 %		09:02:27
3	Ag 328.068†	-44.4	47.4	0.4321 µg/L	0.4321 ppb	09:02:32
3	As 188.979†	-2.5	0.2	0.4877 µg/L	0.4877 ppb	09:02:53
3	B 249.677†	200.7	-165.7	-7.8740 µg/L	-7.8740 ppb	09:02:53
3	Ba 233.527†	-23.5	-0.0	-0.0002 µg/L	-0.0002 ppb	09:02:53
3	Be 313.107†	3844.0	79.3	0.0533 µg/L	0.0533 ppb	09:02:32
3	Cd 226.502†	-121.4	1.7	0.0432 µg/L	0.0432 ppb	09:02:53
3	Co 228.616†	-49.3	-0.9	-0.0484 µg/L	-0.0484 ppb	09:02:53
3	Cr 267.716†	-75.5	25.3	0.5675 µg/L	0.5675 ppb	09:02:32
3	Cu 324.752†	3883.2	53.1	0.3972 µg/L	0.3972 ppb	09:02:32
3	Mn 257.610†	-89.3	56.9	0.2070 µg/L	0.2070 ppb	09:02:53
3	Mo 202.031†	20.3	8.1	0.9872 µg/L	0.9872 ppb	09:02:53
3	Ni 231.604†	329.1	3.6	0.2175 µg/L	0.2175 ppb	09:02:53
3	P 214.914†	211.8	-4.2	-9.7380 µg/L	-9.7380 ppb	09:02:53
3	Pb 220.353†	55.8	-4.4	-1.2137 µg/L	-1.2137 ppb	09:02:53
3	S 181.975 Axial†	24.4	1.7	9.6767 µg/L	9.6767 ppb	09:02:53
3	Sb 206.836†	26.1	2.6	2.7531 µg/L	2.7531 ppb	09:02:53
3	Se 196.026†	3.4	-4.4	-6.4727 µg/L	-6.4727 ppb	09:02:53
3	SiO2†	2345.6	-1.6	-0.3292 µg/L	-0.3292 ppb	09:02:32
3	Si 251.611†	327.9	51.3	4.1591 µg/L	4.1591 ppb	09:02:53
3	Sn 189.927†	23.8	0.7	0.4395 µg/L	0.4395 ppb	09:02:53
3	Ti 334.940†	782.0	92.2	0.2193 µg/L	0.2193 ppb	09:02:32
3	Tl 190.801†	-22.0	2.2	3.6142 µg/L	3.6142 ppb	09:02:53
3	U 409.014†	-280.4	-99.2	-9.2323 µg/L	-9.2323 ppb	09:02:32
3	V 292.402†	-108.1	5.2	0.0652 µg/L	0.0652 ppb	09:02:32
3	Zn 213.857†	657.7	37.2	1.0397 µg/L	1.0397 ppb	09:02:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1931272.4	97.714 %	0.4928			0.50%
Sc RADIAL	74840.3	95.4 %	0.40			0.42%
Y 371.029	1222197.1	97.845 %	0.5051			0.52%
Ag 328.068†	27.7	0.2534 µg/L	0.27695	0.2534 ppb	0.27695	109.31%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	18.7	12.121 µg/L	19.2985	12.121 ppb	19.2985	159.21%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.1	-0.1112 µg/L	2.30008	-0.1112 ppb	2.30008	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-165.7	-7.8652 µg/L	0.08546	-7.8652 ppb	0.08546	1.09%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.3	0.0914 µg/L	0.19318	0.0914 ppb	0.19318	211.36%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	155.5	0.1045 µg/L	0.04801	0.1045 ppb	0.04801	45.94%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	28.8	20.721 µg/L	3.8827	20.721 ppb	3.8827	18.74%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	0.7	0.0174 µg/L	0.05482	0.0174 ppb	0.05482	314.37%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.3	0.1247 µg/L	0.17141	0.1247 ppb	0.17141	137.46%

QC value within limits for Co 228.616	Recovery = Not calculated			
Cr 267.716†	26.3	0.5899 µg/L	0.06279	0.5899 ppb
QC value within limits for Cr 267.716	Recovery = Not calculated			
Cu 324.752†	60.6	0.4492 µg/L	0.04679	0.4492 ppb
QC value within limits for Cu 324.752	Recovery = Not calculated			
Fe 238.204 Radial†	2.7	35.776 µg/L	16.4591	35.776 ppb
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
K 766.490 Radial†	13.7	8.6676 µg/L	7.61701	8.6676 ppb
QC value within limits for K 766.490 Radial	Recovery = Not calculated			
Mg 279.077 IEC†	2.1	21.099 µg/L	24.9600	21.099 ppb
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
Mn 257.610†	58.7	0.2120 µg/L	0.01557	0.2120 ppb
QC value within limits for Mn 257.610	Recovery = Not calculated			
Mo 202.031†	4.2	0.5090 µg/L	0.47487	0.5090 ppb
QC value within limits for Mo 202.031	Recovery = Not calculated			
Na 589.592 Radial†	-176.2	-46.923 µg/L	6.7402	-46.923 ppb
QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
Ni 231.604†	7.8	0.4754 µg/L	0.22392	0.4754 ppb
QC value within limits for Ni 231.604	Recovery = Not calculated			
P 214.914†	0.8	1.7454 µg/L	14.29113	1.7454 ppb
QC value within limits for P 214.914	Recovery = Not calculated			
Pb 220.353†	3.1	0.8665 µg/L	2.42078	0.8665 ppb
QC value within limits for Pb 220.353	Recovery = Not calculated			
S 181.975 Axial†	-0.7	-4.0603 µg/L	12.83710	-4.0603 ppb
QC value within limits for S 181.975 Axial	Recovery = Not calculated			
Sb 206.836†	0.3	0.3027 µg/L	5.04404	0.3027 ppb
QC value within limits for Sb 206.836	Recovery = Not calculated			
Se 196.026†	-1.7	-2.4009 µg/L	3.56087	-2.4009 ppb
QC value within limits for Se 196.026	Recovery = Not calculated			
SiO2†	26.9	5.4903 µg/L	5.10355	5.4903 ppb
QC value within limits for SiO2	Recovery = Not calculated			
Si 251.611†	45.7	3.7011 µg/L	0.79188	3.7011 ppb
QC value within limits for Si 251.611	Recovery = Not calculated			
Sn 189.927†	0.4	0.2433 µg/L	0.42150	0.2433 ppb
QC value within limits for Sn 189.927	Recovery = Not calculated			
Sr 421.552†	40.0	0.2393 µg/L	0.05738	0.2393 ppb
QC value within limits for Sr 421.552	Recovery = Not calculated			
Ti 334.940†	110.5	0.2657 µg/L	0.06311	0.2657 ppb
QC value within limits for Ti 334.940	Recovery = Not calculated			
Tl 190.801†	2.1	3.5261 µg/L	8.62036	3.5261 ppb
QC value within limits for Tl 190.801	Recovery = Not calculated			
U 409.014†	-73.1	-6.8005 µg/L	2.63641	-6.8005 ppb
QC value within limits for U 409.014	Recovery = Not calculated			
V 292.402†	8.7	0.1047 µg/L	0.09063	0.1047 ppb
QC value within limits for V 292.402	Recovery = Not calculated			
Zn 213.857†	38.6	1.0795 µg/L	0.05067	1.0795 ppb
QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

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Analysis Begun

Start Time: 1/29/2010 09:14:22

Plasma On Time: 1/25/2010 05:31:26

Logged In Analyst: optima

Technique: ICP Continuous

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

Sample Information File: C:\pe\optimal\Sample Information\012910.sif

Batch ID:

Results Data Set: 012910

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

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/29/2010 09:14:24

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	77859.5	77859.5	99.2 %		09:15:02
1	Al 396.153Radial†	7651.7	7742.2	5003.4 µg/L	5003.4 ppb	09:15:02
1	Ca 317.933Radial†	6976.5	6785.0	4888.9 µg/L	4888.9 ppb	09:15:02
1	Fe 238.204 Radial†	396.4	383.2	5086.1 µg/L	5086.1 ppb	09:15:22
1	K 766.490 Radial†	8438.2	8106.8	5114.6 µg/L	5114.6 ppb	09:15:02
1	Mg 279.077 IEC†	500.7	496.6	5099.8 µg/L	5099.8 ppb	09:15:22
1	Na 589.592 Radial†	36953.4	36694.4	9769.3 µg/L	9769.3 ppb	09:15:02
1	Sr 421.552†	83842.1	83876.7	501.74 µg/L	501.74 ppb	09:15:02
1	Sc 361.383	1957567.7	1957567.7	99.044 %		09:16:26
1	Y 371.029	1232943.9	1232943.9	98.706 %		09:16:26
1	Ag 328.068†	58517.9	59175.1	538.00 µg/L	538.00 ppb	09:16:32
1	As 188.979†	243.6	248.7	541.08 µg/L	541.08 ppb	09:16:52
1	B 249.677†	11232.9	10971.4	517.89 µg/L	517.89 ppb	09:16:32
1	Ba 233.527†	18934.5	19141.1	535.64 µg/L	535.64 ppb	09:16:32
1	Be 313.107†	780906.2	784606.8	527.71 µg/L	527.71 ppb	09:16:26
1	Cd 226.502†	18541.2	18845.4	533.92 µg/L	533.92 ppb	09:16:32
1	Co 228.616†	9947.0	10092.2	536.25 µg/L	536.25 ppb	09:16:32
1	Cr 267.716†	23746.6	24077.8	539.84 µg/L	539.84 ppb	09:16:32
1	Cu 324.752†	76226.4	73061.9	536.42 µg/L	536.42 ppb	09:16:32
1	Mn 257.610†	147702.7	149275.6	529.59 µg/L	529.59 ppb	09:16:26
1	Mo 202.031†	4386.4	4416.2	535.19 µg/L	535.19 ppb	09:16:52
1	Ni 231.604†	9150.5	8907.4	538.76 µg/L	538.76 ppb	09:16:32
1	P 214.914†	1389.0	1182.5	2674.1 µg/L	2674.1 ppb	09:16:52
1	Pb 220.353†	1968.3	1926.1	540.49 µg/L	540.49 ppb	09:16:52
1	S 181.975 Axial†	218.8	197.7	1099.4 µg/L	1099.4 ppb	09:16:52
1	Sb 206.836†	531.5	512.6	544.35 µg/L	544.35 ppb	09:16:52
1	Se 196.026†	362.7	358.2	557.65 µg/L	557.65 ppb	09:16:52
1	SiO2†	30595.5	28501.3	5819.3 µg/L	5819.3 ppb	09:16:32
1	Si 251.611†	33554.3	33595.6	2721.4 µg/L	2721.4 ppb	09:16:32
1	Sn 189.927†	1000.3	986.4	558.55 µg/L	558.55 ppb	09:16:52
1	Ti 334.940†	218829.2	220236.6	532.06 µg/L	532.06 ppb	09:16:26
1	Tl 190.801†	291.9	319.2	536.21 µg/L	536.21 ppb	09:16:52
1	U 409.014†	5435.4	5674.0	526.38 µg/L	526.38 ppb	09:16:32
1	V 292.402†	44179.8	44721.4	544.29 µg/L	544.29 ppb	09:16:32
1	Zn 213.857†	19617.2	19174.2	535.21 µg/L	535.21 ppb	09:16:32
2	Sc RADIAL	77571.7	77571.7	98.8 %		09:15:28
2	Al 396.153Radial†	7695.5	7815.2	5050.7 µg/L	5050.7 ppb	09:15:28
2	Ca 317.933Radial†	7060.3	6895.8	4968.7 µg/L	4968.7 ppb	09:15:28
2	Fe 238.204 Radial†	396.3	384.6	5104.3 µg/L	5104.3 ppb	09:15:48
2	K 766.490 Radial†	8521.6	8222.7	5187.8 µg/L	5187.8 ppb	09:15:28
2	Mg 279.077 IEC†	504.5	502.3	5158.2 µg/L	5158.2 ppb	09:15:48
2	Na 589.592 Radial†	37572.9	37459.4	9973.0 µg/L	9973.0 ppb	09:15:28
2	Sr 421.552†	85219.5	85583.8	511.95 µg/L	511.95 ppb	09:15:28
2	Sc 361.383	1949683.7	1949683.7	98.645 %		09:16:59
2	Y 371.029	1227951.6	1227951.6	98.306 %		09:16:59
2	Ag 328.068†	58637.6	59535.4	541.27 µg/L	541.27 ppb	09:17:05
2	As 188.979†	242.6	248.7	541.05 µg/L	541.05 ppb	09:17:25

2	B 249.677†	11221.8	11005.9	519.52 µg/L	519.52 ppb	09:17:05
2	Ba 233.527†	18938.4	19222.4	537.91 µg/L	537.91 ppb	09:17:05
2	Be 313.107†	779763.3	786636.4	529.07 µg/L	529.07 ppb	09:16:59
2	Cd 226.502†	18645.6	19026.9	539.06 µg/L	539.06 ppb	09:17:05
2	Co 228.616†	9970.9	10157.2	539.70 µg/L	539.70 ppb	09:17:05
2	Cr 267.716†	23743.6	24171.8	541.95 µg/L	541.95 ppb	09:17:05
2	Cu 324.752†	76354.4	73502.8	539.66 µg/L	539.66 ppb	09:17:05
2	Mn 257.610†	147491.9	149664.9	530.97 µg/L	530.97 ppb	09:16:59
2	Mo 202.031†	4331.1	4378.0	530.56 µg/L	530.56 ppb	09:17:25
2	Ni 231.604†	9139.3	8933.4	540.32 µg/L	540.32 ppb	09:17:05
2	P 214.914†	1381.8	1180.9	2669.9 µg/L	2669.9 ppb	09:17:25
2	Pb 220.353†	1966.5	1932.4	542.22 µg/L	542.22 ppb	09:17:25
2	S 181.975 Axial†	215.3	195.1	1084.9 µg/L	1084.9 ppb	09:17:25
2	Sb 206.836†	527.9	511.1	542.69 µg/L	542.69 ppb	09:17:25
2	Se 196.026†	362.5	359.6	559.74 µg/L	559.74 ppb	09:17:25
2	SiO2†	30658.0	28689.6	5857.7 µg/L	5857.7 ppb	09:17:05
2	Si 251.611†	33563.3	33741.8	2733.2 µg/L	2733.2 ppb	09:17:05
2	Sn 189.927†	984.3	974.3	551.77 µg/L	551.77 ppb	09:17:25
2	Ti 334.940†	218287.1	220580.5	532.89 µg/L	532.89 ppb	09:16:59
2	Tl 190.801†	286.7	315.2	529.53 µg/L	529.53 ppb	09:17:25
2	U 409.014†	5496.1	5757.8	534.16 µg/L	534.16 ppb	09:17:05
2	V 292.402†	44260.1	44983.2	547.42 µg/L	547.42 ppb	09:17:05
2	Zn 213.857†	19663.3	19301.0	538.76 µg/L	538.76 ppb	09:17:05
3	Sc RADIAL	77311.9	77311.9	98.5 %		09:15:54
3	Al 396.153Radial†	7651.8	7796.9	5040.6 µg/L	5040.6 ppb	09:15:54
3	Ca 317.933Radial†	7055.7	6915.1	4982.7 µg/L	4982.7 ppb	09:15:54
3	Fe 238.204 Radial†	393.2	382.8	5078.8 µg/L	5078.8 ppb	09:16:14
3	K 766.490 Radial†	8415.2	8143.7	5137.9 µg/L	5137.9 ppb	09:15:54
3	Mg 279.077 IEC†	501.9	501.4	5147.4 µg/L	5147.4 ppb	09:16:14
3	Na 589.592 Radial†	37422.6	37434.5	9966.4 µg/L	9966.4 ppb	09:15:54
3	Sr 421.552†	85023.8	85674.9	512.50 µg/L	512.50 ppb	09:15:54
3	Sc 361.383	1955609.9	1955609.9	98.945 %		09:17:32
3	Y 371.029	1231308.7	1231308.7	98.575 %		09:17:32
3	Ag 328.068†	55359.3	56042.0	509.35 µg/L	509.35 ppb	09:17:38
3	As 188.979†	204.7	209.6	455.99 µg/L	455.99 ppb	09:17:59
3	B 249.677†	10523.4	10265.6	484.37 µg/L	484.37 ppb	09:17:38
3	Ba 233.527†	17269.6	17477.6	489.07 µg/L	489.07 ppb	09:17:38
3	Be 313.107†	737490.4	741517.5	498.73 µg/L	498.73 ppb	09:17:32
3	Cd 226.502†	16909.0	17214.6	487.65 µg/L	487.65 ppb	09:17:38
3	Co 228.616†	9010.4	9155.7	486.42 µg/L	486.42 ppb	09:17:38
3	Cr 267.716†	20898.5	21223.4	475.85 µg/L	475.85 ppb	09:17:38
3	Cu 324.752†	69484.3	66325.0	487.02 µg/L	487.02 ppb	09:17:38
3	Mn 257.610†	139779.4	141417.2	501.73 µg/L	501.73 ppb	09:17:32
3	Mo 202.031†	3674.4	3701.0	448.55 µg/L	448.55 ppb	09:17:59
3	Ni 231.604†	8193.6	7949.5	480.82 µg/L	480.82 ppb	09:17:38
3	P 214.914†	1206.2	999.2	2255.4 µg/L	2255.4 ppb	09:17:59
3	Pb 220.353†	1714.8	1671.9	469.08 µg/L	469.08 ppb	09:17:59
3	S 181.975 Axial†	197.5	176.5	981.35 µg/L	981.35 ppb	09:17:59
3	Sb 206.836†	453.6	434.4	460.98 µg/L	460.98 ppb	09:17:59
3	Se 196.026†	321.8	317.3	496.12 µg/L	496.12 ppb	09:17:59
3	SiO2†	28497.6	26411.9	5392.7 µg/L	5392.7 ppb	09:17:38
3	Si 251.611†	31013.5	31061.6	2516.1 µg/L	2516.1 ppb	09:17:38
3	Sn 189.927†	818.0	803.2	455.32 µg/L	455.32 ppb	09:17:59
3	Ti 334.940†	205486.4	206972.8	499.99 µg/L	499.99 ppb	09:17:32
3	Tl 190.801†	262.8	290.1	487.49 µg/L	487.49 ppb	09:17:59
3	U 409.014†	4828.9	5066.6	469.91 µg/L	469.91 ppb	09:17:38
3	V 292.402†	39608.8	40146.4	488.37 µg/L	488.37 ppb	09:17:38
3	Zn 213.857†	17771.9	17329.0	483.68 µg/L	483.68 ppb	09:17:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1954287.1	98.878 %	0.2077			0.21%
Sc RADIAL	77581.0	98.9 %	0.35			0.35%
Y 371.029	1230734.7	98.529 %	0.2038			0.21%
Ag 328.068†	58250.8	529.54 µg/L	17.559	529.54 ppb	17.559	3.32%
QC value within limits for Ag 328.068 Recovery = 105.91%						
Al 396.153Radial†	7784.8	5031.6 µg/L	24.92	5031.6 ppb	24.92	0.50%
QC value within limits for Al 396.153Radial Recovery = 100.63%						
As 188.979†	235.7	512.71 µg/L	49.118	512.71 ppb	49.118	9.58%

QC value within limits for As 188.979 Recovery = 102.54%							
B 249.677†	10747.6	507.26 µg/L	19.845	507.26 ppb	19.845	3.91%	
QC value within limits for B 249.677 Recovery = 101.45%							
Ba 233.527†	18613.7	520.87 µg/L	27.565	520.87 ppb	27.565	5.29%	
QC value within limits for Ba 233.527 Recovery = 104.17%							
Be 313.107†	770920.2	518.50 µg/L	17.139	518.50 ppb	17.139	3.31%	
QC value within limits for Be 313.107 Recovery = 103.70%							
Ca 317.933Radial†	6865.3	4946.8 µg/L	50.59	4946.8 ppb	50.59	1.02%	
QC value within limits for Ca 317.933Radial Recovery = 98.94%							
Cd 226.502†	18362.3	520.21 µg/L	28.312	520.21 ppb	28.312	5.44%	
QC value within limits for Cd 226.502 Recovery = 104.04%							
Co 228.616†	9801.7	520.79 µg/L	29.815	520.79 ppb	29.815	5.72%	
QC value within limits for Co 228.616 Recovery = 104.16%							
Cr 267.716†	23157.7	519.21 µg/L	37.569	519.21 ppb	37.569	7.24%	
QC value within limits for Cr 267.716 Recovery = 103.84%							
Cu 324.752†	70963.2	521.03 µg/L	29.498	521.03 ppb	29.498	5.66%	
QC value within limits for Cu 324.752 Recovery = 104.21%							
Fe 238.204 Radial†	383.5	5089.7 µg/L	13.17	5089.7 ppb	13.17	0.26%	
QC value within limits for Fe 238.204 Radial Recovery = 101.79%							
K 766.490 Radial†	8157.8	5146.8 µg/L	37.36	5146.8 ppb	37.36	0.73%	
QC value within limits for K 766.490 Radial Recovery = 102.94%							
Mg 279.077 IEC†	500.1	5135.1 µg/L	31.08	5135.1 ppb	31.08	0.61%	
QC value within limits for Mg 279.077 IEC Recovery = 102.70%							
Mn 257.610†	146785.9	520.76 µg/L	16.496	520.76 ppb	16.496	3.17%	
QC value within limits for Mn 257.610 Recovery = 104.15%							
Mo 202.031†	4165.0	504.77 µg/L	48.740	504.77 ppb	48.740	9.66%	
QC value within limits for Mo 202.031 Recovery = 100.95%							
Na 589.592 Radial†	37196.1	9902.9 µg/L	115.72	9902.9 ppb	115.72	1.17%	
QC value within limits for Na 589.592 Radial Recovery = 99.03%							
Ni 231.604†	8596.8	519.97 µg/L	33.914	519.97 ppb	33.914	6.52%	
QC value within limits for Ni 231.604 Recovery = 103.99%							
P 214.914†	1120.9	2533.2 µg/L	240.55	2533.2 ppb	240.55	9.50%	
QC value within limits for P 214.914 Recovery = 101.33%							
Pb 220.353†	1843.5	517.26 µg/L	41.741	517.26 ppb	41.741	8.07%	
QC value within limits for Pb 220.353 Recovery = 103.45%							
S 181.975 Axial†	189.8	1055.2 µg/L	64.37	1055.2 ppb	64.37	6.10%	
QC value within limits for S 181.975 Axial Recovery = 105.52%							
Sb 206.836†	486.0	516.01 µg/L	47.664	516.01 ppb	47.664	9.24%	
QC value within limits for Sb 206.836 Recovery = 103.20%							
Se 196.026†	345.0	537.83 µg/L	36.145	537.83 ppb	36.145	6.72%	
QC value within limits for Se 196.026 Recovery = 107.57%							
SiO2†	27867.6	5689.9 µg/L	258.11	5689.9 ppb	258.11	4.54%	
QC value within limits for SiO2 Recovery = 106.40%							
Si 251.611†	32799.7	2656.9 µg/L	122.07	2656.9 ppb	122.07	4.59%	
QC value within limits for Si 251.611 Recovery = 106.28%							
Sn 189.927†	921.3	521.88 µg/L	57.745	521.88 ppb	57.745	11.06%	
QC value within limits for Sn 189.927 Recovery = 104.38%							
Sr 421.552†	85045.1	508.73 µg/L	6.059	508.73 ppb	6.059	1.19%	
QC value within limits for Sr 421.552 Recovery = 101.75%							
Ti 334.940†	215930.0	521.65 µg/L	18.756	521.65 ppb	18.756	3.60%	
QC value within limits for Ti 334.940 Recovery = 104.33%							
Tl 190.801†	308.2	517.75 µg/L	26.412	517.75 ppb	26.412	5.10%	
QC value within limits for Tl 190.801 Recovery = 103.55%							
U 409.014†	5499.5	510.15 µg/L	35.061	510.15 ppb	35.061	6.87%	
QC value within limits for U 409.014 Recovery = 102.03%							
V 292.402†	43283.6	526.70 µg/L	33.227	526.70 ppb	33.227	6.31%	
QC value within limits for V 292.402 Recovery = 105.34%							
Zn 213.857†	18601.4	519.22 µg/L	30.829	519.22 ppb	30.829	5.94%	
QC value within limits for Zn 213.857 Recovery = 103.84%							
All analyte(s) passed QC.							

Sequence No.: 2
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 1/29/2010 09:18:08
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76735.2	76735.2	97.8 %		09:18:41
1	Al 396.153Radial†	-33.9	-5.1	-3.3430 µg/L	-3.3430 ppb	09:18:41
1	Ca 317.933Radial†	269.5	28.5	20.516 µg/L	20.516 ppb	09:19:01
1	Fe 238.204 Radial†	18.1	2.1	28.382 µg/L	28.382 ppb	09:19:01
1	K 766.490 Radial†	389.4	-0.5	-0.2912 µg/L	-0.2912 ppb	09:18:41
1	Mg 279.077 IEC†	9.9	2.0	20.200 µg/L	20.200 ppb	09:19:01
1	Na 589.592 Radial†	390.4	-154.4	-41.117 µg/L	-41.117 ppb	09:18:41
1	Sr 421.552†	649.3	30.0	0.1795 µg/L	0.1795 ppb	09:18:41
1	Sc 361.383	1996537.0	1996537.0	101.02 %		09:20:03
1	Y 371.029	1262020.2	1262020.2	101.03 %		09:20:03
1	Ag 328.068†	-113.5	-19.8	-0.1761 µg/L	-0.1761 ppb	09:20:09
1	As 188.979†	-2.2	0.5	1.1857 µg/L	1.1857 ppb	09:20:29
1	B 249.677†	206.9	-165.1	-7.8318 µg/L	-7.8318 ppb	09:20:29
1	Ba 233.527†	-19.3	4.9	0.1364 µg/L	0.1364 ppb	09:20:29
1	Be 313.107†	3873.5	0.8	0.0005 µg/L	0.0005 ppb	09:20:09
1	Cd 226.502†	-126.9	-0.3	-0.0120 µg/L	-0.0120 ppb	09:20:29
1	Co 228.616†	-40.0	9.7	0.5194 µg/L	0.5194 ppb	09:20:29
1	Cr 267.716†	-46.9	55.7	1.2483 µg/L	1.2483 ppb	09:20:09
1	Cu 324.752†	3856.9	-81.8	-0.5960 µg/L	-0.5960 ppb	09:20:09
1	Mn 257.610†	-126.1	23.0	0.0846 µg/L	0.0846 ppb	09:20:29
1	Mo 202.031†	21.8	9.0	1.0924 µg/L	1.0924 ppb	09:20:29
1	Ni 231.604†	338.5	3.7	0.2227 µg/L	0.2227 ppb	09:20:29
1	P 214.914†	216.4	-5.6	-12.791 µg/L	-12.791 ppb	09:20:29
1	Pb 220.353†	50.3	-11.4	-3.1792 µg/L	-3.1792 ppb	09:20:29
1	S 181.975 Axial†	26.1	2.7	15.226 µg/L	15.226 ppb	09:20:29
1	Sb 206.836†	27.0	2.7	2.8469 µg/L	2.8469 ppb	09:20:29
1	Se 196.026†	4.5	-3.5	-5.1464 µg/L	-5.1464 ppb	09:20:29
1	SiO2†	2335.4	-77.5	-15.822 µg/L	-15.822 ppb	09:20:09
1	Si 251.611†	310.6	25.0	2.0285 µg/L	2.0285 ppb	09:20:29
1	Sn 189.927†	26.1	2.4	1.3472 µg/L	1.3472 ppb	09:20:29
1	Ti 334.940†	743.3	32.0	0.0761 µg/L	0.0761 ppb	09:20:09
1	Tl 190.801†	-23.9	0.8	1.3760 µg/L	1.3760 ppb	09:20:29
1	U 409.014†	-217.0	-28.6	-2.6640 µg/L	-2.6640 ppb	09:20:09
1	V 292.402†	-107.5	8.9	0.1168 µg/L	0.1168 ppb	09:20:09
1	Zn 213.857†	655.3	16.5	0.4605 µg/L	0.4605 ppb	09:20:29
2	Sc RADIAL	77394.0	77394.0	98.6 %		09:19:07
2	Al 396.153Radial†	-35.0	-5.9	-3.8725 µg/L	-3.8725 ppb	09:19:07
2	Ca 317.933Radial†	265.7	22.3	16.046 µg/L	16.046 ppb	09:19:27
2	Fe 238.204 Radial†	18.0	1.9	25.744 µg/L	25.744 ppb	09:19:27
2	K 766.490 Radial†	382.5	-10.8	-6.8291 µg/L	-6.8291 ppb	09:19:07
2	Mg 279.077 IEC†	5.2	-2.9	-29.688 µg/L	-29.688 ppb	09:19:27
2	Na 589.592 Radial†	408.1	-139.8	-37.231 µg/L	-37.231 ppb	09:19:07
2	Sr 421.552†	611.3	-14.1	-0.0844 µg/L	-0.0844 ppb	09:19:07
2	Sc 361.383	1995035.2	1995035.2	100.94 %		09:20:35
2	Y 371.029	1261365.6	1261365.6	100.98 %		09:20:35
2	Ag 328.068†	-50.6	42.4	0.3874 µg/L	0.3874 ppb	09:20:41
2	As 188.979†	-4.0	-1.2	-2.7021 µg/L	-2.7021 ppb	09:21:02
2	B 249.677†	200.4	-171.4	-8.1305 µg/L	-8.1305 ppb	09:21:02
2	Ba 233.527†	-26.8	-2.6	-0.0721 µg/L	-0.0721 ppb	09:21:02
2	Be 313.107†	3888.8	18.8	0.0126 µg/L	0.0126 ppb	09:20:41
2	Cd 226.502†	-128.9	-2.4	-0.0706 µg/L	-0.0706 ppb	09:21:02
2	Co 228.616†	-44.7	5.0	0.2681 µg/L	0.2681 ppb	09:21:02
2	Cr 267.716†	-66.8	36.0	0.8067 µg/L	0.8067 ppb	09:20:41
2	Cu 324.752†	3832.7	-103.0	-0.7515 µg/L	-0.7515 ppb	09:20:41
2	Mn 257.610†	-98.4	50.4	0.1831 µg/L	0.1831 ppb	09:21:02
2	Mo 202.031†	20.5	7.8	0.9413 µg/L	0.9413 ppb	09:21:02
2	Ni 231.604†	329.8	-4.7	-0.2851 µg/L	-0.2851 ppb	09:21:02
2	P 214.914†	211.5	-10.3	-23.806 µg/L	-23.806 ppb	09:21:02
2	Pb 220.353†	65.2	3.4	0.9573 µg/L	0.9573 ppb	09:21:02

2	S 181.975 Axial†	28.4	5.0	28.001 µg/L	28.001 ppb	09:21:02
2	Sb 206.836†	26.2	1.9	2.0186 µg/L	2.0186 ppb	09:21:02
2	Se 196.026†	13.3	5.2	7.9756 µg/L	7.9756 ppb	09:21:02
2	SiO2†	2317.4	-93.6	-19.106 µg/L	-19.106 ppb	09:20:41
2	Si 251.611†	296.2	11.0	0.8943 µg/L	0.8943 ppb	09:21:02
2	Sn 189.927†	20.2	-3.4	-1.9178 µg/L	-1.9178 ppb	09:21:02
2	Ti 334.940†	718.9	8.4	0.0228 µg/L	0.0228 ppb	09:20:41
2	Tl 190.801†	-23.1	1.7	2.7911 µg/L	2.7911 ppb	09:21:02
2	U 409.014†	-201.5	-13.4	-1.2479 µg/L	-1.2479 ppb	09:20:41
2	V 292.402†	-80.0	36.1	0.4435 µg/L	0.4435 ppb	09:20:41
2	Zn 213.857†	651.0	12.7	0.3599 µg/L	0.3599 ppb	09:21:02
3	Sc RADIAL	77334.7	77334.7	98.5 %		09:19:33
3	Al 396.153Radial†	-40.8	-11.9	-7.6826 µg/L	-7.6826 ppb	09:19:33
3	Ca 317.933Radial†	268.2	25.0	18.035 µg/L	18.035 ppb	09:19:53
3	Fe 238.204 Radial†	17.0	0.9	12.575 µg/L	12.575 ppb	09:19:53
3	K 766.490 Radial†	391.5	-1.4	-0.9002 µg/L	-0.9002 ppb	09:19:33
3	Mg 279.077 IEC†	14.3	6.3	64.967 µg/L	64.967 ppb	09:19:53
3	Na 589.592 Radial†	378.3	-169.8	-45.209 µg/L	-45.209 ppb	09:19:33
3	Sr 421.552†	663.4	39.2	0.2344 µg/L	0.2344 ppb	09:19:33
3	Sc 361.383	1984901.4	1984901.4	100.43 %		09:21:08
3	Y 371.029	1255339.1	1255339.1	100.50 %		09:21:08
3	Ag 328.068†	-89.0	4.0	0.0390 µg/L	0.0390 ppb	09:21:13
3	As 188.979†	-4.3	-1.5	-3.3782 µg/L	-3.3782 ppb	09:21:34
3	B 249.677†	199.8	-171.0	-8.1038 µg/L	-8.1038 ppb	09:21:34
3	Ba 233.527†	-12.3	11.7	0.3273 µg/L	0.3273 ppb	09:21:34
3	Be 313.107†	3906.7	56.3	0.0378 µg/L	0.0378 ppb	09:21:13
3	Cd 226.502†	-118.6	7.2	0.2019 µg/L	0.2019 ppb	09:21:34
3	Co 228.616†	-48.9	0.6	0.0328 µg/L	0.0328 ppb	09:21:34
3	Cr 267.716†	-93.1	9.5	0.2120 µg/L	0.2120 ppb	09:21:13
3	Cu 324.752†	3818.1	-98.1	-0.7178 µg/L	-0.7178 ppb	09:21:13
3	Mn 257.610†	-96.2	52.0	0.1835 µg/L	0.1835 ppb	09:21:34
3	Mo 202.031†	14.7	2.1	0.2524 µg/L	0.2524 ppb	09:21:34
3	Ni 231.604†	331.9	-0.9	-0.0554 µg/L	-0.0554 ppb	09:21:34
3	P 214.914†	217.2	-3.6	-8.1357 µg/L	-8.1357 ppb	09:21:34
3	Pb 220.353†	59.6	-1.8	-0.5179 µg/L	-0.5179 ppb	09:21:34
3	S 181.975 Axial†	25.1	1.9	10.299 µg/L	10.299 ppb	09:21:34
3	Sb 206.836†	27.2	3.1	3.2903 µg/L	3.2903 ppb	09:21:34
3	Se 196.026†	7.6	-0.4	-0.5974 µg/L	-0.5974 ppb	09:21:34
3	SiO2†	2333.1	-66.2	-13.516 µg/L	-13.516 ppb	09:21:13
3	Si 251.611†	302.9	19.2	1.5580 µg/L	1.5580 ppb	09:21:34
3	Sn 189.927†	24.7	1.1	0.6484 µg/L	0.6484 ppb	09:21:34
3	Ti 334.940†	803.8	96.5	0.2285 µg/L	0.2285 ppb	09:21:13
3	Tl 190.801†	-22.9	1.7	2.8628 µg/L	2.8628 ppb	09:21:34
3	U 409.014†	-181.2	5.8	0.5358 µg/L	0.5358 ppb	09:21:13
3	V 292.402†	-91.0	24.7	0.3005 µg/L	0.3005 ppb	09:21:13
3	Zn 213.857†	645.7	10.7	0.2982 µg/L	0.2982 ppb	09:21:34

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1992157.9	100.79 %	0.320			0.32%
Sc RADIAL	77154.6	98.3 %	0.46			0.47%
Y 371.029	1259575.0	100.84 %	0.295			0.29%
Ag 328.068†	8.9	0.0834 µg/L	0.28438	0.0834 ppb	0.28438	340.92%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.6	-4.9660 µg/L	2.36746	-4.9660 ppb	2.36746	47.67%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.7	-1.6315 µg/L	2.46307	-1.6315 ppb	2.46307	150.97%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-169.1	-8.0221 µg/L	0.16527	-8.0221 ppb	0.16527	2.06%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.7	0.1305 µg/L	0.19979	0.1305 ppb	0.19979	153.05%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	25.3	0.0170 µg/L	0.01904	0.0170 ppb	0.01904	112.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	25.3	18.199 µg/L	2.2398	18.199 ppb	2.2398	12.31%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.5	0.0398 µg/L	0.14343	0.0398 ppb	0.14343	360.66%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.1	0.2735 µg/L	0.24336	0.2735 ppb	0.24336	88.99%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	33.7	0.7557 µg/L	0.52006	0.7557 ppb	0.52006	68.82%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-94.3	-0.6885 µg/L	0.08180	-0.6885 ppb	0.08180	11.88%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.7	22.233 µg/L	8.4679	22.233 ppb	8.4679	38.09%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-4.2	-2.6735 µg/L	3.61174	-2.6735 ppb	3.61174	135.09%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.8	18.493 µg/L	47.3503	18.493 ppb	47.3503	256.04%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	41.8	0.1504 µg/L	0.05698	0.1504 ppb	0.05698	37.88%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	6.3	0.7620 µg/L	0.44782	0.7620 ppb	0.44782	58.77%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-154.7	-41.186 µg/L	3.9896	-41.186 ppb	3.9896	9.69%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-0.6	-0.0393 µg/L	0.25427	-0.0393 ppb	0.25427	647.58%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-6.5	-14.911 µg/L	8.0475	-14.911 ppb	8.0475	53.97%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-3.3	-0.9133 µg/L	2.09641	-0.9133 ppb	2.09641	229.55%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.2	17.842 µg/L	9.1367	17.842 ppb	9.1367	51.21%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.6	2.7186 µg/L	0.64547	2.7186 ppb	0.64547	23.74%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.4	0.7439 µg/L	6.66304	0.7439 ppb	6.66304	895.63%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-79.1	-16.148 µg/L	2.8090	-16.148 ppb	2.8090	17.40%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	18.4	1.4936 µg/L	0.56986	1.4936 ppb	0.56986	38.15%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	0.0	0.0260 µg/L	1.71919	0.0260 ppb	1.71919	>999.9%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	18.4	0.1099 µg/L	0.17042	0.1099 ppb	0.17042	155.12%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	45.6	0.1091 µg/L	0.10677	0.1091 ppb	0.10677	97.83%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.4	2.3433 µg/L	0.83849	2.3433 ppb	0.83849	35.78%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-12.1	-1.1254 µg/L	1.60346	-1.1254 ppb	1.60346	142.48%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	23.2	0.2869 µg/L	0.16373	0.2869 ppb	0.16373	57.06%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	13.3	0.3729 µg/L	0.08194	0.3729 ppb	0.08194	21.98%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 10

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 09:46:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	77219.8	77219.8	98.4 %		09:47:21
1	Al 396.153Radial†	7615.5	7769.4	5021.1 µg/L	5021.1 ppb	09:47:21
1	Ca 317.933Radial†	6926.3	6792.2	4894.1 µg/L	4894.1 ppb	09:47:21
1	Fe 238.204 Radial†	395.2	385.3	5113.6 µg/L	5113.6 ppb	09:47:41
1	K 766.490 Radial†	8404.5	8143.0	5137.5 µg/L	5137.5 ppb	09:47:21
1	Mg 279.077 IEC†	508.3	508.4	5221.5 µg/L	5221.5 ppb	09:47:41
1	Na 589.592 Radial†	37110.6	37162.8	9894.0 µg/L	9894.0 ppb	09:47:21
1	Sr 421.552†	83986.3	84723.4	506.81 µg/L	506.81 ppb	09:47:21
1	Sc 361.383	1958602.0	1958602.0	99.097 %		09:48:45
1	Y 371.029	1233502.2	1233502.2	98.750 %		09:48:45
1	Ag 328.068†	57843.8	58463.6	531.51 µg/L	531.51 ppb	09:48:50
1	As 188.979†	240.2	245.1	533.24 µg/L	533.24 ppb	09:49:11
1	B 249.677†	11029.1	10759.7	507.84 µg/L	507.84 ppb	09:48:50
1	Ba 233.527†	18526.1	18718.9	523.82 µg/L	523.82 ppb	09:48:50
1	Be 313.107†	767379.9	770540.9	518.24 µg/L	518.24 ppb	09:48:45
1	Cd 226.502†	18154.0	18444.8	522.55 µg/L	522.55 ppb	09:48:50
1	Co 228.616†	9769.5	9907.9	526.45 µg/L	526.45 ppb	09:48:50
1	Cr 267.716†	23304.7	23619.2	529.56 µg/L	529.56 ppb	09:48:50
1	Cu 324.752†	75435.0	72222.7	530.27 µg/L	530.27 ppb	09:48:50
1	Mn 257.610†	145345.7	146818.4	520.87 µg/L	520.87 ppb	09:48:45
1	Mo 202.031†	4339.8	4366.8	529.21 µg/L	529.21 ppb	09:49:11
1	Ni 231.604†	8957.7	8708.0	526.69 µg/L	526.69 ppb	09:48:50
1	P 214.914†	1371.0	1163.7	2631.1 µg/L	2631.1 ppb	09:49:11
1	Pb 220.353†	1955.9	1912.6	536.70 µg/L	536.70 ppb	09:49:11
1	S 181.975 Axial†	211.1	189.9	1055.6 µg/L	1055.6 ppb	09:49:11
1	Sb 206.836†	525.5	506.2	537.67 µg/L	537.67 ppb	09:49:11
1	Se 196.026†	364.5	359.8	560.12 µg/L	560.12 ppb	09:49:11
1	SiO2†	30179.5	28065.2	5730.3 µg/L	5730.3 ppb	09:48:50
1	Si 251.611†	33006.0	33024.4	2675.1 µg/L	2675.1 ppb	09:48:50
1	Sn 189.927†	975.5	961.0	544.22 µg/L	544.22 ppb	09:49:11
1	Ti 334.940†	216021.4	217286.5	524.92 µg/L	524.92 ppb	09:48:45
1	Tl 190.801†	292.2	319.4	536.52 µg/L	536.52 ppb	09:49:11
1	U 409.014†	5473.7	5709.8	529.70 µg/L	529.70 ppb	09:48:50
1	V 292.402†	43375.3	43886.0	534.18 µg/L	534.18 ppb	09:48:50
1	Zn 213.857†	19220.0	18762.9	523.71 µg/L	523.71 ppb	09:48:50
2	Sc RADIAL	77850.1	77850.1	99.2 %		09:47:47
2	Al 396.153Radial†	7659.8	7751.4	5009.5 µg/L	5009.5 ppb	09:47:47
2	Ca 317.933Radial†	7014.4	6824.0	4917.0 µg/L	4917.0 ppb	09:47:47
2	Fe 238.204 Radial†	393.1	379.9	5042.0 µg/L	5042.0 ppb	09:48:07
2	K 766.490 Radial†	8401.9	8071.3	5092.2 µg/L	5092.2 ppb	09:47:47
2	Mg 279.077 IEC†	503.1	499.0	5124.4 µg/L	5124.4 ppb	09:48:07
2	Na 589.592 Radial†	37298.5	37046.9	9863.1 µg/L	9863.1 ppb	09:47:47
2	Sr 421.552†	84483.1	84533.2	505.67 µg/L	505.67 ppb	09:47:47
2	Sc 361.383	1968145.7	1968145.7	99.580 %		09:49:18
2	Y 371.029	1239656.3	1239656.3	99.243 %		09:49:18
2	Ag 328.068†	57578.2	57913.8	526.52 µg/L	526.52 ppb	09:49:23
2	As 188.979†	234.9	238.6	519.06 µg/L	519.06 ppb	09:49:44
2	B 249.677†	11000.4	10676.9	503.94 µg/L	503.94 ppb	09:49:23
2	Ba 233.527†	18469.2	18571.1	519.69 µg/L	519.69 ppb	09:49:23
2	Be 313.107†	769401.5	768816.0	517.09 µg/L	517.09 ppb	09:49:18
2	Cd 226.502†	18101.5	18303.2	518.54 µg/L	518.54 ppb	09:49:23
2	Co 228.616†	9729.7	9820.1	521.78 µg/L	521.78 ppb	09:49:23
2	Cr 267.716†	23240.7	23441.0	525.56 µg/L	525.56 ppb	09:49:23
2	Cu 324.752†	75068.3	71485.3	524.86 µg/L	524.86 ppb	09:49:23
2	Mn 257.610†	145595.7	146358.3	519.24 µg/L	519.24 ppb	09:49:18
2	Mo 202.031†	4317.3	4322.9	523.89 µg/L	523.89 ppb	09:49:44
2	Ni 231.604†	8919.1	8625.3	521.69 µg/L	521.69 ppb	09:49:23
2	P 214.914†	1354.7	1140.6	2578.3 µg/L	2578.3 ppb	09:49:44
2	Pb 220.353†	1952.2	1899.3	532.95 µg/L	532.95 ppb	09:49:44

2	S 181.975 Axial†	214.1	191.9	1066.6 µg/L	1066.6 ppb	09:49:44
2	Sb 206.836†	522.5	500.7	531.78 µg/L	531.78 ppb	09:49:44
2	Se 196.026†	350.2	343.7	535.68 µg/L	535.68 ppb	09:49:44
2	SiO2†	30020.3	27757.7	5667.5 µg/L	5667.5 ppb	09:49:23
2	Si 251.611†	32896.1	32752.5	2653.1 µg/L	2653.1 ppb	09:49:23
2	Sn 189.927†	965.6	946.2	535.87 µg/L	535.87 ppb	09:49:44
2	Ti 334.940†	216284.3	216493.5	523.01 µg/L	523.01 ppb	09:49:18
2	Tl 190.801†	290.8	316.6	531.78 µg/L	531.78 ppb	09:49:44
2	U 409.014†	5469.4	5678.7	526.81 µg/L	526.81 ppb	09:49:23
2	V 292.402†	43307.0	43605.1	530.74 µg/L	530.74 ppb	09:49:23
2	Zn 213.857†	19160.5	18609.1	519.42 µg/L	519.42 ppb	09:49:23
3	Sc RADIAL	77304.2	77304.2	98.5 %		09:48:13
3	Al 396.153Radial†	7620.8	7766.2	5020.8 µg/L	5020.8 ppb	09:48:13
3	Ca 317.933Radial†	7025.1	6884.8	4960.8 µg/L	4960.8 ppb	09:48:13
3	Fe 238.204 Radial†	396.7	386.4	5126.6 µg/L	5126.6 ppb	09:48:33
3	K 766.490 Radial†	8469.5	8199.7	5173.2 µg/L	5173.2 ppb	09:48:13
3	Mg 279.077 IEC†	505.6	505.2	5186.5 µg/L	5186.5 ppb	09:48:33
3	Na 589.592 Radial†	37305.7	37319.7	9935.8 µg/L	9935.8 ppb	09:48:13
3	Sr 421.552†	84623.5	85277.0	510.12 µg/L	510.12 ppb	09:48:13
3	Sc 361.383	1964006.1	1964006.1	99.370 %		09:49:51
3	Y 371.029	1236455.6	1236455.6	98.987 %		09:49:51
3	Ag 328.068†	55004.7	55445.9	503.95 µg/L	503.95 ppb	09:49:57
3	As 188.979†	205.2	209.2	455.21 µg/L	455.21 ppb	09:50:17
3	B 249.677†	10444.6	10140.9	478.42 µg/L	478.42 ppb	09:49:57
3	Ba 233.527†	17123.2	17255.7	482.86 µg/L	482.86 ppb	09:49:57
3	Be 313.107†	733708.2	734525.0	494.02 µg/L	494.02 ppb	09:49:51
3	Cd 226.502†	16739.2	16970.6	480.73 µg/L	480.73 ppb	09:49:57
3	Co 228.616†	8905.0	9010.8	478.71 µg/L	478.71 ppb	09:49:57
3	Cr 267.716†	20768.2	21002.0	470.89 µg/L	470.89 ppb	09:49:57
3	Cu 324.752†	69306.8	65846.1	483.52 µg/L	483.52 ppb	09:49:57
3	Mn 257.610†	139120.4	140150.0	497.24 µg/L	497.24 ppb	09:49:51
3	Mo 202.031†	3665.2	3675.9	445.51 µg/L	445.51 ppb	09:50:17
3	Ni 231.604†	8159.7	7880.0	476.62 µg/L	476.62 ppb	09:49:57
3	P 214.914†	1195.0	982.8	2217.8 µg/L	2217.8 ppb	09:50:17
3	Pb 220.353†	1708.8	1658.5	465.32 µg/L	465.32 ppb	09:50:17
3	S 181.975 Axial†	195.4	173.5	964.57 µg/L	964.57 ppb	09:50:17
3	Sb 206.836†	458.7	437.6	464.34 µg/L	464.34 ppb	09:50:17
3	Se 196.026†	314.8	308.9	483.63 µg/L	483.63 ppb	09:50:17
3	SiO2†	28323.6	26113.7	5331.8 µg/L	5331.8 ppb	09:49:57
3	Si 251.611†	30911.7	30825.2	2497.0 µg/L	2497.0 ppb	09:49:57
3	Sn 189.927†	814.4	796.1	451.29 µg/L	451.29 ppb	09:50:17
3	Ti 334.940†	205188.3	205785.0	497.12 µg/L	497.12 ppb	09:49:51
3	Tl 190.801†	254.9	281.0	472.28 µg/L	472.28 ppb	09:50:17
3	U 409.014†	4839.3	5056.2	468.94 µg/L	468.94 ppb	09:49:57
3	V 292.402†	39415.1	39780.2	483.93 µg/L	483.93 ppb	09:49:57
3	Zn 213.857†	17630.1	17109.6	477.53 µg/L	477.53 ppb	09:49:57

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1963584.6	99.349 %	0.2421			0.24%
Sc RADIAL	77458.0	98.7 %	0.44			0.44%
Y 371.029	1236538.0	98.994 %	0.2464			0.25%
Ag 328.068†	57274.5	520.66 µg/L	14.687	520.66 ppb	14.687	2.82%
QC value within limits for Ag 328.068 Recovery = 104.13%						
Al 396.153Radial†	7762.3	5017.1 µg/L	6.58	5017.1 ppb	6.58	0.13%
QC value within limits for Al 396.153Radial Recovery = 100.34%						
As 188.979†	231.0	502.51 µg/L	41.565	502.51 ppb	41.565	8.27%
QC value within limits for As 188.979 Recovery = 100.50%						
B 249.677†	10525.8	496.73 µg/L	15.978	496.73 ppb	15.978	3.22%
QC value within limits for B 249.677 Recovery = 99.35%						
Ba 233.527†	18181.9	508.79 µg/L	22.550	508.79 ppb	22.550	4.43%
QC value within limits for Ba 233.527 Recovery = 101.76%						
Be 313.107†	757960.6	509.78 µg/L	13.662	509.78 ppb	13.662	2.68%
QC value within limits for Be 313.107 Recovery = 101.96%						
Ca 317.933Radial†	6833.7	4924.0 µg/L	33.90	4924.0 ppb	33.90	0.69%
QC value within limits for Ca 317.933Radial Recovery = 98.48%						
Cd 226.502†	17906.2	507.28 µg/L	23.075	507.28 ppb	23.075	4.55%
QC value within limits for Cd 226.502 Recovery = 101.46%						
Co 228.616†	9579.6	508.98 µg/L	26.318	508.98 ppb	26.318	5.17%

QC value within limits for Co 228.616 Recovery = 101.80%							
Cr 267.716†	22687.4	508.67 µg/L	32.784	508.67 ppb	32.784	6.44%	
QC value within limits for Cr 267.716 Recovery = 101.73%							
Cu 324.752†	69851.3	512.88 µg/L	25.573	512.88 ppb	25.573	4.99%	
QC value within limits for Cu 324.752 Recovery = 102.58%							
Fe 238.204 Radial†	383.9	5094.1 µg/L	45.60	5094.1 ppb	45.60	0.90%	
QC value within limits for Fe 238.204 Radial Recovery = 101.88%							
K 766.490 Radial†	8138.0	5134.3 µg/L	40.61	5134.3 ppb	40.61	0.79%	
QC value within limits for K 766.490 Radial Recovery = 102.69%							
Mg 279.077 IEC†	504.2	5177.5 µg/L	49.21	5177.5 ppb	49.21	0.95%	
QC value within limits for Mg 279.077 IEC Recovery = 103.55%							
Mn 257.610†	144442.2	512.45 µg/L	13.198	512.45 ppb	13.198	2.58%	
QC value within limits for Mn 257.610 Recovery = 102.49%							
Mo 202.031†	4121.8	499.54 µg/L	46.865	499.54 ppb	46.865	9.38%	
QC value within limits for Mo 202.031 Recovery = 99.91%							
Na 589.592 Radial†	37176.5	9897.6 µg/L	36.45	9897.6 ppb	36.45	0.37%	
QC value within limits for Na 589.592 Radial Recovery = 98.98%							
Ni 231.604†	8404.4	508.33 µg/L	27.581	508.33 ppb	27.581	5.43%	
QC value within limits for Ni 231.604 Recovery = 101.67%							
P 214.914†	1095.7	2475.7 µg/L	224.95	2475.7 ppb	224.95	9.09%	
QC value within limits for P 214.914 Recovery = 99.03%							
Pb 220.353†	1823.5	511.66 µg/L	40.175	511.66 ppb	40.175	7.85%	
QC value within limits for Pb 220.353 Recovery = 102.33%							
S 181.975 Axial†	185.1	1028.9 µg/L	56.00	1028.9 ppb	56.00	5.44%	
QC value within limits for S 181.975 Axial Recovery = 102.89%							
Sb 206.836†	481.5	511.26 µg/L	40.743	511.26 ppb	40.743	7.97%	
QC value within limits for Sb 206.836 Recovery = 102.25%							
Se 196.026†	337.5	526.47 µg/L	39.065	526.47 ppb	39.065	7.42%	
QC value within limits for Se 196.026 Recovery = 105.29%							
SiO2†	27312.2	5576.5 µg/L	214.23	5576.5 ppb	214.23	3.84%	
QC value within limits for SiO2 Recovery = 104.28%							
Si 251.611†	32200.7	2608.4 µg/L	97.12	2608.4 ppb	97.12	3.72%	
QC value within limits for Si 251.611 Recovery = 104.34%							
Sn 189.927†	901.1	510.46 µg/L	51.413	510.46 ppb	51.413	10.07%	
QC value within limits for Sn 189.927 Recovery = 102.09%							
Sr 421.552†	84844.5	507.53 µg/L	2.312	507.53 ppb	2.312	0.46%	
QC value within limits for Sr 421.552 Recovery = 101.51%							
Ti 334.940†	213188.4	515.02 µg/L	15.528	515.02 ppb	15.528	3.02%	
QC value within limits for Ti 334.940 Recovery = 103.00%							
Tl 190.801†	305.7	513.53 µg/L	35.802	513.53 ppb	35.802	6.97%	
QC value within limits for Tl 190.801 Recovery = 102.71%							
U 409.014†	5481.6	508.48 µg/L	34.276	508.48 ppb	34.276	6.74%	
QC value within limits for U 409.014 Recovery = 101.70%							
V 292.402†	42423.8	516.28 µg/L	28.070	516.28 ppb	28.070	5.44%	
QC value within limits for V 292.402 Recovery = 103.26%							
Zn 213.857†	18160.5	506.89 µg/L	25.514	506.89 ppb	25.514	5.03%	
QC value within limits for Zn 213.857 Recovery = 101.38%							
All analyte(s) passed QC.							

Sequence No.: 11

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 09:50:26

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	76577.5	76577.5	97.6 %		09:50:59
1	Al 396.153Radial†	-9.9	19.4	12.528 µg/L	12.528 ppb	09:50:59
1	Ca 317.933Radial†	274.4	34.0	24.489 µg/L	24.489 ppb	09:51:19
1	Fe 238.204 Radial†	18.3	2.4	31.434 µg/L	31.434 ppb	09:51:19
1	K 766.490 Radial†	383.4	-5.8	-3.6674 µg/L	-3.6674 ppb	09:50:59
1	Mg 279.077 IEC†	10.4	2.5	25.357 µg/L	25.357 ppb	09:51:19
1	Na 589.592 Radial†	378.9	-165.3	-44.015 µg/L	-44.015 ppb	09:50:59
1	Sr 421.552†	669.8	52.4	0.3135 µg/L	0.3135 ppb	09:50:59
1	Sc 361.383	1966588.9	1966588.9	99.501 %		09:52:21
1	Y 371.029	1242735.0	1242735.0	99.490 %		09:52:21
1	Ag 328.068†	-48.5	43.8	0.3981 µg/L	0.3981 ppb	09:52:26
1	As 188.979†	0.6	3.4	7.3401 µg/L	7.3401 ppb	09:52:47
1	B 249.677†	198.9	-170.1	-8.0700 µg/L	-8.0700 ppb	09:52:47
1	Ba 233.527†	-17.7	6.1	0.1717 µg/L	0.1717 ppb	09:52:47
1	Be 313.107†	4135.0	322.0	0.2165 µg/L	0.2165 ppb	09:52:26
1	Cd 226.502†	-111.5	13.3	0.3718 µg/L	0.3718 ppb	09:52:47
1	Co 228.616†	-44.8	4.2	0.2271 µg/L	0.2271 ppb	09:52:47
1	Cr 267.716†	-63.9	37.9	0.8494 µg/L	0.8494 ppb	09:52:26
1	Cu 324.752†	3849.0	-31.7	-0.2280 µg/L	-0.2280 ppb	09:52:26
1	Mn 257.610†	-19.1	128.7	0.4593 µg/L	0.4593 ppb	09:52:47
1	Mo 202.031†	28.7	16.3	1.9744 µg/L	1.9744 ppb	09:52:47
1	Ni 231.604†	326.9	-2.9	-0.1746 µg/L	-0.1746 ppb	09:52:47
1	P 214.914†	212.1	-6.7	-15.431 µg/L	-15.431 ppb	09:52:47
1	Pb 220.353†	68.6	7.8	2.1836 µg/L	2.1836 ppb	09:52:47
1	S 181.975 Axial†	21.9	-1.2	-6.4841 µg/L	-6.4841 ppb	09:52:47
1	Sb 206.836†	24.1	0.2	0.2029 µg/L	0.2029 ppb	09:52:47
1	Se 196.026†	10.9	3.0	4.6137 µg/L	4.6137 ppb	09:52:47
1	SiO2†	2371.3	-6.2	-1.2693 µg/L	-1.2693 ppb	09:52:26
1	Si 251.611†	364.3	83.7	6.7807 µg/L	6.7807 ppb	09:52:47
1	Sn 189.927†	24.2	0.9	0.4983 µg/L	0.4983 ppb	09:52:47
1	Ti 334.940†	821.8	122.0	0.2934 µg/L	0.2934 ppb	09:52:26
1	Tl 190.801†	-24.2	0.2	0.2739 µg/L	0.2739 ppb	09:52:47
1	U 409.014†	-146.4	39.0	3.6225 µg/L	3.6225 ppb	09:52:26
1	V 292.402†	-109.2	5.5	0.0893 µg/L	0.0893 ppb	09:52:26
1	Zn 213.857†	655.9	26.9	0.7542 µg/L	0.7542 ppb	09:52:47
2	Sc RADIAL	76688.1	76688.1	97.7 %		09:51:25
2	Al 396.153Radial†	-25.5	3.4	2.2212 µg/L	2.2212 ppb	09:51:25
2	Ca 317.933Radial†	270.3	29.5	21.243 µg/L	21.243 ppb	09:51:45
2	Fe 238.204 Radial†	18.9	3.0	39.528 µg/L	39.528 ppb	09:51:45
2	K 766.490 Radial†	384.8	-4.9	-3.0744 µg/L	-3.0744 ppb	09:51:25
2	Mg 279.077 IEC†	12.3	4.5	45.689 µg/L	45.689 ppb	09:51:45
2	Na 589.592 Radial†	385.3	-159.3	-42.417 µg/L	-42.417 ppb	09:51:25
2	Sr 421.552†	659.8	41.2	0.2463 µg/L	0.2463 ppb	09:51:25
2	Sc 361.383	1983946.8	1983946.8	100.38 %		09:52:53
2	Y 371.029	1254051.0	1254051.0	100.40 %		09:52:53
2	Ag 328.068†	-40.7	52.0	0.4738 µg/L	0.4738 ppb	09:52:58
2	As 188.979†	-0.9	1.8	3.9499 µg/L	3.9499 ppb	09:53:19
2	B 249.677†	185.3	-185.4	-8.8003 µg/L	-8.8003 ppb	09:53:19
2	Ba 233.527†	-12.0	12.0	0.3363 µg/L	0.3363 ppb	09:53:19
2	Be 313.107†	4084.4	235.2	0.1581 µg/L	0.1581 ppb	09:52:58
2	Cd 226.502†	-117.4	8.4	0.2327 µg/L	0.2327 ppb	09:53:19
2	Co 228.616†	-51.2	-1.7	-0.0896 µg/L	-0.0896 ppb	09:53:19
2	Cr 267.716†	-66.6	35.8	0.8014 µg/L	0.8014 ppb	09:52:58
2	Cu 324.752†	3831.2	-83.2	-0.6045 µg/L	-0.6045 ppb	09:52:58
2	Mn 257.610†	-71.9	76.2	0.2737 µg/L	0.2737 ppb	09:53:19
2	Mo 202.031†	17.4	4.7	0.5754 µg/L	0.5754 ppb	09:53:19
2	Ni 231.604†	334.4	1.8	0.1068 µg/L	0.1068 ppb	09:53:19
2	P 214.914†	222.9	2.2	5.1573 µg/L	5.1573 ppb	09:53:19
2	Pb 220.353†	62.5	1.1	0.3061 µg/L	0.3061 ppb	09:53:19

2	S 181.975 Axial†	22.4	-0.9	-4.8176 µg/L	-4.8176 ppb	09:53:19
2	Sb 206.836†	23.6	-0.5	-0.5753 µg/L	-0.5753 ppb	09:53:19
2	Se 196.026†	7.6	-0.4	-0.3957 µg/L	-0.3957 ppb	09:53:19
2	SiO2†	2372.4	-25.9	-5.2974 µg/L	-5.2974 ppb	09:52:58
2	Si 251.611†	352.2	68.5	5.5461 µg/L	5.5461 ppb	09:53:19
2	Sn 189.927†	25.7	2.1	1.2209 µg/L	1.2209 ppb	09:53:19
2	Ti 334.940†	825.0	118.1	0.2821 µg/L	0.2821 ppb	09:52:58
2	Tl 190.801†	-26.1	-1.5	-2.4946 µg/L	-2.4946 ppb	09:53:19
2	U 409.014†	-193.9	-7.0	-0.6560 µg/L	-0.6560 ppb	09:52:58
2	V 292.402†	-90.6	25.1	0.3096 µg/L	0.3096 ppb	09:52:58
2	Zn 213.857†	647.8	13.1	0.3654 µg/L	0.3654 ppb	09:53:19
3	Sc RADIAL	77058.9	77058.9	98.2 %		09:51:50
3	Al 396.153Radial†	-21.7	7.4	4.7789 µg/L	4.7789 ppb	09:51:50
3	Ca 317.933Radial†	271.1	28.9	20.815 µg/L	20.815 ppb	09:52:11
3	Fe 238.204 Radial†	18.6	2.6	34.881 µg/L	34.881 ppb	09:52:11
3	K 766.490 Radial†	421.8	30.9	19.483 µg/L	19.483 ppb	09:51:50
3	Mg 279.077 IEC†	8.4	0.4	4.4727 µg/L	4.4727 ppb	09:52:11
3	Na 589.592 Radial†	363.7	-183.3	-48.801 µg/L	-48.801 ppb	09:51:50
3	Sr 421.552†	622.6	0.1	0.0003 µg/L	0.0003 ppb	09:51:50
3	Sc 361.383	1981661.5	1981661.5	100.26 %		09:53:25
3	Y 371.029	1252898.4	1252898.4	100.30 %		09:53:25
3	Ag 328.068†	-86.2	6.6	0.0611 µg/L	0.0611 ppb	09:53:30
3	As 188.979†	1.3	4.0	8.7646 µg/L	8.7646 ppb	09:53:51
3	B 249.677†	200.0	-170.5	-8.0916 µg/L	-8.0916 ppb	09:53:51
3	Ba 233.527†	-20.9	3.1	0.0871 µg/L	0.0871 ppb	09:53:51
3	Be 313.107†	4057.4	213.0	0.1433 µg/L	0.1433 ppb	09:53:30
3	Cd 226.502†	-115.8	9.8	0.2735 µg/L	0.2735 ppb	09:53:51
3	Co 228.616†	-43.8	5.6	0.2976 µg/L	0.2976 ppb	09:53:51
3	Cr 267.716†	-69.8	32.5	0.7287 µg/L	0.7287 ppb	09:53:30
3	Cu 324.752†	3845.5	-64.5	-0.4682 µg/L	-0.4682 ppb	09:53:30
3	Mn 257.610†	-86.0	62.0	0.2243 µg/L	0.2243 ppb	09:53:51
3	Mo 202.031†	13.3	0.7	0.0859 µg/L	0.0859 ppb	09:53:51
3	Ni 231.604†	324.3	-8.0	-0.4819 µg/L	-0.4819 ppb	09:53:51
3	P 214.914†	211.8	-8.6	-19.834 µg/L	-19.834 ppb	09:53:51
3	Pb 220.353†	58.9	-2.4	-0.6843 µg/L	-0.6843 ppb	09:53:51
3	S 181.975 Axial†	23.9	0.7	4.0743 µg/L	4.0743 ppb	09:53:51
3	Sb 206.836†	28.3	4.3	4.4988 µg/L	4.4988 ppb	09:53:51
3	Se 196.026†	8.8	0.9	1.4456 µg/L	1.4456 ppb	09:53:51
3	SiO2†	2362.2	-33.4	-6.8201 µg/L	-6.8201 ppb	09:53:30
3	Si 251.611†	351.7	68.3	5.5339 µg/L	5.5339 ppb	09:53:51
3	Sn 189.927†	22.7	-0.8	-0.4394 µg/L	-0.4394 ppb	09:53:51
3	Ti 334.940†	743.7	37.9	0.0916 µg/L	0.0916 ppb	09:53:30
3	Tl 190.801†	-20.6	4.0	6.6248 µg/L	6.6248 ppb	09:53:51
3	U 409.014†	-201.5	-14.8	-1.3771 µg/L	-1.3771 ppb	09:53:30
3	V 292.402†	-127.8	-12.2	-0.1439 µg/L	-0.1439 ppb	09:53:30
3	Zn 213.857†	657.4	23.4	0.6587 µg/L	0.6587 ppb	09:53:51

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1977399.1	100.05 %	0.477			0.48%
Sc RADIAL	76774.8	97.8 %	0.32			0.33%
Y 371.029	1249894.8	100.06 %	0.499			0.50%
Ag 328.068†	34.2	0.3110 µg/L	0.21975	0.3110 ppb	0.21975	70.65%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.1	6.5094 µg/L	5.36686	6.5094 ppb	5.36686	82.45%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.1	6.6849 µg/L	2.47335	6.6849 ppb	2.47335	37.00%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-175.3	-8.3206 µg/L	0.41558	-8.3206 ppb	0.41558	4.99%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.1	0.1984 µg/L	0.12671	0.1984 ppb	0.12671	63.88%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	256.7	0.1726 µg/L	0.03873	0.1726 ppb	0.03873	22.44%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	30.8	22.183 µg/L	2.0092	22.183 ppb	2.0092	9.06%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	10.5	0.2927 µg/L	0.07148	0.2927 ppb	0.07148	24.42%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.7	0.1451 µg/L	0.20626	0.1451 ppb	0.20626	142.19%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	35.4	0.7932 µg/L	0.06077	0.7932 ppb	0.06077	7.66%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-59.8	-0.4336 µg/L	0.19060	-0.4336 ppb	0.19060	43.96%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	2.7	35.281 µg/L	4.0620	35.281 ppb	4.0620	11.51%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	6.7	4.2470 µg/L	13.19800	4.2470 ppb	13.19800	310.76%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	2.5	25.173 µg/L	20.6087	25.173 ppb	20.6087	81.87%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	89.0	0.3191 µg/L	0.12391	0.3191 ppb	0.12391	38.83%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	7.2	0.8786 µg/L	0.98005	0.8786 ppb	0.98005	111.55%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-169.3	-45.078 µg/L	3.3220	-45.078 ppb	3.3220	7.37%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-3.0	-0.1832 µg/L	0.29442	-0.1832 ppb	0.29442	160.67%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-4.4	-10.036 µg/L	13.3408	-10.036 ppb	13.3408	132.93%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	2.1	0.6018 µg/L	1.45661	0.6018 ppb	1.45661	242.04%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-0.4	-2.4091 µg/L	5.67634	-2.4091 ppb	5.67634	235.62%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	1.3	1.3755 µg/L	2.73276	1.3755 ppb	2.73276	198.68%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.2	1.8879 µg/L	2.53383	1.8879 ppb	2.53383	134.22%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-21.9	-4.4623 µg/L	2.86810	-4.4623 ppb	2.86810	64.27%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	73.5	5.9536 µg/L	0.71635	5.9536 ppb	0.71635	12.03%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	0.7	0.4266 µg/L	0.83249	0.4266 ppb	0.83249	195.15%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	31.2	0.1867 µg/L	0.16487	0.1867 ppb	0.16487	88.30%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	92.7	0.2224 µg/L	0.11337	0.2224 ppb	0.11337	50.98%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.9	1.4680 µg/L	4.67552	1.4680 ppb	4.67552	318.49%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	5.8	0.5298 µg/L	2.70253	0.5298 ppb	2.70253	510.08%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	6.1	0.0850 µg/L	0.22676	0.0850 ppb	0.22676	266.91%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	21.1	0.5928 µg/L	0.20260	0.5928 ppb	0.20260	34.18%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 19

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 10:19:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	77091.8	77091.8	98.2 %		10:20:32
1	Al 396.153Radial†	7767.3	7936.7	5129.3 µg/L	5129.3 ppb	10:20:32
1	Ca 317.933Radial†	7091.1	6971.6	5023.4 µg/L	5023.4 ppb	10:20:32
1	Fe 238.204 Radial†	403.8	394.7	5237.9 µg/L	5237.9 ppb	10:20:52
1	K 766.490 Radial†	8574.9	8330.7	5255.9 µg/L	5255.9 ppb	10:20:32
1	Mg 279.077 IEC†	510.7	511.7	5255.1 µg/L	5255.1 ppb	10:20:52
1	Na 589.592 Radial†	37737.0	37863.0	10080 µg/L	10080 ppb	10:20:32
1	Sr 421.552†	85672.0	86581.2	517.92 µg/L	517.92 ppb	10:20:32
1	Sc 361.383	1952077.5	1952077.5	98.767 %		10:21:56
1	Y 371.029	1229532.4	1229532.4	98.433 %		10:21:56
1	Ag 328.068†	58259.6	59079.7	537.13 µg/L	537.13 ppb	10:22:01
1	As 188.979†	247.5	253.3	551.07 µg/L	551.07 ppb	10:22:22
1	B 249.677†	11117.2	10886.1	513.77 µg/L	513.77 ppb	10:22:01
1	Ba 233.527†	18680.4	18937.6	529.95 µg/L	529.95 ppb	10:22:01
1	Be 313.107†	781423.3	787347.8	529.55 µg/L	529.55 ppb	10:21:56
1	Cd 226.502†	18325.4	18679.5	529.19 µg/L	529.19 ppb	10:22:01
1	Co 228.616†	9811.2	9983.1	530.44 µg/L	530.44 ppb	10:22:01
1	Cr 267.716†	23525.8	23921.8	536.34 µg/L	536.34 ppb	10:22:01
1	Cu 324.752†	76047.0	73096.7	536.70 µg/L	536.70 ppb	10:22:01
1	Mn 257.610†	145679.2	147646.3	523.82 µg/L	523.82 ppb	10:22:01
1	Mo 202.031†	4424.2	4466.9	541.34 µg/L	541.34 ppb	10:22:22
1	Ni 231.604†	9001.4	8782.4	531.19 µg/L	531.19 ppb	10:22:01
1	P 214.914†	1388.2	1185.7	2681.2 µg/L	2681.2 ppb	10:22:22
1	Pb 220.353†	1979.3	1942.9	545.20 µg/L	545.20 ppb	10:22:22
1	S 181.975 Axial†	219.8	199.4	1108.4 µg/L	1108.4 ppb	10:22:22
1	Sb 206.836†	536.0	518.6	550.89 µg/L	550.89 ppb	10:22:22
1	Se 196.026†	364.3	360.9	562.24 µg/L	562.24 ppb	10:22:22
1	SiO2†	30471.5	28462.6	5811.4 µg/L	5811.4 ppb	10:22:01
1	Si 251.611†	33391.1	33525.7	2715.7 µg/L	2715.7 ppb	10:22:01
1	Sn 189.927†	991.4	980.3	555.15 µg/L	555.15 ppb	10:22:22
1	Ti 334.940†	220037.2	222081.1	536.51 µg/L	536.51 ppb	10:21:56
1	Tl 190.801†	295.9	324.1	544.40 µg/L	544.40 ppb	10:22:22
1	U 409.014†	5555.8	5811.4	539.11 µg/L	539.11 ppb	10:22:01
1	V 292.402†	43824.2	44486.7	541.53 µg/L	541.53 ppb	10:22:01
1	Zn 213.857†	19337.1	18946.3	528.83 µg/L	528.83 ppb	10:22:01
2	Sc RADIAL	78333.6	78333.6	99.8 %		10:20:58
2	Al 396.153Radial†	7810.8	7854.9	5076.4 µg/L	5076.4 ppb	10:20:58
2	Ca 317.933Radial†	7147.7	6913.9	4981.8 µg/L	4981.8 ppb	10:20:58
2	Fe 238.204 Radial†	403.9	388.3	5153.2 µg/L	5153.2 ppb	10:21:18
2	K 766.490 Radial†	8520.9	8138.2	5134.4 µg/L	5134.4 ppb	10:20:58
2	Mg 279.077 IEC†	513.8	506.6	5203.0 µg/L	5203.0 ppb	10:21:18
2	Na 589.592 Radial†	37885.2	37402.5	9957.8 µg/L	9957.8 ppb	10:20:58
2	Sr 421.552†	86075.4	85602.7	512.07 µg/L	512.07 ppb	10:20:58
2	Sc 361.383	1957342.3	1957342.3	99.033 %		10:22:28
2	Y 371.029	1232587.7	1232587.7	98.677 %		10:22:28
2	Ag 328.068†	58420.7	59083.7	537.16 µg/L	537.16 ppb	10:22:34
2	As 188.979†	245.7	250.9	545.79 µg/L	545.79 ppb	10:22:55
2	B 249.677†	11168.1	10907.2	514.81 µg/L	514.81 ppb	10:22:34
2	Ba 233.527†	18768.0	18975.3	531.00 µg/L	531.00 ppb	10:22:34
2	Be 313.107†	775786.6	779528.0	524.29 µg/L	524.29 ppb	10:22:28
2	Cd 226.502†	18374.6	18679.3	529.20 µg/L	529.20 ppb	10:22:34
2	Co 228.616†	9856.9	10002.5	531.48 µg/L	531.48 ppb	10:22:34
2	Cr 267.716†	23615.7	23948.5	536.94 µg/L	536.94 ppb	10:22:34
2	Cu 324.752†	76319.2	73164.4	537.18 µg/L	537.18 ppb	10:22:34
2	Mn 257.610†	146287.7	147864.0	524.59 µg/L	524.59 ppb	10:22:34
2	Mo 202.031†	4399.3	4429.6	536.83 µg/L	536.83 ppb	10:22:55
2	Ni 231.604†	9051.7	8808.7	532.78 µg/L	532.78 ppb	10:22:34
2	P 214.914†	1388.5	1182.2	2673.3 µg/L	2673.3 ppb	10:22:55
2	Pb 220.353†	1996.2	1954.6	548.48 µg/L	548.48 ppb	10:22:55

2	S 181.975 Axial†	217.7	196.6	1093.3 µg/L	1093.3 ppb	10:22:55
2	Sb 206.836†	530.6	511.8	543.59 µg/L	543.59 ppb	10:22:55
2	Se 196.026†	368.8	364.4	567.21 µg/L	567.21 ppb	10:22:55
2	SiO2†	30587.1	28496.3	5818.3 µg/L	5818.3 ppb	10:22:34
2	Si 251.611†	33517.3	33562.2	2718.7 µg/L	2718.7 ppb	10:22:34
2	Sn 189.927†	996.2	982.5	556.38 µg/L	556.38 ppb	10:22:55
2	Ti 334.940†	218386.1	219814.7	531.03 µg/L	531.03 ppb	10:22:28
2	Tl 190.801†	300.0	327.4	549.91 µg/L	549.91 ppb	10:22:55
2	U 409.014†	5462.5	5702.1	528.97 µg/L	528.97 ppb	10:22:34
2	V 292.402†	43940.7	44485.1	541.46 µg/L	541.46 ppb	10:22:34
2	Zn 213.857†	19428.8	18986.2	529.95 µg/L	529.95 ppb	10:22:34
3	Sc RADIAL	77020.8	77020.8	98.1 %		10:21:24
3	Al 396.153Radial†	7760.8	7937.3	5131.4 µg/L	5131.4 ppb	10:21:24
3	Ca 317.933Radial†	7083.3	6970.3	5022.4 µg/L	5022.4 ppb	10:21:24
3	Fe 238.204 Radial†	401.9	393.1	5216.4 µg/L	5216.4 ppb	10:21:44
3	K 766.490 Radial†	8549.0	8312.3	5244.3 µg/L	5244.3 ppb	10:21:24
3	Mg 279.077 IEC†	512.4	514.0	5277.2 µg/L	5277.2 ppb	10:21:44
3	Na 589.592 Radial†	37851.8	38015.4	10121 µg/L	10121 ppb	10:21:24
3	Sr 421.552†	85717.3	86707.8	518.68 µg/L	518.68 ppb	10:21:24
3	Sc 361.383	1941030.9	1941030.9	98.208 %		10:23:01
3	Y 371.029	1221920.3	1221920.3	97.823 %		10:23:01
3	Ag 328.068†	56271.3	57390.9	521.63 µg/L	521.63 ppb	10:23:07
3	As 188.979†	212.3	218.9	476.25 µg/L	476.25 ppb	10:23:27
3	B 249.677†	10664.4	10489.1	494.90 µg/L	494.90 ppb	10:23:07
3	Ba 233.527†	17572.0	17916.6	501.36 µg/L	501.36 ppb	10:23:07
3	Be 313.107†	742090.2	751799.5	505.64 µg/L	505.64 ppb	10:23:01
3	Cd 226.502†	17125.0	17562.8	497.52 µg/L	497.52 ppb	10:23:07
3	Co 228.616†	9148.1	9364.4	497.50 µg/L	497.50 ppb	10:23:07
3	Cr 267.716†	21376.6	21868.9	490.32 µg/L	490.32 ppb	10:23:07
3	Cu 324.752†	71168.1	68567.0	503.48 µg/L	503.48 ppb	10:23:07
3	Mn 257.610†	135284.7	137901.5	489.28 µg/L	489.28 ppb	10:23:07
3	Mo 202.031†	3723.7	3779.1	458.02 µg/L	458.02 ppb	10:23:27
3	Ni 231.604†	8383.7	8205.3	496.29 µg/L	496.29 ppb	10:23:07
3	P 214.914†	1224.3	1026.8	2317.4 µg/L	2317.4 ppb	10:23:27
3	Pb 220.353†	1737.0	1707.6	479.05 µg/L	479.05 ppb	10:23:27
3	S 181.975 Axial†	194.4	174.8	971.64 µg/L	971.64 ppb	10:23:27
3	Sb 206.836†	458.3	442.7	469.70 µg/L	469.70 ppb	10:23:27
3	Se 196.026†	318.7	316.5	495.45 µg/L	495.45 ppb	10:23:27
3	SiO2†	29084.9	27226.3	5559.0 µg/L	5559.0 ppb	10:23:07
3	Si 251.611†	31730.1	32026.7	2594.3 µg/L	2594.3 ppb	10:23:07
3	Sn 189.927†	828.1	819.7	464.67 µg/L	464.67 ppb	10:23:27
3	Ti 334.940†	208122.8	211217.2	510.24 µg/L	510.24 ppb	10:23:01
3	Tl 190.801†	264.6	293.9	493.87 µg/L	493.87 ppb	10:23:27
3	U 409.014†	5091.4	5370.5	498.14 µg/L	498.14 ppb	10:23:07
3	V 292.402†	40477.7	41331.7	502.78 µg/L	502.78 ppb	10:23:07
3	Zn 213.857†	18068.3	17765.7	495.85 µg/L	495.85 ppb	10:23:07

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1950150.2	98.669 %	0.4212			0.43%
Sc RADIAL	77482.1	98.7 %	0.94			0.95%
Y 371.029	1228013.5	98.311 %	0.4398			0.45%
Ag 328.068†	58518.1	531.97 µg/L	8.955	531.97 ppb	8.955	1.68%
QC value within limits for Ag 328.068 Recovery = 106.39%						
Al 396.153Radial†	7909.7	5112.3 µg/L	31.17	5112.3 ppb	31.17	0.61%
QC value within limits for Al 396.153Radial Recovery = 102.25%						
As 188.979†	241.0	524.37 µg/L	41.758	524.37 ppb	41.758	7.96%
QC value within limits for As 188.979 Recovery = 104.87%						
B 249.677†	10760.8	507.83 µg/L	11.207	507.83 ppb	11.207	2.21%
QC value within limits for B 249.677 Recovery = 101.57%						
Ba 233.527†	18609.8	520.77 µg/L	16.817	520.77 ppb	16.817	3.23%
QC value within limits for Ba 233.527 Recovery = 104.15%						
Be 313.107†	772891.8	519.83 µg/L	12.563	519.83 ppb	12.563	2.42%
QC value within limits for Be 313.107 Recovery = 103.97%						
Ca 317.933Radial†	6952.0	5009.2 µg/L	23.74	5009.2 ppb	23.74	0.47%
QC value within limits for Ca 317.933Radial Recovery = 100.18%						
Cd 226.502†	18307.2	518.64 µg/L	18.288	518.64 ppb	18.288	3.53%
QC value within limits for Cd 226.502 Recovery = 103.73%						
Co 228.616†	9783.3	519.81 µg/L	19.322	519.81 ppb	19.322	3.72%

QC value within limits for Co 228.616 Recovery = 103.96%							
Cr 267.716†	23246.4	521.20 µg/L	26.746	521.20 ppb	26.746	5.13%	
QC value within limits for Cr 267.716 Recovery = 104.24%							
Cu 324.752†	71609.4	525.79 µg/L	19.319	525.79 ppb	19.319	3.67%	
QC value within limits for Cu 324.752 Recovery = 105.16%							
Fe 238.204 Radial†	392.1	5202.5 µg/L	44.04	5202.5 ppb	44.04	0.85%	
QC value within limits for Fe 238.204 Radial Recovery = 104.05%							
K 766.490 Radial†	8260.4	5211.5 µg/L	67.03	5211.5 ppb	67.03	1.29%	
QC value within limits for K 766.490 Radial Recovery = 104.23%							
Mg 279.077 IEC†	510.8	5245.1 µg/L	38.07	5245.1 ppb	38.07	0.73%	
QC value within limits for Mg 279.077 IEC Recovery = 104.90%							
Mn 257.610†	144470.6	512.56 µg/L	20.168	512.56 ppb	20.168	3.93%	
QC value within limits for Mn 257.610 Recovery = 102.51%							
Mo 202.031†	4225.2	512.06 µg/L	46.856	512.06 ppb	46.856	9.15%	
QC value within limits for Mo 202.031 Recovery = 102.41%							
Na 589.592 Radial†	37760.3	10053 µg/L	85.0	10053 ppb	85.0	0.85%	
QC value within limits for Na 589.592 Radial Recovery = 100.53%							
Ni 231.604†	8598.8	520.09 µg/L	20.627	520.09 ppb	20.627	3.97%	
QC value within limits for Ni 231.604 Recovery = 104.02%							
P 214.914†	1131.6	2557.3 µg/L	207.80	2557.3 ppb	207.80	8.13%	
QC value within limits for P 214.914 Recovery = 102.29%							
Pb 220.353†	1868.3	524.24 µg/L	39.173	524.24 ppb	39.173	7.47%	
QC value within limits for Pb 220.353 Recovery = 104.85%							
S 181.975 Axial†	190.3	1057.8 µg/L	74.97	1057.8 ppb	74.97	7.09%	
QC value within limits for S 181.975 Axial Recovery = 105.78%							
Sb 206.836†	491.0	521.39 µg/L	44.911	521.39 ppb	44.911	8.61%	
QC value within limits for Sb 206.836 Recovery = 104.28%							
Se 196.026†	347.3	541.63 µg/L	40.069	541.63 ppb	40.069	7.40%	
QC value within limits for Se 196.026 Recovery = 108.33%							
SiO2†	28061.8	5729.5 µg/L	147.77	5729.5 ppb	147.77	2.58%	
QC value within limits for SiO2 Recovery = 107.14%							
Si 251.611†	33038.2	2676.2 µg/L	70.97	2676.2 ppb	70.97	2.65%	
QC value within limits for Si 251.611 Recovery = 107.05%							
Sn 189.927†	927.5	525.40 µg/L	52.598	525.40 ppb	52.598	10.01%	
QC value within limits for Sn 189.927 Recovery = 105.08%							
Sr 421.552†	86297.2	516.22 µg/L	3.618	516.22 ppb	3.618	0.70%	
QC value within limits for Sr 421.552 Recovery = 103.24%							
Ti 334.940†	217704.3	525.93 µg/L	13.856	525.93 ppb	13.856	2.63%	
QC value within limits for Ti 334.940 Recovery = 105.19%							
Tl 190.801†	315.2	529.39 µg/L	30.888	529.39 ppb	30.888	5.83%	
QC value within limits for Tl 190.801 Recovery = 105.88%							
U 409.014†	5628.0	522.08 µg/L	21.338	522.08 ppb	21.338	4.09%	
QC value within limits for U 409.014 Recovery = 104.42%							
V 292.402†	43434.5	528.59 µg/L	22.356	528.59 ppb	22.356	4.23%	
QC value within limits for V 292.402 Recovery = 105.72%							
Zn 213.857†	18566.1	518.21 µg/L	19.372	518.21 ppb	19.372	3.74%	
QC value within limits for Zn 213.857 Recovery = 103.64%							
All analyte(s) passed QC.							

Sequence No.: 20

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 10:23:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	75015.0	75015.0	95.6 %		10:24:09
1	Al 396.153Radial†	-1.9	27.5	17.813 µg/L	17.813 ppb	10:24:09
1	Ca 317.933Radial†	266.8	31.9	22.989 µg/L	22.989 ppb	10:24:30
1	Fe 238.204 Radial†	19.3	3.8	50.360 µg/L	50.360 ppb	10:24:30
1	K 766.490 Radial†	328.8	-54.7	-34.507 µg/L	-34.507 ppb	10:24:09
1	Mg 279.077 IEC†	12.0	4.4	45.513 µg/L	45.513 ppb	10:24:30
1	Na 589.592 Radial†	389.1	-146.6	-39.036 µg/L	-39.036 ppb	10:24:09
1	Sr 421.552†	654.0	50.2	0.3005 µg/L	0.3005 ppb	10:24:09
1	Sc 361.383	1953221.6	1953221.6	98.825 %		10:25:32
1	Y 371.029	1234699.5	1234699.5	98.846 %		10:25:32
1	Ag 328.068†	-76.1	15.6	0.1452 µg/L	0.1452 ppb	10:25:37
1	As 188.979†	-1.8	0.9	1.9873 µg/L	1.9873 ppb	10:25:58
1	B 249.677†	174.5	-193.3	-9.1820 µg/L	-9.1820 ppb	10:25:37
1	Ba 233.527†	-17.2	6.5	0.1821 µg/L	0.1821 ppb	10:25:58
1	Be 313.107†	3913.7	126.4	0.0848 µg/L	0.0848 ppb	10:25:37
1	Cd 226.502†	-124.6	-0.8	-0.0292 µg/L	-0.0292 ppb	10:25:58
1	Co 228.616†	-44.0	4.8	0.2557 µg/L	0.2557 ppb	10:25:58
1	Cr 267.716†	-57.1	44.3	0.9937 µg/L	0.9937 ppb	10:25:37
1	Cu 324.752†	3848.2	-6.0	-0.0369 µg/L	-0.0369 ppb	10:25:37
1	Mn 257.610†	56.9	205.4	0.7329 µg/L	0.7329 ppb	10:25:58
1	Mo 202.031†	24.0	11.7	1.4135 µg/L	1.4135 ppb	10:25:58
1	Ni 231.604†	328.4	0.9	0.0526 µg/L	0.0526 ppb	10:25:58
1	P 214.914†	210.5	-6.8	-15.742 µg/L	-15.742 ppb	10:25:58
1	Pb 220.353†	63.8	3.4	0.9684 µg/L	0.9684 ppb	10:25:58
1	S 181.975 Axial†	20.7	-2.2	-12.229 µg/L	-12.229 ppb	10:25:58
1	Sb 206.836†	25.9	2.2	2.2852 µg/L	2.2852 ppb	10:25:58
1	Se 196.026†	5.1	-2.7	-3.9327 µg/L	-3.9327 ppb	10:25:58
1	SiO2†	2406.4	45.6	9.3147 µg/L	9.3147 ppb	10:25:37
1	Si 251.611†	384.1	106.3	8.6069 µg/L	8.6069 ppb	10:25:58
1	Sn 189.927†	20.9	-2.3	-1.2650 µg/L	-1.2650 ppb	10:25:58
1	Ti 334.940†	997.5	305.5	0.7352 µg/L	0.7352 ppb	10:25:37
1	Tl 190.801†	-18.3	6.0	9.9321 µg/L	9.9321 ppb	10:25:58
1	U 409.014†	-291.0	-108.3	-10.071 µg/L	-10.071 ppb	10:25:37
1	V 292.402†	-94.9	19.3	0.2380 µg/L	0.2380 ppb	10:25:37
1	Zn 213.857†	654.0	29.5	0.8251 µg/L	0.8251 ppb	10:25:58
2	Sc RADIAL	75306.2	75306.2	96.0 %		10:24:35
2	Al 396.153Radial†	1.4	31.0	20.039 µg/L	20.039 ppb	10:24:35
2	Ca 317.933Radial†	256.8	20.4	14.719 µg/L	14.719 ppb	10:24:56
2	Fe 238.204 Radial†	18.5	3.0	39.160 µg/L	39.160 ppb	10:24:56
2	K 766.490 Radial†	354.2	-29.5	-18.631 µg/L	-18.631 ppb	10:24:35
2	Mg 279.077 IEC†	7.2	-0.7	-6.7510 µg/L	-6.7510 ppb	10:24:56
2	Na 589.592 Radial†	372.9	-165.1	-43.955 µg/L	-43.955 ppb	10:24:35
2	Sr 421.552†	663.9	57.9	0.3463 µg/L	0.3463 ppb	10:24:35
2	Sc 361.383	1949311.6	1949311.6	98.527 %		10:26:04
2	Y 371.029	1231487.7	1231487.7	98.689 %		10:26:04
2	Ag 328.068†	-61.3	30.4	0.2791 µg/L	0.2791 ppb	10:26:09
2	As 188.979†	-2.0	0.7	1.4560 µg/L	1.4560 ppb	10:26:30
2	B 249.677†	196.9	-170.3	-8.0857 µg/L	-8.0857 ppb	10:26:09
2	Ba 233.527†	-18.4	5.3	0.1483 µg/L	0.1483 ppb	10:26:30
2	Be 313.107†	3990.5	212.2	0.1426 µg/L	0.1426 ppb	10:26:09
2	Cd 226.502†	-117.2	6.5	0.1797 µg/L	0.1797 ppb	10:26:30
2	Co 228.616†	-43.5	5.2	0.2765 µg/L	0.2765 ppb	10:26:30
2	Cr 267.716†	-52.1	49.4	1.1064 µg/L	1.1064 ppb	10:26:09
2	Cu 324.752†	3816.2	-30.6	-0.2188 µg/L	-0.2188 ppb	10:26:09
2	Mn 257.610†	62.0	210.7	0.7524 µg/L	0.7524 ppb	10:26:30
2	Mo 202.031†	19.0	6.7	0.8119 µg/L	0.8119 ppb	10:26:30
2	Ni 231.604†	332.8	6.0	0.3656 µg/L	0.3656 ppb	10:26:30
2	P 214.914†	213.7	-3.2	-7.3184 µg/L	-7.3184 ppb	10:26:30
2	Pb 220.353†	52.6	-7.9	-2.2084 µg/L	-2.2084 ppb	10:26:30

2	S 181.975 Axial†	27.5	4.8	26.599 µg/L	26.599 ppb	10:26:30
2	Sb 206.836†	26.9	3.2	3.4369 µg/L	3.4369 ppb	10:26:30
2	Se 196.026†	13.1	5.3	8.1916 µg/L	8.1916 ppb	10:26:30
2	SiO2†	2423.0	67.3	13.749 µg/L	13.749 ppb	10:26:09
2	Si 251.611†	385.9	108.8	8.8156 µg/L	8.8156 ppb	10:26:30
2	Sn 189.927†	20.1	-3.0	-1.7111 µg/L	-1.7111 ppb	10:26:30
2	Ti 334.940†	968.9	278.6	0.6741 µg/L	0.6741 ppb	10:26:09
2	Tl 190.801†	-21.5	2.7	4.4728 µg/L	4.4728 ppb	10:26:30
2	U 409.014†	-167.3	16.6	1.5386 µg/L	1.5386 ppb	10:26:09
2	V 292.402†	-91.2	22.9	0.2880 µg/L	0.2880 ppb	10:26:09
2	Zn 213.857†	651.1	27.9	0.7808 µg/L	0.7808 ppb	10:26:30
3	Sc RADIAL	74766.8	74766.8	95.3 %		10:25:01
3	Al 396.153Radial†	16.9	47.2	30.559 µg/L	30.559 ppb	10:25:01
3	Ca 317.933Radial†	260.3	26.1	18.806 µg/L	18.806 ppb	10:25:22
3	Fe 238.204 Radial†	20.5	5.2	68.435 µg/L	68.435 ppb	10:25:22
3	K 766.490 Radial†	434.2	57.1	36.029 µg/L	36.029 ppb	10:25:01
3	Mg 279.077 IEC†	12.4	4.8	49.429 µg/L	49.429 ppb	10:25:22
3	Na 589.592 Radial†	345.9	-190.6	-50.748 µg/L	-50.748 ppb	10:25:01
3	Sr 421.552†	644.0	42.0	0.2512 µg/L	0.2512 ppb	10:25:01
3	Sc 361.383	1955986.0	1955986.0	98.964 %		10:26:36
3	Y 371.029	1236621.5	1236621.5	99.000 %		10:26:36
3	Ag 328.068†	-56.8	35.2	0.3216 µg/L	0.3216 ppb	10:26:42
3	As 188.979†	0.8	3.5	7.6575 µg/L	7.6575 ppb	10:27:02
3	B 249.677†	185.0	-183.0	-8.7024 µg/L	-8.7024 ppb	10:26:42
3	Ba 233.527†	-19.7	4.0	0.1126 µg/L	0.1126 ppb	10:27:02
3	Be 313.107†	3994.4	202.4	0.1360 µg/L	0.1360 ppb	10:26:42
3	Cd 226.502†	-125.0	-1.0	-0.0372 µg/L	-0.0372 ppb	10:27:02
3	Co 228.616†	-34.8	14.1	0.7513 µg/L	0.7513 ppb	10:27:02
3	Cr 267.716†	-80.4	20.9	0.4683 µg/L	0.4683 ppb	10:26:42
3	Cu 324.752†	3794.8	-65.4	-0.4702 µg/L	-0.4702 ppb	10:26:42
3	Mn 257.610†	-7.8	139.9	0.5032 µg/L	0.5032 ppb	10:27:02
3	Mo 202.031†	21.3	8.9	1.0823 µg/L	1.0823 ppb	10:27:02
3	Ni 231.604†	326.0	-2.0	-0.1225 µg/L	-0.1225 ppb	10:27:02
3	P 214.914†	219.1	1.6	3.6891 µg/L	3.6891 ppb	10:27:02
3	Pb 220.353†	53.8	-6.8	-1.8884 µg/L	-1.8884 ppb	10:27:02
3	S 181.975 Axial†	23.5	0.6	3.3783 µg/L	3.3783 ppb	10:27:02
3	Sb 206.836†	27.4	3.7	3.8730 µg/L	3.8730 ppb	10:27:02
3	Se 196.026†	8.4	0.5	1.0337 µg/L	1.0337 ppb	10:27:02
3	SiO2†	2384.5	20.1	4.1023 µg/L	4.1023 ppb	10:26:42
3	Si 251.611†	353.4	74.7	6.0520 µg/L	6.0520 ppb	10:27:02
3	Sn 189.927†	28.0	4.8	2.7514 µg/L	2.7514 ppb	10:27:02
3	Ti 334.940†	892.0	197.5	0.4738 µg/L	0.4738 ppb	10:26:42
3	Tl 190.801†	-21.9	2.4	3.9788 µg/L	3.9788 ppb	10:27:02
3	U 409.014†	-323.4	-140.6	-13.077 µg/L	-13.077 ppb	10:26:42
3	V 292.402†	-114.8	-0.7	-0.0089 µg/L	-0.0089 ppb	10:26:42
3	Zn 213.857†	653.7	28.2	0.7890 µg/L	0.7890 ppb	10:27:02

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1952839.7	98.805 %	0.1697			0.17%
Sc RADIAL	75029.3	95.6 %	0.34			0.36%
Y 371.029	1234269.6	98.812 %	0.2076			0.21%
Ag 328.068†	27.1	0.2486 µg/L	0.09208	0.2486 ppb	0.09208	37.04%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	35.2	22.804 µg/L	6.8082	22.804 ppb	6.8082	29.86%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.7	3.7003 µg/L	3.43738	3.7003 ppb	3.43738	92.90%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-182.2	-8.6567 µg/L	0.54958	-8.6567 ppb	0.54958	6.35%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.3	0.1477 µg/L	0.03478	0.1477 ppb	0.03478	23.55%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	180.4	0.1211 µg/L	0.03163	0.1211 ppb	0.03163	26.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	26.1	18.838 µg/L	4.1353	18.838 ppb	4.1353	21.95%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.5	0.0377 µg/L	0.12298	0.0377 ppb	0.12298	325.90%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.0	0.4278 µg/L	0.28034	0.4278 ppb	0.28034	65.52%

QC value within limits	for Co 228.616	Recovery = Not calculated			
Cr 267.716†	38.2	0.8561 µg/L	0.34058	0.8561 ppb	0.34058 39.78%
QC value within limits	for Cr 267.716	Recovery = Not calculated			
Cu 324.752†	-34.0	-0.2420 µg/L	0.21755	-0.2420 ppb	0.21755 89.91%
QC value within limits	for Cu 324.752	Recovery = Not calculated			
Fe 238.204 Radial†	4.0	52.652 µg/L	14.7712	52.652 ppb	14.7712 28.05%
QC value within limits	for Fe 238.204 Radial	Recovery = Not calculated			
K 766.490 Radial†	-9.0	-5.7029 µg/L	37.00217	-5.7029 ppb	37.00217 648.83%
QC value within limits	for K 766.490 Radial	Recovery = Not calculated			
Mg 279.077 IEC†	2.9	29.397 µg/L	31.3665	29.397 ppb	31.3665 106.70%
QC value within limits	for Mg 279.077 IEC	Recovery = Not calculated			
Mn 257.610†	185.4	0.6628 µg/L	0.13860	0.6628 ppb	0.13860 20.91%
QC value within limits	for Mn 257.610	Recovery = Not calculated			
Mo 202.031†	9.1	1.1026 µg/L	0.30132	1.1026 ppb	0.30132 27.33%
QC value within limits	for Mo 202.031	Recovery = Not calculated			
Na 589.592 Radial†	-167.4	-44.580 µg/L	5.8806	-44.580 ppb	5.8806 13.19%
QC value within limits	for Na 589.592 Radial	Recovery = Not calculated			
Ni 231.604†	1.6	0.0986 µg/L	0.24727	0.0986 ppb	0.24727 250.78%
QC value within limits	for Ni 231.604	Recovery = Not calculated			
P 214.914†	-2.8	-6.4572 µg/L	9.74431	-6.4572 ppb	9.74431 150.91%
QC value within limits	for P 214.914	Recovery = Not calculated			
Pb 220.353†	-3.8	-1.0428 µg/L	1.74908	-1.0428 ppb	1.74908 167.73%
QC value within limits	for Pb 220.353	Recovery = Not calculated			
S 181.975 Axial†	1.1	5.9163 µg/L	19.53789	5.9163 ppb	19.53789 330.24%
QC value within limits	for S 181.975 Axial	Recovery = Not calculated			
Sb 206.836†	3.0	3.1984 µg/L	0.82033	3.1984 ppb	0.82033 25.65%
QC value within limits	for Sb 206.836	Recovery = Not calculated			
Se 196.026†	1.0	1.7642 µg/L	6.09506	1.7642 ppb	6.09506 345.48%
QC value within limits	for Se 196.026	Recovery = Not calculated			
SiO2†	44.4	9.0554 µg/L	4.82867	9.0554 ppb	4.82867 53.32%
QC value within limits	for SiO2	Recovery = Not calculated			
Si 251.611†	96.6	7.8248 µg/L	1.53884	7.8248 ppb	1.53884 19.67%
QC value within limits	for Si 251.611	Recovery = Not calculated			
Sn 189.927†	-0.2	-0.0749 µg/L	2.45776	-0.0749 ppb	2.45776 >999.9%
QC value within limits	for Sn 189.927	Recovery = Not calculated			
Sr 421.552†	50.0	0.2993 µg/L	0.04755	0.2993 ppb	0.04755 15.89%
QC value within limits	for Sr 421.552	Recovery = Not calculated			
Ti 334.940†	260.5	0.6277 µg/L	0.13672	0.6277 ppb	0.13672 21.78%
QC value within limits	for Ti 334.940	Recovery = Not calculated			
Tl 190.801†	3.7	6.1279 µg/L	3.30380	6.1279 ppb	3.30380 53.91%
QC value within limits	for Tl 190.801	Recovery = Not calculated			
U 409.014†	-77.4	-7.2033 µg/L	7.71842	-7.2033 ppb	7.71842 107.15%
QC value within limits	for U 409.014	Recovery = Not calculated			
V 292.402†	13.8	0.1723 µg/L	0.15897	0.1723 ppb	0.15897 92.24%
QC value within limits	for V 292.402	Recovery = Not calculated			
Zn 213.857†	28.5	0.7983 µg/L	0.02361	0.7983 ppb	0.02361 2.96%
QC value within limits	for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 2
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/29/2010 10:46:42
 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	77187.2	77187.2	98.4 %		10:47:19
1	Al 396.153Radial†	7793.1	7953.2	5140.1 µg/L	5140.1 ppb	10:47:19
1	Ca 317.933Radial†	6976.4	6846.1	4932.9 µg/L	4932.9 ppb	10:47:39
1	Fe 238.204 Radial†	401.1	391.5	5195.5 µg/L	5195.5 ppb	10:47:39
1	K 766.490 Radial†	8552.8	8297.4	5234.9 µg/L	5234.9 ppb	10:47:19
1	Mg 279.077 IEC†	515.8	516.3	5302.2 µg/L	5302.2 ppb	10:47:39
1	Na 589.592 Radial†	37818.4	37898.4	10090 µg/L	10090 ppb	10:47:19
1	Sr 421.552†	85822.4	86626.4	518.19 µg/L	518.19 ppb	10:47:19
1	Sc 361.383	1959443.1	1959443.1	99.139 %		10:48:42
1	Y 371.029	1234949.1	1234949.1	98.866 %		10:48:42
1	Ag 328.068†	58663.3	59265.2	538.81 µg/L	538.81 ppb	10:48:48
1	As 188.979†	240.2	245.0	533.12 µg/L	533.12 ppb	10:49:08
1	B 249.677†	11281.2	11009.2	519.62 µg/L	519.62 ppb	10:48:48
1	Ba 233.527†	18782.0	18969.0	530.83 µg/L	530.83 ppb	10:48:48
1	Be 313.107†	772768.0	775643.3	521.68 µg/L	521.68 ppb	10:48:42
1	Cd 226.502†	18385.0	18669.9	528.93 µg/L	528.93 ppb	10:48:48
1	Co 228.616†	9869.5	10004.5	531.58 µg/L	531.58 ppb	10:48:48
1	Cr 267.716†	23668.3	23975.9	537.56 µg/L	537.56 ppb	10:48:48
1	Cu 324.752†	76618.8	73384.0	538.80 µg/L	538.80 ppb	10:48:48
1	Mn 257.610†	146510.8	147930.6	524.82 µg/L	524.82 ppb	10:48:48
1	Mo 202.031†	4356.7	4381.9	531.05 µg/L	531.05 ppb	10:49:08
1	Ni 231.604†	9048.4	8795.6	531.99 µg/L	531.99 ppb	10:48:48
1	P 214.914†	1357.9	1149.9	2598.3 µg/L	2598.3 ppb	10:49:08
1	Pb 220.353†	1960.0	1915.9	537.61 µg/L	537.61 ppb	10:49:08
1	S 181.975 Axial†	213.2	191.9	1067.0 µg/L	1067.0 ppb	10:49:08
1	Sb 206.836†	522.9	503.4	534.63 µg/L	534.63 ppb	10:49:08
1	Se 196.026†	355.0	350.2	545.88 µg/L	545.88 ppb	10:49:08
1	SiO2†	30540.3	28416.1	5801.9 µg/L	5801.9 ppb	10:48:48
1	Si 251.611†	33419.9	33427.6	2707.8 µg/L	2707.8 ppb	10:48:48
1	Sn 189.927†	974.5	959.5	543.40 µg/L	543.40 ppb	10:49:08
1	Ti 334.940†	218107.4	219297.1	529.77 µg/L	529.77 ppb	10:48:42
1	Tl 190.801†	295.0	322.1	540.96 µg/L	540.96 ppb	10:49:08
1	U 409.014†	5491.8	5725.7	531.16 µg/L	531.16 ppb	10:48:48
1	V 292.402†	44089.9	44588.0	542.66 µg/L	542.66 ppb	10:48:48
1	Zn 213.857†	19516.0	19053.2	531.82 µg/L	531.82 ppb	10:48:48
2	Sc RADIAL	76862.3	76862.3	97.9 %		10:47:45
2	Al 396.153Radial†	7684.4	7875.7	5089.9 µg/L	5089.9 ppb	10:47:45
2	Ca 317.933Radial†	6935.2	6834.0	4924.2 µg/L	4924.2 ppb	10:48:05
2	Fe 238.204 Radial†	399.1	391.1	5190.4 µg/L	5190.4 ppb	10:48:05
2	K 766.490 Radial†	8521.3	8302.0	5237.7 µg/L	5237.7 ppb	10:47:45
2	Mg 279.077 IEC†	509.0	511.6	5253.4 µg/L	5253.4 ppb	10:48:05
2	Na 589.592 Radial†	37574.3	37811.7	10067 µg/L	10067 ppb	10:47:45
2	Sr 421.552†	85032.3	86188.5	515.57 µg/L	515.57 ppb	10:47:45
2	Sc 361.383	1955069.4	1955069.4	98.918 %		10:49:15
2	Y 371.029	1231601.4	1231601.4	98.598 %		10:49:15
2	Ag 328.068†	57843.2	58568.5	532.48 µg/L	532.48 ppb	10:49:21
2	As 188.979†	236.5	241.8	526.02 µg/L	526.02 ppb	10:49:41
2	B 249.677†	11068.0	10819.1	510.61 µg/L	510.61 ppb	10:49:21
2	Ba 233.527†	18553.7	18780.6	525.55 µg/L	525.55 ppb	10:49:21
2	Be 313.107†	776368.4	781026.8	525.30 µg/L	525.30 ppb	10:49:15
2	Cd 226.502†	18127.2	18450.8	522.71 µg/L	522.71 ppb	10:49:21
2	Co 228.616†	9761.4	9917.5	526.95 µg/L	526.95 ppb	10:49:21
2	Cr 267.716†	23356.3	23713.9	531.68 µg/L	531.68 ppb	10:49:21
2	Cu 324.752†	75679.8	72607.7	533.11 µg/L	533.11 ppb	10:49:21
2	Mn 257.610†	144505.0	146233.5	518.81 µg/L	518.81 ppb	10:49:21
2	Mo 202.031†	4353.0	4388.0	531.79 µg/L	531.79 ppb	10:49:41
2	Ni 231.604†	8930.4	8696.7	526.01 µg/L	526.01 ppb	10:49:21
2	P 214.914†	1356.4	1151.4	2602.5 µg/L	2602.5 ppb	10:49:41
2	Pb 220.353†	1952.7	1912.9	536.80 µg/L	536.80 ppb	10:49:41

2	S 181.975 Axial†	213.8	193.0	1073.2 µg/L	1073.2 ppb	10:49:41
2	Sb 206.836†	521.2	502.9	534.16 µg/L	534.16 ppb	10:49:41
2	Se 196.026†	348.7	344.6	537.48 µg/L	537.48 ppb	10:49:41
2	SiO2†	30194.2	28135.1	5744.5 µg/L	5744.5 ppb	10:49:21
2	Si 251.611†	33052.5	33131.6	2683.8 µg/L	2683.8 ppb	10:49:21
2	Sn 189.927†	983.6	970.9	549.85 µg/L	549.85 ppb	10:49:41
2	Ti 334.940†	218851.7	220541.7	532.78 µg/L	532.78 ppb	10:49:15
2	Tl 190.801†	292.5	320.2	537.87 µg/L	537.87 ppb	10:49:41
2	U 409.014†	5392.5	5637.7	522.99 µg/L	522.99 ppb	10:49:21
2	V 292.402†	43460.7	44051.4	536.19 µg/L	536.19 ppb	10:49:21
2	Zn 213.857†	19198.1	18775.8	524.07 µg/L	524.07 ppb	10:49:21
3	Sc RADIAL	77014.4	77014.4	98.1 %		10:48:10
3	Al 396.153Radial†	7722.6	7899.1	5106.8 µg/L	5106.8 ppb	10:48:10
3	Ca 317.933Radial†	6995.8	6881.7	4958.6 µg/L	4958.6 ppb	10:48:31
3	Fe 238.204 Radial†	398.3	389.6	5168.7 µg/L	5168.7 ppb	10:48:31
3	K 766.490 Radial†	8524.6	8288.2	5229.1 µg/L	5229.1 ppb	10:48:10
3	Mg 279.077 IEC†	512.1	513.7	5273.8 µg/L	5273.8 ppb	10:48:31
3	Na 589.592 Radial†	37546.1	37707.2	10039 µg/L	10039 ppb	10:48:10
3	Sr 421.552†	85057.3	86042.4	514.70 µg/L	514.70 ppb	10:48:10
3	Sc 361.383	1952862.5	1952862.5	98.806 %		10:49:48
3	Y 371.029	1230319.7	1230319.7	98.496 %		10:49:48
3	Ag 328.068†	55678.4	56443.7	513.02 µg/L	513.02 ppb	10:49:53
3	As 188.979†	205.9	211.1	459.27 µg/L	459.27 ppb	10:50:14
3	B 249.677†	10591.0	10349.0	488.28 µg/L	488.28 ppb	10:49:53
3	Ba 233.527†	17332.5	17565.8	491.54 µg/L	491.54 ppb	10:49:53
3	Be 313.107†	736813.5	741881.0	498.97 µg/L	498.97 ppb	10:49:48
3	Cd 226.502†	16867.5	17196.6	487.14 µg/L	487.14 ppb	10:49:53
3	Co 228.616†	9011.3	9169.5	487.14 µg/L	487.14 ppb	10:49:53
3	Cr 267.716†	21083.4	21440.2	480.71 µg/L	480.71 ppb	10:49:53
3	Cu 324.752†	70314.4	67263.9	493.92 µg/L	493.92 ppb	10:49:53
3	Mn 257.610†	133480.1	135240.5	479.84 µg/L	479.84 ppb	10:49:53
3	Mo 202.031†	3679.0	3710.8	449.75 µg/L	449.75 ppb	10:50:14
3	Ni 231.604†	8278.6	8047.2	486.73 µg/L	486.73 ppb	10:49:53
3	P 214.914†	1212.6	1007.4	2273.5 µg/L	2273.5 ppb	10:50:14
3	Pb 220.353†	1703.4	1662.8	466.51 µg/L	466.51 ppb	10:50:14
3	S 181.975 Axial†	189.8	168.9	939.16 µg/L	939.16 ppb	10:50:14
3	Sb 206.836†	458.6	440.1	467.00 µg/L	467.00 ppb	10:50:14
3	Se 196.026†	311.3	307.2	481.15 µg/L	481.15 ppb	10:50:14
3	SiO2†	28622.4	26578.8	5426.8 µg/L	5426.8 ppb	10:49:53
3	Si 251.611†	31165.6	31259.7	2532.2 µg/L	2532.2 ppb	10:49:53
3	Sn 189.927†	821.4	807.8	457.93 µg/L	457.93 ppb	10:50:14
3	Ti 334.940†	206961.7	208758.1	504.30 µg/L	504.30 ppb	10:49:48
3	Tl 190.801†	260.7	288.4	484.56 µg/L	484.56 ppb	10:50:14
3	U 409.014†	4928.9	5174.7	479.95 µg/L	479.95 ppb	10:49:53
3	V 292.402†	39966.1	40564.3	493.44 µg/L	493.44 ppb	10:49:53
3	Zn 213.857†	17902.6	17486.6	488.06 µg/L	488.06 ppb	10:49:53

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1955791.7	98.955 %	0.1695			0.17%
Sc RADIAL	77021.3	98.1 %	0.21			0.21%
Y 371.029	1232290.1	98.653 %	0.1914			0.19%
Ag 328.068†	58092.5	528.10 µg/L	13.440	528.10 ppb	13.440	2.54%
QC value within limits for Ag 328.068 Recovery = 105.62%						
Al 396.153Radial†	7909.3	5112.3 µg/L	25.54	5112.3 ppb	25.54	0.50%
QC value within limits for Al 396.153Radial Recovery = 102.25%						
As 188.979†	232.6	506.14 µg/L	40.741	506.14 ppb	40.741	8.05%
QC value within limits for As 188.979 Recovery = 101.23%						
B 249.677†	10725.8	506.17 µg/L	16.139	506.17 ppb	16.139	3.19%
QC value within limits for B 249.677 Recovery = 101.23%						
Ba 233.527†	18438.5	515.97 µg/L	21.321	515.97 ppb	21.321	4.13%
QC value within limits for Ba 233.527 Recovery = 103.19%						
Be 313.107†	766183.7	515.31 µg/L	14.270	515.31 ppb	14.270	2.77%
QC value within limits for Be 313.107 Recovery = 103.06%						
Ca 317.933Radial†	6854.0	4938.6 µg/L	17.87	4938.6 ppb	17.87	0.36%
QC value within limits for Ca 317.933Radial Recovery = 98.77%						
Cd 226.502†	18105.8	512.93 µg/L	22.546	512.93 ppb	22.546	4.40%
QC value within limits for Cd 226.502 Recovery = 102.59%						
Co 228.616†	9697.2	515.22 µg/L	24.431	515.22 ppb	24.431	4.74%

QC value within limits for Co 228.616 Recovery = 103.04%							
Cr 267.716†	23043.4	516.65 µg/L	31.263	516.65 ppb	31.263	6.05%	
QC value within limits for Cr 267.716 Recovery = 103.33%							
Cu 324.752†	71085.2	521.94 µg/L	24.434	521.94 ppb	24.434	4.68%	
QC value within limits for Cu 324.752 Recovery = 104.39%							
Fe 238.204 Radial†	390.7	5184.9 µg/L	14.24	5184.9 ppb	14.24	0.27%	
QC value within limits for Fe 238.204 Radial Recovery = 103.70%							
K 766.490 Radial†	8295.9	5233.9 µg/L	4.42	5233.9 ppb	4.42	0.08%	
QC value within limits for K 766.490 Radial Recovery = 104.68%							
Mg 279.077 IEC†	513.9	5276.5 µg/L	24.52	5276.5 ppb	24.52	0.46%	
QC value within limits for Mg 279.077 IEC Recovery = 105.53%							
Mn 257.610†	143134.9	507.82 µg/L	24.421	507.82 ppb	24.421	4.81%	
QC value within limits for Mn 257.610 Recovery = 101.56%							
Mo 202.031†	4160.3	504.19 µg/L	47.153	504.19 ppb	47.153	9.35%	
QC value within limits for Mo 202.031 Recovery = 100.84%							
Na 589.592 Radial†	37805.7	10065 µg/L	25.5	10065 ppb	25.5	0.25%	
QC value within limits for Na 589.592 Radial Recovery = 100.65%							
Ni 231.604†	8513.2	514.91 µg/L	24.587	514.91 ppb	24.587	4.77%	
QC value within limits for Ni 231.604 Recovery = 102.98%							
P 214.914†	1102.9	2491.4 µg/L	188.75	2491.4 ppb	188.75	7.58%	
QC value within limits for P 214.914 Recovery = 99.66%							
Pb 220.353†	1830.5	513.64 µg/L	40.816	513.64 ppb	40.816	7.95%	
QC value within limits for Pb 220.353 Recovery = 102.73%							
S 181.975 Axial†	184.6	1026.5 µg/L	75.68	1026.5 ppb	75.68	7.37%	
QC value within limits for S 181.975 Axial Recovery = 102.65%							
Sb 206.836†	482.2	511.93 µg/L	38.911	511.93 ppb	38.911	7.60%	
QC value within limits for Sb 206.836 Recovery = 102.39%							
Se 196.026†	334.0	521.50 µg/L	35.199	521.50 ppb	35.199	6.75%	
QC value within limits for Se 196.026 Recovery = 104.30%							
SiO2†	27710.0	5657.7 µg/L	202.06	5657.7 ppb	202.06	3.57%	
QC value within limits for SiO2 Recovery = 105.80%							
Si 251.611†	32606.3	2641.3 µg/L	95.22	2641.3 ppb	95.22	3.61%	
QC value within limits for Si 251.611 Recovery = 105.65%							
Sn 189.927†	912.7	517.06 µg/L	51.308	517.06 ppb	51.308	9.92%	
QC value within limits for Sn 189.927 Recovery = 103.41%							
Sr 421.552†	86285.8	516.15 µg/L	1.818	516.15 ppb	1.818	0.35%	
QC value within limits for Sr 421.552 Recovery = 103.23%							
Ti 334.940†	216199.0	522.29 µg/L	15.649	522.29 ppb	15.649	3.00%	
QC value within limits for Ti 334.940 Recovery = 104.46%							
Tl 190.801†	310.2	521.13 µg/L	31.708	521.13 ppb	31.708	6.08%	
QC value within limits for Tl 190.801 Recovery = 104.23%							
U 409.014†	5512.7	511.37 µg/L	27.513	511.37 ppb	27.513	5.38%	
QC value within limits for U 409.014 Recovery = 102.27%							
V 292.402†	43067.9	524.10 µg/L	26.750	524.10 ppb	26.750	5.10%	
QC value within limits for V 292.402 Recovery = 104.82%							
Zn 213.857†	18438.6	514.65 µg/L	23.350	514.65 ppb	23.350	4.54%	
QC value within limits for Zn 213.857 Recovery = 102.93%							
All analyte(s) passed QC.							

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 10:50:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	75231.2	75231.2	95.9 %		10:50:56
1	Al 396.153Radial†	-11.2	17.8	11.554 µg/L	11.554 ppb	10:50:56
1	Ca 317.933Radial†	266.9	31.3	22.541 µg/L	22.541 ppb	10:51:17
1	Fe 238.204 Radial†	16.7	1.1	14.367 µg/L	14.367 ppb	10:51:17
1	K 766.490 Radial†	420.6	40.0	25.258 µg/L	25.258 ppb	10:50:56
1	Mg 279.077 IEC†	8.7	1.0	9.8006 µg/L	9.8006 ppb	10:51:17
1	Na 589.592 Radial†	390.2	-146.6	-39.031 µg/L	-39.031 ppb	10:50:56
1	Sr 421.552†	684.6	80.1	0.4792 µg/L	0.4792 ppb	10:50:56
1	Sc 361.383	1945581.1	1945581.1	98.438 %		10:52:18
1	Y 371.029	1229700.5	1229700.5	98.446 %		10:52:18
1	Ag 328.068†	-78.5	12.8	0.1182 µg/L	0.1182 ppb	10:52:24
1	As 188.979†	-1.7	1.0	2.0903 µg/L	2.0903 ppb	10:52:45
1	B 249.677†	223.4	-143.0	-6.7797 µg/L	-6.7797 ppb	10:52:45
1	Ba 233.527†	-23.5	0.1	0.0037 µg/L	0.0037 ppb	10:52:45
1	Be 313.107†	3968.8	198.0	0.1331 µg/L	0.1331 ppb	10:52:24
1	Cd 226.502†	-112.3	11.3	0.3182 µg/L	0.3182 ppb	10:52:45
1	Co 228.616†	-48.2	0.4	0.0205 µg/L	0.0205 ppb	10:52:45
1	Cr 267.716†	-49.6	51.8	1.1610 µg/L	1.1610 ppb	10:52:24
1	Cu 324.752†	3841.7	2.7	0.0218 µg/L	0.0218 ppb	10:52:24
1	Mn 257.610†	-39.0	108.2	0.3851 µg/L	0.3851 ppb	10:52:45
1	Mo 202.031†	13.5	1.1	0.1366 µg/L	0.1366 ppb	10:52:45
1	Ni 231.604†	342.6	16.6	1.0047 µg/L	1.0047 ppb	10:52:45
1	P 214.914†	215.8	-0.7	-1.4841 µg/L	-1.4841 ppb	10:52:45
1	Pb 220.353†	65.5	5.3	1.5112 µg/L	1.5112 ppb	10:52:45
1	S 181.975 Axial†	21.4	-1.4	-7.9165 µg/L	-7.9165 ppb	10:52:45
1	Sb 206.836†	28.4	4.8	5.0830 µg/L	5.0830 ppb	10:52:45
1	Se 196.026†	6.6	-1.3	-1.8741 µg/L	-1.8741 ppb	10:52:45
1	SiO2†	2319.8	-32.8	-6.6877 µg/L	-6.6877 ppb	10:52:24
1	Si 251.611†	303.3	25.7	2.0829 µg/L	2.0829 ppb	10:52:45
1	Sn 189.927†	27.2	4.2	2.3657 µg/L	2.3657 ppb	10:52:45
1	Ti 334.940†	788.5	97.1	0.2344 µg/L	0.2344 ppb	10:52:24
1	Tl 190.801†	-19.5	4.7	7.8674 µg/L	7.8674 ppb	10:52:45
1	U 409.014†	-286.2	-104.6	-9.7227 µg/L	-9.7227 ppb	10:52:24
1	V 292.402†	-96.2	17.6	0.2064 µg/L	0.2064 ppb	10:52:24
1	Zn 213.857†	672.5	50.9	1.4260 µg/L	1.4260 ppb	10:52:45
2	Sc RADIAL	75327.1	75327.1	96.0 %		10:51:22
2	Al 396.153Radial†	-11.4	17.7	11.432 µg/L	11.432 ppb	10:51:22
2	Ca 317.933Radial†	277.4	41.8	30.142 µg/L	30.142 ppb	10:51:42
2	Fe 238.204 Radial†	20.4	4.9	65.402 µg/L	65.402 ppb	10:51:42
2	K 766.490 Radial†	426.6	45.7	28.838 µg/L	28.838 ppb	10:51:22
2	Mg 279.077 IEC†	13.3	5.7	57.941 µg/L	57.941 ppb	10:51:42
2	Na 589.592 Radial†	381.4	-156.3	-41.609 µg/L	-41.609 ppb	10:51:22
2	Sr 421.552†	729.6	126.2	0.7547 µg/L	0.7547 ppb	10:51:22
2	Sc 361.383	1930357.7	1930357.7	97.668 %		10:52:50
2	Y 371.029	1220252.1	1220252.1	97.690 %		10:52:50
2	Ag 328.068†	-94.7	-4.4	-0.0353 µg/L	-0.0353 ppb	10:52:56
2	As 188.979†	-2.6	0.0	0.0602 µg/L	0.0602 ppb	10:53:16
2	B 249.677†	212.4	-152.5	-7.2569 µg/L	-7.2569 ppb	10:53:16
2	Ba 233.527†	-27.9	-4.6	-0.1297 µg/L	-0.1297 ppb	10:53:16
2	Be 313.107†	3898.5	157.8	0.1060 µg/L	0.1060 ppb	10:52:56
2	Cd 226.502†	-124.3	-2.0	-0.0639 µg/L	-0.0639 ppb	10:53:16
2	Co 228.616†	-48.5	-0.4	-0.0206 µg/L	-0.0206 ppb	10:53:16
2	Cr 267.716†	-56.0	44.8	1.0034 µg/L	1.0034 ppb	10:52:56
2	Cu 324.752†	3868.5	61.0	0.4561 µg/L	0.4561 ppb	10:52:56
2	Mn 257.610†	-38.7	108.2	0.3900 µg/L	0.3900 ppb	10:53:16
2	Mo 202.031†	18.7	6.6	0.7974 µg/L	0.7974 ppb	10:53:16
2	Ni 231.604†	330.1	6.6	0.3994 µg/L	0.3994 ppb	10:53:16
2	P 214.914†	218.8	4.1	9.4400 µg/L	9.4400 ppb	10:53:16
2	Pb 220.353†	62.5	2.8	0.7895 µg/L	0.7895 ppb	10:53:16

2	S 181.975 Axial†	27.3	4.9	27.048 µg/L	27.048 ppb	10:53:16
2	Sb 206.836†	26.6	3.2	3.3907 µg/L	3.3907 ppb	10:53:16
2	Se 196.026†	8.4	0.6	1.1883 µg/L	1.1883 ppb	10:53:16
2	SiO2†	2323.1	-10.8	-2.2012 µg/L	-2.2012 ppb	10:52:56
2	Si 251.611†	312.8	37.9	3.0672 µg/L	3.0672 ppb	10:53:16
2	Sn 189.927†	21.0	-2.0	-1.1040 µg/L	-1.1040 ppb	10:53:16
2	Ti 334.940†	822.8	138.6	0.3309 µg/L	0.3309 ppb	10:52:56
2	Tl 190.801†	-21.5	2.5	4.1199 µg/L	4.1199 ppb	10:53:16
2	U 409.014†	-240.2	-59.7	-5.5623 µg/L	-5.5623 ppb	10:52:56
2	V 292.402†	-108.6	4.2	0.0563 µg/L	0.0563 ppb	10:52:56
2	Zn 213.857†	675.9	59.8	1.6716 µg/L	1.6716 ppb	10:53:16
3	Sc RADIAL	75139.4	75139.4	95.7 %		10:51:48
3	Al 396.153Radial†	-18.7	9.9	6.4256 µg/L	6.4256 ppb	10:51:48
3	Ca 317.933Radial†	266.8	31.5	22.665 µg/L	22.665 ppb	10:52:08
3	Fe 238.204 Radial†	18.9	3.4	45.202 µg/L	45.202 ppb	10:52:08
3	K 766.490 Radial†	353.6	-29.4	-18.566 µg/L	-18.566 ppb	10:51:48
3	Mg 279.077 IEC†	8.4	0.6	6.5688 µg/L	6.5688 ppb	10:52:08
3	Na 589.592 Radial†	377.2	-159.7	-42.520 µg/L	-42.520 ppb	10:51:48
3	Sr 421.552†	675.9	71.9	0.4301 µg/L	0.4301 ppb	10:51:48
3	Sc 361.383	1940930.1	1940930.1	98.203 %		10:53:22
3	Y 371.029	1226535.3	1226535.3	98.193 %		10:53:22
3	Ag 328.068†	-125.7	-35.4	-0.3154 µg/L	-0.3154 ppb	10:53:28
3	As 188.979†	3.2	6.0	13.066 µg/L	13.066 ppb	10:53:48
3	B 249.677†	207.0	-159.2	-7.5630 µg/L	-7.5630 ppb	10:53:48
3	Ba 233.527†	-19.9	3.7	0.1050 µg/L	0.1050 ppb	10:53:48
3	Be 313.107†	3949.1	187.6	0.1260 µg/L	0.1260 ppb	10:53:28
3	Cd 226.502†	-117.1	6.0	0.1646 µg/L	0.1646 ppb	10:53:48
3	Co 228.616†	-42.1	6.5	0.3450 µg/L	0.3450 ppb	10:53:48
3	Cr 267.716†	-63.4	37.6	0.8435 µg/L	0.8435 ppb	10:53:28
3	Cu 324.752†	3845.7	16.1	0.1245 µg/L	0.1245 ppb	10:53:28
3	Mn 257.610†	-47.2	99.8	0.3596 µg/L	0.3596 ppb	10:53:48
3	Mo 202.031†	16.9	4.6	0.5602 µg/L	0.5602 ppb	10:53:48
3	Ni 231.604†	318.2	-7.4	-0.4450 µg/L	-0.4450 ppb	10:53:48
3	P 214.914†	213.2	-2.7	-6.3285 µg/L	-6.3285 ppb	10:53:48
3	Pb 220.353†	57.2	-2.9	-0.8102 µg/L	-0.8102 ppb	10:53:48
3	S 181.975 Axial†	17.2	-5.6	-31.179 µg/L	-31.179 ppb	10:53:48
3	Sb 206.836†	22.8	-0.8	-0.8682 µg/L	-0.8682 ppb	10:53:48
3	Se 196.026†	7.1	-0.7	-0.8702 µg/L	-0.8702 ppb	10:53:48
3	SiO2†	2318.6	-28.3	-5.7827 µg/L	-5.7827 ppb	10:53:28
3	Si 251.611†	327.7	51.3	4.1527 µg/L	4.1527 ppb	10:53:48
3	Sn 189.927†	27.8	4.8	2.7165 µg/L	2.7165 ppb	10:53:48
3	Ti 334.940†	864.0	176.0	0.4253 µg/L	0.4253 ppb	10:53:28
3	Tl 190.801†	-19.3	4.9	8.1730 µg/L	8.1730 ppb	10:53:48
3	U 409.014†	-208.2	-25.8	-2.4070 µg/L	-2.4070 ppb	10:53:28
3	V 292.402†	-92.9	20.7	0.2553 µg/L	0.2553 ppb	10:53:28
3	Zn 213.857†	666.8	46.7	1.3119 µg/L	1.3119 ppb	10:53:48

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1938956.3	98.103 %	0.3947			0.40%
Sc RADIAL	75232.6	95.9 %	0.12			0.12%
Y 371.029	1225496.0	98.110 %	0.3850			0.39%
Ag 328.068†	-9.0	-0.0775 µg/L	0.21989	-0.0775 ppb	0.21989	283.78%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	15.2	9.8037 µg/L	2.92610	9.8037 ppb	2.92610	29.85%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.3	5.0722 µg/L	6.99693	5.0722 ppb	6.99693	137.95%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-151.6	-7.1999 µg/L	0.39473	-7.1999 ppb	0.39473	5.48%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.3	-0.0070 µg/L	0.11775	-0.0070 ppb	0.11775	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	181.1	0.1217 µg/L	0.01405	0.1217 ppb	0.01405	11.54%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	34.9	25.116 µg/L	4.3535	25.116 ppb	4.3535	17.33%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.1	0.1397 µg/L	0.19227	0.1397 ppb	0.19227	137.67%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.2	0.1150 µg/L	0.20024	0.1150 ppb	0.20024	174.16%

Cr	267.716†	44.7	1.0026 µg/L	0.15872	1.0026 ppb	0.15872	15.83%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	26.6	0.2008 µg/L	0.22697	0.2008 ppb	0.22697	113.03%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	3.1	41.657 µg/L	25.7017	41.657 ppb	25.7017	61.70%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	18.8	11.844 µg/L	26.3964	11.844 ppb	26.3964	222.87%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	2.4	24.770 µg/L	28.7723	24.770 ppb	28.7723	116.16%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	105.4	0.3782 µg/L	0.01632	0.3782 ppb	0.01632	4.32%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	4.1	0.4981 µg/L	0.33476	0.4981 ppb	0.33476	67.21%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-154.2	-41.053 µg/L	1.8096	-41.053 ppb	1.8096	4.41%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	5.3	0.3197 µg/L	0.72810	0.3197 ppb	0.72810	227.76%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	0.2	0.5425 µg/L	8.07723	0.5425 ppb	8.07723	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	1.7	0.4969 µg/L	1.18803	0.4969 ppb	1.18803	239.11%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.7	-4.0157 µg/L	29.30903	-4.0157 ppb	29.30903	729.86%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	2.4	2.5352 µg/L	3.06641	2.5352 ppb	3.06641	120.96%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-0.5	-0.5187 µg/L	1.56120	-0.5187 ppb	1.56120	301.01%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-24.0	-4.8905 µg/L	2.37257	-4.8905 ppb	2.37257	48.51%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	38.3	3.1009 µg/L	1.03533	3.1009 ppb	1.03533	33.39%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	2.3	1.3260 µg/L	2.11181	1.3260 ppb	2.11181	159.26%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	92.7	0.5546 µg/L	0.17494	0.5546 ppb	0.17494	31.54%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	137.2	0.3302 µg/L	0.09544	0.3302 ppb	0.09544	28.91%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	4.0	6.7201 µg/L	2.25705	6.7201 ppb	2.25705	33.59%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-63.4	-5.8973 µg/L	3.66930	-5.8973 ppb	3.66930	62.22%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	14.2	0.1727 µg/L	0.10374	0.1727 ppb	0.10374	60.08%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	52.5	1.4698 µg/L	0.18384	1.4698 ppb	0.18384	12.51%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 11:31:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76971.1	76971.1	98.1 %		11:31:52
1	Al 396.153Radial†	7811.1	7993.7	5166.1 µg/L	5166.1 ppb	11:31:52
1	Ca 317.933Radial†	7086.9	6978.6	5028.4 µg/L	5028.4 ppb	11:31:52
1	Fe 238.204 Radial†	401.1	392.6	5210.1 µg/L	5210.1 ppb	11:32:12
1	K 766.490 Radial†	8567.9	8337.2	5260.0 µg/L	5260.0 ppb	11:31:52
1	Mg 279.077 IEC†	513.7	515.6	5295.5 µg/L	5295.5 ppb	11:32:12
1	Na 589.592 Radial†	37715.1	37901.0	10091 µg/L	10091 ppb	11:31:52
1	Sr 421.552†	85484.4	86526.7	517.59 µg/L	517.59 ppb	11:31:52
1	Sc 361.383	1937795.6	1937795.6	98.044 %		11:33:16
1	Y 371.029	1220068.3	1220068.3	97.675 %		11:33:16
1	Ag 328.068†	58696.3	59959.9	545.13 µg/L	545.13 ppb	11:33:21
1	As 188.979†	245.2	252.9	550.12 µg/L	550.12 ppb	11:33:42
1	B 249.677†	11183.3	11036.5	520.92 µg/L	520.92 ppb	11:33:21
1	Ba 233.527†	18848.9	19248.9	538.66 µg/L	538.66 ppb	11:33:21
1	Be 313.107†	775384.1	787019.4	529.33 µg/L	529.33 ppb	11:33:16
1	Cd 226.502†	18413.2	18905.9	535.62 µg/L	535.62 ppb	11:33:21
1	Co 228.616†	9870.3	10116.5	537.54 µg/L	537.54 ppb	11:33:21
1	Cr 267.716†	23651.1	24225.1	543.15 µg/L	543.15 ppb	11:33:21
1	Cu 324.752†	76721.0	74351.6	545.90 µg/L	545.90 ppb	11:33:21
1	Mn 257.610†	146912.8	149991.6	532.13 µg/L	532.13 ppb	11:33:16
1	Mo 202.031†	4410.4	4485.8	543.64 µg/L	543.64 ppb	11:33:42
1	Ni 231.604†	9084.6	8934.4	540.39 µg/L	540.39 ppb	11:33:21
1	P 214.914†	1384.6	1192.4	2695.8 µg/L	2695.8 ppb	11:33:42
1	Pb 220.353†	1968.7	1946.8	546.30 µg/L	546.30 ppb	11:33:42
1	S 181.975 Axial†	213.1	194.2	1079.5 µg/L	1079.5 ppb	11:33:42
1	Sb 206.836†	530.8	517.4	549.57 µg/L	549.57 ppb	11:33:42
1	Se 196.026†	356.7	355.9	554.57 µg/L	554.57 ppb	11:33:42
1	SiO2†	30586.2	28807.0	5881.7 µg/L	5881.7 ppb	11:33:21
1	Si 251.611†	33521.0	33907.4	2746.7 µg/L	2746.7 ppb	11:33:21
1	Sn 189.927†	988.7	984.9	557.79 µg/L	557.79 ppb	11:33:42
1	Ti 334.940†	218562.4	222218.9	536.84 µg/L	536.84 ppb	11:33:16
1	Tl 190.801†	300.4	331.0	555.83 µg/L	555.83 ppb	11:33:42
1	U 409.014†	5464.0	5759.2	534.27 µg/L	534.27 ppb	11:33:21
1	V 292.402†	44189.0	45185.8	549.97 µg/L	549.97 ppb	11:33:21
1	Zn 213.857†	19549.8	19307.5	538.92 µg/L	538.92 ppb	11:33:21
2	Sc RADIAL	76409.5	76409.5	97.4 %		11:32:18
2	Al 396.153Radial†	7718.9	7957.6	5142.8 µg/L	5142.8 ppb	11:32:18
2	Ca 317.933Radial†	7075.7	7020.3	5058.4 µg/L	5058.4 ppb	11:32:18
2	Fe 238.204 Radial†	403.5	398.1	5283.3 µg/L	5283.3 ppb	11:32:38
2	K 766.490 Radial†	8571.8	8405.4	5303.0 µg/L	5303.0 ppb	11:32:18
2	Mg 279.077 IEC†	510.1	515.7	5296.4 µg/L	5296.4 ppb	11:32:38
2	Na 589.592 Radial†	37580.6	38045.5	10129 µg/L	10129 ppb	11:32:18
2	Sr 421.552†	85253.8	86930.5	520.01 µg/L	520.01 ppb	11:32:18
2	Sc 361.383	1927407.1	1927407.1	97.518 %		11:33:49
2	Y 371.029	1214105.6	1214105.6	97.198 %		11:33:49
2	Ag 328.068†	58376.6	59954.7	545.08 µg/L	545.08 ppb	11:33:54
2	As 188.979†	242.2	251.1	546.32 µg/L	546.32 ppb	11:34:15
2	B 249.677†	11091.1	11003.4	519.31 µg/L	519.31 ppb	11:33:54
2	Ba 233.527†	18723.5	19223.9	537.96 µg/L	537.96 ppb	11:33:54
2	Be 313.107†	770467.7	786240.4	528.80 µg/L	528.80 ppb	11:33:49
2	Cd 226.502†	18278.0	18868.4	534.55 µg/L	534.55 ppb	11:33:54
2	Co 228.616†	9848.3	10148.2	539.22 µg/L	539.22 ppb	11:33:54
2	Cr 267.716†	23581.2	24283.4	544.45 µg/L	544.45 ppb	11:33:54
2	Cu 324.752†	76131.7	74169.1	544.57 µg/L	544.57 ppb	11:33:54
2	Mn 257.610†	146043.7	149908.0	531.84 µg/L	531.84 ppb	11:33:49
2	Mo 202.031†	4351.5	4449.6	539.26 µg/L	539.26 ppb	11:34:15
2	Ni 231.604†	9051.3	8950.2	541.35 µg/L	541.35 ppb	11:33:54
2	P 214.914†	1372.3	1187.4	2684.3 µg/L	2684.3 ppb	11:34:15
2	Pb 220.353†	1964.9	1953.8	548.23 µg/L	548.23 ppb	11:34:15

2	S 181.975 Axial†	214.4	196.7	1093.5 µg/L	1093.5 ppb	11:34:15
2	Sb 206.836†	519.3	508.5	540.02 µg/L	540.02 ppb	11:34:15
2	Se 196.026†	356.3	357.4	557.19 µg/L	557.19 ppb	11:34:15
2	SiO2†	30415.3	28799.9	5880.3 µg/L	5880.3 ppb	11:33:54
2	Si 251.611†	33325.4	33891.0	2745.3 µg/L	2745.3 ppb	11:33:54
2	Sn 189.927†	978.8	980.2	555.13 µg/L	555.13 ppb	11:34:15
2	Ti 334.940†	216999.7	221817.9	535.87 µg/L	535.87 ppb	11:33:49
2	Tl 190.801†	299.4	331.6	556.82 µg/L	556.82 ppb	11:34:15
2	U 409.014†	5485.0	5810.8	539.05 µg/L	539.05 ppb	11:33:54
2	V 292.402†	43865.2	45096.8	548.88 µg/L	548.88 ppb	11:33:54
2	Zn 213.857†	19437.8	19300.1	538.71 µg/L	538.71 ppb	11:33:54
3	Sc RADIAL	76742.1	76742.1	97.8 %		11:32:44
3	Al 396.153Radial†	7769.4	7974.9	5155.7 µg/L	5155.7 ppb	11:32:44
3	Ca 317.933Radial†	7076.8	6990.0	5036.6 µg/L	5036.6 ppb	11:32:44
3	Fe 238.204 Radial†	401.9	394.6	5236.0 µg/L	5236.0 ppb	11:33:04
3	K 766.490 Radial†	8586.4	8382.2	5288.4 µg/L	5288.4 ppb	11:32:44
3	Mg 279.077 IEC†	513.4	516.9	5306.9 µg/L	5306.9 ppb	11:33:04
3	Na 589.592 Radial†	37652.4	37951.6	10104 µg/L	10104 ppb	11:32:44
3	Sr 421.552†	85507.0	86809.9	519.29 µg/L	519.29 ppb	11:32:44
3	Sc 361.383	1936491.3	1936491.3	97.978 %		11:34:22
3	Y 371.029	1219218.7	1219218.7	97.607 %		11:34:22
3	Ag 328.068†	56015.0	57263.5	520.48 µg/L	520.48 ppb	11:34:28
3	As 188.979†	213.8	220.9	480.74 µg/L	480.74 ppb	11:34:48
3	B 249.677†	10652.0	10501.9	495.49 µg/L	495.49 ppb	11:34:28
3	Ba 233.527†	17500.5	17885.7	500.49 µg/L	500.49 ppb	11:34:28
3	Be 313.107†	738595.5	750004.2	504.43 µg/L	504.43 ppb	11:34:22
3	Cd 226.502†	17091.7	17569.7	497.71 µg/L	497.71 ppb	11:34:28
3	Co 228.616†	9093.1	9330.1	495.68 µg/L	495.68 ppb	11:34:28
3	Cr 267.716†	21253.0	21793.8	488.64 µg/L	488.64 ppb	11:34:28
3	Cu 324.752†	70887.4	68450.3	502.63 µg/L	502.63 ppb	11:34:28
3	Mn 257.610†	140102.7	143141.8	507.86 µg/L	507.86 ppb	11:34:22
3	Mo 202.031†	3707.1	3771.1	457.05 µg/L	457.05 ppb	11:34:48
3	Ni 231.604†	8354.3	8195.3	495.69 µg/L	495.69 ppb	11:34:28
3	P 214.914†	1214.1	1019.3	2300.2 µg/L	2300.2 ppb	11:34:48
3	Pb 220.353†	1724.4	1698.8	476.61 µg/L	476.61 ppb	11:34:48
3	S 181.975 Axial†	192.8	173.6	965.29 µg/L	965.29 ppb	11:34:48
3	Sb 206.836†	464.3	449.9	477.30 µg/L	477.30 ppb	11:34:48
3	Se 196.026†	316.3	314.9	493.04 µg/L	493.04 ppb	11:34:48
3	SiO2†	28840.4	27046.2	5522.2 µg/L	5522.2 ppb	11:34:28
3	Si 251.611†	31474.0	31841.1	2579.3 µg/L	2579.3 ppb	11:34:28
3	Sn 189.927†	828.0	821.6	465.72 µg/L	465.72 ppb	11:34:48
3	Ti 334.940†	207072.5	210642.0	508.85 µg/L	508.85 ppb	11:34:22
3	Tl 190.801†	263.5	293.5	493.13 µg/L	493.13 ppb	11:34:48
3	U 409.014†	4986.2	5275.3	489.29 µg/L	489.29 ppb	11:34:28
3	V 292.402†	40281.5	41228.1	501.51 µg/L	501.51 ppb	11:34:28
3	Zn 213.857†	18011.3	17750.7	495.43 µg/L	495.43 ppb	11:34:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1933898.0	97.847 %	0.2863			0.29%
Sc RADIAL	76707.6	97.7 %	0.36			0.37%
Y 371.029	1217797.5	97.493 %	0.2582			0.26%
Ag 328.068†	59059.4	536.89 µg/L	14.218	536.89 ppb	14.218	2.65%
QC value within limits for Ag 328.068 Recovery = 107.38%						
Al 396.153Radial†	7975.4	5154.9 µg/L	11.67	5154.9 ppb	11.67	0.23%
QC value within limits for Al 396.153Radial Recovery = 103.10%						
As 188.979†	241.6	525.73 µg/L	39.005	525.73 ppb	39.005	7.42%
QC value within limits for As 188.979 Recovery = 105.15%						
B 249.677†	10847.3	511.91 µg/L	14.238	511.91 ppb	14.238	2.78%
QC value within limits for B 249.677 Recovery = 102.38%						
Ba 233.527†	18786.2	525.70 µg/L	21.836	525.70 ppb	21.836	4.15%
QC value within limits for Ba 233.527 Recovery = 105.14%						
Be 313.107†	774421.3	520.85 µg/L	14.224	520.85 ppb	14.224	2.73%
QC value within limits for Be 313.107 Recovery = 104.17%						
Ca 317.933Radial†	6996.3	5041.2 µg/L	15.51	5041.2 ppb	15.51	0.31%
QC value within limits for Ca 317.933Radial Recovery = 100.82%						
Cd 226.502†	18448.0	522.63 µg/L	21.583	522.63 ppb	21.583	4.13%
QC value within limits for Cd 226.502 Recovery = 104.53%						
Co 228.616†	9864.9	524.15 µg/L	24.665	524.15 ppb	24.665	4.71%

QC value within limits for Co 228.616	Recovery = 104.83%				
Cr 267.716†	23434.1	525.41 µg/L	31.853	525.41 ppb	31.853 6.06%
QC value within limits for Cr 267.716	Recovery = 105.08%				
Cu 324.752†	72323.7	531.03 µg/L	24.606	531.03 ppb	24.606 4.63%
QC value within limits for Cu 324.752	Recovery = 106.21%				
Fe 238.204 Radial†	395.1	5243.1 µg/L	37.10	5243.1 ppb	37.10 0.71%
QC value within limits for Fe 238.204 Radial	Recovery = 104.86%				
K 766.490 Radial†	8374.9	5283.8 µg/L	21.88	5283.8 ppb	21.88 0.41%
QC value within limits for K 766.490 Radial	Recovery = 105.68%				
Mg 279.077 IEC†	516.1	5299.6 µg/L	6.37	5299.6 ppb	6.37 0.12%
QC value within limits for Mg 279.077 IEC	Recovery = 105.99%				
Mn 257.610†	147680.5	523.94 µg/L	13.934	523.94 ppb	13.934 2.66%
QC value within limits for Mn 257.610	Recovery = 104.79%				
Mo 202.031†	4235.5	513.31 µg/L	48.777	513.31 ppb	48.777 9.50%
QC value within limits for Mo 202.031	Recovery = 102.66%				
Na 589.592 Radial†	37966.0	10108 µg/L	19.5	10108 ppb	19.5 0.19%
QC value within limits for Na 589.592 Radial	Recovery = 101.08%				
Ni 231.604†	8693.3	525.81 µg/L	26.088	525.81 ppb	26.088 4.96%
QC value within limits for Ni 231.604	Recovery = 105.16%				
P 214.914†	1133.0	2560.1 µg/L	225.18	2560.1 ppb	225.18 8.80%
QC value within limits for P 214.914	Recovery = 102.40%				
Pb 220.353†	1866.5	523.72 µg/L	40.805	523.72 ppb	40.805 7.79%
QC value within limits for Pb 220.353	Recovery = 104.74%				
S 181.975 Axial†	188.2	1046.1 µg/L	70.34	1046.1 ppb	70.34 6.72%
QC value within limits for S 181.975 Axial	Recovery = 104.61%				
Sb 206.836†	491.9	522.30 µg/L	39.258	522.30 ppb	39.258 7.52%
QC value within limits for Sb 206.836	Recovery = 104.46%				
Se 196.026†	342.7	534.93 µg/L	36.306	534.93 ppb	36.306 6.79%
QC value within limits for Se 196.026	Recovery = 106.99%				
SiO2†	28217.7	5761.4 µg/L	207.15	5761.4 ppb	207.15 3.60%
QC value within limits for SiO2	Recovery = 107.74%				
Si 251.611†	33213.1	2690.4 µg/L	96.26	2690.4 ppb	96.26 3.58%
QC value within limits for Si 251.611	Recovery = 107.62%				
Sn 189.927†	928.9	526.22 µg/L	52.405	526.22 ppb	52.405 9.96%
QC value within limits for Sn 189.927	Recovery = 105.24%				
Sr 421.552†	86755.7	518.97 µg/L	1.240	518.97 ppb	1.240 0.24%
QC value within limits for Sr 421.552	Recovery = 103.79%				
Ti 334.940†	218226.3	527.19 µg/L	15.885	527.19 ppb	15.885 3.01%
QC value within limits for Ti 334.940	Recovery = 105.44%				
Tl 190.801†	318.7	535.26 µg/L	36.487	535.26 ppb	36.487 6.82%
QC value within limits for Tl 190.801	Recovery = 107.05%				
U 409.014†	5615.1	520.87 µg/L	27.456	520.87 ppb	27.456 5.27%
QC value within limits for U 409.014	Recovery = 104.17%				
V 292.402†	43836.9	533.45 µg/L	27.668	533.45 ppb	27.668 5.19%
QC value within limits for V 292.402	Recovery = 106.69%				
Zn 213.857†	18786.1	524.35 µg/L	25.051	524.35 ppb	25.051 4.78%
QC value within limits for Zn 213.857	Recovery = 104.87%				

All analyte(s) passed QC.

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

Autosampler Location: 8
 Date Collected: 1/29/2010 11:34:57
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	75715.3	75715.3	96.5 %		11:35:30
1	Al 396.153Radial†	-14.8	14.1	9.1296 µg/L	9.1296 ppb	11:35:30
1	Ca 317.933Radial†	259.1	21.3	15.370 µg/L	15.370 ppb	11:35:50
1	Fe 238.204 Radial†	17.9	2.2	29.035 µg/L	29.035 ppb	11:35:50
1	K 766.490 Radial†	331.1	-55.5	-35.014 µg/L	-35.014 ppb	11:35:30
1	Mg 279.077 IEC†	10.2	2.4	24.773 µg/L	24.773 ppb	11:35:50
1	Na 589.592 Radial†	382.4	-157.3	-41.869 µg/L	-41.869 ppb	11:35:30
1	Sr 421.552†	641.5	30.9	0.1849 µg/L	0.1849 ppb	11:35:30
1	Sc 361.383	1928783.8	1928783.8	97.588 %		11:36:52
1	Y 371.029	1219113.1	1219113.1	97.599 %		11:36:52
1	Ag 328.068†	-44.5	47.0	0.4269 µg/L	0.4269 ppb	11:36:58
1	As 188.979†	-3.0	-0.3	-0.6596 µg/L	-0.6596 ppb	11:37:18
1	B 249.677†	182.0	-183.5	-8.7047 µg/L	-8.7047 ppb	11:37:18
1	Ba 233.527†	-21.6	1.9	0.0522 µg/L	0.0522 ppb	11:37:18
1	Be 313.107†	3892.5	154.9	0.1042 µg/L	0.1042 ppb	11:36:58
1	Cd 226.502†	-128.0	-5.9	-0.1709 µg/L	-0.1709 ppb	11:37:18
1	Co 228.616†	-44.0	4.2	0.2230 µg/L	0.2230 ppb	11:37:18
1	Cr 267.716†	-73.0	27.4	0.6130 µg/L	0.6130 ppb	11:36:58
1	Cu 324.752†	3848.5	43.6	0.3240 µg/L	0.3240 ppb	11:36:58
1	Mn 257.610†	-113.3	31.7	0.1154 µg/L	0.1154 ppb	11:37:18
1	Mo 202.031†	16.7	4.6	0.5546 µg/L	0.5546 ppb	11:37:18
1	Ni 231.604†	327.0	3.7	0.2233 µg/L	0.2233 ppb	11:37:18
1	P 214.914†	220.7	6.3	14.486 µg/L	14.486 ppb	11:37:18
1	Pb 220.353†	57.9	-1.8	-0.5141 µg/L	-0.5141 ppb	11:37:18
1	S 181.975 Axial†	22.4	-0.2	-1.2557 µg/L	-1.2557 ppb	11:37:18
1	Sb 206.836†	22.2	-1.3	-1.3317 µg/L	-1.3317 ppb	11:37:18
1	Se 196.026†	4.4	-3.4	-5.0249 µg/L	-5.0249 ppb	11:37:18
1	SiO2†	2329.4	-2.4	-0.4927 µg/L	-0.4927 ppb	11:36:58
1	Si 251.611†	314.0	39.3	3.1827 µg/L	3.1827 ppb	11:37:18
1	Sn 189.927†	21.9	-1.0	-0.5456 µg/L	-0.5456 ppb	11:37:18
1	Ti 334.940†	747.1	61.7	0.1475 µg/L	0.1475 ppb	11:36:58
1	Tl 190.801†	-21.3	2.7	4.4737 µg/L	4.4737 ppb	11:37:18
1	U 409.014†	-222.9	-42.2	-3.9278 µg/L	-3.9278 ppb	11:36:58
1	V 292.402†	-103.4	9.3	0.1153 µg/L	0.1153 ppb	11:36:58
1	Zn 213.857†	651.6	35.5	0.9930 µg/L	0.9930 ppb	11:37:18
2	Sc RADIAL	75337.3	75337.3	96.0 %		11:35:56
2	Al 396.153Radial†	-13.6	15.4	9.9309 µg/L	9.9309 ppb	11:35:56
2	Ca 317.933Radial†	255.5	19.0	13.691 µg/L	13.691 ppb	11:36:16
2	Fe 238.204 Radial†	17.9	2.3	30.321 µg/L	30.321 ppb	11:36:16
2	K 766.490 Radial†	439.3	58.9	37.182 µg/L	37.182 ppb	11:35:56
2	Mg 279.077 IEC†	8.8	1.0	10.612 µg/L	10.612 ppb	11:36:16
2	Na 589.592 Radial†	352.3	-186.7	-49.698 µg/L	-49.698 ppb	11:35:56
2	Sr 421.552†	599.0	-10.0	-0.0598 µg/L	-0.0598 ppb	11:35:56
2	Sc 361.383	1934472.0	1934472.0	97.876 %		11:37:24
2	Y 371.029	1222662.1	1222662.1	97.883 %		11:37:24
2	Ag 328.068†	-64.6	26.6	0.2447 µg/L	0.2447 ppb	11:37:30
2	As 188.979†	-0.1	2.6	5.7453 µg/L	5.7453 ppb	11:37:51
2	B 249.677†	157.7	-208.9	-9.9068 µg/L	-9.9068 ppb	11:37:51
2	Ba 233.527†	-21.1	2.4	0.0674 µg/L	0.0674 ppb	11:37:51
2	Be 313.107†	3902.4	153.3	0.1031 µg/L	0.1031 ppb	11:37:30
2	Cd 226.502†	-125.1	-2.5	-0.0742 µg/L	-0.0742 ppb	11:37:51
2	Co 228.616†	-39.6	8.9	0.4725 µg/L	0.4725 ppb	11:37:51
2	Cr 267.716†	-38.2	63.1	1.4135 µg/L	1.4135 ppb	11:37:30
2	Cu 324.752†	3805.8	-11.6	-0.0808 µg/L	-0.0808 ppb	11:37:30
2	Mn 257.610†	-90.5	55.4	0.1999 µg/L	0.1999 ppb	11:37:51
2	Mo 202.031†	22.5	10.4	1.2585 µg/L	1.2585 ppb	11:37:51
2	Ni 231.604†	331.7	7.4	0.4504 µg/L	0.4504 ppb	11:37:51
2	P 214.914†	216.3	1.2	2.6825 µg/L	2.6825 ppb	11:37:51
2	Pb 220.353†	58.1	-1.8	-0.5055 µg/L	-0.5055 ppb	11:37:51

2	S 181.975 Axial†	25.5	2.9	16.343 µg/L	16.343 ppb	11:37:51
2	Sb 206.836†	32.3	9.0	9.5190 µg/L	9.5190 ppb	11:37:51
2	Se 196.026†	10.3	2.6	4.0391 µg/L	4.0391 ppb	11:37:51
2	SiO2†	2309.7	-29.6	-6.0342 µg/L	-6.0342 ppb	11:37:30
2	Si 251.611†	315.2	39.6	3.2114 µg/L	3.2114 ppb	11:37:51
2	Sn 189.927†	25.4	2.5	1.3912 µg/L	1.3912 ppb	11:37:51
2	Ti 334.940†	751.0	63.4	0.1526 µg/L	0.1526 ppb	11:37:30
2	Tl 190.801†	8.0	32.7	54.411 µg/L	54.411 ppb	11:37:51
2	U 409.014†	-250.9	-70.2	-6.5266 µg/L	-6.5266 ppb	11:37:30
2	V 292.402†	-83.0	30.6	0.3754 µg/L	0.3754 ppb	11:37:30
2	Zn 213.857†	649.4	31.2	0.8728 µg/L	0.8728 ppb	11:37:51
3	Sc RADIAL	75331.0	75331.0	96.0 %		11:36:22
3	Al 396.153Radial†	-41.6	-13.8	-8.9884 µg/L	-8.9884 ppb	11:36:22
3	Ca 317.933Radial†	264.1	28.0	20.140 µg/L	20.140 ppb	11:36:42
3	Fe 238.204 Radial†	18.0	2.4	32.302 µg/L	32.302 ppb	11:36:42
3	K 766.490 Radial†	411.6	30.1	18.985 µg/L	18.985 ppb	11:36:22
3	Mg 279.077 IEC†	9.3	1.5	15.369 µg/L	15.369 ppb	11:36:42
3	Na 589.592 Radial†	363.3	-175.1	-46.630 µg/L	-46.630 ppb	11:36:22
3	Sr 421.552†	603.6	-5.2	-0.0313 µg/L	-0.0313 ppb	11:36:22
3	Sc 361.383	1934376.1	1934376.1	97.871 %		11:37:56
3	Y 371.029	1222642.5	1222642.5	97.881 %		11:37:56
3	Ag 328.068†	-27.5	64.5	0.5846 µg/L	0.5846 ppb	11:38:02
3	As 188.979†	-2.2	0.4	0.9272 µg/L	0.9272 ppb	11:38:23
3	B 249.677†	170.6	-195.6	-9.2829 µg/L	-9.2829 ppb	11:38:23
3	Ba 233.527†	-18.4	5.1	0.1434 µg/L	0.1434 ppb	11:38:23
3	Be 313.107†	3943.6	195.6	0.1315 µg/L	0.1315 ppb	11:38:02
3	Cd 226.502†	-130.9	-8.5	-0.2439 µg/L	-0.2439 ppb	11:38:23
3	Co 228.616†	-44.0	4.4	0.2336 µg/L	0.2336 ppb	11:38:23
3	Cr 267.716†	-82.6	17.7	0.3977 µg/L	0.3977 ppb	11:38:02
3	Cu 324.752†	3805.2	-12.0	-0.0832 µg/L	-0.0832 ppb	11:38:02
3	Mn 257.610†	-106.5	39.0	0.1420 µg/L	0.1420 ppb	11:38:23
3	Mo 202.031†	22.5	10.4	1.2672 µg/L	1.2672 ppb	11:38:23
3	Ni 231.604†	331.5	7.3	0.4413 µg/L	0.4413 ppb	11:38:23
3	P 214.914†	220.1	5.1	11.591 µg/L	11.591 ppb	11:38:23
3	Pb 220.353†	70.1	10.4	2.9319 µg/L	2.9319 ppb	11:38:23
3	S 181.975 Axial†	22.2	-0.4	-2.2913 µg/L	-2.2913 ppb	11:38:23
3	Sb 206.836†	25.2	1.7	1.8562 µg/L	1.8562 ppb	11:38:23
3	Se 196.026†	9.4	1.7	2.6787 µg/L	2.6787 ppb	11:38:23
3	SiO2†	2326.1	-12.7	-2.5984 µg/L	-2.5984 ppb	11:38:02
3	Si 251.611†	310.4	34.7	2.8119 µg/L	2.8119 ppb	11:38:23
3	Sn 189.927†	19.3	-3.7	-2.0873 µg/L	-2.0873 ppb	11:38:23
3	Ti 334.940†	756.2	68.8	0.1654 µg/L	0.1654 ppb	11:38:02
3	Tl 190.801†	-23.7	0.4	0.5940 µg/L	0.5940 ppb	11:38:23
3	U 409.014†	-210.8	-29.1	-2.7131 µg/L	-2.7131 ppb	11:38:02
3	V 292.402†	-103.6	9.5	0.1237 µg/L	0.1237 ppb	11:38:02
3	Zn 213.857†	648.6	30.5	0.8525 µg/L	0.8525 ppb	11:38:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1932544.0	97.778 %	0.1648			0.17%
Sc RADIAL	75461.2	96.2 %	0.28			0.29%
Y 371.029	1221472.6	97.787 %	0.1636			0.17%
Ag 328.068†	46.0	0.4187 µg/L	0.17007	0.4187 ppb	0.17007	40.61%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.2	3.3574 µg/L	10.69928	3.3574 ppb	10.69928	318.68%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.9	2.0043 µg/L	3.33553	2.0043 ppb	3.33553	166.42%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-196.0	-9.2981 µg/L	0.60121	-9.2981 ppb	0.60121	6.47%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.1	0.0877 µg/L	0.04891	0.0877 ppb	0.04891	55.80%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	167.9	0.1129 µg/L	0.01612	0.1129 ppb	0.01612	14.27%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	22.8	16.400 µg/L	3.3459	16.400 ppb	3.3459	20.40%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-5.6	-0.1630 µg/L	0.08512	-0.1630 ppb	0.08512	52.23%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.8	0.3097 µg/L	0.14110	0.3097 ppb	0.14110	45.56%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	36.1 0.8081 µg/L	0.53524 0.8081 ppb	0.53524 66.24%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	6.7 0.0534 µg/L	0.23439 0.0534 ppb	0.23439 439.29%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	2.3 30.553 µg/L	1.6462 30.553 ppb	1.6462 5.39%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	11.2 7.0509 µg/L	37.54847 7.0509 ppb	37.54847 532.53%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	1.6 16.918 µg/L	7.2064 16.918 ppb	7.2064 42.60%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	42.0 0.1524 µg/L	0.04324 0.1524 ppb	0.04324 28.37%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	8.5 1.0268 µg/L	0.40891 1.0268 ppb	0.40891 39.83%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-173.0 -46.066 µg/L	3.9448 -46.066 ppb	3.9448 8.56%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	6.1 0.3717 µg/L	0.12861 0.3717 ppb	0.12861 34.60%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	4.2 9.5863 µg/L	6.15160 9.5863 ppb	6.15160 64.17%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	2.2 0.6374 µg/L	1.98708 0.6374 ppb	1.98708 311.73%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	0.8 4.2652 µg/L	10.47222 4.2652 ppb	10.47222 245.52%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	3.2 3.3478 µg/L	5.57703 3.3478 ppb	5.57703 166.59%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.3 0.5643 µg/L	4.88794 0.5643 ppb	4.88794 866.19%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-14.9 -3.0418 µg/L	2.79724 -3.0418 ppb	2.79724 91.96%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	37.9 3.0687 µg/L	0.22287 3.0687 ppb	0.22287 7.26%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	-0.8 -0.4139 µg/L	1.74299 -0.4139 ppb	1.74299 421.13%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	5.2 0.0312 µg/L	0.13382 0.0312 ppb	0.13382 428.29%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	64.6 0.1552 µg/L	0.00923 0.1552 ppb	0.00923 5.95%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	11.9 19.826 µg/L	30.0142 19.826 ppb	30.0142 151.39%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-47.2 -4.3892 µg/L	1.94813 -4.3892 ppb	1.94813 44.38%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	16.5 0.2048 µg/L	0.14780 0.2048 ppb	0.14780 72.16%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	32.4 0.9061 µg/L	0.07596 0.9061 ppb	0.07596 8.38%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 20

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 12:08:06

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	76567.7	76567.7	97.6 %		12:08:44
1	Al 396.153Radial†	7787.2	8011.3	5177.5 µg/L	5177.5 ppb	12:08:44
1	Ca 317.933Radial†	7026.0	6954.4	5010.9 µg/L	5010.9 ppb	12:08:44
1	Fe 238.204 Radial†	401.8	395.5	5248.3 µg/L	5248.3 ppb	12:09:04
1	K 766.490 Radial†	8496.2	8309.7	5242.7 µg/L	5242.7 ppb	12:08:44
1	Mg 279.077 IEC†	509.0	513.5	5273.6 µg/L	5273.6 ppb	12:09:04
1	Na 589.592 Radial†	37580.4	37965.5	10108 µg/L	10108 ppb	12:08:44
1	Sr 421.552†	85197.0	86691.3	518.58 µg/L	518.58 ppb	12:08:44
1	Sc 361.383	1927779.1	1927779.1	97.537 %		12:10:08
1	Y 371.029	1213389.5	1213389.5	97.140 %		12:10:08
1	Ag 328.068†	58863.5	60442.4	549.51 µg/L	549.51 ppb	12:10:14
1	As 188.979†	239.8	248.6	540.90 µg/L	540.90 ppb	12:10:34
1	B 249.677†	11142.4	11053.8	521.72 µg/L	521.72 ppb	12:10:14
1	Ba 233.527†	18921.3	19423.0	543.53 µg/L	543.53 ppb	12:10:14
1	Be 313.107†	775396.6	791141.3	532.10 µg/L	532.10 ppb	12:10:08
1	Cd 226.502†	18455.9	19047.2	539.62 µg/L	539.62 ppb	12:10:14
1	Co 228.616†	9926.0	10225.9	543.35 µg/L	543.35 ppb	12:10:14
1	Cr 267.716†	23748.0	24449.8	548.18 µg/L	548.18 ppb	12:10:14
1	Cu 324.752†	76868.8	74909.8	549.99 µg/L	549.99 ppb	12:10:14
1	Mn 257.610†	147433.0	151303.5	536.79 µg/L	536.79 ppb	12:10:08
1	Mo 202.031†	4396.4	4494.8	544.73 µg/L	544.73 ppb	12:10:34
1	Ni 231.604†	9085.5	8983.5	543.36 µg/L	543.36 ppb	12:10:14
1	P 214.914†	1383.3	1198.4	2709.3 µg/L	2709.3 ppb	12:10:34
1	Pb 220.353†	1972.9	1961.6	550.44 µg/L	550.44 ppb	12:10:34
1	S 181.975 Axial†	219.0	201.4	1119.7 µg/L	1119.7 ppb	12:10:34
1	Sb 206.836†	531.5	520.9	553.25 µg/L	553.25 ppb	12:10:34
1	Se 196.026†	357.9	359.0	559.40 µg/L	559.40 ppb	12:10:34
1	SiO2†	30723.8	29110.1	5943.6 µg/L	5943.6 ppb	12:10:14
1	Si 251.611†	33647.4	34214.6	2771.5 µg/L	2771.5 ppb	12:10:14
1	Sn 189.927†	991.6	993.2	562.43 µg/L	562.43 ppb	12:10:34
1	Ti 334.940†	219188.5	224019.1	541.19 µg/L	541.19 ppb	12:10:08
1	Tl 190.801†	293.3	325.3	546.38 µg/L	546.38 ppb	12:10:34
1	U 409.014†	5527.2	5853.0	542.98 µg/L	542.98 ppb	12:10:14
1	V 292.402†	44277.3	45510.6	553.91 µg/L	553.91 ppb	12:10:14
1	Zn 213.857†	19520.9	19381.5	540.98 µg/L	540.98 ppb	12:10:14
2	Sc RADIAL	76859.3	76859.3	97.9 %		12:09:10
2	Al 396.153Radial†	7846.4	8041.4	5197.1 µg/L	5197.1 ppb	12:09:10
2	Ca 317.933Radial†	7109.9	7012.6	5052.9 µg/L	5052.9 ppb	12:09:10
2	Fe 238.204 Radial†	407.7	400.0	5308.0 µg/L	5308.0 ppb	12:09:30
2	K 766.490 Radial†	8609.3	8392.2	5294.7 µg/L	5294.7 ppb	12:09:10
2	Mg 279.077 IEC†	516.7	519.4	5334.2 µg/L	5334.2 ppb	12:09:30
2	Na 589.592 Radial†	37862.0	38107.0	10145 µg/L	10145 ppb	12:09:10
2	Sr 421.552†	86056.4	87237.5	521.85 µg/L	521.85 ppb	12:09:10
2	Sc 361.383	1927231.9	1927231.9	97.510 %		12:10:41
2	Y 371.029	1213744.1	1213744.1	97.169 %		12:10:41
2	Ag 328.068†	58524.9	60112.3	546.52 µg/L	546.52 ppb	12:10:47
2	As 188.979†	238.0	246.8	536.87 µg/L	536.87 ppb	12:11:07
2	B 249.677†	11053.0	10965.4	517.50 µg/L	517.50 ppb	12:10:47
2	Ba 233.527†	18781.2	19284.8	539.66 µg/L	539.66 ppb	12:10:47
2	Be 313.107†	775591.7	791567.1	532.39 µg/L	532.39 ppb	12:10:41
2	Cd 226.502†	18333.2	18926.7	536.20 µg/L	536.20 ppb	12:10:47
2	Co 228.616†	9857.6	10158.6	539.77 µg/L	539.77 ppb	12:10:47
2	Cr 267.716†	23609.0	24314.1	545.14 µg/L	545.14 ppb	12:10:47
2	Cu 324.752†	76440.1	74492.5	546.94 µg/L	546.94 ppb	12:10:47
2	Mn 257.610†	147424.9	151338.1	536.92 µg/L	536.92 ppb	12:10:41
2	Mo 202.031†	4360.8	4459.6	540.46 µg/L	540.46 ppb	12:11:07
2	Ni 231.604†	9019.9	8918.8	539.45 µg/L	539.45 ppb	12:10:47
2	P 214.914†	1377.4	1192.7	2696.3 µg/L	2696.3 ppb	12:11:07
2	Pb 220.353†	1968.1	1957.2	549.20 µg/L	549.20 ppb	12:11:07

2	S 181.975 Axial†	218.1	200.5	1114.7 µg/L	1114.7 ppb	12:11:07
2	Sb 206.836†	527.5	516.9	548.98 µg/L	548.98 ppb	12:11:07
2	Se 196.026†	362.2	363.5	566.43 µg/L	566.43 ppb	12:11:07
2	SiO2†	30580.7	28972.4	5915.5 µg/L	5915.5 ppb	12:10:47
2	Si 251.611†	33533.5	34107.5	2762.9 µg/L	2762.9 ppb	12:10:47
2	Sn 189.927†	973.5	974.9	552.16 µg/L	552.16 ppb	12:11:07
2	Ti 334.940†	219286.8	224183.7	541.58 µg/L	541.58 ppb	12:10:41
2	Tl 190.801†	295.2	327.3	549.76 µg/L	549.76 ppb	12:11:07
2	U 409.014†	5522.1	5849.3	542.63 µg/L	542.63 ppb	12:10:47
2	V 292.402†	44023.6	45263.4	550.90 µg/L	550.90 ppb	12:10:47
2	Zn 213.857†	19458.8	19323.6	539.37 µg/L	539.37 ppb	12:10:47
3	Sc RADIAL	77202.7	77202.7	98.4 %		12:09:36
3	Al 396.153Radial†	7877.3	8037.2	5196.0 µg/L	5196.0 ppb	12:09:36
3	Ca 317.933Radial†	7160.4	7031.8	5066.7 µg/L	5066.7 ppb	12:09:36
3	Fe 238.204 Radial†	403.5	393.8	5225.5 µg/L	5225.5 ppb	12:09:56
3	K 766.490 Radial†	8669.1	8413.9	5308.4 µg/L	5308.4 ppb	12:09:36
3	Mg 279.077 IEC†	518.5	518.9	5327.5 µg/L	5327.5 ppb	12:09:56
3	Na 589.592 Radial†	38080.1	38156.7	10159 µg/L	10159 ppb	12:09:36
3	Sr 421.552†	86582.8	87381.8	522.71 µg/L	522.71 ppb	12:09:36
3	Sc 361.383	1946543.9	1946543.9	98.487 %		12:11:15
3	Y 371.029	1225273.1	1225273.1	98.092 %		12:11:15
3	Ag 328.068†	56113.2	57068.0	518.72 µg/L	518.72 ppb	12:11:20
3	As 188.979†	207.5	213.4	464.33 µg/L	464.33 ppb	12:11:41
3	B 249.677†	10571.0	10363.5	488.95 µg/L	488.95 ppb	12:11:20
3	Ba 233.527†	17535.0	17828.4	498.89 µg/L	498.89 ppb	12:11:20
3	Be 313.107†	751378.3	759090.4	510.54 µg/L	510.54 ppb	12:11:15
3	Cd 226.502†	17043.3	17430.5	493.77 µg/L	493.77 ppb	12:11:20
3	Co 228.616†	9095.0	9284.0	493.22 µg/L	493.22 ppb	12:11:20
3	Cr 267.716†	21412.4	21843.6	489.76 µg/L	489.76 ppb	12:11:20
3	Cu 324.752†	71325.0	68521.0	503.15 µg/L	503.15 ppb	12:11:20
3	Mn 257.610†	143135.5	145482.8	516.15 µg/L	516.15 ppb	12:11:15
3	Mo 202.031†	3737.5	3782.3	458.41 µg/L	458.41 ppb	12:11:41
3	Ni 231.604†	8385.2	8182.7	494.93 µg/L	494.93 ppb	12:11:20
3	P 214.914†	1227.8	1026.8	2317.4 µg/L	2317.4 ppb	12:11:41
3	Pb 220.353†	1739.0	1704.6	478.23 µg/L	478.23 ppb	12:11:41
3	S 181.975 Axial†	199.1	179.0	995.09 µg/L	995.09 ppb	12:11:41
3	Sb 206.836†	464.4	447.6	474.88 µg/L	474.88 ppb	12:11:41
3	Se 196.026†	322.8	319.8	500.38 µg/L	500.38 ppb	12:11:41
3	SiO2†	28985.8	27041.8	5521.3 µg/L	5521.3 ppb	12:11:20
3	Si 251.611†	31660.7	31864.8	2581.2 µg/L	2581.2 ppb	12:11:20
3	Sn 189.927†	832.8	822.1	466.03 µg/L	466.03 ppb	12:11:41
3	Ti 334.940†	211520.8	214067.1	517.13 µg/L	517.13 ppb	12:11:15
3	Tl 190.801†	262.6	291.1	489.35 µg/L	489.35 ppb	12:11:41
3	U 409.014†	5026.1	5289.6	490.61 µg/L	490.61 ppb	12:11:20
3	V 292.402†	40590.2	41329.2	502.74 µg/L	502.74 ppb	12:11:20
3	Zn 213.857†	18074.6	17720.0	494.57 µg/L	494.57 ppb	12:11:20

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1933851.7	97.844 %	0.5563			0.57%
Sc RADIAL	76876.6	98.0 %	0.41			0.41%
Y 371.029	1217468.9	97.467 %	0.5413			0.56%
Ag 328.068†	59207.6	538.25 µg/L	16.979	538.25 ppb	16.979	3.15%
QC value within limits for Ag 328.068 Recovery = 107.65%						
Al 396.153Radial†	8029.9	5190.2 µg/L	11.03	5190.2 ppb	11.03	0.21%
QC value within limits for Al 396.153Radial Recovery = 103.80%						
As 188.979†	236.3	514.03 µg/L	43.091	514.03 ppb	43.091	8.38%
QC value within limits for As 188.979 Recovery = 102.81%						
B 249.677†	10794.2	509.39 µg/L	17.831	509.39 ppb	17.831	3.50%
QC value within limits for B 249.677 Recovery = 101.88%						
Ba 233.527†	18845.4	527.36 µg/L	24.729	527.36 ppb	24.729	4.69%
QC value within limits for Ba 233.527 Recovery = 105.47%						
Be 313.107†	780599.6	525.01 µg/L	12.529	525.01 ppb	12.529	2.39%
QC value within limits for Be 313.107 Recovery = 105.00%						
Ca 317.933Radial†	6999.6	5043.5 µg/L	29.05	5043.5 ppb	29.05	0.58%
QC value within limits for Ca 317.933Radial Recovery = 100.87%						
Cd 226.502†	18468.1	523.19 µg/L	25.542	523.19 ppb	25.542	4.88%
QC value within limits for Cd 226.502 Recovery = 104.64%						
Co 228.616†	9889.5	525.44 µg/L	27.968	525.44 ppb	27.968	5.32%

QC value within limits for Co 228.616 Recovery = 105.09%							
Cr 267.716†	23535.8	527.69 µg/L	32.890	527.69 ppb	32.890	6.23%	
QC value within limits for Cr 267.716 Recovery = 105.54%							
Cu 324.752†	72641.1	533.36 µg/L	26.211	533.36 ppb	26.211	4.91%	
QC value within limits for Cu 324.752 Recovery = 106.67%							
Fe 238.204 Radial†	396.4	5260.6 µg/L	42.63	5260.6 ppb	42.63	0.81%	
QC value within limits for Fe 238.204 Radial Recovery = 105.21%							
K 766.490 Radial†	8371.9	5281.9 µg/L	34.66	5281.9 ppb	34.66	0.66%	
QC value within limits for K 766.490 Radial Recovery = 105.64%							
Mg 279.077 IEC†	517.3	5311.8 µg/L	33.20	5311.8 ppb	33.20	0.63%	
QC value within limits for Mg 279.077 IEC Recovery = 106.24%							
Mn 257.610†	149374.8	529.95 µg/L	11.952	529.95 ppb	11.952	2.26%	
QC value within limits for Mn 257.610 Recovery = 105.99%							
Mo 202.031†	4245.6	514.53 µg/L	48.649	514.53 ppb	48.649	9.46%	
QC value within limits for Mo 202.031 Recovery = 102.91%							
Na 589.592 Radial†	38076.4	10137 µg/L	26.4	10137 ppb	26.4	0.26%	
QC value within limits for Na 589.592 Radial Recovery = 101.37%							
Ni 231.604†	8695.0	525.91 µg/L	26.904	525.91 ppb	26.904	5.12%	
QC value within limits for Ni 231.604 Recovery = 105.18%							
P 214.914†	1139.3	2574.3 µg/L	222.58	2574.3 ppb	222.58	8.65%	
QC value within limits for P 214.914 Recovery = 102.97%							
Pb 220.353†	1874.5	525.96 µg/L	41.334	525.96 ppb	41.334	7.86%	
QC value within limits for Pb 220.353 Recovery = 105.19%							
S 181.975 Axial†	193.6	1076.5 µg/L	70.55	1076.5 ppb	70.55	6.55%	
QC value within limits for S 181.975 Axial Recovery = 107.65%							
Sb 206.836†	495.2	525.71 µg/L	44.069	525.71 ppb	44.069	8.38%	
QC value within limits for Sb 206.836 Recovery = 105.14%							
Se 196.026†	347.4	542.07 µg/L	36.277	542.07 ppb	36.277	6.69%	
QC value within limits for Se 196.026 Recovery = 108.41%							
SiO2†	28374.8	5793.4 µg/L	236.12	5793.4 ppb	236.12	4.08%	
QC value within limits for SiO2 Recovery = 108.34%							
Si 251.611†	33395.6	2705.2 µg/L	107.48	2705.2 ppb	107.48	3.97%	
QC value within limits for Si 251.611 Recovery = 108.21%							
Sn 189.927†	930.1	526.87 µg/L	52.939	526.87 ppb	52.939	10.05%	
QC value within limits for Sn 189.927 Recovery = 105.37%							
Sr 421.552†	87103.5	521.05 µg/L	2.179	521.05 ppb	2.179	0.42%	
QC value within limits for Sr 421.552 Recovery = 104.21%							
Ti 334.940†	220756.6	533.30 µg/L	14.006	533.30 ppb	14.006	2.63%	
QC value within limits for Ti 334.940 Recovery = 106.66%							
Tl 190.801†	314.6	528.50 µg/L	33.946	528.50 ppb	33.946	6.42%	
QC value within limits for Tl 190.801 Recovery = 105.70%							
U 409.014†	5664.0	525.41 µg/L	30.134	525.41 ppb	30.134	5.74%	
QC value within limits for U 409.014 Recovery = 105.08%							
V 292.402†	44034.4	535.85 µg/L	28.712	535.85 ppb	28.712	5.36%	
QC value within limits for V 292.402 Recovery = 107.17%							
Zn 213.857†	18808.4	524.97 µg/L	26.346	524.97 ppb	26.346	5.02%	
QC value within limits for Zn 213.857 Recovery = 104.99%							
All analyte(s) passed QC.							

Sequence No.: 21

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 12:11:50

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	74400.5	74400.5	94.8 %		12:12:23
1	Al 396.153Radial†	7.0	36.9	23.871 µg/L	23.871 ppb	12:12:23
1	Ca 317.933Radial†	257.9	24.8	17.882 µg/L	17.882 ppb	12:12:43
1	Fe 238.204 Radial†	18.8	3.4	45.600 µg/L	45.600 ppb	12:12:43
1	K 766.490 Radial†	315.9	-65.4	-41.291 µg/L	-41.291 ppb	12:12:23
1	Mg 279.077 IEC†	10.8	3.3	33.363 µg/L	33.363 ppb	12:12:43
1	Na 589.592 Radial†	317.0	-219.3	-58.373 µg/L	-58.373 ppb	12:12:23
1	Sr 421.552†	610.8	10.3	0.0616 µg/L	0.0616 ppb	12:12:23
1	Sc 361.383	1935514.4	1935514.4	97.929 %		12:13:45
1	Y 371.029	1222824.5	1222824.5	97.896 %		12:13:45
1	Ag 328.068†	-83.5	7.3	0.0704 µg/L	0.0704 ppb	12:13:51
1	As 188.979†	-2.1	0.6	1.1996 µg/L	1.1996 ppb	12:14:11
1	B 249.677†	179.3	-186.8	-8.8723 µg/L	-8.8723 ppb	12:14:11
1	Ba 233.527†	-21.3	2.2	0.0633 µg/L	0.0633 ppb	12:14:11
1	Be 313.107†	3795.9	42.4	0.0283 µg/L	0.0283 ppb	12:13:51
1	Cd 226.502†	-117.3	5.5	0.1507 µg/L	0.1507 ppb	12:14:11
1	Co 228.616†	-41.1	7.3	0.3901 µg/L	0.3901 ppb	12:14:11
1	Cr 267.716†	-63.7	37.1	0.8315 µg/L	0.8315 ppb	12:13:51
1	Cu 324.752†	3788.2	-31.6	-0.2253 µg/L	-0.2253 ppb	12:13:51
1	Mn 257.610†	-51.4	95.4	0.3429 µg/L	0.3429 ppb	12:14:11
1	Mo 202.031†	19.9	7.8	0.9449 µg/L	0.9449 ppb	12:14:11
1	Ni 231.604†	324.7	0.1	0.0091 µg/L	0.0091 ppb	12:14:11
1	P 214.914†	214.9	-0.4	-1.0539 µg/L	-1.0539 ppb	12:14:11
1	Pb 220.353†	62.0	2.2	0.6160 µg/L	0.6160 ppb	12:14:11
1	S 181.975 Axial†	21.1	-1.5	-8.6076 µg/L	-8.6076 ppb	12:14:11
1	Sb 206.836†	25.8	2.3	2.4214 µg/L	2.4214 ppb	12:14:11
1	Se 196.026†	-2.4	-10.4	-15.388 µg/L	-15.388 ppb	12:14:11
1	SiO2†	2309.9	-30.7	-6.2636 µg/L	-6.2636 ppb	12:13:51
1	Si 251.611†	319.1	43.5	3.5209 µg/L	3.5209 ppb	12:14:11
1	Sn 189.927†	19.6	-3.4	-1.9156 µg/L	-1.9156 ppb	12:14:11
1	Ti 334.940†	916.4	231.9	0.5581 µg/L	0.5581 ppb	12:13:51
1	Tl 190.801†	-21.6	2.4	4.0508 µg/L	4.0508 ppb	12:14:11
1	U 409.014†	-141.6	41.6	3.8600 µg/L	3.8600 ppb	12:13:51
1	V 292.402†	-90.5	22.9	0.2916 µg/L	0.2916 ppb	12:13:51
1	Zn 213.857†	638.9	20.2	0.5640 µg/L	0.5640 ppb	12:14:11
2	Sc RADIAL	74847.4	74847.4	95.4 %		12:12:49
2	Al 396.153Radial†	-11.9	17.0	11.015 µg/L	11.015 ppb	12:12:49
2	Ca 317.933Radial†	264.9	30.6	22.056 µg/L	22.056 ppb	12:13:09
2	Fe 238.204 Radial†	18.8	3.4	44.382 µg/L	44.382 ppb	12:13:09
2	K 766.490 Radial†	389.6	9.8	6.1890 µg/L	6.1890 ppb	12:12:49
2	Mg 279.077 IEC†	11.8	4.2	43.352 µg/L	43.352 ppb	12:13:09
2	Na 589.592 Radial†	328.3	-209.4	-55.751 µg/L	-55.751 ppb	12:12:49
2	Sr 421.552†	645.2	42.5	0.2540 µg/L	0.2540 ppb	12:12:49
2	Sc 361.383	1940937.6	1940937.6	98.203 %		12:14:17
2	Y 371.029	1226568.3	1226568.3	98.195 %		12:14:17
2	Ag 328.068†	-68.4	23.0	0.2097 µg/L	0.2097 ppb	12:14:23
2	As 188.979†	-6.8	-4.2	-9.1195 µg/L	-9.1195 ppb	12:14:43
2	B 249.677†	158.9	-208.1	-9.8783 µg/L	-9.8783 ppb	12:14:43
2	Ba 233.527†	-18.1	5.5	0.1530 µg/L	0.1530 ppb	12:14:43
2	Be 313.107†	3805.1	41.0	0.0274 µg/L	0.0274 ppb	12:14:23
2	Cd 226.502†	-124.8	-1.8	-0.0563 µg/L	-0.0563 ppb	12:14:43
2	Co 228.616†	-44.9	3.6	0.1925 µg/L	0.1925 ppb	12:14:43
2	Cr 267.716†	-54.1	47.1	1.0551 µg/L	1.0551 ppb	12:14:23
2	Cu 324.752†	3746.7	-84.7	-0.6150 µg/L	-0.6150 ppb	12:14:23
2	Mn 257.610†	-47.6	99.4	0.3564 µg/L	0.3564 ppb	12:14:43
2	Mo 202.031†	19.8	7.5	0.9145 µg/L	0.9145 ppb	12:14:43
2	Ni 231.604†	319.2	-6.4	-0.3880 µg/L	-0.3880 ppb	12:14:43
2	P 214.914†	219.8	3.9	9.1180 µg/L	9.1180 ppb	12:14:43
2	Pb 220.353†	59.4	-0.6	-0.1713 µg/L	-0.1713 ppb	12:14:43

2	S 181.975 Axial†	24.7	2.0	11.390 µg/L	11.390 ppb	12:14:43
2	Sb 206.836†	25.1	1.5	1.6259 µg/L	1.6259 ppb	12:14:43
2	Se 196.026†	6.8	-1.0	-1.3276 µg/L	-1.3276 ppb	12:14:43
2	SiO2†	2278.3	-69.4	-14.172 µg/L	-14.172 ppb	12:14:23
2	Si 251.611†	308.7	31.9	2.5840 µg/L	2.5840 ppb	12:14:43
2	Sn 189.927†	22.6	-0.4	-0.2282 µg/L	-0.2282 ppb	12:14:43
2	Ti 334.940†	818.9	130.0	0.3112 µg/L	0.3112 ppb	12:14:23
2	Tl 190.801†	-22.0	2.1	3.5576 µg/L	3.5576 ppb	12:14:43
2	U 409.014†	-231.5	-49.5	-4.6129 µg/L	-4.6129 ppb	12:14:23
2	V 292.402†	-118.5	-5.4	-0.0577 µg/L	-0.0577 ppb	12:14:23
2	Zn 213.857†	655.8	35.6	0.9981 µg/L	0.9981 ppb	12:14:43
3	Sc RADIAL	75227.7	75227.7	95.9 %		12:13:15
3	Al 396.153Radial†	20.0	50.4	32.633 µg/L	32.633 ppb	12:13:15
3	Ca 317.933Radial†	250.1	13.8	9.9155 µg/L	9.9155 ppb	12:13:35
3	Fe 238.204 Radial†	19.0	3.5	46.428 µg/L	46.428 ppb	12:13:35
3	K 766.490 Radial†	414.9	34.2	21.554 µg/L	21.554 ppb	12:13:15
3	Mg 279.077 IEC†	10.8	3.1	32.062 µg/L	32.062 ppb	12:13:35
3	Na 589.592 Radial†	323.5	-216.2	-57.568 µg/L	-57.568 ppb	12:13:15
3	Sr 421.552†	628.8	22.0	0.1313 µg/L	0.1313 ppb	12:13:15
3	Sc 361.383	1939127.9	1939127.9	98.111 %		12:14:49
3	Y 371.029	1225246.4	1225246.4	98.090 %		12:14:49
3	Ag 328.068†	-51.0	40.6	0.3686 µg/L	0.3686 ppb	12:14:55
3	As 188.979†	0.0	2.8	6.0438 µg/L	6.0438 ppb	12:15:15
3	B 249.677†	146.0	-221.1	-10.497 µg/L	-10.497 ppb	12:15:15
3	Ba 233.527†	-29.3	-5.9	-0.1649 µg/L	-0.1649 ppb	12:15:15
3	Be 313.107†	3770.6	9.4	0.0062 µg/L	0.0062 ppb	12:14:55
3	Cd 226.502†	-116.0	7.0	0.1930 µg/L	0.1930 ppb	12:15:15
3	Co 228.616†	-46.8	1.6	0.0856 µg/L	0.0856 ppb	12:15:15
3	Cr 267.716†	-60.8	40.2	0.8996 µg/L	0.8996 ppb	12:14:55
3	Cu 324.752†	3779.6	-47.6	-0.3428 µg/L	-0.3428 ppb	12:14:55
3	Mn 257.610†	-72.3	74.1	0.2676 µg/L	0.2676 ppb	12:15:15
3	Mo 202.031†	18.2	6.0	0.7303 µg/L	0.7303 ppb	12:15:15
3	Ni 231.604†	320.2	-5.0	-0.3032 µg/L	-0.3032 ppb	12:15:15
3	P 214.914†	216.3	0.6	1.4891 µg/L	1.4891 ppb	12:15:15
3	Pb 220.353†	66.1	6.2	1.7566 µg/L	1.7566 ppb	12:15:15
3	S 181.975 Axial†	20.6	-2.1	-11.724 µg/L	-11.724 ppb	12:15:15
3	Sb 206.836†	27.0	3.6	3.7609 µg/L	3.7609 ppb	12:15:15
3	Se 196.026†	10.1	2.4	3.7289 µg/L	3.7289 ppb	12:15:15
3	SiO2†	2273.7	-71.9	-14.679 µg/L	-14.679 ppb	12:14:55
3	Si 251.611†	399.6	124.8	10.113 µg/L	10.113 ppb	12:15:15
3	Sn 189.927†	23.2	0.2	0.1432 µg/L	0.1432 ppb	12:15:15
3	Ti 334.940†	770.6	81.6	0.1948 µg/L	0.1948 ppb	12:14:55
3	Tl 190.801†	-16.7	7.5	12.416 µg/L	12.416 ppb	12:15:15
3	U 409.014†	-229.3	-47.5	-4.4231 µg/L	-4.4231 ppb	12:14:55
3	V 292.402†	-123.4	-10.4	-0.1202 µg/L	-0.1202 ppb	12:14:55
3	Zn 213.857†	648.0	28.2	0.7905 µg/L	0.7905 ppb	12:15:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1938526.6	98.081 %	0.1397			0.14%
Sc RADIAL	74825.2	95.3 %	0.53			0.55%
Y 371.029	1224879.8	98.060 %	0.1520			0.16%
Ag 328.068†	23.6	0.2162 µg/L	0.14920	0.2162 ppb	0.14920	69.00%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	34.8	22.506 µg/L	10.8733	22.506 ppb	10.8733	48.31%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.3	-0.6254 µg/L	7.74463	-0.6254 ppb	7.74463	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-205.4	-9.7491 µg/L	0.81990	-9.7491 ppb	0.81990	8.41%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.6	0.0172 µg/L	0.16391	0.0172 ppb	0.16391	955.14%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	30.9	0.0207 µg/L	0.01252	0.0207 ppb	0.01252	60.58%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	23.1	16.618 µg/L	6.1680	16.618 ppb	6.1680	37.12%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	3.6	0.0958 µg/L	0.13341	0.0958 ppb	0.13341	139.23%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.2	0.2227 µg/L	0.15451	0.2227 ppb	0.15451	69.37%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	41.4	0.9287 µg/L	0.11461	0.9287 ppb	0.11461	12.34%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-54.6	-0.3944 µg/L	0.19992	-0.3944 ppb	0.19992	50.69%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	3.4	45.470 µg/L	1.0292	45.470 ppb	1.0292	2.26%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-7.2	-4.5160 µg/L	32.76168	-4.5160 ppb	32.76168	725.45%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	3.5	36.259 µg/L	6.1771	36.259 ppb	6.1771	17.04%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	89.6	0.3223 µg/L	0.04789	0.3223 ppb	0.04789	14.86%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	7.1	0.8632 µg/L	0.11609	0.8632 ppb	0.11609	13.45%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-215.0	-57.231 µg/L	1.3428	-57.231 ppb	1.3428	2.35%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-3.8	-0.2274 µg/L	0.20914	-0.2274 ppb	0.20914	91.99%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	1.4	3.1844 µg/L	5.29364	3.1844 ppb	5.29364	166.24%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	2.6	0.7338 µg/L	0.96933	0.7338 ppb	0.96933	132.10%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-0.5	-2.9807 µg/L	12.54235	-2.9807 ppb	12.54235	420.79%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.5	2.6028 µg/L	1.07900	2.6028 ppb	1.07900	41.46%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.0	-4.3290 µg/L	9.90558	-4.3290 ppb	9.90558	228.82%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-57.3	-11.705 µg/L	4.7190	-11.705 ppb	4.7190	40.32%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	66.7	5.4059 µg/L	4.10320	5.4059 ppb	4.10320	75.90%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.2	-0.6669 µg/L	1.09724	-0.6669 ppb	1.09724	164.53%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	24.9	0.1490 µg/L	0.09742	0.1490 ppb	0.09742	65.39%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	147.8	0.3547 µg/L	0.18553	0.3547 ppb	0.18553	52.30%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.0	6.6746 µg/L	4.97786	6.6746 ppb	4.97786	74.58%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-18.5	-1.7254 µg/L	4.83800	-1.7254 ppb	4.83800	280.41%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	2.4	0.0379 µg/L	0.22187	0.0379 ppb	0.22187	585.24%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	28.0	0.7842 µg/L	0.21710	0.7842 ppb	0.21710	27.68%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 7
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/29/2010 12:47:49
 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	76010.5	76010.5	96.9 %		12:48:27
1	Al 396.153Radial†	7654.4	7932.6	5126.7 µg/L	5126.7 ppb	12:48:27
1	Ca 317.933Radial†	6914.7	6892.2	4966.1 µg/L	4966.1 ppb	12:48:27
1	Fe 238.204 Radial†	396.9	393.4	5220.9 µg/L	5220.9 ppb	12:48:47
1	K 766.490 Radial†	8462.8	8339.1	5261.2 µg/L	5261.2 ppb	12:48:27
1	Mg 279.077 IEC†	503.1	511.3	5251.1 µg/L	5251.1 ppb	12:48:47
1	Na 589.592 Radial†	37183.3	37837.9	10074 µg/L	10074 ppb	12:48:27
1	Sr 421.552†	84274.6	86379.1	516.71 µg/L	516.71 ppb	12:48:27
1	Sc 361.383	1935213.5	1935213.5	97.913 %		12:49:51
1	Y 371.029	1218388.1	1218388.1	97.540 %		12:49:51
1	Ag 328.068†	57768.1	59091.8	537.23 µg/L	537.23 ppb	12:49:56
1	As 188.979†	238.1	245.9	534.99 µg/L	534.99 ppb	12:50:17
1	B 249.677†	10916.9	10779.6	508.73 µg/L	508.73 ppb	12:49:56
1	Ba 233.527†	18476.9	18894.7	528.74 µg/L	528.74 ppb	12:49:56
1	Be 313.107†	767515.1	780037.8	524.63 µg/L	524.63 ppb	12:49:51
1	Cd 226.502†	17992.5	18501.2	524.14 µg/L	524.14 ppb	12:49:56
1	Co 228.616†	9711.6	9967.9	529.63 µg/L	529.63 ppb	12:49:56
1	Cr 267.716†	23207.3	23804.0	533.70 µg/L	533.70 ppb	12:49:56
1	Cu 324.752†	75342.1	73047.8	536.34 µg/L	536.34 ppb	12:49:56
1	Mn 257.610†	146212.5	149476.3	530.31 µg/L	530.31 ppb	12:49:51
1	Mo 202.031†	4326.0	4405.6	533.92 µg/L	533.92 ppb	12:50:17
1	Ni 231.604†	8880.1	8738.0	528.51 µg/L	528.51 ppb	12:49:56
1	P 214.914†	1365.3	1174.6	2655.5 µg/L	2655.5 ppb	12:50:17
1	Pb 220.353†	1946.5	1926.8	540.68 µg/L	540.68 ppb	12:50:17
1	S 181.975 Axial†	210.3	191.6	1065.4 µg/L	1065.4 ppb	12:50:17
1	Sb 206.836†	518.8	505.9	537.32 µg/L	537.32 ppb	12:50:17
1	Se 196.026†	344.5	343.9	536.65 µg/L	536.65 ppb	12:50:17
1	SiO2†	30024.6	28275.0	5773.1 µg/L	5773.1 ppb	12:49:56
1	Si 251.611†	32925.0	33344.2	2701.0 µg/L	2701.0 ppb	12:49:56
1	Sn 189.927†	969.3	966.5	547.36 µg/L	547.36 ppb	12:50:17
1	Ti 334.940†	216770.6	220686.3	533.14 µg/L	533.14 ppb	12:49:51
1	Tl 190.801†	291.5	322.3	541.34 µg/L	541.34 ppb	12:50:17
1	U 409.014†	5456.7	5759.2	534.27 µg/L	534.27 ppb	12:49:56
1	V 292.402†	43348.6	44387.7	540.27 µg/L	540.27 ppb	12:49:56
1	Zn 213.857†	19179.5	18956.0	529.11 µg/L	529.11 ppb	12:49:56
2	Sc RADIAL	76615.1	76615.1	97.6 %		12:48:53
2	Al 396.153Radial†	7687.2	7903.9	5108.2 µg/L	5108.2 ppb	12:48:53
2	Ca 317.933Radial†	7003.7	6927.0	4991.2 µg/L	4991.2 ppb	12:48:53
2	Fe 238.204 Radial†	396.8	390.2	5177.6 µg/L	5177.6 ppb	12:49:13
2	K 766.490 Radial†	8485.1	8293.0	5232.1 µg/L	5232.1 ppb	12:48:53
2	Mg 279.077 IEC†	503.1	507.2	5208.6 µg/L	5208.6 ppb	12:49:13
2	Na 589.592 Radial†	37394.8	37751.6	10051 µg/L	10051 ppb	12:48:53
2	Sr 421.552†	84884.7	86317.3	516.34 µg/L	516.34 ppb	12:48:53
2	Sc 361.383	1939770.0	1939770.0	98.144 %		12:50:24
2	Y 371.029	1220828.1	1220828.1	97.736 %		12:50:24
2	Ag 328.068†	58112.9	59304.5	539.17 µg/L	539.17 ppb	12:50:30
2	As 188.979†	238.6	245.8	534.87 µg/L	534.87 ppb	12:50:50
2	B 249.677†	10975.0	10812.6	510.32 µg/L	510.32 ppb	12:50:30
2	Ba 233.527†	18661.4	19038.3	532.76 µg/L	532.76 ppb	12:50:30
2	Be 313.107†	772335.1	783107.7	526.70 µg/L	526.70 ppb	12:50:24
2	Cd 226.502†	18153.6	18622.2	527.58 µg/L	527.58 ppb	12:50:30
2	Co 228.616†	9759.8	9993.6	530.99 µg/L	530.99 ppb	12:50:30
2	Cr 267.716†	23361.1	23905.0	535.97 µg/L	535.97 ppb	12:50:30
2	Cu 324.752†	75864.1	73398.9	538.91 µg/L	538.91 ppb	12:50:30
2	Mn 257.610†	146993.1	149920.9	531.88 µg/L	531.88 ppb	12:50:24
2	Mo 202.031†	4294.6	4363.3	528.79 µg/L	528.79 ppb	12:50:50
2	Ni 231.604†	8994.8	8833.5	534.29 µg/L	534.29 ppb	12:50:30
2	P 214.914†	1365.6	1171.6	2648.3 µg/L	2648.3 ppb	12:50:50
2	Pb 220.353†	1929.4	1904.7	534.47 µg/L	534.47 ppb	12:50:50

2	S 181.975 Axial†	208.9	189.7	1054.6 µg/L	1054.6 ppb	12:50:50
2	Sb 206.836†	515.3	501.1	532.11 µg/L	532.11 ppb	12:50:50
2	Se 196.026†	349.6	348.3	543.08 µg/L	543.08 ppb	12:50:50
2	SiO2†	30224.1	28406.2	5799.9 µg/L	5799.9 ppb	12:50:30
2	Si 251.611†	33183.6	33528.8	2716.0 µg/L	2716.0 ppb	12:50:30
2	Sn 189.927†	957.6	952.2	539.30 µg/L	539.30 ppb	12:50:50
2	Ti 334.940†	217985.0	221403.7	534.87 µg/L	534.87 ppb	12:50:24
2	Tl 190.801†	292.6	322.7	542.07 µg/L	542.07 ppb	12:50:50
2	U 409.014†	5466.2	5755.8	533.96 µg/L	533.96 ppb	12:50:30
2	V 292.402†	43698.1	44639.8	543.27 µg/L	543.27 ppb	12:50:30
2	Zn 213.857†	19329.7	19063.0	532.10 µg/L	532.10 ppb	12:50:30
3	Sc RADIAL	76172.9	76172.9	97.1 %		12:49:18
3	Al 396.153Radial†	7701.0	7963.8	5148.7 µg/L	5148.7 ppb	12:49:18
3	Ca 317.933Radial†	6939.2	6902.2	4973.4 µg/L	4973.4 ppb	12:49:18
3	Fe 238.204 Radial†	399.3	395.1	5241.9 µg/L	5241.9 ppb	12:49:39
3	K 766.490 Radial†	8461.4	8319.0	5248.5 µg/L	5248.5 ppb	12:49:18
3	Mg 279.077 IEC†	504.4	511.5	5251.3 µg/L	5251.3 ppb	12:49:39
3	Na 589.592 Radial†	37284.0	37859.8	10080 µg/L	10080 ppb	12:49:18
3	Sr 421.552†	84620.9	86550.3	517.74 µg/L	517.74 ppb	12:49:18
3	Sc 361.383	1936047.5	1936047.5	97.956 %		12:50:57
3	Y 371.029	1218393.0	1218393.0	97.541 %		12:50:57
3	Ag 328.068†	55779.9	57036.7	518.39 µg/L	518.39 ppb	12:51:03
3	As 188.979†	206.5	213.5	464.58 µg/L	464.58 ppb	12:51:23
3	B 249.677†	10470.1	10318.7	486.80 µg/L	486.80 ppb	12:51:03
3	Ba 233.527†	17310.9	17696.2	495.19 µg/L	495.19 ppb	12:51:03
3	Be 313.107†	730841.9	742261.6	499.23 µg/L	499.23 ppb	12:50:57
3	Cd 226.502†	16790.7	17266.5	489.11 µg/L	489.11 ppb	12:51:03
3	Co 228.616†	9000.1	9237.3	490.75 µg/L	490.75 ppb	12:51:03
3	Cr 267.716†	20994.9	21535.2	482.84 µg/L	482.84 ppb	12:51:03
3	Cu 324.752†	70257.7	67824.1	498.04 µg/L	498.04 ppb	12:51:03
3	Mn 257.610†	139280.7	142335.5	505.00 µg/L	505.00 ppb	12:50:57
3	Mo 202.031†	3640.9	3704.3	448.96 µg/L	448.96 ppb	12:51:23
3	Ni 231.604†	8264.1	8105.2	490.24 µg/L	490.24 ppb	12:51:03
3	P 214.914†	1216.6	1022.2	2307.1 µg/L	2307.1 ppb	12:51:23
3	Pb 220.353†	1703.9	1678.3	470.84 µg/L	470.84 ppb	12:51:23
3	S 181.975 Axial†	190.9	171.8	955.08 µg/L	955.08 ppb	12:51:23
3	Sb 206.836†	450.9	436.3	462.92 µg/L	462.92 ppb	12:51:23
3	Se 196.026†	305.2	303.6	476.17 µg/L	476.17 ppb	12:51:23
3	SiO2†	28532.5	26738.6	5459.4 µg/L	5459.4 ppb	12:51:03
3	Si 251.611†	31170.4	31538.5	2554.8 µg/L	2554.8 ppb	12:51:03
3	Sn 189.927†	806.6	800.0	453.50 µg/L	453.50 ppb	12:51:23
3	Ti 334.940†	205246.4	208826.3	504.47 µg/L	504.47 ppb	12:50:57
3	Tl 190.801†	258.5	288.4	484.67 µg/L	484.67 ppb	12:51:23
3	U 409.014†	4911.0	5199.7	482.27 µg/L	482.27 ppb	12:51:03
3	V 292.402†	39832.2	40778.9	496.02 µg/L	496.02 ppb	12:51:03
3	Zn 213.857†	17794.0	17533.1	489.34 µg/L	489.34 ppb	12:51:03

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1937010.3	98.004 %	0.1227			0.13%
Sc RADIAL	76266.1	97.2 %	0.40			0.41%
Y 371.029	1219203.0	97.606 %	0.1127			0.12%
Ag 328.068†	58477.7	531.60 µg/L	11.475	531.60 ppb	11.475	2.16%
QC value within limits for Ag 328.068 Recovery = 106.32%						
Al 396.153Radial†	7933.4	5127.9 µg/L	20.26	5127.9 ppb	20.26	0.40%
QC value within limits for Al 396.153Radial Recovery = 102.56%						
As 188.979†	235.1	511.48 µg/L	40.612	511.48 ppb	40.612	7.94%
QC value within limits for As 188.979 Recovery = 102.30%						
B 249.677†	10637.0	501.95 µg/L	13.141	501.95 ppb	13.141	2.62%
QC value within limits for B 249.677 Recovery = 100.39%						
Ba 233.527†	18543.0	518.90 µg/L	20.631	518.90 ppb	20.631	3.98%
QC value within limits for Ba 233.527 Recovery = 103.78%						
Be 313.107†	768469.0	516.85 µg/L	15.299	516.85 ppb	15.299	2.96%
QC value within limits for Be 313.107 Recovery = 103.37%						
Ca 317.933Radial†	6907.1	4976.9 µg/L	12.91	4976.9 ppb	12.91	0.26%
QC value within limits for Ca 317.933Radial Recovery = 99.54%						
Cd 226.502†	18130.0	513.61 µg/L	21.284	513.61 ppb	21.284	4.14%
QC value within limits for Cd 226.502 Recovery = 102.72%						
Co 228.616†	9732.9	517.12 µg/L	22.853	517.12 ppb	22.853	4.42%

QC value within limits for Co 228.616 Recovery = 103.42%							
Cr 267.716†	23081.4	517.51 µg/L	30.041	517.51 ppb	30.041	5.80%	
QC value within limits for Cr 267.716 Recovery = 103.50%							
Cu 324.752†	71423.6	524.43 µg/L	22.889	524.43 ppb	22.889	4.36%	
QC value within limits for Cu 324.752 Recovery = 104.89%							
Fe 238.204 Radial†	392.9	5213.5 µg/L	32.80	5213.5 ppb	32.80	0.63%	
QC value within limits for Fe 238.204 Radial Recovery = 104.27%							
K 766.490 Radial†	8317.1	5247.3 µg/L	14.60	5247.3 ppb	14.60	0.28%	
QC value within limits for K 766.490 Radial Recovery = 104.95%							
Mg 279.077 IEC†	510.0	5237.0 µg/L	24.60	5237.0 ppb	24.60	0.47%	
QC value within limits for Mg 279.077 IEC Recovery = 104.74%							
Mn 257.610†	147244.2	522.40 µg/L	15.086	522.40 ppb	15.086	2.89%	
QC value within limits for Mn 257.610 Recovery = 104.48%							
Mo 202.031†	4157.7	503.89 µg/L	47.641	503.89 ppb	47.641	9.45%	
QC value within limits for Mo 202.031 Recovery = 100.78%							
Na 589.592 Radial†	37816.4	10068 µg/L	15.2	10068 ppb	15.2	0.15%	
QC value within limits for Na 589.592 Radial Recovery = 100.68%							
Ni 231.604†	8558.9	517.68 µg/L	23.938	517.68 ppb	23.938	4.62%	
QC value within limits for Ni 231.604 Recovery = 103.54%							
P 214.914†	1122.8	2537.0 µg/L	199.13	2537.0 ppb	199.13	7.85%	
QC value within limits for P 214.914 Recovery = 101.48%							
Pb 220.353†	1836.6	515.33 µg/L	38.658	515.33 ppb	38.658	7.50%	
QC value within limits for Pb 220.353 Recovery = 103.07%							
S 181.975 Axial†	184.4	1025.0 µg/L	60.81	1025.0 ppb	60.81	5.93%	
QC value within limits for S 181.975 Axial Recovery = 102.50%							
Sb 206.836†	481.1	510.78 µg/L	41.533	510.78 ppb	41.533	8.13%	
QC value within limits for Sb 206.836 Recovery = 102.16%							
Se 196.026†	332.0	518.63 µg/L	36.914	518.63 ppb	36.914	7.12%	
QC value within limits for Se 196.026 Recovery = 103.73%							
SiO2†	27806.6	5677.5 µg/L	189.32	5677.5 ppb	189.32	3.33%	
QC value within limits for SiO2 Recovery = 106.17%							
Si 251.611†	32803.8	2657.3 µg/L	89.08	2657.3 ppb	89.08	3.35%	
QC value within limits for Si 251.611 Recovery = 106.29%							
Sn 189.927†	906.2	513.39 µg/L	52.021	513.39 ppb	52.021	10.13%	
QC value within limits for Sn 189.927 Recovery = 102.68%							
Sr 421.552†	86415.6	516.93 µg/L	0.722	516.93 ppb	0.722	0.14%	
QC value within limits for Sr 421.552 Recovery = 103.39%							
Ti 334.940†	216972.1	524.16 µg/L	17.076	524.16 ppb	17.076	3.26%	
QC value within limits for Ti 334.940 Recovery = 104.83%							
Tl 190.801†	311.1	522.70 µg/L	32.932	522.70 ppb	32.932	6.30%	
QC value within limits for Tl 190.801 Recovery = 104.54%							
U 409.014†	5571.6	516.83 µg/L	29.934	516.83 ppb	29.934	5.79%	
QC value within limits for U 409.014 Recovery = 103.37%							
V 292.402†	43268.8	526.52 µg/L	26.454	526.52 ppb	26.454	5.02%	
QC value within limits for V 292.402 Recovery = 105.30%							
Zn 213.857†	18517.4	516.85 µg/L	23.867	516.85 ppb	23.867	4.62%	
QC value within limits for Zn 213.857 Recovery = 103.37%							
All analyte(s) passed QC.							

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 12:51:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74574.8	74574.8	95.0 %		12:52:05
1	Al 396.153Radial†	-15.4	13.3	8.6002 µg/L	8.6002 ppb	12:52:05
1	Ca 317.933Radial†	248.3	14.1	10.187 µg/L	10.187 ppb	12:52:26
1	Fe 238.204 Radial†	16.1	0.6	7.9501 µg/L	7.9501 ppb	12:52:26
1	K 766.490 Radial†	437.0	61.2	38.595 µg/L	38.595 ppb	12:52:05
1	Mg 279.077 IEC†	8.4	0.7	7.1814 µg/L	7.1814 ppb	12:52:26
1	Na 589.592 Radial†	347.9	-187.5	-49.930 µg/L	-49.930 ppb	12:52:05
1	Sr 421.552†	644.6	44.3	0.2649 µg/L	0.2649 ppb	12:52:05
1	Sc 361.383	1921699.8	1921699.8	97.230 %		12:53:28
1	Y 371.029	1213390.3	1213390.3	97.140 %		12:53:28
1	Ag 328.068†	-90.4	-0.4	-0.0048 µg/L	-0.0048 ppb	12:53:33
1	As 188.979†	-2.3	0.3	0.6668 µg/L	0.6668 ppb	12:53:54
1	B 249.677†	168.5	-196.6	-9.3173 µg/L	-9.3173 ppb	12:53:54
1	Ba 233.527†	-31.1	-8.0	-0.2240 µg/L	-0.2240 ppb	12:53:54
1	Be 313.107†	3821.6	96.7	0.0650 µg/L	0.0650 ppb	12:53:33
1	Cd 226.502†	-123.8	-2.1	-0.0591 µg/L	-0.0591 ppb	12:53:54
1	Co 228.616†	-46.9	1.1	0.0595 µg/L	0.0595 ppb	12:53:54
1	Cr 267.716†	-73.4	26.6	0.5965 µg/L	0.5965 ppb	12:53:54
1	Cu 324.752†	3742.0	-51.3	-0.3752 µg/L	-0.3752 ppb	12:53:33
1	Mn 257.610†	-118.2	26.3	0.0941 µg/L	0.0941 ppb	12:53:54
1	Mo 202.031†	24.0	12.1	1.4696 µg/L	1.4696 ppb	12:53:54
1	Ni 231.604†	334.4	12.5	0.7569 µg/L	0.7569 ppb	12:53:54
1	P 214.914†	223.3	9.8	22.589 µg/L	22.589 ppb	12:53:54
1	Pb 220.353†	62.9	3.6	1.0175 µg/L	1.0175 ppb	12:53:54
1	S 181.975 Axial†	23.1	0.7	3.7436 µg/L	3.7436 ppb	12:53:54
1	Sb 206.836†	26.9	3.7	3.9000 µg/L	3.9000 ppb	12:53:54
1	Se 196.026†	4.7	-3.1	-4.6737 µg/L	-4.6737 ppb	12:53:54
1	SiO2†	2271.6	-53.1	-10.833 µg/L	-10.833 ppb	12:53:33
1	Si 251.611†	270.6	-4.1	-0.3310 µg/L	-0.3310 ppb	12:53:54
1	Sn 189.927†	23.1	0.2	0.1448 µg/L	0.1448 ppb	12:53:54
1	Ti 334.940†	766.3	84.2	0.2032 µg/L	0.2032 ppb	12:53:33
1	Tl 190.801†	-20.7	3.2	5.3806 µg/L	5.3806 ppb	12:53:54
1	U 409.014†	-270.4	-91.9	-8.5445 µg/L	-8.5445 ppb	12:53:33
1	V 292.402†	-135.3	-23.8	-0.2824 µg/L	-0.2824 ppb	12:53:33
1	Zn 213.857†	634.5	20.3	0.5664 µg/L	0.5664 ppb	12:53:54
2	Sc RADIAL	74568.6	74568.6	95.0 %		12:52:31
2	Al 396.153Radial†	-12.1	16.8	10.867 µg/L	10.867 ppb	12:52:31
2	Ca 317.933Radial†	255.5	21.7	15.636 µg/L	15.636 ppb	12:52:52
2	Fe 238.204 Radial†	17.3	1.9	24.517 µg/L	24.517 ppb	12:52:52
2	K 766.490 Radial†	381.7	3.0	1.8948 µg/L	1.8948 ppb	12:52:31
2	Mg 279.077 IEC†	8.1	0.4	3.8273 µg/L	3.8273 ppb	12:52:52
2	Na 589.592 Radial†	336.9	-199.1	-53.006 µg/L	-53.006 ppb	12:52:31
2	Sr 421.552†	627.4	26.3	0.1574 µg/L	0.1574 ppb	12:52:31
2	Sc 361.383	1919482.5	1919482.5	97.117 %		12:54:00
2	Y 371.029	1213234.3	1213234.3	97.128 %		12:54:00
2	Ag 328.068†	-160.1	-72.3	-0.6483 µg/L	-0.6483 ppb	12:54:05
2	As 188.979†	-2.7	-0.0	-0.0371 µg/L	-0.0371 ppb	12:54:26
2	B 249.677†	167.5	-197.4	-9.3632 µg/L	-9.3632 ppb	12:54:26
2	Ba 233.527†	-26.1	-2.9	-0.0798 µg/L	-0.0798 ppb	12:54:26
2	Be 313.107†	3838.7	118.8	0.0799 µg/L	0.0799 ppb	12:54:05
2	Cd 226.502†	-122.1	-0.4	-0.0146 µg/L	-0.0146 ppb	12:54:26
2	Co 228.616†	-53.5	-5.7	-0.3048 µg/L	-0.3048 ppb	12:54:26
2	Cr 267.716†	-64.8	35.5	0.7951 µg/L	0.7951 ppb	12:54:26
2	Cu 324.752†	3750.6	-38.0	-0.2753 µg/L	-0.2753 ppb	12:54:05
2	Mn 257.610†	-116.0	28.4	0.1038 µg/L	0.1038 ppb	12:54:26
2	Mo 202.031†	16.9	4.8	0.5790 µg/L	0.5790 ppb	12:54:26
2	Ni 231.604†	326.2	4.5	0.2717 µg/L	0.2717 ppb	12:54:26
2	P 214.914†	222.7	9.5	21.941 µg/L	21.941 ppb	12:54:26
2	Pb 220.353†	64.1	4.8	1.3644 µg/L	1.3644 ppb	12:54:26

2	S 181.975 Axial†	19.8	-2.8	-15.386 µg/L	-15.386 ppb	12:54:26
2	Sb 206.836†	24.2	0.9	0.9595 µg/L	0.9595 ppb	12:54:26
2	Se 196.026†	8.8	1.1	1.7785 µg/L	1.7785 ppb	12:54:26
2	SiO2†	2267.7	-54.4	-11.101 µg/L	-11.101 ppb	12:54:05
2	Si 251.611†	273.7	-0.6	-0.0464 µg/L	-0.0464 ppb	12:54:26
2	Sn 189.927†	24.2	1.5	0.8266 µg/L	0.8266 ppb	12:54:26
2	Ti 334.940†	678.2	-5.6	-0.0135 µg/L	-0.0135 ppb	12:54:05
2	Tl 190.801†	-24.8	-1.1	-1.7559 µg/L	-1.7559 ppb	12:54:26
2	U 409.014†	-221.9	-42.2	-3.9282 µg/L	-3.9282 ppb	12:54:05
2	V 292.402†	-82.1	30.7	0.3734 µg/L	0.3734 ppb	12:54:05
2	Zn 213.857†	633.0	19.5	0.5455 µg/L	0.5455 ppb	12:54:26
3	Sc RADIAL	75058.1	75058.1	95.6 %		12:52:57
3	Al 396.153Radial†	-22.5	6.0	3.8795 µg/L	3.8795 ppb	12:52:57
3	Ca 317.933Radial†	254.1	18.5	13.314 µg/L	13.314 ppb	12:53:17
3	Fe 238.204 Radial†	17.6	2.1	27.502 µg/L	27.502 ppb	12:53:17
3	K 766.490 Radial†	371.5	-10.2	-6.4535 µg/L	-6.4535 ppb	12:52:57
3	Mg 279.077 IEC†	10.8	3.2	32.337 µg/L	32.337 ppb	12:53:17
3	Na 589.592 Radial†	328.3	-210.4	-56.023 µg/L	-56.023 ppb	12:52:57
3	Sr 421.552†	646.8	42.3	0.2530 µg/L	0.2530 ppb	12:52:57
3	Sc 361.383	1926659.6	1926659.6	97.481 %		12:54:32
3	Y 371.029	1217337.0	1217337.0	97.456 %		12:54:32
3	Ag 328.068†	-148.5	-59.7	-0.5375 µg/L	-0.5375 ppb	12:54:37
3	As 188.979†	-1.2	1.5	3.1845 µg/L	3.1845 ppb	12:54:58
3	B 249.677†	162.8	-202.9	-9.6240 µg/L	-9.6240 ppb	12:54:58
3	Ba 233.527†	-30.1	-6.9	-0.1929 µg/L	-0.1929 ppb	12:54:58
3	Be 313.107†	3857.1	123.0	0.0827 µg/L	0.0827 ppb	12:54:37
3	Cd 226.502†	-117.6	4.6	0.1281 µg/L	0.1281 ppb	12:54:58
3	Co 228.616†	-42.8	5.4	0.2873 µg/L	0.2873 ppb	12:54:58
3	Cr 267.716†	-46.8	54.1	1.2127 µg/L	1.2127 ppb	12:54:58
3	Cu 324.752†	3757.9	-45.0	-0.3258 µg/L	-0.3258 ppb	12:54:37
3	Mn 257.610†	-118.4	26.4	0.0960 µg/L	0.0960 ppb	12:54:58
3	Mo 202.031†	18.3	6.2	0.7515 µg/L	0.7515 ppb	12:54:58
3	Ni 231.604†	332.1	9.3	0.5623 µg/L	0.5623 ppb	12:54:58
3	P 214.914†	222.4	8.3	19.239 µg/L	19.239 ppb	12:54:58
3	Pb 220.353†	70.9	11.6	3.2490 µg/L	3.2490 ppb	12:54:58
3	S 181.975 Axial†	23.2	0.7	3.9181 µg/L	3.9181 ppb	12:54:58
3	Sb 206.836†	26.1	2.7	2.8989 µg/L	2.8989 ppb	12:54:58
3	Se 196.026†	4.3	-3.5	-5.2336 µg/L	-5.2336 ppb	12:54:58
3	SiO2†	2258.5	-72.5	-14.802 µg/L	-14.802 ppb	12:54:37
3	Si 251.611†	277.8	2.5	0.2045 µg/L	0.2045 ppb	12:54:58
3	Sn 189.927†	23.7	0.9	0.5115 µg/L	0.5115 ppb	12:54:58
3	Ti 334.940†	718.1	32.8	0.0769 µg/L	0.0769 ppb	12:54:37
3	Tl 190.801†	-24.9	-1.0	-1.7576 µg/L	-1.7576 ppb	12:54:58
3	U 409.014†	-230.8	-50.6	-4.7047 µg/L	-4.7047 ppb	12:54:37
3	V 292.402†	-114.0	-1.7	-0.0147 µg/L	-0.0147 ppb	12:54:37
3	Zn 213.857†	630.2	14.2	0.3954 µg/L	0.3954 ppb	12:54:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1922614.0	97.276 %	0.1859			0.19%
Sc RADIAL	74733.8	95.2 %	0.36			0.38%
Y 371.029	1214653.8	97.242 %	0.1861			0.19%
Ag 328.068†	-44.1	-0.3968 µg/L	0.34405	-0.3968 ppb	0.34405	86.70%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.0	7.7821 µg/L	3.56470	7.7821 ppb	3.56470	45.81%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.6	1.2714 µg/L	1.69376	1.2714 ppb	1.69376	133.22%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-199.0	-9.4348 µg/L	0.16539	-9.4348 ppb	0.16539	1.75%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.9	-0.1655 µg/L	0.07585	-0.1655 ppb	0.07585	45.82%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	112.8	0.0759 µg/L	0.00954	0.0759 ppb	0.00954	12.57%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	18.1	13.046 µg/L	2.7341	13.046 ppb	2.7341	20.96%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	0.7	0.0181 µg/L	0.09780	0.0181 ppb	0.09780	539.16%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.3	0.0140 µg/L	0.29863	0.0140 ppb	0.29863	>999.9%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	38.7 0.8681 µg/L	0.31452 0.8681 ppb	0.31452 36.23%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-44.8 -0.3254 µg/L	0.04991 -0.3254 ppb	0.04991 15.34%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	1.5 19.990 µg/L	10.5330 19.990 ppb	10.5330 52.69%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	18.0 11.345 µg/L	23.9650 11.345 ppb	23.9650 211.23%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	1.4 14.449 µg/L	15.5825 14.449 ppb	15.5825 107.85%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	27.0 0.0979 µg/L	0.00512 0.0979 ppb	0.00512 5.23%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	7.7 0.9334 µg/L	0.47231 0.9334 ppb	0.47231 50.60%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-199.0 -52.987 µg/L	3.0465 -52.987 ppb	3.0465 5.75%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	8.8 0.5303 µg/L	0.24416 0.5303 ppb	0.24416 46.04%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	9.2 21.256 µg/L	1.7770 21.256 ppb	1.7770 8.36%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	6.7 1.8769 µg/L	1.20080 1.8769 ppb	1.20080 63.98%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-0.5 -2.5746 µg/L	11.09495 -2.5746 ppb	11.09495 430.93%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	2.4 2.5861 µg/L	1.49497 2.5861 ppb	1.49497 57.81%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-1.9 -2.7096 µg/L	3.89685 -2.7096 ppb	3.89685 143.82%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-60.0 -12.245 µg/L	2.2185 -12.245 ppb	2.2185 18.12%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	-0.7 -0.0576 µg/L	0.26793 -0.0576 ppb	0.26793 465.10%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	0.9 0.4943 µg/L	0.34123 0.4943 ppb	0.34123 69.03%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	37.6 0.2251 µg/L	0.05892 0.2251 ppb	0.05892 26.18%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	37.1 0.0889 µg/L	0.10887 0.0889 ppb	0.10887 122.53%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	0.4 0.6224 µg/L	4.12072 0.6224 ppb	4.12072 662.10%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-61.6 -5.7258 µg/L	2.47176 -5.7258 ppb	2.47176 43.17%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	1.8 0.0254 µg/L	0.32977 0.0254 ppb	0.32977 >999.9%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	18.0 0.5024 µg/L	0.09326 0.5024 ppb	0.09326 18.56%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 7
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/29/2010 13:17:22
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76020.6	76020.6	96.9 %		13:18:00
1	Al 396.153Radial†	7497.5	7769.6	5021.4 µg/L	5021.4 ppb	13:18:00
1	Ca 317.933Radial†	6692.5	6661.8	4800.2 µg/L	4800.2 ppb	13:18:20
1	Fe 238.204 Radial†	388.8	385.0	5109.5 µg/L	5109.5 ppb	13:18:20
1	K 766.490 Radial†	8322.6	8193.2	5169.2 µg/L	5169.2 ppb	13:18:00
1	Mg 279.077 IEC†	494.9	502.8	5163.3 µg/L	5163.3 ppb	13:18:20
1	Na 589.592 Radial†	36317.7	36939.2	9834.5 µg/L	9834.5 ppb	13:18:00
1	Sr 421.552†	82697.9	84739.8	506.91 µg/L	506.91 ppb	13:18:00
1	Sc 361.383	1937980.5	1937980.5	98.053 %		13:19:24
1	Y 371.029	1220457.5	1220457.5	97.706 %		13:19:24
1	Ag 328.068†	56304.2	57514.6	522.92 µg/L	522.92 ppb	13:19:29
1	As 188.979†	233.7	241.1	524.45 µg/L	524.45 ppb	13:19:50
1	B 249.677†	10657.5	10499.1	495.48 µg/L	495.48 ppb	13:19:29
1	Ba 233.527†	18151.2	18535.5	518.69 µg/L	518.69 ppb	13:19:29
1	Be 313.107†	755163.9	766322.2	515.41 µg/L	515.41 ppb	13:19:24
1	Cd 226.502†	17650.2	18125.9	513.51 µg/L	513.51 ppb	13:19:29
1	Co 228.616†	9564.4	9803.6	520.91 µg/L	520.91 ppb	13:19:29
1	Cr 267.716†	22792.2	23346.9	523.46 µg/L	523.46 ppb	13:19:29
1	Cu 324.752†	73976.4	71545.1	525.30 µg/L	525.30 ppb	13:19:29
1	Mn 257.610†	143777.7	146780.0	520.74 µg/L	520.74 ppb	13:19:24
1	Mo 202.031†	4232.4	4303.9	521.59 µg/L	521.59 ppb	13:19:50
1	Ni 231.604†	8752.3	8594.7	519.84 µg/L	519.84 ppb	13:19:29
1	P 214.914†	1348.5	1155.5	2612.5 µg/L	2612.5 ppb	13:19:50
1	Pb 220.353†	1905.3	1882.0	528.10 µg/L	528.10 ppb	13:19:50
1	S 181.975 Axial†	214.5	195.7	1087.8 µg/L	1087.8 ppb	13:19:50
1	Sb 206.836†	505.9	491.9	522.45 µg/L	522.45 ppb	13:19:50
1	Se 196.026†	348.1	347.1	540.91 µg/L	540.91 ppb	13:19:50
1	SiO2†	29165.0	27354.6	5585.2 µg/L	5585.2 ppb	13:19:29
1	Si 251.611†	31836.7	32186.4	2607.2 µg/L	2607.2 ppb	13:19:29
1	Sn 189.927†	944.2	939.4	532.06 µg/L	532.06 ppb	13:19:50
1	Ti 334.940†	211554.9	215051.0	519.52 µg/L	519.52 ppb	13:19:24
1	Tl 190.801†	288.3	318.5	534.98 µg/L	534.98 ppb	13:19:50
1	U 409.014†	5342.8	5635.1	522.76 µg/L	522.76 ppb	13:19:29
1	V 292.402†	42554.6	43514.7	529.63 µg/L	529.63 ppb	13:19:29
1	Zn 213.857†	18842.2	18584.1	518.72 µg/L	518.72 ppb	13:19:29
2	Sc RADIAL	75983.0	75983.0	96.8 %		13:18:26
2	Al 396.153Radial†	7511.9	7788.3	5033.7 µg/L	5033.7 ppb	13:18:26
2	Ca 317.933Radial†	6730.8	6704.8	4831.1 µg/L	4831.1 ppb	13:18:46
2	Fe 238.204 Radial†	388.2	384.6	5104.3 µg/L	5104.3 ppb	13:18:46
2	K 766.490 Radial†	8367.9	8244.2	5201.3 µg/L	5201.3 ppb	13:18:26
2	Mg 279.077 IEC†	497.4	505.6	5191.9 µg/L	5191.9 ppb	13:18:46
2	Na 589.592 Radial†	36438.1	37082.1	9872.5 µg/L	9872.5 ppb	13:18:26
2	Sr 421.552†	82859.1	84948.5	508.15 µg/L	508.15 ppb	13:18:26
2	Sc 361.383	1938321.7	1938321.7	98.071 %		13:19:57
2	Y 371.029	1220088.2	1220088.2	97.677 %		13:19:57
2	Ag 328.068†	56520.6	57725.1	524.83 µg/L	524.83 ppb	13:20:03
2	As 188.979†	235.6	242.9	528.52 µg/L	528.52 ppb	13:20:23
2	B 249.677†	10737.4	10578.7	499.26 µg/L	499.26 ppb	13:20:03
2	Ba 233.527†	18202.2	18584.2	520.06 µg/L	520.06 ppb	13:20:03
2	Be 313.107†	750120.2	761043.7	511.86 µg/L	511.86 ppb	13:19:57
2	Cd 226.502†	17711.2	18184.9	515.18 µg/L	515.18 ppb	13:20:03
2	Co 228.616†	9564.0	9801.5	520.80 µg/L	520.80 ppb	13:20:03
2	Cr 267.716†	22904.1	23456.9	525.92 µg/L	525.92 ppb	13:20:03
2	Cu 324.752†	74324.4	71886.7	527.81 µg/L	527.81 ppb	13:20:03
2	Mn 257.610†	142970.7	145931.3	517.73 µg/L	517.73 ppb	13:19:57
2	Mo 202.031†	4179.7	4249.4	514.98 µg/L	514.98 ppb	13:20:23
2	Ni 231.604†	8793.6	8635.2	522.29 µg/L	522.29 ppb	13:20:03
2	P 214.914†	1337.5	1144.0	2585.7 µg/L	2585.7 ppb	13:20:23
2	Pb 220.353†	1906.1	1882.4	528.19 µg/L	528.19 ppb	13:20:23

2	S 181.975 Axial†	209.6	190.6	1059.4 µg/L	1059.4 ppb	13:20:23
2	Sb 206.836†	502.8	488.6	518.87 µg/L	518.87 ppb	13:20:23
2	Se 196.026†	351.9	350.9	546.58 µg/L	546.58 ppb	13:20:23
2	SiO2†	29284.5	27471.2	5609.0 µg/L	5609.0 ppb	13:20:03
2	Si 251.611†	31997.9	32345.0	2620.1 µg/L	2620.1 ppb	13:20:03
2	Sn 189.927†	941.7	936.7	530.53 µg/L	530.53 ppb	13:20:23
2	Ti 334.940†	210368.9	213803.6	516.50 µg/L	516.50 ppb	13:19:57
2	Tl 190.801†	285.1	315.2	529.47 µg/L	529.47 ppb	13:20:23
2	U 409.014†	5373.3	5665.3	525.56 µg/L	525.56 ppb	13:20:03
2	V 292.402†	42729.0	43684.9	531.64 µg/L	531.64 ppb	13:20:03
2	Zn 213.857†	18860.6	18599.4	519.14 µg/L	519.14 ppb	13:20:03
3	Sc RADIAL	76259.9	76259.9	97.2 %		13:18:52
3	Al 396.153Radial†	7514.6	7762.9	5018.8 µg/L	5018.8 ppb	13:18:52
3	Ca 317.933Radial†	6704.6	6652.7	4793.5 µg/L	4793.5 ppb	13:19:12
3	Fe 238.204 Radial†	385.9	380.8	5053.0 µg/L	5053.0 ppb	13:19:12
3	K 766.490 Radial†	8337.8	8181.9	5162.0 µg/L	5162.0 ppb	13:18:52
3	Mg 279.077 IEC†	490.9	497.0	5102.8 µg/L	5102.8 ppb	13:19:12
3	Na 589.592 Radial†	36553.8	37064.5	9867.8 µg/L	9867.8 ppb	13:18:52
3	Sr 421.552†	82998.3	84781.0	507.15 µg/L	507.15 ppb	13:18:52
3	Sc 361.383	1918854.1	1918854.1	97.086 %		13:20:30
3	Y 371.029	1207979.6	1207979.6	96.707 %		13:20:30
3	Ag 328.068†	53817.8	55525.9	504.70 µg/L	504.70 ppb	13:20:36
3	As 188.979†	197.0	205.7	447.47 µg/L	447.47 ppb	13:20:57
3	B 249.677†	10126.3	10060.3	474.65 µg/L	474.65 ppb	13:20:36
3	Ba 233.527†	16853.5	17383.3	486.44 µg/L	486.44 ppb	13:20:36
3	Be 313.107†	704074.0	721375.3	485.18 µg/L	485.18 ppb	13:20:30
3	Cd 226.502†	16282.6	16896.7	478.65 µg/L	478.65 ppb	13:20:36
3	Co 228.616†	8736.0	9047.6	480.68 µg/L	480.68 ppb	13:20:36
3	Cr 267.716†	20347.8	21060.7	472.21 µg/L	472.21 ppb	13:20:36
3	Cu 324.752†	68406.3	66559.8	488.74 µg/L	488.74 ppb	13:20:36
3	Mn 257.610†	134382.5	138564.3	491.61 µg/L	491.61 ppb	13:20:30
3	Mo 202.031†	3505.5	3598.2	436.09 µg/L	436.09 ppb	13:20:57
3	Ni 231.604†	8045.3	7955.4	481.18 µg/L	481.18 ppb	13:20:36
3	P 214.914†	1171.6	986.9	2226.7 µg/L	2226.7 ppb	13:20:57
3	Pb 220.353†	1659.4	1648.0	462.34 µg/L	462.34 ppb	13:20:57
3	S 181.975 Axial†	187.2	169.7	943.27 µg/L	943.27 ppb	13:20:57
3	Sb 206.836†	436.2	425.3	451.17 µg/L	451.17 ppb	13:20:57
3	Se 196.026†	298.4	299.4	469.02 µg/L	469.02 ppb	13:20:57
3	SiO2†	27472.7	25908.0	5289.8 µg/L	5289.8 ppb	13:20:36
3	Si 251.611†	29777.5	30389.0	2461.6 µg/L	2461.6 ppb	13:20:36
3	Sn 189.927†	781.1	781.0	442.75 µg/L	442.75 ppb	13:20:57
3	Ti 334.940†	196664.0	201863.6	487.64 µg/L	487.64 ppb	13:20:30
3	Tl 190.801†	253.4	285.5	479.77 µg/L	479.77 ppb	13:20:57
3	U 409.014†	4786.6	5116.5	474.56 µg/L	474.56 ppb	13:20:36
3	V 292.402†	38869.8	40152.0	488.34 µg/L	488.34 ppb	13:20:36
3	Zn 213.857†	17312.7	17200.1	480.06 µg/L	480.06 ppb	13:20:36

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1931718.8	97.737 %	0.5638			0.58%
Sc RADIAL	76087.8	97.0 %	0.19			0.20%
Y 371.029	1216175.1	97.363 %	0.5684			0.58%
Ag 328.068†	56921.9	517.48 µg/L	11.114	517.48 ppb	11.114	2.15%
QC value within limits for Ag 328.068 Recovery = 103.50%						
Al 396.153Radial†	7773.6	5024.6 µg/L	7.92	5024.6 ppb	7.92	0.16%
QC value within limits for Al 396.153Radial Recovery = 100.49%						
As 188.979†	229.9	500.15 µg/L	45.669	500.15 ppb	45.669	9.13%
QC value within limits for As 188.979 Recovery = 100.03%						
B 249.677†	10379.4	489.80 µg/L	13.255	489.80 ppb	13.255	2.71%
QC value within limits for B 249.677 Recovery = 97.96%						
Ba 233.527†	18167.7	508.40 µg/L	19.030	508.40 ppb	19.030	3.74%
QC value within limits for Ba 233.527 Recovery = 101.68%						
Be 313.107†	749580.4	504.15 µg/L	16.524	504.15 ppb	16.524	3.28%
QC value within limits for Be 313.107 Recovery = 100.83%						
Ca 317.933Radial†	6673.1	4808.3 µg/L	20.07	4808.3 ppb	20.07	0.42%
QC value within limits for Ca 317.933Radial Recovery = 96.17%						
Cd 226.502†	17735.8	502.45 µg/L	20.626	502.45 ppb	20.626	4.11%
QC value within limits for Cd 226.502 Recovery = 100.49%						
Co 228.616†	9550.9	507.46 µg/L	23.193	507.46 ppb	23.193	4.57%

QC value within limits for Co 228.616 Recovery = 101.49%							
Cr 267.716†	22621.5	507.19 µg/L	30.327	507.19 ppb	30.327	5.98%	
QC value within limits for Cr 267.716 Recovery = 101.44%							
Cu 324.752†	69997.2	513.95 µg/L	21.868	513.95 ppb	21.868	4.25%	
QC value within limits for Cu 324.752 Recovery = 102.79%							
Fe 238.204 Radial†	383.5	5088.9 µg/L	31.23	5088.9 ppb	31.23	0.61%	
QC value within limits for Fe 238.204 Radial Recovery = 101.78%							
K 766.490 Radial†	8206.5	5177.5 µg/L	20.96	5177.5 ppb	20.96	0.40%	
QC value within limits for K 766.490 Radial Recovery = 103.55%							
Mg 279.077 IEC†	501.8	5152.7 µg/L	45.50	5152.7 ppb	45.50	0.88%	
QC value within limits for Mg 279.077 IEC Recovery = 103.05%							
Mn 257.610†	143758.5	510.03 µg/L	16.018	510.03 ppb	16.018	3.14%	
QC value within limits for Mn 257.610 Recovery = 102.01%							
Mo 202.031†	4050.5	490.89 µg/L	47.569	490.89 ppb	47.569	9.69%	
QC value within limits for Mo 202.031 Recovery = 98.18%							
Na 589.592 Radial†	37028.6	9858.3 µg/L	20.74	9858.3 ppb	20.74	0.21%	
QC value within limits for Na 589.592 Radial Recovery = 98.58%							
Ni 231.604†	8395.1	507.77 µg/L	23.063	507.77 ppb	23.063	4.54%	
QC value within limits for Ni 231.604 Recovery = 101.55%							
P 214.914†	1095.5	2475.0 µg/L	215.43	2475.0 ppb	215.43	8.70%	
QC value within limits for P 214.914 Recovery = 99.00%							
Pb 220.353†	1804.1	506.21 µg/L	37.996	506.21 ppb	37.996	7.51%	
QC value within limits for Pb 220.353 Recovery = 101.24%							
S 181.975 Axial†	185.3	1030.2 µg/L	76.58	1030.2 ppb	76.58	7.43%	
QC value within limits for S 181.975 Axial Recovery = 103.02%							
Sb 206.836†	468.6	497.50 µg/L	40.161	497.50 ppb	40.161	8.07%	
QC value within limits for Sb 206.836 Recovery = 99.50%							
Se 196.026†	332.4	518.84 µg/L	43.233	518.84 ppb	43.233	8.33%	
QC value within limits for Se 196.026 Recovery = 103.77%							
SiO2†	26911.3	5494.6 µg/L	177.80	5494.6 ppb	177.80	3.24%	
QC value within limits for SiO2 Recovery = 102.75%							
Si 251.611†	31640.1	2563.0 µg/L	88.01	2563.0 ppb	88.01	3.43%	
QC value within limits for Si 251.611 Recovery = 102.52%							
Sn 189.927†	885.7	501.78 µg/L	51.126	501.78 ppb	51.126	10.19%	
QC value within limits for Sn 189.927 Recovery = 100.36%							
Sr 421.552†	84823.1	507.40 µg/L	0.661	507.40 ppb	0.661	0.13%	
QC value within limits for Sr 421.552 Recovery = 101.48%							
Ti 334.940†	210239.4	507.89 µg/L	17.596	507.89 ppb	17.596	3.46%	
QC value within limits for Ti 334.940 Recovery = 101.58%							
Tl 190.801†	306.4	514.74 µg/L	30.410	514.74 ppb	30.410	5.91%	
QC value within limits for Tl 190.801 Recovery = 102.95%							
U 409.014†	5472.3	507.63 µg/L	28.669	507.63 ppb	28.669	5.65%	
QC value within limits for U 409.014 Recovery = 101.53%							
V 292.402†	42450.5	516.53 µg/L	24.440	516.53 ppb	24.440	4.73%	
QC value within limits for V 292.402 Recovery = 103.31%							
Zn 213.857†	18127.9	505.97 µg/L	22.445	505.97 ppb	22.445	4.44%	
QC value within limits for Zn 213.857 Recovery = 101.19%							
All analyte(s) passed QC.							

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 13:21:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74188.5	74188.5	94.5 %		13:21:39
1	Al 396.153Radial†	-15.4	13.2	8.5253 µg/L	8.5253 ppb	13:21:39
1	Ca 317.933Radial†	236.3	2.8	2.0188 µg/L	2.0188 ppb	13:21:59
1	Fe 238.204 Radial†	16.9	1.5	19.825 µg/L	19.825 ppb	13:21:59
1	K 766.490 Radial†	351.7	-26.6	-16.791 µg/L	-16.791 ppb	13:21:39
1	Mg 279.077 IEC†	7.3	-0.4	-4.2242 µg/L	-4.2242 ppb	13:21:59
1	Na 589.592 Radial†	366.2	-166.3	-44.266 µg/L	-44.266 ppb	13:21:39
1	Sr 421.552†	618.8	20.6	0.1231 µg/L	0.1231 ppb	13:21:39
1	Sc 361.383	1927315.2	1927315.2	97.514 %		13:23:01
1	Y 371.029	1217985.9	1217985.9	97.508 %		13:23:01
1	Ag 328.068†	-100.3	-10.3	-0.0927 µg/L	-0.0927 ppb	13:23:06
1	As 188.979†	-0.9	1.8	3.9321 µg/L	3.9321 ppb	13:23:27
1	B 249.677†	170.1	-195.5	-9.2677 µg/L	-9.2677 ppb	13:23:27
1	Ba 233.527†	-18.9	4.5	0.1262 µg/L	0.1262 ppb	13:23:27
1	Be 313.107†	3908.5	174.4	0.1172 µg/L	0.1172 ppb	13:23:06
1	Cd 226.502†	-108.3	14.2	0.3997 µg/L	0.3997 ppb	13:23:27
1	Co 228.616†	-47.9	0.2	0.0096 µg/L	0.0096 ppb	13:23:27
1	Cr 267.716†	-49.5	51.3	1.1502 µg/L	1.1502 ppb	13:23:06
1	Cu 324.752†	3772.4	-31.3	-0.2270 µg/L	-0.2270 ppb	13:23:06
1	Mn 257.610†	-13.3	134.2	0.4784 µg/L	0.4784 ppb	13:23:27
1	Mo 202.031†	13.4	1.2	0.1434 µg/L	0.1434 ppb	13:23:27
1	Ni 231.604†	327.0	4.0	0.2406 µg/L	0.2406 ppb	13:23:27
1	P 214.914†	227.1	13.1	30.102 µg/L	30.102 ppb	13:23:27
1	Pb 220.353†	64.8	5.3	1.4808 µg/L	1.4808 ppb	13:23:27
1	S 181.975 Axial†	27.1	4.7	26.016 µg/L	26.016 ppb	13:23:27
1	Sb 206.836†	27.2	3.9	4.1155 µg/L	4.1155 ppb	13:23:27
1	Se 196.026†	5.7	-2.1	-3.1326 µg/L	-3.1326 ppb	13:23:27
1	SiO2†	2298.4	-32.4	-6.6127 µg/L	-6.6127 ppb	13:23:06
1	Si 251.611†	314.3	39.9	3.2311 µg/L	3.2311 ppb	13:23:27
1	Sn 189.927†	24.6	1.8	1.0089 µg/L	1.0089 ppb	13:23:27
1	Ti 334.940†	833.8	151.2	0.3658 µg/L	0.3658 ppb	13:23:06
1	Tl 190.801†	-19.3	4.8	7.9379 µg/L	7.9379 ppb	13:23:27
1	U 409.014†	-180.1	1.6	0.1413 µg/L	0.1413 ppb	13:23:06
1	V 292.402†	-122.8	-10.6	-0.1228 µg/L	-0.1228 ppb	13:23:06
1	Zn 213.857†	721.6	107.8	3.0285 µg/L	3.0285 ppb	13:23:27
2	Sc RADIAL	74669.7	74669.7	95.1 %		13:22:05
2	Al 396.153Radial†	-22.9	5.5	3.5002 µg/L	3.5002 ppb	13:22:05
2	Ca 317.933Radial†	232.3	-3.0	-2.1908 µg/L	-2.1908 ppb	13:22:25
2	Fe 238.204 Radial†	18.5	3.1	41.085 µg/L	41.085 ppb	13:22:25
2	K 766.490 Radial†	385.6	6.6	4.1649 µg/L	4.1649 ppb	13:22:05
2	Mg 279.077 IEC†	9.4	1.7	17.396 µg/L	17.396 ppb	13:22:25
2	Na 589.592 Radial†	371.1	-163.7	-43.573 µg/L	-43.573 ppb	13:22:05
2	Sr 421.552†	654.6	54.0	0.3228 µg/L	0.3228 ppb	13:22:05
2	Sc 361.383	1918473.8	1918473.8	97.066 %		13:23:33
2	Y 371.029	1211992.9	1211992.9	97.029 %		13:23:33
2	Ag 328.068†	-121.3	-32.4	-0.2893 µg/L	-0.2893 ppb	13:23:38
2	As 188.979†	-1.5	1.2	2.6370 µg/L	2.6370 ppb	13:23:59
2	B 249.677†	167.3	-197.6	-9.3787 µg/L	-9.3787 ppb	13:23:59
2	Ba 233.527†	-32.1	-9.1	-0.2548 µg/L	-0.2548 ppb	13:23:59
2	Be 313.107†	4009.9	297.3	0.1999 µg/L	0.1999 ppb	13:23:38
2	Cd 226.502†	-113.9	8.0	0.2221 µg/L	0.2221 ppb	13:23:59
2	Co 228.616†	-46.5	1.4	0.0778 µg/L	0.0778 ppb	13:23:59
2	Cr 267.716†	-50.0	50.7	1.1357 µg/L	1.1357 ppb	13:23:38
2	Cu 324.752†	3786.5	1.0	0.0131 µg/L	0.0131 ppb	13:23:38
2	Mn 257.610†	-11.1	136.5	0.4885 µg/L	0.4885 ppb	13:23:59
2	Mo 202.031†	25.7	13.9	1.6844 µg/L	1.6844 ppb	13:23:59
2	Ni 231.604†	340.6	19.5	1.1788 µg/L	1.1788 ppb	13:23:59
2	P 214.914†	227.5	14.5	33.428 µg/L	33.428 ppb	13:23:59
2	Pb 220.353†	60.9	1.5	0.4416 µg/L	0.4416 ppb	13:23:59

2	S 181.975 Axial†	23.5	1.1	5.9613 µg/L	5.9613 ppb	13:23:59
2	Sb 206.836†	23.9	0.6	0.6874 µg/L	0.6874 ppb	13:23:59
2	Se 196.026†	8.7	1.1	1.7501 µg/L	1.7501 ppb	13:23:59
2	SiO2†	2292.9	-27.2	-5.5542 µg/L	-5.5542 ppb	13:23:38
2	Si 251.611†	319.0	46.2	3.7403 µg/L	3.7403 ppb	13:23:59
2	Sn 189.927†	22.4	-0.4	-0.2347 µg/L	-0.2347 ppb	13:23:59
2	Ti 334.940†	795.0	115.2	0.2771 µg/L	0.2771 ppb	13:23:38
2	Tl 190.801†	-22.5	1.4	2.2595 µg/L	2.2595 ppb	13:23:59
2	U 409.014†	-244.7	-65.9	-6.1324 µg/L	-6.1324 ppb	13:23:38
2	V 292.402†	-110.1	1.9	0.0340 µg/L	0.0340 ppb	13:23:38
2	Zn 213.857†	702.3	91.3	2.5574 µg/L	2.5574 ppb	13:23:59
3	Sc RADIAL	73863.0	73863.0	94.1 %		13:22:30
3	Al 396.153Radial†	-46.7	-20.1	-13.046 µg/L	-13.046 ppb	13:22:30
3	Ca 317.933Radial†	248.2	16.5	11.892 µg/L	11.892 ppb	13:22:51
3	Fe 238.204 Radial†	17.4	2.1	27.894 µg/L	27.894 ppb	13:22:51
3	K 766.490 Radial†	417.7	45.1	28.473 µg/L	28.473 ppb	13:22:30
3	Mg 279.077 IEC†	9.4	1.8	18.277 µg/L	18.277 ppb	13:22:51
3	Na 589.592 Radial†	371.2	-159.3	-42.417 µg/L	-42.417 ppb	13:22:30
3	Sr 421.552†	651.4	58.1	0.3477 µg/L	0.3477 ppb	13:22:30
3	Sc 361.383	1915169.0	1915169.0	96.899 %		13:24:05
3	Y 371.029	1210927.9	1210927.9	96.943 %		13:24:05
3	Ag 328.068†	-138.8	-50.6	-0.4534 µg/L	-0.4534 ppb	13:24:11
3	As 188.979†	-1.6	1.1	2.3772 µg/L	2.3772 ppb	13:24:31
3	B 249.677†	186.1	-177.9	-8.4388 µg/L	-8.4388 ppb	13:24:31
3	Ba 233.527†	-3.4	20.5	0.5726 µg/L	0.5726 ppb	13:24:31
3	Be 313.107†	3971.4	264.7	0.1780 µg/L	0.1780 ppb	13:24:11
3	Cd 226.502†	-91.2	31.2	0.8819 µg/L	0.8819 ppb	13:24:31
3	Co 228.616†	-36.7	11.4	0.6095 µg/L	0.6095 ppb	13:24:31
3	Cr 267.716†	-86.5	12.9	0.2893 µg/L	0.2893 ppb	13:24:11
3	Cu 324.752†	3809.5	31.5	0.2346 µg/L	0.2346 ppb	13:24:11
3	Mn 257.610†	144.3	296.8	1.0548 µg/L	1.0548 ppb	13:24:31
3	Mo 202.031†	22.5	10.7	1.2938 µg/L	1.2938 ppb	13:24:31
3	Ni 231.604†	338.7	18.1	1.0968 µg/L	1.0968 ppb	13:24:31
3	P 214.914†	234.6	22.3	51.282 µg/L	51.282 ppb	13:24:31
3	Pb 220.353†	66.5	7.5	2.1165 µg/L	2.1165 ppb	13:24:31
3	S 181.975 Axial†	24.2	1.9	10.331 µg/L	10.331 ppb	13:24:31
3	Sb 206.836†	30.8	7.8	8.2544 µg/L	8.2544 ppb	13:24:31
3	Se 196.026†	10.8	3.2	4.8637 µg/L	4.8637 ppb	13:24:31
3	SiO2†	2279.8	-36.7	-7.4915 µg/L	-7.4915 ppb	13:24:11
3	Si 251.611†	405.1	135.7	10.990 µg/L	10.990 ppb	13:24:31
3	Sn 189.927†	27.6	5.1	2.8560 µg/L	2.8560 ppb	13:24:31
3	Ti 334.940†	753.2	73.5	0.1763 µg/L	0.1763 ppb	13:24:11
3	Tl 190.801†	-19.0	4.9	8.1354 µg/L	8.1354 ppb	13:24:31
3	U 409.014†	-256.7	-78.7	-7.3221 µg/L	-7.3221 ppb	13:24:11
3	V 292.402†	-89.0	23.5	0.2870 µg/L	0.2870 ppb	13:24:11
3	Zn 213.857†	730.4	121.5	3.4081 µg/L	3.4081 ppb	13:24:31

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1920319.3	97.160 %	0.3177			0.33%
Sc RADIAL	74240.4	94.6 %	0.52			0.55%
Y 371.029	1213635.6	97.160 %	0.3046			0.31%
Ag 328.068†	-31.1	-0.2785 µg/L	0.18064	-0.2785 ppb	0.18064	64.87%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.5	-0.3400 µg/L	11.28661	-0.3400 ppb	11.28661	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.4	2.9821 µg/L	0.83290	2.9821 ppb	0.83290	27.93%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-190.3	-9.0284 µg/L	0.51360	-9.0284 ppb	0.51360	5.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.3	0.1480 µg/L	0.41417	0.1480 ppb	0.41417	279.87%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	245.5	0.1651 µg/L	0.04285	0.1651 ppb	0.04285	25.96%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	5.4	3.9068 µg/L	7.22889	3.9068 ppb	7.22889	185.04%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	17.8	0.5012 µg/L	0.34141	0.5012 ppb	0.34141	68.11%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.4	0.2323 µg/L	0.32845	0.2323 ppb	0.32845	141.41%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	38.3	0.8584 µg/L	0.49291	0.8584 ppb	0.49291	57.42%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	0.4	0.0069 µg/L	0.23087	0.0069 ppb	0.23087	>999.9%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	2.2	29.602 µg/L	10.7324	29.602 ppb	10.7324	36.26%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	8.4	5.2824 µg/L	22.65232	5.2824 ppb	22.65232	428.83%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.0	10.483 µg/L	12.7443	10.483 ppb	12.7443	121.57%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	189.1	0.6739 µg/L	0.32994	0.6739 ppb	0.32994	48.96%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	8.6	1.0405 µg/L	0.80111	1.0405 ppb	0.80111	76.99%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-163.1	-43.419 µg/L	0.9342	-43.419 ppb	0.9342	2.15%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	13.9	0.8388 µg/L	0.51959	0.8388 ppb	0.51959	61.95%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	16.6	38.271 µg/L	11.3901	38.271 ppb	11.3901	29.76%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	4.8	1.3463 µg/L	0.84554	1.3463 ppb	0.84554	62.80%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.5	14.103 µg/L	10.5458	14.103 ppb	10.5458	74.78%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.1	4.3524 µg/L	3.78906	4.3524 ppb	3.78906	87.06%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.7	1.1604 µg/L	4.03064	1.1604 ppb	4.03064	347.35%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-32.1	-6.5528 µg/L	0.97005	-6.5528 ppb	0.97005	14.80%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	73.9	5.9873 µg/L	4.34037	5.9873 ppb	4.34037	72.49%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	2.1	1.2101 µg/L	1.55513	1.2101 ppb	1.55513	128.52%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	44.2	0.2645 µg/L	0.12314	0.2645 ppb	0.12314	46.55%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	113.3	0.2730 µg/L	0.09479	0.2730 ppb	0.09479	34.72%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	3.7	6.1109 µg/L	3.33689	6.1109 ppb	3.33689	54.61%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-47.7	-4.4378 µg/L	4.00993	-4.4378 ppb	4.00993	90.36%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	4.9	0.0661 µg/L	0.20676	0.0661 ppb	0.20676	312.97%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	106.9	2.9980 µg/L	0.42616	2.9980 ppb	0.42616	14.21%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 15
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/29/2010 13:46:15
 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	76966.9	76966.9	98.1 %		13:46:51
1	Al 396.153Radial†	7590.5	7769.3	5021.1 µg/L	5021.1 ppb	13:46:51
1	Ca 317.933Radial†	6802.3	6688.9	4819.6 µg/L	4819.6 ppb	13:47:11
1	Fe 238.204 Radial†	392.3	383.7	5091.8 µg/L	5091.8 ppb	13:47:11
1	K 766.490 Radial†	8444.1	8211.5	5180.7 µg/L	5180.7 ppb	13:46:51
1	Mg 279.077 IEC†	499.3	501.0	5145.0 µg/L	5145.0 ppb	13:47:11
1	Na 589.592 Radial†	36800.3	36970.3	9842.8 µg/L	9842.8 ppb	13:46:51
1	Sr 421.552†	84026.2	85044.6	508.73 µg/L	508.73 ppb	13:46:51
1	Sc 361.383	1942583.5	1942583.5	98.286 %		13:48:14
1	Y 371.029	1222529.7	1222529.7	97.872 %		13:48:14
1	Ag 328.068†	56593.2	57672.6	524.36 µg/L	524.36 ppb	13:48:20
1	As 188.979†	244.8	251.7	547.74 µg/L	547.74 ppb	13:48:41
1	B 249.677†	10723.9	10541.0	497.48 µg/L	497.48 ppb	13:48:20
1	Ba 233.527†	18345.9	18689.7	523.01 µg/L	523.01 ppb	13:48:20
1	Be 313.107†	765027.4	774532.8	520.93 µg/L	520.93 ppb	13:48:14
1	Cd 226.502†	17892.8	18330.0	519.30 µg/L	519.30 ppb	13:48:20
1	Co 228.616†	9627.7	9844.9	523.10 µg/L	523.10 ppb	13:48:20
1	Cr 267.716†	23017.6	23521.1	527.36 µg/L	527.36 ppb	13:48:20
1	Cu 324.752†	74223.2	71617.4	525.83 µg/L	525.83 ppb	13:48:20
1	Mn 257.610†	143219.2	145864.2	517.49 µg/L	517.49 ppb	13:48:20
1	Mo 202.031†	4265.6	4327.4	524.44 µg/L	524.44 ppb	13:48:41
1	Ni 231.604†	8827.6	8650.1	523.19 µg/L	523.19 ppb	13:48:20
1	P 214.914†	1377.7	1181.8	2673.5 µg/L	2673.5 ppb	13:48:41
1	Pb 220.353†	1933.6	1906.2	534.90 µg/L	534.90 ppb	13:48:41
1	S 181.975 Axial†	205.1	185.5	1031.4 µg/L	1031.4 ppb	13:48:41
1	Sb 206.836†	510.2	495.1	525.80 µg/L	525.80 ppb	13:48:41
1	Se 196.026†	338.3	336.3	524.64 µg/L	524.64 ppb	13:48:41
1	SiO2†	29243.8	27364.3	5587.1 µg/L	5587.1 ppb	13:48:20
1	Si 251.611†	31948.1	32222.7	2610.2 µg/L	2610.2 ppb	13:48:20
1	Sn 189.927†	970.6	964.0	545.91 µg/L	545.91 ppb	13:48:41
1	Ti 334.940†	213658.2	216679.7	523.46 µg/L	523.46 ppb	13:48:14
1	Tl 190.801†	287.2	316.8	532.11 µg/L	532.11 ppb	13:48:41
1	U 409.014†	5290.4	5568.9	516.60 µg/L	516.60 ppb	13:48:20
1	V 292.402†	42864.1	43726.8	532.21 µg/L	532.21 ppb	13:48:20
1	Zn 213.857†	18985.0	18683.8	521.51 µg/L	521.51 ppb	13:48:20
2	Sc RADIAL	76890.1	76890.1	98.0 %		13:47:17
2	Al 396.153Radial†	7594.4	7781.0	5028.7 µg/L	5028.7 ppb	13:47:17
2	Ca 317.933Radial†	6814.5	6708.3	4833.6 µg/L	4833.6 ppb	13:47:37
2	Fe 238.204 Radial†	396.7	388.6	5156.9 µg/L	5156.9 ppb	13:47:37
2	K 766.490 Radial†	8406.6	8181.8	5161.9 µg/L	5161.9 ppb	13:47:17
2	Mg 279.077 IEC†	501.3	503.5	5170.4 µg/L	5170.4 ppb	13:47:37
2	Na 589.592 Radial†	36848.4	37056.9	9865.8 µg/L	9865.8 ppb	13:47:17
2	Sr 421.552†	84109.9	85215.5	509.75 µg/L	509.75 ppb	13:47:17
2	Sc 361.383	1931486.6	1931486.6	97.725 %		13:48:47
2	Y 371.029	1216096.9	1216096.9	97.357 %		13:48:47
2	Ag 328.068†	56681.6	58093.9	528.20 µg/L	528.20 ppb	13:48:53
2	As 188.979†	236.9	245.1	533.35 µg/L	533.35 ppb	13:49:13
2	B 249.677†	10752.7	10633.1	501.82 µg/L	501.82 ppb	13:48:53
2	Ba 233.527†	18365.0	18816.6	526.56 µg/L	526.56 ppb	13:48:53
2	Be 313.107†	758553.4	772380.0	519.48 µg/L	519.48 ppb	13:48:47
2	Cd 226.502†	17917.4	18459.9	522.97 µg/L	522.97 ppb	13:48:53
2	Co 228.616†	9635.7	9909.3	526.53 µg/L	526.53 ppb	13:48:53
2	Cr 267.716†	23122.7	23763.2	532.79 µg/L	532.79 ppb	13:48:53
2	Cu 324.752†	74526.7	72361.8	531.30 µg/L	531.30 ppb	13:48:53
2	Mn 257.610†	143449.8	146937.4	521.30 µg/L	521.30 ppb	13:48:53
2	Mo 202.031†	4229.9	4315.8	523.03 µg/L	523.03 ppb	13:49:13
2	Ni 231.604†	8849.6	8724.3	527.68 µg/L	527.68 ppb	13:48:53
2	P 214.914†	1358.0	1169.8	2645.0 µg/L	2645.0 ppb	13:49:13
2	Pb 220.353†	1918.8	1902.3	533.79 µg/L	533.79 ppb	13:49:13

2	S 181.975 Axial†	210.4	192.1	1068.1 µg/L	1068.1 ppb	13:49:13
2	Sb 206.836†	500.2	487.9	518.10 µg/L	518.10 ppb	13:49:13
2	Se 196.026†	341.9	341.9	533.39 µg/L	533.39 ppb	13:49:13
2	SiO2†	29327.6	27621.0	5639.5 µg/L	5639.5 ppb	13:48:53
2	Si 251.611†	32110.0	32575.1	2638.7 µg/L	2638.7 ppb	13:48:53
2	Sn 189.927†	952.1	950.8	538.47 µg/L	538.47 ppb	13:49:13
2	Ti 334.940†	212087.4	216321.2	522.59 µg/L	522.59 ppb	13:48:47
2	Tl 190.801†	288.7	319.9	537.38 µg/L	537.38 ppb	13:49:13
2	U 409.014†	5431.9	5744.6	532.92 µg/L	532.92 ppb	13:48:53
2	V 292.402†	42994.8	44111.1	536.85 µg/L	536.85 ppb	13:48:53
2	Zn 213.857†	19049.2	18860.4	526.44 µg/L	526.44 ppb	13:48:53
3	Sc RADIAL	76270.3	76270.3	97.2 %		13:47:43
3	Al 396.153Radial†	7517.9	7765.3	5020.3 µg/L	5020.3 ppb	13:47:43
3	Ca 317.933Radial†	6791.7	6741.3	4857.4 µg/L	4857.4 ppb	13:48:03
3	Fe 238.204 Radial†	393.4	388.4	5153.8 µg/L	5153.8 ppb	13:48:03
3	K 766.490 Radial†	8389.6	8234.0	5194.9 µg/L	5194.9 ppb	13:47:43
3	Mg 279.077 IEC†	499.4	505.7	5192.1 µg/L	5192.1 ppb	13:48:03
3	Na 589.592 Radial†	36589.0	37095.7	9876.1 µg/L	9876.1 ppb	13:47:43
3	Sr 421.552†	83372.4	85154.3	509.39 µg/L	509.39 ppb	13:47:43
3	Sc 361.383	1944783.8	1944783.8	98.398 %		13:49:20
3	Y 371.029	1224075.8	1224075.8	97.996 %		13:49:20
3	Ag 328.068†	54473.4	55453.1	504.06 µg/L	504.06 ppb	13:49:26
3	As 188.979†	210.3	216.4	470.92 µg/L	470.92 ppb	13:49:46
3	B 249.677†	10268.1	10065.3	474.84 µg/L	474.84 ppb	13:49:26
3	Ba 233.527†	17140.5	17443.6	488.12 µg/L	488.12 ppb	13:49:26
3	Be 313.107†	725578.2	733560.6	493.38 µg/L	493.38 ppb	13:49:20
3	Cd 226.502†	16707.9	17105.2	484.55 µg/L	484.55 ppb	13:49:26
3	Co 228.616†	8877.5	9071.4	481.94 µg/L	481.94 ppb	13:49:26
3	Cr 267.716†	20745.1	21185.1	474.99 µg/L	474.99 ppb	13:49:26
3	Cu 324.752†	69108.7	66334.2	487.10 µg/L	487.10 ppb	13:49:26
3	Mn 257.610†	132272.7	134574.6	477.48 µg/L	477.48 ppb	13:49:26
3	Mo 202.031†	3600.6	3646.7	441.97 µg/L	441.97 ppb	13:49:46
3	Ni 231.604†	8190.6	7992.6	483.43 µg/L	483.43 ppb	13:49:26
3	P 214.914†	1210.5	1010.4	2281.0 µg/L	2281.0 ppb	13:49:46
3	Pb 220.353†	1700.2	1666.7	467.58 µg/L	467.58 ppb	13:49:46
3	S 181.975 Axial†	190.8	170.7	949.16 µg/L	949.16 ppb	13:49:46
3	Sb 206.836†	446.3	429.6	455.79 µg/L	455.79 ppb	13:49:46
3	Se 196.026†	306.1	303.1	475.01 µg/L	475.01 ppb	13:49:46
3	SiO2†	27735.3	25797.6	5267.3 µg/L	5267.3 ppb	13:49:26
3	Si 251.611†	30260.5	30470.9	2468.3 µg/L	2468.3 ppb	13:49:26
3	Sn 189.927†	805.7	795.3	450.85 µg/L	450.85 ppb	13:49:46
3	Ti 334.940†	201755.0	204336.7	493.62 µg/L	493.62 ppb	13:49:20
3	Tl 190.801†	262.0	290.8	488.53 µg/L	488.53 ppb	13:49:46
3	U 409.014†	4850.1	5115.3	474.44 µg/L	474.44 ppb	13:49:26
3	V 292.402†	39530.0	40289.1	490.04 µg/L	490.04 ppb	13:49:26
3	Zn 213.857†	17647.6	17302.7	482.92 µg/L	482.92 ppb	13:49:26

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1939618.0	98.136 %	0.3606			0.37%
Sc RADIAL	76709.1	97.7 %	0.49			0.50%
Y 371.029	1220900.8	97.742 %	0.3388			0.35%
Ag 328.068†	57073.2	518.87 µg/L	12.972	518.87 ppb	12.972	2.50%
QC value within limits for Ag 328.068 Recovery = 103.77%						
Al 396.153Radial†	7771.8	5023.4 µg/L	4.67	5023.4 ppb	4.67	0.09%
QC value within limits for Al 396.153Radial Recovery = 100.47%						
As 188.979†	237.8	517.34 µg/L	40.839	517.34 ppb	40.839	7.89%
QC value within limits for As 188.979 Recovery = 103.47%						
B 249.677†	10413.1	491.38 µg/L	14.490	491.38 ppb	14.490	2.95%
QC value within limits for B 249.677 Recovery = 98.28%						
Ba 233.527†	18316.6	512.56 µg/L	21.239	512.56 ppb	21.239	4.14%
QC value within limits for Ba 233.527 Recovery = 102.51%						
Be 313.107†	760157.8	511.26 µg/L	15.508	511.26 ppb	15.508	3.03%
QC value within limits for Be 313.107 Recovery = 102.25%						
Ca 317.933Radial†	6712.8	4836.9 µg/L	19.11	4836.9 ppb	19.11	0.40%
QC value within limits for Ca 317.933Radial Recovery = 96.74%						
Cd 226.502†	17965.1	508.94 µg/L	21.204	508.94 ppb	21.204	4.17%
QC value within limits for Cd 226.502 Recovery = 101.79%						
Co 228.616†	9608.5	510.52 µg/L	24.811	510.52 ppb	24.811	4.86%

QC value within limits for Co 228.616 Recovery = 102.10%							
Cr	267.716†	22823.1	511.71 µg/L	31.917	511.71 ppb	31.917	6.24%
QC value within limits for Cr 267.716 Recovery = 102.34%							
Cu	324.752†	70104.5	514.74 µg/L	24.094	514.74 ppb	24.094	4.68%
QC value within limits for Cu 324.752 Recovery = 102.95%							
Fe	238.204 Radial†	386.9	5134.2 µg/L	36.71	5134.2 ppb	36.71	0.71%
QC value within limits for Fe 238.204 Radial Recovery = 102.68%							
K	766.490 Radial†	8209.1	5179.1 µg/L	16.53	5179.1 ppb	16.53	0.32%
QC value within limits for K 766.490 Radial Recovery = 103.58%							
Mg	279.077 IEC†	503.4	5169.2 µg/L	23.56	5169.2 ppb	23.56	0.46%
QC value within limits for Mg 279.077 IEC Recovery = 103.38%							
Mn	257.610†	142458.8	505.43 µg/L	24.275	505.43 ppb	24.275	4.80%
QC value within limits for Mn 257.610 Recovery = 101.09%							
Mo	202.031†	4096.6	496.48 µg/L	47.213	496.48 ppb	47.213	9.51%
QC value within limits for Mo 202.031 Recovery = 99.30%							
Na	589.592 Radial†	37040.9	9861.6 µg/L	17.09	9861.6 ppb	17.09	0.17%
QC value within limits for Na 589.592 Radial Recovery = 98.62%							
Ni	231.604†	8455.7	511.44 µg/L	24.355	511.44 ppb	24.355	4.76%
QC value within limits for Ni 231.604 Recovery = 102.29%							
P	214.914†	1120.7	2533.1 µg/L	218.86	2533.1 ppb	218.86	8.64%
QC value within limits for P 214.914 Recovery = 101.33%							
Pb	220.353†	1825.1	512.09 µg/L	38.547	512.09 ppb	38.547	7.53%
QC value within limits for Pb 220.353 Recovery = 102.42%							
S	181.975 Axial†	182.8	1016.2 µg/L	60.90	1016.2 ppb	60.90	5.99%
QC value within limits for S 181.975 Axial Recovery = 101.62%							
Sb	206.836†	470.8	499.90 µg/L	38.388	499.90 ppb	38.388	7.68%
QC value within limits for Sb 206.836 Recovery = 99.98%							
Se	196.026†	327.1	511.02 µg/L	31.485	511.02 ppb	31.485	6.16%
QC value within limits for Se 196.026 Recovery = 102.20%							
SiO2†		26927.6	5498.0 µg/L	201.52	5498.0 ppb	201.52	3.67%
QC value within limits for SiO2 Recovery = 102.81%							
Si	251.611†	31756.2	2572.4 µg/L	91.29	2572.4 ppb	91.29	3.55%
QC value within limits for Si 251.611 Recovery = 102.90%							
Sn	189.927†	903.4	511.75 µg/L	52.867	511.75 ppb	52.867	10.33%
QC value within limits for Sn 189.927 Recovery = 102.35%							
Sr	421.552†	85138.1	509.29 µg/L	0.518	509.29 ppb	0.518	0.10%
QC value within limits for Sr 421.552 Recovery = 101.86%							
Ti	334.940†	212445.9	513.22 µg/L	16.983	513.22 ppb	16.983	3.31%
QC value within limits for Ti 334.940 Recovery = 102.64%							
Tl	190.801†	309.2	519.34 µg/L	26.813	519.34 ppb	26.813	5.16%
QC value within limits for Tl 190.801 Recovery = 103.87%							
U	409.014†	5476.2	507.99 µg/L	30.182	507.99 ppb	30.182	5.94%
QC value within limits for U 409.014 Recovery = 101.60%							
V	292.402†	42709.0	519.70 µg/L	25.788	519.70 ppb	25.788	4.96%
QC value within limits for V 292.402 Recovery = 103.94%							
Zn	213.857†	18282.3	510.29 µg/L	23.832	510.29 ppb	23.832	4.67%
QC value within limits for Zn 213.857 Recovery = 102.06%							

All analyte(s) passed QC.

Sequence No.: 16
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 1/29/2010 13:49:56
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74268.3	74268.3	94.6 %		13:50:28
1	Al 396.153Radial†	-12.0	16.8	10.855 µg/L	10.855 ppb	13:50:28
1	Ca 317.933Radial†	245.8	12.6	9.0529 µg/L	9.0529 ppb	13:50:49
1	Fe 238.204 Radial†	17.9	2.6	33.998 µg/L	33.998 ppb	13:50:49
1	K 766.490 Radial†	362.7	-15.4	-9.7151 µg/L	-9.7151 ppb	13:50:28
1	Mg 279.077 IEC†	4.5	-3.4	-34.811 µg/L	-34.811 ppb	13:50:49
1	Na 589.592 Radial†	415.6	-114.6	-30.499 µg/L	-30.499 ppb	13:50:28
1	Sr 421.552†	778.5	188.6	1.1285 µg/L	1.1285 ppb	13:50:28
1	Sc 361.383	1923590.1	1923590.1	97.325 %		13:51:51
1	Y 371.029	1214970.3	1214970.3	97.267 %		13:51:51
1	Ag 328.068†	-180.2	-92.5	-0.8354 µg/L	-0.8354 ppb	13:51:56
1	As 188.979†	0.5	3.2	7.0208 µg/L	7.0208 ppb	13:52:17
1	B 249.677†	164.6	-200.8	-9.5295 µg/L	-9.5295 ppb	13:52:17
1	Ba 233.527†	-34.6	-11.6	-0.3235 µg/L	-0.3235 ppb	13:52:17
1	Be 313.107†	3829.7	101.2	0.0681 µg/L	0.0681 ppb	13:51:56
1	Cd 226.502†	-124.0	-2.1	-0.0632 µg/L	-0.0632 ppb	13:52:17
1	Co 228.616†	-45.8	2.3	0.1213 µg/L	0.1213 ppb	13:52:17
1	Cr 267.716†	-71.4	28.8	0.6448 µg/L	0.6448 ppb	13:51:56
1	Cu 324.752†	3805.8	10.4	0.0813 µg/L	0.0813 ppb	13:51:56
1	Mn 257.610†	-59.0	87.2	0.3149 µg/L	0.3149 ppb	13:52:17
1	Mo 202.031†	17.8	5.7	0.6920 µg/L	0.6920 ppb	13:52:17
1	Ni 231.604†	335.1	12.9	0.7820 µg/L	0.7820 ppb	13:52:17
1	P 214.914†	227.7	14.1	32.407 µg/L	32.407 ppb	13:52:17
1	Pb 220.353†	58.8	-0.7	-0.1983 µg/L	-0.1983 ppb	13:52:17
1	S 181.975 Axial†	21.5	-1.0	-5.5267 µg/L	-5.5267 ppb	13:52:17
1	Sb 206.836†	29.6	6.4	6.7840 µg/L	6.7840 ppb	13:52:17
1	Se 196.026†	8.1	0.4	0.6782 µg/L	0.6782 ppb	13:52:17
1	SiO2†	2348.0	23.1	4.7222 µg/L	4.7222 ppb	13:51:56
1	Si 251.611†	293.2	18.8	1.5237 µg/L	1.5237 ppb	13:52:17
1	Sn 189.927†	23.0	0.2	0.1168 µg/L	0.1168 ppb	13:52:17
1	Ti 334.940†	703.0	18.4	0.0474 µg/L	0.0474 ppb	13:51:56
1	Tl 190.801†	-21.8	2.1	3.4734 µg/L	3.4734 ppb	13:52:17
1	U 409.014†	-258.8	-79.7	-7.4128 µg/L	-7.4128 ppb	13:51:56
1	V 292.402†	-139.0	-27.5	-0.3302 µg/L	-0.3302 ppb	13:51:56
1	Zn 213.857†	698.9	85.9	2.4111 µg/L	2.4111 ppb	13:52:17
2	Sc RADIAL	74856.2	74856.2	95.4 %		13:50:54
2	Al 396.153Radial†	-12.7	16.2	10.471 µg/L	10.471 ppb	13:50:54
2	Ca 317.933Radial†	241.1	5.6	4.0123 µg/L	4.0123 ppb	13:51:15
2	Fe 238.204 Radial†	18.1	2.6	34.444 µg/L	34.444 ppb	13:51:15
2	K 766.490 Radial†	390.9	11.2	7.0485 µg/L	7.0485 ppb	13:50:54
2	Mg 279.077 IEC†	8.6	0.9	9.1690 µg/L	9.1690 ppb	13:51:15
2	Na 589.592 Radial†	366.5	-169.5	-45.116 µg/L	-45.116 ppb	13:50:54
2	Sr 421.552†	678.2	77.0	0.4606 µg/L	0.4606 ppb	13:50:54
2	Sc 361.383	1925742.9	1925742.9	97.434 %		13:52:23
2	Y 371.029	1216665.2	1216665.2	97.403 %		13:52:23
2	Ag 328.068†	-166.9	-78.7	-0.7054 µg/L	-0.7054 ppb	13:52:28
2	As 188.979†	-1.4	1.2	2.6996 µg/L	2.6996 ppb	13:52:49
2	B 249.677†	163.7	-201.9	-9.5818 µg/L	-9.5818 ppb	13:52:49
2	Ba 233.527†	-27.1	-3.9	-0.1067 µg/L	-0.1067 ppb	13:52:49
2	Be 313.107†	3834.1	101.3	0.0681 µg/L	0.0681 ppb	13:52:28
2	Cd 226.502†	-122.6	-0.5	-0.0184 µg/L	-0.0184 ppb	13:52:49
2	Co 228.616†	-37.3	11.0	0.5879 µg/L	0.5879 ppb	13:52:49
2	Cr 267.716†	-49.4	51.5	1.1536 µg/L	1.1536 ppb	13:52:28
2	Cu 324.752†	3800.9	1.0	0.0125 µg/L	0.0125 ppb	13:52:28
2	Mn 257.610†	-48.4	98.2	0.3522 µg/L	0.3522 ppb	13:52:49
2	Mo 202.031†	17.8	5.7	0.6953 µg/L	0.6953 ppb	13:52:49
2	Ni 231.604†	320.1	-2.9	-0.1749 µg/L	-0.1749 ppb	13:52:49
2	P 214.914†	232.3	18.6	42.761 µg/L	42.761 ppb	13:52:49
2	Pb 220.353†	69.4	10.1	2.8474 µg/L	2.8474 ppb	13:52:49

2	S 181.975 Axial†	23.8	1.3	7.0782 µg/L	7.0782 ppb	13:52:49
2	Sb 206.836†	29.0	5.7	6.0440 µg/L	6.0440 ppb	13:52:49
2	Se 196.026†	12.7	5.1	7.7351 µg/L	7.7351 ppb	13:52:49
2	SiO2†	2334.1	6.2	1.2561 µg/L	1.2561 ppb	13:52:28
2	Si 251.611†	291.3	16.5	1.3401 µg/L	1.3401 ppb	13:52:49
2	Sn 189.927†	24.3	1.4	0.8162 µg/L	0.8162 ppb	13:52:49
2	Ti 334.940†	733.6	49.0	0.1179 µg/L	0.1179 ppb	13:52:28
2	Tl 190.801†	-28.3	-4.5	-7.4858 µg/L	-7.4858 ppb	13:52:49
2	U 409.014†	-271.2	-92.1	-8.5642 µg/L	-8.5642 ppb	13:52:28
2	V 292.402†	-72.5	40.9	0.4929 µg/L	0.4929 ppb	13:52:28
2	Zn 213.857†	709.4	95.8	2.6923 µg/L	2.6923 ppb	13:52:49
3	Sc RADIAL	74951.7	74951.7	95.5 %		13:51:20
3	Al 396.153Radial†	-3.9	25.4	16.473 µg/L	16.473 ppb	13:51:20
3	Ca 317.933Radial†	233.6	-2.6	-1.8642 µg/L	-1.8642 ppb	13:51:40
3	Fe 238.204 Radial†	16.6	1.1	14.059 µg/L	14.059 ppb	13:51:40
3	K 766.490 Radial†	376.8	-4.2	-2.6403 µg/L	-2.6403 ppb	13:51:20
3	Mg 279.077 IEC†	8.5	0.8	8.0061 µg/L	8.0061 ppb	13:51:40
3	Na 589.592 Radial†	322.5	-216.0	-57.503 µg/L	-57.503 ppb	13:51:20
3	Sr 421.552†	649.6	46.2	0.2762 µg/L	0.2762 ppb	13:51:20
3	Sc 361.383	1923619.7	1923619.7	97.327 %		13:52:55
3	Y 371.029	1215048.6	1215048.6	97.273 %		13:52:55
3	Ag 328.068†	-101.4	-11.6	-0.1011 µg/L	-0.1011 ppb	13:53:01
3	As 188.979†	-0.5	2.2	4.8489 µg/L	4.8489 ppb	13:53:21
3	B 249.677†	156.3	-209.4	-9.9230 µg/L	-9.9230 ppb	13:53:21
3	Ba 233.527†	-30.9	-7.7	-0.2156 µg/L	-0.2156 ppb	13:53:21
3	Be 313.107†	3888.5	161.6	0.1086 µg/L	0.1086 ppb	13:53:01
3	Cd 226.502†	-110.8	11.4	0.3215 µg/L	0.3215 ppb	13:53:21
3	Co 228.616†	-42.3	5.9	0.3131 µg/L	0.3131 ppb	13:53:21
3	Cr 267.716†	-71.8	28.4	0.6367 µg/L	0.6367 ppb	13:53:01
3	Cu 324.752†	3784.0	-12.1	-0.0864 µg/L	-0.0864 ppb	13:53:01
3	Mn 257.610†	-52.5	93.9	0.3343 µg/L	0.3343 ppb	13:53:21
3	Mo 202.031†	10.2	-2.1	-0.2569 µg/L	-0.2569 ppb	13:53:21
3	Ni 231.604†	317.3	-5.4	-0.3284 µg/L	-0.3284 ppb	13:53:21
3	P 214.914†	219.3	5.5	12.788 µg/L	12.788 ppb	13:53:21
3	Pb 220.353†	68.8	9.6	2.6928 µg/L	2.6928 ppb	13:53:21
3	S 181.975 Axial†	21.0	-1.5	-8.5540 µg/L	-8.5540 ppb	13:53:21
3	Sb 206.836†	26.4	3.2	3.3371 µg/L	3.3371 ppb	13:53:21
3	Se 196.026†	3.9	-3.9	-5.8679 µg/L	-5.8679 ppb	13:53:21
3	SiO2†	2318.5	-7.2	-1.4650 µg/L	-1.4650 ppb	13:53:01
3	Si 251.611†	297.5	23.3	1.8865 µg/L	1.8865 ppb	13:53:21
3	Sn 189.927†	25.8	3.0	1.7189 µg/L	1.7189 ppb	13:53:21
3	Ti 334.940†	755.3	72.2	0.1739 µg/L	0.1739 ppb	13:53:01
3	Tl 190.801†	-22.2	1.7	2.9011 µg/L	2.9011 ppb	13:53:21
3	U 409.014†	-244.3	-64.7	-6.0192 µg/L	-6.0192 ppb	13:53:01
3	V 292.402†	-77.5	35.7	0.4238 µg/L	0.4238 ppb	13:53:01
3	Zn 213.857†	699.8	86.8	2.4401 µg/L	2.4401 ppb	13:53:21

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1924317.6	97.362 %	0.0625			0.06%
Sc RADIAL	74692.1	95.2 %	0.47			0.50%
Y 371.029	1215561.4	97.314 %	0.0766			0.08%
Ag 328.068†	-61.0	-0.5473 µg/L	0.39183	-0.5473 ppb	0.39183	71.59%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	19.5	12.600 µg/L	3.3597	12.600 ppb	3.3597	26.67%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.2	4.8564 µg/L	2.16058	4.8564 ppb	2.16058	44.49%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-204.0	-9.6781 µg/L	0.21372	-9.6781 ppb	0.21372	2.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-7.7	-0.2153 µg/L	0.10841	-0.2153 ppb	0.10841	50.36%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	121.4	0.0816 µg/L	0.02341	0.0816 ppb	0.02341	28.68%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	5.2	3.7337 µg/L	5.46387	3.7337 ppb	5.46387	146.34%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	2.9	0.0800 µg/L	0.21037	0.0800 ppb	0.21037	262.95%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	6.4	0.3408 µg/L	0.23450	0.3408 ppb	0.23450	68.81%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	36.2 0.8117 µg/L	0.29611 0.8117 ppb	0.29611 36.48%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-0.2 0.0024 µg/L	0.08430 0.0024 ppb	0.08430 >999.9%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	2.1 27.500 µg/L	11.6427 27.500 ppb	11.6427 42.34%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	-2.8 -1.7690 µg/L	8.41568 -1.7690 ppb	8.41568 475.74%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-0.6 -5.8788 µg/L	25.06319 -5.8788 ppb	25.06319 426.33%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	93.1 0.3338 µg/L	0.01866 0.3338 ppb	0.01866 5.59%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	3.1 0.3768 µg/L	0.54880 0.3768 ppb	0.54880 145.65%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-166.7 -44.373 µg/L	13.5176 -44.373 ppb	13.5176 30.46%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	1.5 0.0929 µg/L	0.60167 0.0929 ppb	0.60167 647.75%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	12.7 29.319 µg/L	15.2235 29.319 ppb	15.2235 51.92%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	6.3 1.7806 µg/L	1.71555 1.7806 ppb	1.71555 96.35%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-0.4 -2.3342 µg/L	8.29072 -2.3342 ppb	8.29072 355.19%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	5.1 5.3884 µg/L	1.81457 5.3884 ppb	1.81457 33.68%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.5 0.8485 µg/L	6.80311 0.8485 ppb	6.80311 801.81%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	7.4 1.5044 µg/L	3.10106 1.5044 ppb	3.10106 206.13%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	19.5 1.5835 µg/L	0.27805 1.5835 ppb	0.27805 17.56%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	1.6 0.8840 µg/L	0.80324 0.8840 ppb	0.80324 90.87%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	103.9 0.6218 µg/L	0.44840 0.6218 ppb	0.44840 72.11%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	46.6 0.1131 µg/L	0.06341 0.1131 ppb	0.06341 56.09%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-0.2 -0.3704 µg/L	6.16876 -0.3704 ppb	6.16876 >999.9%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-78.8 -7.3320 µg/L	1.27442 -7.3320 ppb	1.27442 17.38%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	16.4 0.1955 µg/L	0.45656 0.1955 ppb	0.45656 233.52%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	89.5 2.5145 µg/L	0.15468 2.5145 ppb	0.15468 6.15%
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: 1/29/2010 14:29:20

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	76072.7	76072.7	96.9 %		14:29:58
1	Al 396.153Radial†	7515.5	7782.9	5029.8 µg/L	5029.8 ppb	14:29:58
1	Ca 317.933Radial†	6906.3	6877.7	4955.7 µg/L	4955.7 ppb	14:29:58
1	Fe 238.204 Radial†	392.3	388.4	5154.5 µg/L	5154.5 ppb	14:30:18
1	K 766.490 Radial†	8387.9	8254.7	5207.9 µg/L	5207.9 ppb	14:29:58
1	Mg 279.077 IEC†	491.3	498.7	5121.9 µg/L	5121.9 ppb	14:30:18
1	Na 589.592 Radial†	36491.5	37092.8	9875.4 µg/L	9875.4 ppb	14:29:58
1	Sr 421.552†	83371.7	85376.4	510.71 µg/L	510.71 ppb	14:29:58
1	Sc 361.383	1911517.0	1911517.0	96.714 %		14:31:21
1	Y 371.029	1200941.5	1200941.5	96.144 %		14:31:21
1	Ag 328.068†	56532.1	58545.2	532.29 µg/L	532.29 ppb	14:31:26
1	As 188.979†	241.6	252.6	549.53 µg/L	549.53 ppb	14:31:47
1	B 249.677†	10721.5	10715.8	505.74 µg/L	505.74 ppb	14:31:26
1	Ba 233.527†	18280.8	18925.8	529.61 µg/L	529.61 ppb	14:31:26
1	Be 313.107†	751544.6	773242.2	520.06 µg/L	520.06 ppb	14:31:21
1	Cd 226.502†	17847.0	18578.6	526.34 µg/L	526.34 ppb	14:31:26
1	Co 228.616†	9595.8	9971.1	529.82 µg/L	529.82 ppb	14:31:26
1	Cr 267.716†	22950.6	23832.4	534.34 µg/L	534.34 ppb	14:31:26
1	Cu 324.752†	74130.2	72748.6	534.13 µg/L	534.13 ppb	14:31:26
1	Mn 257.610†	142833.8	147834.0	524.48 µg/L	524.48 ppb	14:31:26
1	Mo 202.031†	4257.0	4389.0	531.91 µg/L	531.91 ppb	14:31:47
1	Ni 231.604†	8814.6	8782.6	531.21 µg/L	531.21 ppb	14:31:26
1	P 214.914†	1356.9	1183.1	2675.6 µg/L	2675.6 ppb	14:31:47
1	Pb 220.353†	1935.4	1940.0	544.37 µg/L	544.37 ppb	14:31:47
1	S 181.975 Axial†	210.6	194.6	1082.0 µg/L	1082.0 ppb	14:31:47
1	Sb 206.836†	511.6	505.0	536.32 µg/L	536.32 ppb	14:31:47
1	Se 196.026†	347.9	351.7	548.18 µg/L	548.18 ppb	14:31:47
1	SiO2†	29194.3	27796.6	5675.4 µg/L	5675.4 ppb	14:31:26
1	Si 251.611†	31915.0	32716.8	2650.2 µg/L	2650.2 ppb	14:31:26
1	Sn 189.927†	956.3	965.3	546.66 µg/L	546.66 ppb	14:31:47
1	Ti 334.940†	210901.7	217362.5	525.11 µg/L	525.11 ppb	14:31:21
1	Tl 190.801†	286.5	320.8	538.84 µg/L	538.84 ppb	14:31:47
1	U 409.014†	5483.8	5856.3	543.30 µg/L	543.30 ppb	14:31:26
1	V 292.402†	42800.6	44370.0	540.05 µg/L	540.05 ppb	14:31:26
1	Zn 213.857†	18878.6	18887.7	527.19 µg/L	527.19 ppb	14:31:26
2	Sc RADIAL	77156.0	77156.0	98.3 %		14:30:24
2	Al 396.153Radial†	7537.5	7696.4	4973.9 µg/L	4973.9 ppb	14:30:24
2	Ca 317.933Radial†	6919.3	6790.9	4893.2 µg/L	4893.2 ppb	14:30:24
2	Fe 238.204 Radial†	391.3	381.7	5065.3 µg/L	5065.3 ppb	14:30:44
2	K 766.490 Radial†	8349.8	8094.4	5106.8 µg/L	5106.8 ppb	14:30:24
2	Mg 279.077 IEC†	496.0	496.3	5096.9 µg/L	5096.9 ppb	14:30:44
2	Na 589.592 Radial†	36459.5	36531.7	9726.0 µg/L	9726.0 ppb	14:30:24
2	Sr 421.552†	83289.5	84085.2	502.99 µg/L	502.99 ppb	14:30:24
2	Sc 361.383	1906780.2	1906780.2	96.475 %		14:31:53
2	Y 371.029	1198613.9	1198613.9	95.957 %		14:31:53
2	Ag 328.068†	56237.1	58384.6	530.83 µg/L	530.83 ppb	14:31:59
2	As 188.979†	235.2	246.6	536.43 µg/L	536.43 ppb	14:32:19
2	B 249.677†	10633.6	10652.2	502.77 µg/L	502.77 ppb	14:31:59
2	Ba 233.527†	18176.4	18864.5	527.90 µg/L	527.90 ppb	14:31:59
2	Be 313.107†	753962.4	777678.8	523.05 µg/L	523.05 ppb	14:31:53
2	Cd 226.502†	17722.2	18495.1	523.98 µg/L	523.98 ppb	14:31:59
2	Co 228.616†	9540.2	9938.1	528.05 µg/L	528.05 ppb	14:31:59
2	Cr 267.716†	22821.0	23757.1	532.65 µg/L	532.65 ppb	14:31:59
2	Cu 324.752†	73924.9	72726.2	533.96 µg/L	533.96 ppb	14:31:59
2	Mn 257.610†	142050.3	147388.7	522.89 µg/L	522.89 ppb	14:31:59
2	Mo 202.031†	4210.2	4351.5	527.36 µg/L	527.36 ppb	14:32:19
2	Ni 231.604†	8774.3	8763.5	530.05 µg/L	530.05 ppb	14:31:59
2	P 214.914†	1345.3	1174.7	2656.0 µg/L	2656.0 ppb	14:32:19
2	Pb 220.353†	1911.9	1920.6	538.93 µg/L	538.93 ppb	14:32:19

2	S 181.975 Axial†	203.1	187.4	1041.9 µg/L	1041.9 ppb	14:32:19
2	Sb 206.836†	503.1	497.5	528.34 µg/L	528.34 ppb	14:32:19
2	Se 196.026†	342.8	347.4	541.29 µg/L	541.29 ppb	14:32:19
2	SiO2†	29101.6	27775.6	5671.1 µg/L	5671.1 ppb	14:31:59
2	Si 251.611†	31735.5	32612.7	2641.8 µg/L	2641.8 ppb	14:31:59
2	Sn 189.927†	946.7	957.8	542.43 µg/L	542.43 ppb	14:32:19
2	Ti 334.940†	211522.5	218547.8	527.98 µg/L	527.98 ppb	14:31:53
2	Tl 190.801†	277.6	312.2	524.56 µg/L	524.56 ppb	14:32:19
2	U 409.014†	5336.1	5717.3	530.40 µg/L	530.40 ppb	14:31:59
2	V 292.402†	42626.9	44299.8	539.15 µg/L	539.15 ppb	14:31:59
2	Zn 213.857†	18839.8	18895.9	527.44 µg/L	527.44 ppb	14:31:59
3	Sc RADIAL	76579.5	76579.5	97.6 %		14:30:50
3	Al 396.153Radial†	7547.1	7763.9	5019.1 µg/L	5019.1 ppb	14:30:50
3	Ca 317.933Radial†	6941.0	6866.1	4947.4 µg/L	4947.4 ppb	14:30:50
3	Fe 238.204 Radial†	393.2	386.6	5129.7 µg/L	5129.7 ppb	14:31:10
3	K 766.490 Radial†	8366.0	8174.9	5157.6 µg/L	5157.6 ppb	14:30:50
3	Mg 279.077 IEC†	498.7	503.0	5164.0 µg/L	5164.0 ppb	14:31:10
3	Na 589.592 Radial†	36735.6	37093.8	9875.6 µg/L	9875.6 ppb	14:30:50
3	Sr 421.552†	83881.6	85329.8	510.44 µg/L	510.44 ppb	14:30:50
3	Sc 361.383	1908851.4	1908851.4	96.580 %		14:32:25
3	Y 371.029	1200049.1	1200049.1	96.072 %		14:32:25
3	Ag 328.068†	54655.0	56683.2	515.25 µg/L	515.25 ppb	14:32:31
3	As 188.979†	206.3	216.3	470.57 µg/L	470.57 ppb	14:32:51
3	B 249.677†	10303.6	10298.6	485.92 µg/L	485.92 ppb	14:32:31
3	Ba 233.527†	17188.5	17821.2	498.69 µg/L	498.69 ppb	14:32:31
3	Be 313.107†	723254.3	745035.1	501.09 µg/L	501.09 ppb	14:32:25
3	Cd 226.502†	16729.7	17447.5	494.26 µg/L	494.26 ppb	14:32:31
3	Co 228.616†	8937.1	9303.0	494.25 µg/L	494.25 ppb	14:32:31
3	Cr 267.716†	20923.8	21767.0	488.04 µg/L	488.04 ppb	14:32:31
3	Cu 324.752†	69832.2	68405.4	502.28 µg/L	502.28 ppb	14:32:31
3	Mn 257.610†	133265.8	138133.3	490.09 µg/L	490.09 ppb	14:32:31
3	Mo 202.031†	3649.4	3766.1	456.44 µg/L	456.44 ppb	14:32:51
3	Ni 231.604†	8240.1	8200.6	496.01 µg/L	496.01 ppb	14:32:31
3	P 214.914†	1225.3	1048.8	2368.1 µg/L	2368.1 ppb	14:32:51
3	Pb 220.353†	1711.3	1710.8	479.95 µg/L	479.95 ppb	14:32:51
3	S 181.975 Axial†	192.9	176.6	981.70 µg/L	981.70 ppb	14:32:51
3	Sb 206.836†	456.0	448.2	475.53 µg/L	475.53 ppb	14:32:51
3	Se 196.026†	307.9	310.8	486.56 µg/L	486.56 ppb	14:32:51
3	SiO2†	27904.1	26502.9	5411.3 µg/L	5411.3 ppb	14:32:31
3	Si 251.611†	30404.7	31199.1	2527.3 µg/L	2527.3 ppb	14:32:31
3	Sn 189.927†	808.5	813.7	461.21 µg/L	461.21 ppb	14:32:51
3	Ti 334.940†	202326.9	208788.6	504.38 µg/L	504.38 ppb	14:32:25
3	Tl 190.801†	260.8	294.6	494.93 µg/L	494.93 ppb	14:32:51
3	U 409.014†	5019.3	5383.3	499.34 µg/L	499.34 ppb	14:32:31
3	V 292.402†	39875.4	41403.0	503.61 µg/L	503.61 ppb	14:32:31
3	Zn 213.857†	17764.1	17761.0	495.73 µg/L	495.73 ppb	14:32:31

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1909049.5	96.590 %	0.1201			0.12%
Sc RADIAL	76602.7	97.6 %	0.69			0.71%
Y 371.029	1199868.2	96.058 %	0.0940			0.10%
Ag 328.068†	57871.0	526.12 µg/L	9.447	526.12 ppb	9.447	1.80%
QC value within limits for Ag 328.068 Recovery = 105.22%						
Al 396.153Radial†	7747.7	5007.6 µg/L	29.69	5007.6 ppb	29.69	0.59%
QC value within limits for Al 396.153Radial Recovery = 100.15%						
As 188.979†	238.5	518.84 µg/L	42.314	518.84 ppb	42.314	8.16%
QC value within limits for As 188.979 Recovery = 103.77%						
B 249.677†	10555.5	498.14 µg/L	10.691	498.14 ppb	10.691	2.15%
QC value within limits for B 249.677 Recovery = 99.63%						
Ba 233.527†	18537.2	518.74 µg/L	17.378	518.74 ppb	17.378	3.35%
QC value within limits for Ba 233.527 Recovery = 103.75%						
Be 313.107†	765318.7	514.73 µg/L	11.908	514.73 ppb	11.908	2.31%
QC value within limits for Be 313.107 Recovery = 102.95%						
Ca 317.933Radial†	6844.9	4932.1 µg/L	33.93	4932.1 ppb	33.93	0.69%
QC value within limits for Ca 317.933Radial Recovery = 98.64%						
Cd 226.502†	18173.7	514.86 µg/L	17.879	514.86 ppb	17.879	3.47%
QC value within limits for Cd 226.502 Recovery = 102.97%						
Co 228.616†	9737.4	517.37 µg/L	20.046	517.37 ppb	20.046	3.87%

QC value within limits for Co 228.616 Recovery = 103.47%							
Cr 267.716†	23118.8	518.34 µg/L	26.258	518.34 ppb	26.258	5.07%	
QC value within limits for Cr 267.716 Recovery = 103.67%							
Cu 324.752†	71293.4	523.46 µg/L	18.337	523.46 ppb	18.337	3.50%	
QC value within limits for Cu 324.752 Recovery = 104.69%							
Fe 238.204 Radial†	385.6	5116.5 µg/L	46.03	5116.5 ppb	46.03	0.90%	
QC value within limits for Fe 238.204 Radial Recovery = 102.33%							
K 766.490 Radial†	8174.7	5157.5 µg/L	50.56	5157.5 ppb	50.56	0.98%	
QC value within limits for K 766.490 Radial Recovery = 103.15%							
Mg 279.077 IEC†	499.3	5127.6 µg/L	33.92	5127.6 ppb	33.92	0.66%	
QC value within limits for Mg 279.077 IEC Recovery = 102.55%							
Mn 257.610†	144452.0	512.49 µg/L	19.412	512.49 ppb	19.412	3.79%	
QC value within limits for Mn 257.610 Recovery = 102.50%							
Mo 202.031†	4168.9	505.23 µg/L	42.318	505.23 ppb	42.318	8.38%	
QC value within limits for Mo 202.031 Recovery = 101.05%							
Na 589.592 Radial†	36906.1	9825.7 µg/L	86.32	9825.7 ppb	86.32	0.88%	
QC value within limits for Na 589.592 Radial Recovery = 98.26%							
Ni 231.604†	8582.2	519.09 µg/L	19.998	519.09 ppb	19.998	3.85%	
QC value within limits for Ni 231.604 Recovery = 103.82%							
P 214.914†	1135.5	2566.6 µg/L	172.14	2566.6 ppb	172.14	6.71%	
QC value within limits for P 214.914 Recovery = 102.66%							
Pb 220.353†	1857.1	521.08 µg/L	35.730	521.08 ppb	35.730	6.86%	
QC value within limits for Pb 220.353 Recovery = 104.22%							
S 181.975 Axial†	186.2	1035.2 µg/L	50.47	1035.2 ppb	50.47	4.88%	
QC value within limits for S 181.975 Axial Recovery = 103.52%							
Sb 206.836†	483.6	513.40 µg/L	33.035	513.40 ppb	33.035	6.43%	
QC value within limits for Sb 206.836 Recovery = 102.68%							
Se 196.026†	336.7	525.34 µg/L	33.762	525.34 ppb	33.762	6.43%	
QC value within limits for Se 196.026 Recovery = 105.07%							
SiO2†	27358.4	5585.9 µg/L	151.28	5585.9 ppb	151.28	2.71%	
QC value within limits for SiO2 Recovery = 104.46%							
Si 251.611†	32176.2	2606.4 µg/L	68.68	2606.4 ppb	68.68	2.63%	
QC value within limits for Si 251.611 Recovery = 104.26%							
Sn 189.927†	912.3	516.76 µg/L	48.159	516.76 ppb	48.159	9.32%	
QC value within limits for Sn 189.927 Recovery = 103.35%							
Sr 421.552†	84930.5	508.05 µg/L	4.381	508.05 ppb	4.381	0.86%	
QC value within limits for Sr 421.552 Recovery = 101.61%							
Ti 334.940†	214899.6	519.16 µg/L	12.876	519.16 ppb	12.876	2.48%	
QC value within limits for Ti 334.940 Recovery = 103.83%							
Tl 190.801†	309.2	519.45 µg/L	22.395	519.45 ppb	22.395	4.31%	
QC value within limits for Tl 190.801 Recovery = 103.89%							
U 409.014†	5652.3	524.35 µg/L	22.596	524.35 ppb	22.596	4.31%	
QC value within limits for U 409.014 Recovery = 104.87%							
V 292.402†	43357.6	527.60 µg/L	20.781	527.60 ppb	20.781	3.94%	
QC value within limits for V 292.402 Recovery = 105.52%							
Zn 213.857†	18514.9	516.79 µg/L	18.238	516.79 ppb	18.238	3.53%	
QC value within limits for Zn 213.857 Recovery = 103.36%							

All analyte(s) passed QC.

Sequence No.: 9
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 1/29/2010 14:33:00
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Conc. Units	Sample Units	Analysis Time
1	Sc RADIAL	73824.9	73824.9	94.1 %				14:33:33
1	Al 396.153Radial†	-22.9	5.2	3.3307 µg/L		3.3307 ppb		14:33:33
1	Ca 317.933Radial†	249.8	18.4	13.248 µg/L		13.248 ppb		14:33:53
1	Fe 238.204 Radial†	16.6	1.3	16.636 µg/L		16.636 ppb		14:33:53
1	K 766.490 Radial†	365.8	-9.9	-6.2261 µg/L		-6.2261 ppb		14:33:33
1	Mg 279.077 IEC†	11.2	3.8	38.784 µg/L		38.784 ppb		14:33:53
1	Na 589.592 Radial†	376.9	-153.0	-40.729 µg/L		-40.729 ppb		14:33:33
1	Sr 421.552†	667.4	75.4	0.4513 µg/L		0.4513 ppb		14:33:33
1	Sc 361.383	1909432.3	1909432.3	96.609 %				14:34:55
1	Y 371.029	1205863.3	1205863.3	96.538 %				14:34:55
1	Ag 328.068†	-143.2	-55.6	-0.4997 µg/L		-0.4997 ppb		14:35:00
1	As 188.979†	-4.8	-2.2	-4.7849 µg/L		-4.7849 ppb		14:35:21
1	B 249.677†	152.2	-212.4	-10.070 µg/L		-10.070 ppb		14:35:21
1	Ba 233.527†	-24.1	-1.0	-0.0271 µg/L		-0.0271 ppb		14:35:21
1	Be 313.107†	3857.0	158.6	0.1066 µg/L		0.1066 ppb		14:35:00
1	Cd 226.502†	-116.6	4.6	0.1281 µg/L		0.1281 ppb		14:35:21
1	Co 228.616†	-46.4	1.3	0.0678 µg/L		0.0678 ppb		14:35:21
1	Cr 267.716†	-66.2	33.6	0.7524 µg/L		0.7524 ppb		14:35:21
1	Cu 324.752†	3822.5	56.7	0.4180 µg/L		0.4180 ppb		14:35:00
1	Mn 257.610†	-80.7	64.3	0.2287 µg/L		0.2287 ppb		14:35:21
1	Mo 202.031†	21.3	9.5	1.1470 µg/L		1.1470 ppb		14:35:21
1	Ni 231.604†	319.2	-1.0	-0.0602 µg/L		-0.0602 ppb		14:35:21
1	P 214.914†	227.1	15.2	35.070 µg/L		35.070 ppb		14:35:21
1	Pb 220.353†	63.2	4.3	1.2002 µg/L		1.2002 ppb		14:35:21
1	S 181.975 Axial†	20.7	-1.7	-9.3087 µg/L		-9.3087 ppb		14:35:21
1	Sb 206.836†	29.6	6.6	7.0145 µg/L		7.0145 ppb		14:35:21
1	Se 196.026†	11.1	3.5	5.3291 µg/L		5.3291 ppb		14:35:21
1	SiO2†	2283.8	-25.4	-5.1842 µg/L		-5.1842 ppb		14:35:00
1	Si 251.611†	291.5	19.3	1.5616 µg/L		1.5616 ppb		14:35:21
1	Sn 189.927†	27.5	5.0	2.8099 µg/L		2.8099 ppb		14:35:21
1	Ti 334.940†	749.8	72.3	0.1718 µg/L		0.1718 ppb		14:35:00
1	Tl 190.801†	-20.7	3.1	5.1498 µg/L		5.1498 ppb		14:35:21
1	U 409.014†	-220.0	-41.5	-3.8619 µg/L		-3.8619 ppb		14:35:00
1	V 292.402†	-99.5	12.3	0.1554 µg/L		0.1554 ppb		14:35:00
1	Zn 213.857†	692.6	84.7	2.3769 µg/L		2.3769 ppb		14:35:21
2	Sc RADIAL	74084.6	74084.6	94.4 %				14:33:59
2	Al 396.153Radial†	-5.0	24.2	15.651 µg/L		15.651 ppb		14:33:59
2	Ca 317.933Radial†	235.7	2.5	1.8309 µg/L		1.8309 ppb		14:34:19
2	Fe 238.204 Radial†	16.8	1.5	19.215 µg/L		19.215 ppb		14:34:19
2	K 766.490 Radial†	412.6	38.3	24.189 µg/L		24.189 ppb		14:33:59
2	Mg 279.077 IEC†	9.2	1.5	15.896 µg/L		15.896 ppb		14:34:19
2	Na 589.592 Radial†	369.9	-161.8	-43.079 µg/L		-43.079 ppb		14:33:59
2	Sr 421.552†	695.3	102.5	0.6131 µg/L		0.6131 ppb		14:33:59
2	Sc 361.383	1920792.4	1920792.4	97.184 %				14:35:27
2	Y 371.029	1212904.8	1212904.8	97.102 %				14:35:27
2	Ag 328.068†	-146.0	-57.6	-0.5176 µg/L		-0.5176 ppb		14:35:33
2	As 188.979†	-2.8	-0.2	-0.4297 µg/L		-0.4297 ppb		14:35:53
2	B 249.677†	138.2	-227.7	-10.795 µg/L		-10.795 ppb		14:35:53
2	Ba 233.527†	-25.1	-1.9	-0.0524 µg/L		-0.0524 ppb		14:35:53
2	Be 313.107†	3847.4	125.1	0.0841 µg/L		0.0841 ppb		14:35:33
2	Cd 226.502†	-109.1	13.0	0.3675 µg/L		0.3675 ppb		14:35:53
2	Co 228.616†	-53.4	-5.7	-0.3007 µg/L		-0.3007 ppb		14:35:53
2	Cr 267.716†	-66.7	33.5	0.7510 µg/L		0.7510 ppb		14:35:53
2	Cu 324.752†	3778.5	-11.9	-0.0848 µg/L		-0.0848 ppb		14:35:33
2	Mn 257.610†	-57.8	88.3	0.3151 µg/L		0.3151 ppb		14:35:53
2	Mo 202.031†	22.9	10.9	1.3253 µg/L		1.3253 ppb		14:35:53
2	Ni 231.604†	322.9	0.9	0.0549 µg/L		0.0549 ppb		14:35:53
2	P 214.914†	221.7	8.3	19.175 µg/L		19.175 ppb		14:35:53
2	Pb 220.353†	74.1	15.1	4.2316 µg/L		4.2316 ppb		14:35:53

2	S 181.975 Axial†	25.0	2.5	14.169 µg/L	14.169 ppb	14:35:53
2	Sb 206.836†	28.1	4.9	5.2353 µg/L	5.2353 ppb	14:35:53
2	Se 196.026†	8.8	1.2	1.8083 µg/L	1.8083 ppb	14:35:53
2	SiO2†	2278.2	-45.2	-9.2199 µg/L	-9.2199 ppb	14:35:33
2	Si 251.611†	278.3	3.9	0.3173 µg/L	0.3173 ppb	14:35:53
2	Sn 189.927†	20.0	-2.9	-1.6265 µg/L	-1.6265 ppb	14:35:53
2	Ti 334.940†	725.2	42.3	0.1011 µg/L	0.1011 ppb	14:35:33
2	Tl 190.801†	-27.7	-4.0	-6.6480 µg/L	-6.6480 ppb	14:35:53
2	U 409.014†	-120.0	62.7	5.8262 µg/L	5.8262 ppb	14:35:33
2	V 292.402†	-95.0	17.5	0.2299 µg/L	0.2299 ppb	14:35:33
2	Zn 213.857†	687.5	75.1	2.1103 µg/L	2.1103 ppb	14:35:53
3	Sc RADIAL	74228.0	74228.0	94.6 %		14:34:24
3	Al 396.153Radial†	-34.9	-7.4	-4.8508 µg/L	-4.8508 ppb	14:34:24
3	Ca 317.933Radial†	236.0	2.4	1.6943 µg/L	1.6943 ppb	14:34:45
3	Fe 238.204 Radial†	18.4	3.2	41.892 µg/L	41.892 ppb	14:34:45
3	K 766.490 Radial†	424.8	50.5	31.840 µg/L	31.840 ppb	14:34:24
3	Mg 279.077 IEC†	8.3	0.7	6.7284 µg/L	6.7284 ppb	14:34:45
3	Na 589.592 Radial†	372.5	-159.9	-42.565 µg/L	-42.565 ppb	14:34:24
3	Sr 421.552†	645.0	48.0	0.2868 µg/L	0.2868 ppb	14:34:24
3	Sc 361.383	1917389.6	1917389.6	97.012 %		14:35:59
3	Y 371.029	1211392.4	1211392.4	96.980 %		14:35:59
3	Ag 328.068†	-119.6	-30.7	-0.2740 µg/L	-0.2740 ppb	14:36:05
3	As 188.979†	-4.3	-1.7	-3.7762 µg/L	-3.7762 ppb	14:36:25
3	B 249.677†	157.5	-207.6	-9.8516 µg/L	-9.8516 ppb	14:36:25
3	Ba 233.527†	-20.3	3.0	0.0852 µg/L	0.0852 ppb	14:36:25
3	Be 313.107†	3919.0	205.9	0.1385 µg/L	0.1385 ppb	14:36:05
3	Cd 226.502†	-117.1	4.6	0.1247 µg/L	0.1247 ppb	14:36:25
3	Co 228.616†	-45.3	2.6	0.1396 µg/L	0.1396 ppb	14:36:25
3	Cr 267.716†	-22.4	79.0	1.7710 µg/L	1.7710 ppb	14:36:25
3	Cu 324.752†	3788.3	5.0	0.0425 µg/L	0.0425 ppb	14:36:05
3	Mn 257.610†	29.0	177.7	0.6352 µg/L	0.6352 ppb	14:36:25
3	Mo 202.031†	25.3	13.5	1.6378 µg/L	1.6378 ppb	14:36:25
3	Ni 231.604†	324.8	3.4	0.2072 µg/L	0.2072 ppb	14:36:25
3	P 214.914†	226.0	13.1	30.228 µg/L	30.228 ppb	14:36:25
3	Pb 220.353†	59.6	0.3	0.0947 µg/L	0.0947 ppb	14:36:25
3	S 181.975 Axial†	21.1	-1.4	-7.6184 µg/L	-7.6184 ppb	14:36:25
3	Sb 206.836†	25.7	2.5	2.6562 µg/L	2.6562 ppb	14:36:25
3	Se 196.026†	10.9	3.3	5.1129 µg/L	5.1129 ppb	14:36:25
3	SiO2†	2316.0	-2.1	-0.4191 µg/L	-0.4191 ppb	14:36:05
3	Si 251.611†	309.8	36.9	2.9898 µg/L	2.9898 ppb	14:36:25
3	Sn 189.927†	24.2	1.4	0.8180 µg/L	0.8180 ppb	14:36:25
3	Ti 334.940†	749.4	68.6	0.1653 µg/L	0.1653 ppb	14:36:05
3	Tl 190.801†	-25.0	-1.3	-2.1424 µg/L	-2.1424 ppb	14:36:25
3	U 409.014†	-327.1	-151.0	-14.039 µg/L	-14.039 ppb	14:36:05
3	V 292.402†	-105.5	6.6	0.0834 µg/L	0.0834 ppb	14:36:05
3	Zn 213.857†	695.8	84.9	2.3840 µg/L	2.3840 ppb	14:36:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1915871.4	96.935 %	0.2950			0.30%
Sc RADIAL	74045.8	94.3 %	0.26			0.28%
Y 371.029	1210053.5	96.873 %	0.2968			0.31%
Ag 328.068†	-48.0	-0.4305 µg/L	0.13577	-0.4305 ppb	0.13577	31.54%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	7.3	4.7105 µg/L	10.32050	4.7105 ppb	10.32050	219.10%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.4	-2.9970 µg/L	2.27978	-2.9970 ppb	2.27978	76.07%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-215.9	-10.239 µg/L	0.4937	-10.239 ppb	0.4937	4.82%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.1	0.0019 µg/L	0.07323	0.0019 ppb	0.07323	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	163.2	0.1097 µg/L	0.02732	0.1097 ppb	0.02732	24.90%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.8	5.5910 µg/L	6.63129	5.5910 ppb	6.63129	118.61%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	7.4	0.2068 µg/L	0.13923	0.2068 ppb	0.13923	67.33%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.6	-0.0311 µg/L	0.23624	-0.0311 ppb	0.23624	759.22%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	48.7 1.0915 µg/L	0.58847 1.0915 ppb	0.58847 53.92%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	16.6 0.1252 µg/L	0.26141 0.1252 ppb	0.26141 208.73%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	2.0 25.914 µg/L	13.8967 25.914 ppb	13.8967 53.63%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	26.3 16.601 µg/L	20.1354 16.601 ppb	20.1354 121.29%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	2.0 20.470 µg/L	16.5099 20.470 ppb	16.5099 80.66%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	110.1 0.3930 µg/L	0.21416 0.3930 ppb	0.21416 54.50%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	11.3 1.3700 µg/L	0.24844 1.3700 ppb	0.24844 18.13%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-158.2 -42.124 µg/L	1.2358 -42.124 ppb	1.2358 2.93%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	1.1 0.0673 µg/L	0.13413 0.0673 ppb	0.13413 199.34%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	12.2 28.157 µg/L	8.1472 28.157 ppb	8.1472 28.93%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	6.5 1.8422 µg/L	2.14190 1.8422 ppb	2.14190 116.27%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-0.2 -0.9194 µg/L	13.09420 -0.9194 ppb	13.09420 >999.9%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	4.7 4.9687 µg/L	2.19132 4.9687 ppb	2.19132 44.10%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	2.7 4.0834 µg/L	1.97330 4.0834 ppb	1.97330 48.32%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-24.2 -4.9411 µg/L	4.40543 -4.9411 ppb	4.40543 89.16%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	20.0 1.6229 µg/L	1.33732 1.6229 ppb	1.33732 82.40%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	1.2 0.6671 µg/L	2.22206 0.6671 ppb	2.22206 333.08%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	75.3 0.4504 µg/L	0.16313 0.4504 ppb	0.16313 36.22%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	61.1 0.1461 µg/L	0.03909 0.1461 ppb	0.03909 26.76%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-0.7 -1.2135 µg/L	5.95349 -1.2135 ppb	5.95349 490.59%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-43.3 -4.0248 µg/L	9.93341 -4.0248 ppb	9.93341 246.81%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	12.1 0.1562 µg/L	0.07328 0.1562 ppb	0.07328 46.90%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	81.6 2.2904 µg/L	0.15602 2.2904 ppb	0.15602 6.81%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 19
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/29/2010 15:08:54
 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	76439.3	76439.3	97.4 %		15:09:33
1	Al 396.153Radial†	7662.4	7896.5	5103.2 µg/L	5103.2 ppb	15:09:33
1	Ca 317.933Radial†	6845.9	6781.6	4886.4 µg/L	4886.4 ppb	15:09:53
1	Fe 238.204 Radial†	393.7	387.8	5147.0 µg/L	5147.0 ppb	15:09:53
1	K 766.490 Radial†	8485.1	8312.9	5244.7 µg/L	5244.7 ppb	15:09:33
1	Mg 279.077 IEC†	499.4	504.6	5182.0 µg/L	5182.0 ppb	15:09:53
1	Na 589.592 Radial†	37220.5	37660.7	10027 µg/L	10027 ppb	15:09:33
1	Sr 421.552†	84915.0	86548.4	517.73 µg/L	517.73 ppb	15:09:33
1	Sc 361.383	1901087.3	1901087.3	96.187 %		15:10:57
1	Y 371.029	1196939.0	1196939.0	95.823 %		15:10:57
1	Ag 328.068†	57560.2	59934.7	544.91 µg/L	544.91 ppb	15:11:02
1	As 188.979†	242.0	254.3	553.38 µg/L	553.38 ppb	15:11:23
1	B 249.677†	10887.9	10949.6	516.84 µg/L	516.84 ppb	15:11:02
1	Ba 233.527†	18567.0	19327.1	540.84 µg/L	540.84 ppb	15:11:02
1	Be 313.107†	762265.3	788651.0	530.43 µg/L	530.43 ppb	15:10:57
1	Cd 226.502†	18103.4	18946.4	536.77 µg/L	536.77 ppb	15:11:02
1	Co 228.616†	9748.4	10184.2	541.14 µg/L	541.14 ppb	15:11:02
1	Cr 267.716†	23354.5	24382.5	546.67 µg/L	546.67 ppb	15:11:02
1	Cu 324.752†	75563.9	74659.6	548.15 µg/L	548.15 ppb	15:11:02
1	Mn 257.610†	145113.4	151014.2	535.75 µg/L	535.75 ppb	15:10:57
1	Mo 202.031†	4313.5	4471.9	541.95 µg/L	541.95 ppb	15:11:23
1	Ni 231.604†	8941.1	8964.2	542.19 µg/L	542.19 ppb	15:11:02
1	P 214.914†	1379.7	1214.6	2746.8 µg/L	2746.8 ppb	15:11:23
1	Pb 220.353†	1961.9	1978.5	555.18 µg/L	555.18 ppb	15:11:23
1	S 181.975 Axial†	212.3	197.6	1098.4 µg/L	1098.4 ppb	15:11:23
1	Sb 206.836†	519.3	515.8	547.84 µg/L	547.84 ppb	15:11:23
1	Se 196.026†	350.9	356.9	555.85 µg/L	555.85 ppb	15:11:23
1	SiO2†	29654.1	28440.3	5806.8 µg/L	5806.8 ppb	15:11:02
1	Si 251.611†	32438.4	33442.0	2709.0 µg/L	2709.0 ppb	15:11:02
1	Sn 189.927†	974.6	989.8	560.47 µg/L	560.47 ppb	15:11:23
1	Ti 334.940†	213567.4	221330.3	534.70 µg/L	534.70 ppb	15:10:57
1	Tl 190.801†	293.8	330.0	554.24 µg/L	554.24 ppb	15:11:23
1	U 409.014†	5483.2	5886.7	546.14 µg/L	546.14 ppb	15:11:02
1	V 292.402†	43537.7	45379.0	552.30 µg/L	552.30 ppb	15:11:02
1	Zn 213.857†	19253.4	19384.4	541.08 µg/L	541.08 ppb	15:11:02
2	Sc RADIAL	76464.6	76464.6	97.4 %		15:09:59
2	Al 396.153Radial†	7657.9	7889.3	5098.6 µg/L	5098.6 ppb	15:09:59
2	Ca 317.933Radial†	6862.6	6796.4	4897.1 µg/L	4897.1 ppb	15:10:19
2	Fe 238.204 Radial†	396.8	391.0	5188.3 µg/L	5188.3 ppb	15:10:19
2	K 766.490 Radial†	8482.8	8307.7	5241.4 µg/L	5241.4 ppb	15:09:59
2	Mg 279.077 IEC†	499.3	504.3	5179.4 µg/L	5179.4 ppb	15:10:19
2	Na 589.592 Radial†	37109.8	37534.4	9992.9 µg/L	9992.9 ppb	15:09:59
2	Sr 421.552†	84508.7	86102.6	515.06 µg/L	515.06 ppb	15:09:59
2	Sc 361.383	1910266.0	1910266.0	96.651 %		15:11:30
2	Y 371.029	1201889.2	1201889.2	96.220 %		15:11:30
2	Ag 328.068†	57119.3	59191.0	538.16 µg/L	538.16 ppb	15:11:36
2	As 188.979†	238.0	249.0	541.63 µg/L	541.63 ppb	15:11:56
2	B 249.677†	10827.4	10832.6	511.27 µg/L	511.27 ppb	15:11:36
2	Ba 233.527†	18465.5	19129.2	535.31 µg/L	535.31 ppb	15:11:36
2	Be 313.107†	768670.5	791470.4	532.32 µg/L	532.32 ppb	15:11:30
2	Cd 226.502†	18009.4	18758.7	531.45 µg/L	531.45 ppb	15:11:36
2	Co 228.616†	9724.0	10110.3	537.20 µg/L	537.20 ppb	15:11:36
2	Cr 267.716†	23162.0	24066.7	539.59 µg/L	539.59 ppb	15:11:36
2	Cu 324.752†	75139.2	73842.7	542.16 µg/L	542.16 ppb	15:11:36
2	Mn 257.610†	146444.1	151666.0	538.07 µg/L	538.07 ppb	15:11:30
2	Mo 202.031†	4285.4	4421.3	535.82 µg/L	535.82 ppb	15:11:56
2	Ni 231.604†	8906.3	8883.4	537.31 µg/L	537.31 ppb	15:11:36
2	P 214.914†	1375.1	1202.9	2720.2 µg/L	2720.2 ppb	15:11:56
2	Pb 220.353†	1943.6	1949.8	547.10 µg/L	547.10 ppb	15:11:56

2	S 181.975 Axial†	210.3	194.4	1080.9 µg/L	1080.9 ppb	15:11:56
2	Sb 206.836†	510.7	504.4	535.70 µg/L	535.70 ppb	15:11:56
2	Se 196.026†	357.6	362.1	563.79 µg/L	563.79 ppb	15:11:56
2	SiO2†	29454.7	28085.9	5734.5 µg/L	5734.5 ppb	15:11:36
2	Si 251.611†	32237.8	33072.4	2679.0 µg/L	2679.0 ppb	15:11:36
2	Sn 189.927†	966.4	976.5	552.96 µg/L	552.96 ppb	15:11:56
2	Ti 334.940†	215174.1	221925.8	536.14 µg/L	536.14 ppb	15:11:30
2	Tl 190.801†	289.4	324.0	544.22 µg/L	544.22 ppb	15:11:56
2	U 409.014†	5488.0	5864.4	544.05 µg/L	544.05 ppb	15:11:36
2	V 292.402†	43264.2	44878.6	546.21 µg/L	546.21 ppb	15:11:36
2	Zn 213.857†	19126.3	19156.7	534.71 µg/L	534.71 ppb	15:11:36
3	Sc RADIAL	76205.7	76205.7	97.1 %		15:10:25
3	Al 396.153Radial†	7716.5	7976.4	5156.8 µg/L	5156.8 ppb	15:10:25
3	Ca 317.933Radial†	6879.0	6837.2	4926.5 µg/L	4926.5 ppb	15:10:45
3	Fe 238.204 Radial†	399.2	394.8	5238.3 µg/L	5238.3 ppb	15:10:45
3	K 766.490 Radial†	8560.6	8417.4	5310.6 µg/L	5310.6 ppb	15:10:25
3	Mg 279.077 IEC†	505.0	511.9	5255.4 µg/L	5255.4 ppb	15:10:45
3	Na 589.592 Radial†	37362.0	37923.6	10097 µg/L	10097 ppb	15:10:25
3	Sr 421.552†	85278.6	87190.2	521.56 µg/L	521.56 ppb	15:10:25
3	Sc 361.383	1915638.0	1915638.0	96.923 %		15:12:03
3	Y 371.029	1205950.7	1205950.7	96.545 %		15:12:03
3	Ag 328.068†	54875.7	56710.4	515.47 µg/L	515.47 ppb	15:12:09
3	As 188.979†	206.0	215.3	468.43 µg/L	468.43 ppb	15:12:29
3	B 249.677†	10330.2	10288.2	485.36 µg/L	485.36 ppb	15:12:09
3	Ba 233.527†	17159.2	17727.9	496.08 µg/L	496.08 ppb	15:12:09
3	Be 313.107†	726048.5	745265.0	501.25 µg/L	501.25 ppb	15:12:03
3	Cd 226.502†	16740.2	17396.9	492.81 µg/L	492.81 ppb	15:12:09
3	Co 228.616†	8966.6	9300.5	494.12 µg/L	494.12 ppb	15:12:09
3	Cr 267.716†	20847.0	21611.0	484.54 µg/L	484.54 ppb	15:12:09
3	Cu 324.752†	69698.2	68010.9	499.41 µg/L	499.41 ppb	15:12:09
3	Mn 257.610†	138393.7	142935.2	507.13 µg/L	507.13 ppb	15:12:03
3	Mo 202.031†	3608.7	3710.7	449.74 µg/L	449.74 ppb	15:12:29
3	Ni 231.604†	8181.8	8110.1	490.53 µg/L	490.53 ppb	15:12:09
3	P 214.914†	1203.9	1022.3	2307.3 µg/L	2307.3 ppb	15:12:29
3	Pb 220.353†	1688.4	1680.9	471.56 µg/L	471.56 ppb	15:12:29
3	S 181.975 Axial†	188.7	171.6	954.03 µg/L	954.03 ppb	15:12:29
3	Sb 206.836†	442.0	432.0	458.33 µg/L	458.33 ppb	15:12:29
3	Se 196.026†	318.5	320.6	501.67 µg/L	501.67 ppb	15:12:29
3	SiO2†	27879.2	26374.9	5385.1 µg/L	5385.1 ppb	15:12:09
3	Si 251.611†	30368.2	31049.9	2515.2 µg/L	2515.2 ppb	15:12:09
3	Sn 189.927†	805.5	807.7	457.83 µg/L	457.83 ppb	15:12:29
3	Ti 334.940†	202366.6	208087.4	502.68 µg/L	502.68 ppb	15:12:03
3	Tl 190.801†	256.9	289.6	486.68 µg/L	486.68 ppb	15:12:29
3	U 409.014†	4908.8	5250.8	487.02 µg/L	487.02 ppb	15:12:09
3	V 292.402†	39650.9	41025.0	499.00 µg/L	499.00 ppb	15:12:09
3	Zn 213.857†	17707.8	17637.7	492.28 µg/L	492.28 ppb	15:12:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1908997.1	96.587 %	0.3723			0.39%
Sc RADIAL	76369.9	97.3 %	0.18			0.19%
Y 371.029	1201593.0	96.196 %	0.3613			0.38%
Ag 328.068†	58612.1	532.85 µg/L	15.424	532.85 ppb	15.424	2.89%
QC value within limits for Ag 328.068 Recovery = 106.57%						
Al 396.153Radial†	7920.7	5119.5 µg/L	32.35	5119.5 ppb	32.35	0.63%
QC value within limits for Al 396.153Radial Recovery = 102.39%						
As 188.979†	239.5	521.15 µg/L	46.028	521.15 ppb	46.028	8.83%
QC value within limits for As 188.979 Recovery = 104.23%						
B 249.677†	10690.1	504.49 µg/L	16.796	504.49 ppb	16.796	3.33%
QC value within limits for B 249.677 Recovery = 100.90%						
Ba 233.527†	18728.1	524.08 µg/L	24.404	524.08 ppb	24.404	4.66%
QC value within limits for Ba 233.527 Recovery = 104.82%						
Be 313.107†	775128.8	521.33 µg/L	17.420	521.33 ppb	17.420	3.34%
QC value within limits for Be 313.107 Recovery = 104.27%						
Ca 317.933Radial†	6805.0	4903.3 µg/L	20.76	4903.3 ppb	20.76	0.42%
QC value within limits for Ca 317.933Radial Recovery = 98.07%						
Cd 226.502†	18367.3	520.34 µg/L	23.992	520.34 ppb	23.992	4.61%
QC value within limits for Cd 226.502 Recovery = 104.07%						
Co 228.616†	9865.0	524.15 µg/L	26.085	524.15 ppb	26.085	4.98%

QC value within limits for Co 228.616 Recovery = 104.83%							
Cr 267.716†	23353.4	523.60 µg/L	34.014	523.60 ppb	34.014	6.50%	
QC value within limits for Cr 267.716 Recovery = 104.72%							
Cu 324.752†	72171.1	529.90 µg/L	26.580	529.90 ppb	26.580	5.02%	
QC value within limits for Cu 324.752 Recovery = 105.98%							
Fe 238.204 Radial†	391.2	5191.2 µg/L	45.71	5191.2 ppb	45.71	0.88%	
QC value within limits for Fe 238.204 Radial Recovery = 103.82%							
K 766.490 Radial†	8346.0	5265.5 µg/L	39.04	5265.5 ppb	39.04	0.74%	
QC value within limits for K 766.490 Radial Recovery = 105.31%							
Mg 279.077 IEC†	506.9	5205.6 µg/L	43.15	5205.6 ppb	43.15	0.83%	
QC value within limits for Mg 279.077 IEC Recovery = 104.11%							
Mn 257.610†	148538.5	526.98 µg/L	17.235	526.98 ppb	17.235	3.27%	
QC value within limits for Mn 257.610 Recovery = 105.40%							
Mo 202.031†	4201.3	509.17 µg/L	51.560	509.17 ppb	51.560	10.13%	
QC value within limits for Mo 202.031 Recovery = 101.83%							
Na 589.592 Radial†	37706.2	10039 µg/L	52.9	10039 ppb	52.9	0.53%	
QC value within limits for Na 589.592 Radial Recovery = 100.39%							
Ni 231.604†	8652.6	523.34 µg/L	28.518	523.34 ppb	28.518	5.45%	
QC value within limits for Ni 231.604 Recovery = 104.67%							
P 214.914†	1146.6	2591.4 µg/L	246.46	2591.4 ppb	246.46	9.51%	
QC value within limits for P 214.914 Recovery = 103.66%							
Pb 220.353†	1869.7	524.61 µg/L	46.124	524.61 ppb	46.124	8.79%	
QC value within limits for Pb 220.353 Recovery = 104.92%							
S 181.975 Axial†	187.9	1044.4 µg/L	78.79	1044.4 ppb	78.79	7.54%	
QC value within limits for S 181.975 Axial Recovery = 104.44%							
Sb 206.836†	484.1	513.96 µg/L	48.555	513.96 ppb	48.555	9.45%	
QC value within limits for Sb 206.836 Recovery = 102.79%							
Se 196.026†	346.5	540.44 µg/L	33.811	540.44 ppb	33.811	6.26%	
QC value within limits for Se 196.026 Recovery = 108.09%							
SiO2†	27633.7	5642.1 µg/L	225.51	5642.1 ppb	225.51	4.00%	
QC value within limits for SiO2 Recovery = 105.51%							
Si 251.611†	32521.4	2634.4 µg/L	104.31	2634.4 ppb	104.31	3.96%	
QC value within limits for Si 251.611 Recovery = 105.38%							
Sn 189.927†	924.6	523.75 µg/L	57.214	523.75 ppb	57.214	10.92%	
QC value within limits for Sn 189.927 Recovery = 104.75%							
Sr 421.552†	86613.7	518.12 µg/L	3.270	518.12 ppb	3.270	0.63%	
QC value within limits for Sr 421.552 Recovery = 103.62%							
Ti 334.940†	217114.5	524.50 µg/L	18.915	524.50 ppb	18.915	3.61%	
QC value within limits for Ti 334.940 Recovery = 104.90%							
Tl 190.801†	314.5	528.38 µg/L	36.460	528.38 ppb	36.460	6.90%	
QC value within limits for Tl 190.801 Recovery = 105.68%							
U 409.014†	5667.3	525.74 µg/L	33.547	525.74 ppb	33.547	6.38%	
QC value within limits for U 409.014 Recovery = 105.15%							
V 292.402†	43760.9	532.50 µg/L	29.175	532.50 ppb	29.175	5.48%	
QC value within limits for V 292.402 Recovery = 106.50%							
Zn 213.857†	18726.3	522.69 µg/L	26.529	522.69 ppb	26.529	5.08%	
QC value within limits for Zn 213.857 Recovery = 104.54%							
All analyte(s) passed QC.							

Sequence No.: 20

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 15:12:39

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	73659.4	73659.4	93.9 %		15:13:12
1	Al 396.153Radial†	-25.4	2.4	1.5661 µg/L	1.5661 ppb	15:13:12
1	Ca 317.933Radial†	246.6	15.5	11.192 µg/L	11.192 ppb	15:13:32
1	Fe 238.204 Radial†	16.3	1.0	13.550 µg/L	13.550 ppb	15:13:32
1	K 766.490 Radial†	374.2	-0.0	-0.0202 µg/L	-0.0202 ppb	15:13:12
1	Mg 279.077 IEC†	5.4	-2.4	-24.184 µg/L	-24.184 ppb	15:13:32
1	Na 589.592 Radial†	460.5	-63.0	-16.782 µg/L	-16.782 ppb	15:13:12
1	Sr 421.552†	847.2	268.6	1.6070 µg/L	1.6070 ppb	15:13:12
1	Sc 361.383	1896915.4	1896915.4	95.976 %		15:14:34
1	Y 371.029	1198514.3	1198514.3	95.949 %		15:14:34
1	Ag 328.068†	-156.1	-70.1	-0.6304 µg/L	-0.6304 ppb	15:14:40
1	As 188.979†	-1.3	1.4	2.9566 µg/L	2.9566 ppb	15:15:00
1	B 249.677†	149.4	-214.3	-10.157 µg/L	-10.157 ppb	15:15:00
1	Ba 233.527†	-31.6	-9.0	-0.2498 µg/L	-0.2498 ppb	15:15:00
1	Be 313.107†	3823.4	150.0	0.1009 µg/L	0.1009 ppb	15:14:40
1	Cd 226.502†	-121.0	-0.8	-0.0242 µg/L	-0.0242 ppb	15:15:00
1	Co 228.616†	-47.0	0.3	0.0169 µg/L	0.0169 ppb	15:15:00
1	Cr 267.716†	-39.1	61.4	1.3766 µg/L	1.3766 ppb	15:14:40
1	Cu 324.752†	3758.0	15.6	0.1166 µg/L	0.1166 ppb	15:14:40
1	Mn 257.610†	-77.2	67.4	0.2416 µg/L	0.2416 ppb	15:15:00
1	Mo 202.031†	19.8	8.0	0.9709 µg/L	0.9709 ppb	15:15:00
1	Ni 231.604†	317.2	-0.9	-0.0519 µg/L	-0.0519 ppb	15:15:00
1	P 214.914†	221.5	10.9	25.121 µg/L	25.121 ppb	15:15:00
1	Pb 220.353†	67.9	9.6	2.6976 µg/L	2.6976 ppb	15:15:00
1	S 181.975 Axial†	22.5	0.3	1.7216 µg/L	1.7216 ppb	15:15:00
1	Sb 206.836†	23.0	-0.1	-0.0988 µg/L	-0.0988 ppb	15:15:00
1	Se 196.026†	4.6	-3.1	-4.5934 µg/L	-4.5934 ppb	15:15:00
1	SiO2†	2298.2	5.2	1.0642 µg/L	1.0642 ppb	15:14:40
1	Si 251.611†	279.8	9.1	0.7388 µg/L	0.7388 ppb	15:15:00
1	Sn 189.927†	23.9	1.4	0.8036 µg/L	0.8036 ppb	15:15:00
1	Ti 334.940†	705.7	31.4	0.0780 µg/L	0.0780 ppb	15:14:40
1	Tl 190.801†	-23.2	0.3	0.5665 µg/L	0.5665 ppb	15:15:00
1	U 409.014†	-219.6	-42.6	-3.9589 µg/L	-3.9589 ppb	15:14:40
1	V 292.402†	-96.4	14.8	0.1858 µg/L	0.1858 ppb	15:14:40
1	Zn 213.857†	686.0	82.5	2.3188 µg/L	2.3188 ppb	15:15:00
2	Sc RADIAL	73984.8	73984.8	94.3 %		15:13:38
2	Al 396.153Radial†	-34.3	-6.8	-4.4514 µg/L	-4.4514 ppb	15:13:38
2	Ca 317.933Radial†	241.9	9.5	6.8186 µg/L	6.8186 ppb	15:13:58
2	Fe 238.204 Radial†	17.2	1.9	24.543 µg/L	24.543 ppb	15:13:58
2	K 766.490 Radial†	404.3	30.2	19.027 µg/L	19.027 ppb	15:13:38
2	Mg 279.077 IEC†	11.8	4.4	45.071 µg/L	45.071 ppb	15:13:58
2	Na 589.592 Radial†	365.9	-165.6	-44.082 µg/L	-44.082 ppb	15:13:38
2	Sr 421.552†	661.1	67.2	0.4021 µg/L	0.4021 ppb	15:13:38
2	Sc 361.383	1890357.7	1890357.7	95.644 %		15:15:06
2	Y 371.029	1193359.2	1193359.2	95.537 %		15:15:06
2	Ag 328.068†	-120.5	-33.4	-0.3001 µg/L	-0.3001 ppb	15:15:12
2	As 188.979†	-0.7	2.0	4.3167 µg/L	4.3167 ppb	15:15:32
2	B 249.677†	136.5	-227.2	-10.773 µg/L	-10.773 ppb	15:15:32
2	Ba 233.527†	-27.1	-4.4	-0.1221 µg/L	-0.1221 ppb	15:15:32
2	Be 313.107†	3791.2	130.1	0.0875 µg/L	0.0875 ppb	15:15:12
2	Cd 226.502†	-125.3	-5.7	-0.1634 µg/L	-0.1634 ppb	15:15:32
2	Co 228.616†	-57.2	-10.5	-0.5559 µg/L	-0.5559 ppb	15:15:32
2	Cr 267.716†	-68.2	30.9	0.6919 µg/L	0.6919 ppb	15:15:12
2	Cu 324.752†	3763.7	35.2	0.2614 µg/L	0.2614 ppb	15:15:12
2	Mn 257.610†	-83.7	60.4	0.2155 µg/L	0.2155 ppb	15:15:32
2	Mo 202.031†	17.9	6.1	0.7380 µg/L	0.7380 ppb	15:15:32
2	Ni 231.604†	316.6	-0.4	-0.0210 µg/L	-0.0210 ppb	15:15:32
2	P 214.914†	223.4	13.7	31.613 µg/L	31.613 ppb	15:15:32
2	Pb 220.353†	71.3	13.4	3.7473 µg/L	3.7473 ppb	15:15:32

2	S 181.975 Axial†	19.1	-3.2	-17.799 µg/L	-17.799 ppb	15:15:32
2	Sb 206.836†	31.4	8.8	9.2781 µg/L	9.2781 ppb	15:15:32
2	Se 196.026†	20.1	13.1	19.711 µg/L	19.711 ppb	15:15:32
2	SiO2†	2293.8	8.8	1.8019 µg/L	1.8019 ppb	15:15:12
2	Si 251.611†	284.6	15.1	1.2228 µg/L	1.2228 ppb	15:15:32
2	Sn 189.927†	24.1	1.7	0.9848 µg/L	0.9848 ppb	15:15:32
2	Ti 334.940†	721.3	50.3	0.1181 µg/L	0.1181 ppb	15:15:12
2	Tl 190.801†	-27.3	-4.1	-6.7502 µg/L	-6.7502 ppb	15:15:32
2	U 409.014†	-166.1	12.6	1.1669 µg/L	1.1669 ppb	15:15:12
2	V 292.402†	-116.4	-6.4	-0.0671 µg/L	-0.0671 ppb	15:15:12
2	Zn 213.857†	683.9	82.8	2.3239 µg/L	2.3239 ppb	15:15:32
3	Sc RADIAL	73425.8	73425.8	93.6 %		15:14:03
3	Al 396.153Radial†	-43.4	-16.9	-10.933 µg/L	-10.933 ppb	15:14:03
3	Ca 317.933Radial†	234.5	3.4	2.4661 µg/L	2.4661 ppb	15:14:24
3	Fe 238.204 Radial†	17.5	2.4	31.744 µg/L	31.744 ppb	15:14:24
3	K 766.490 Radial†	366.4	-7.1	-4.4751 µg/L	-4.4751 ppb	15:14:03
3	Mg 279.077 IEC†	5.9	-1.9	-19.190 µg/L	-19.190 ppb	15:14:24
3	Na 589.592 Radial†	333.8	-196.9	-52.430 µg/L	-52.430 ppb	15:14:03
3	Sr 421.552†	653.0	63.9	0.3821 µg/L	0.3821 ppb	15:14:03
3	Sc 361.383	1884833.7	1884833.7	95.364 %		15:15:38
3	Y 371.029	1190720.2	1190720.2	95.325 %		15:15:38
3	Ag 328.068†	-133.7	-47.6	-0.4260 µg/L	-0.4260 ppb	15:15:44
3	As 188.979†	-2.0	0.7	1.4665 µg/L	1.4665 ppb	15:16:04
3	B 249.677†	161.6	-200.5	-9.5127 µg/L	-9.5127 ppb	15:16:04
3	Ba 233.527†	-25.0	-2.2	-0.0618 µg/L	-0.0618 ppb	15:16:04
3	Be 313.107†	3859.0	212.8	0.1431 µg/L	0.1431 ppb	15:15:44
3	Cd 226.502†	-120.7	-1.3	-0.0393 µg/L	-0.0393 ppb	15:16:04
3	Co 228.616†	-46.5	0.6	0.0312 µg/L	0.0312 ppb	15:16:04
3	Cr 267.716†	-79.0	19.3	0.4321 µg/L	0.4321 ppb	15:15:44
3	Cu 324.752†	3797.4	82.0	0.6058 µg/L	0.6058 ppb	15:15:44
3	Mn 257.610†	-66.0	78.7	0.2839 µg/L	0.2839 ppb	15:16:04
3	Mo 202.031†	10.0	-2.1	-0.2519 µg/L	-0.2519 ppb	15:16:04
3	Ni 231.604†	325.4	9.8	0.5953 µg/L	0.5953 ppb	15:16:04
3	P 214.914†	220.1	11.0	25.220 µg/L	25.220 ppb	15:16:04
3	Pb 220.353†	54.2	-4.3	-1.2186 µg/L	-1.2186 ppb	15:16:04
3	S 181.975 Axial†	26.5	4.6	25.830 µg/L	25.830 ppb	15:16:04
3	Sb 206.836†	23.3	0.4	0.4458 µg/L	0.4458 ppb	15:16:04
3	Se 196.026†	6.5	-1.1	-1.5708 µg/L	-1.5708 ppb	15:16:04
3	SiO2†	2286.1	7.8	1.5868 µg/L	1.5868 ppb	15:15:44
3	Si 251.611†	286.0	17.5	1.4177 µg/L	1.4177 ppb	15:16:04
3	Sn 189.927†	24.0	1.7	0.9530 µg/L	0.9530 ppb	15:16:04
3	Ti 334.940†	745.3	77.7	0.1894 µg/L	0.1894 ppb	15:15:44
3	Tl 190.801†	-23.7	-0.3	-0.4577 µg/L	-0.4577 ppb	15:16:04
3	U 409.014†	-193.9	-17.1	-1.5951 µg/L	-1.5951 ppb	15:15:44
3	V 292.402†	-87.7	23.4	0.2806 µg/L	0.2806 ppb	15:15:44
3	Zn 213.857†	673.0	73.5	2.0619 µg/L	2.0619 ppb	15:16:04

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1890702.3	95.661 %	0.3060			0.32%
Sc RADIAL	73690.0	93.9 %	0.36			0.38%
Y 371.029	1194197.9	95.604 %	0.3174			0.33%
Ag 328.068†	-50.4	-0.4522 µg/L	0.16666	-0.4522 ppb	0.16666	36.86%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.1	-4.6061 µg/L	6.25107	-4.6061 ppb	6.25107	135.71%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.3	2.9133 µg/L	1.42561	2.9133 ppb	1.42561	48.93%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-214.0	-10.147 µg/L	0.6301	-10.147 ppb	0.6301	6.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.2	-0.1446 µg/L	0.09602	-0.1446 ppb	0.09602	66.41%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	164.3	0.1105 µg/L	0.02905	0.1105 ppb	0.02905	26.29%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	9.5	6.8257 µg/L	4.36318	6.8257 ppb	4.36318	63.92%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-2.6	-0.0756 µg/L	0.07638	-0.0756 ppb	0.07638	100.98%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-3.2	-0.1693 µg/L	0.33487	-0.1693 ppb	0.33487	197.84%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	37.2	0.8335 µg/L	0.48789	0.8335 ppb	0.48789	58.53%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	44.3	0.3279 µg/L	0.25131	0.3279 ppb	0.25131	76.64%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.8	23.279 µg/L	9.1625	23.279 ppb	9.1625	39.36%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	7.7	4.8439 µg/L	12.48323	4.8439 ppb	12.48323	257.71%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.1	0.5657 µg/L	38.62362	0.5657 ppb	38.62362	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	68.8	0.2470 µg/L	0.03451	0.2470 ppb	0.03451	13.97%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.0	0.4857 µg/L	0.64931	0.4857 ppb	0.64931	133.69%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-141.8	-37.765 µg/L	18.6448	-37.765 ppb	18.6448	49.37%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	2.9	0.1741 µg/L	0.36504	0.1741 ppb	0.36504	209.65%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	11.9	27.318 µg/L	3.7196	27.318 ppb	3.7196	13.62%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	6.2	1.7421 µg/L	2.61722	1.7421 ppb	2.61722	150.23%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	0.6	3.2509 µg/L	21.85471	3.2509 ppb	21.85471	672.27%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	3.0	3.2083 µg/L	5.26359	3.2083 ppb	5.26359	164.06%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.9	4.5157 µg/L	13.24624	4.5157 ppb	13.24624	293.34%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	7.3	1.4843 µg/L	0.37938	1.4843 ppb	0.37938	25.56%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	13.9	1.1265 µg/L	0.34960	1.1265 ppb	0.34960	31.04%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.6	0.9138 µg/L	0.09679	0.9138 ppb	0.09679	10.59%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	133.2	0.7971 µg/L	0.70146	0.7971 ppb	0.70146	88.00%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	53.1	0.1285 µg/L	0.05643	0.1285 ppb	0.05643	43.92%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-1.3	-2.2138 µg/L	3.96184	-2.2138 ppb	3.96184	178.96%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-15.7	-1.4624 µg/L	2.56546	-1.4624 ppb	2.56546	175.43%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	10.6	0.1331 µg/L	0.17975	0.1331 ppb	0.17975	135.06%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	79.6	2.2348 µg/L	0.14984	2.2348 ppb	0.14984	6.70%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 21

Sample ID: 1202021499|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 310

Date Collected: 1/29/2010 15:16:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021499|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	73756.8	73756.8	94.0 %			15:16:53
1	Al 396.153Radial†	-13.0	15.7	10.174 µg/L	10.174 ppb	15:16:53	
1	Ca 317.933Radial†	256.1	25.3	18.212 µg/L	18.212 ppb	15:17:13	
1	Fe 238.204 Radial†	15.9	0.5	6.9534 µg/L	6.9534 ppb	15:17:13	
1	K 766.490 Radial†	341.6	-35.2	-22.208 µg/L	-22.208 ppb	15:16:53	
1	Mg 279.077 IEC†	7.8	0.1	0.9289 µg/L	0.9289 ppb	15:17:13	
1	Na 589.592 Radial†	342.2	-189.5	-50.464 µg/L	-50.464 ppb	15:16:53	
1	Sr 421.552†	646.0	53.3	0.3191 µg/L	0.3191 ppb	15:16:53	
1	Sc 361.383	1903149.3	1903149.3	96.291 %		15:18:15	
1	Y 371.029	1199166.1	1199166.1	96.002 %		15:18:15	
1	Ag 328.068†	-136.5	-49.2	-0.4422 µg/L	-0.4422 ppb	15:18:21	
1	As 188.979†	-3.3	-0.7	-1.5549 µg/L	-1.5549 ppb	15:18:41	
1	B 249.677†	142.3	-222.2	-10.526 µg/L	-10.526 ppb	15:18:41	
1	Ba 233.527†	-25.6	-2.6	-0.0732 µg/L	-0.0732 ppb	15:18:41	
1	Be 313.107†	3701.8	10.6	0.0071 µg/L	0.0071 ppb	15:18:21	
1	Cd 226.502†	-123.3	-2.8	-0.0805 µg/L	-0.0805 ppb	15:18:41	
1	Co 228.616†	-56.6	-9.5	-0.5044 µg/L	-0.5044 ppb	15:18:41	
1	Cr 267.716†	-90.5	8.2	0.1840 µg/L	0.1840 ppb	15:18:21	
1	Cu 324.752†	3760.2	5.0	0.0379 µg/L	0.0379 ppb	15:18:21	
1	Mn 257.610†	-82.4	62.2	0.2215 µg/L	0.2215 ppb	15:18:41	
1	Mo 202.031†	14.2	2.1	0.2601 µg/L	0.2601 ppb	15:18:41	
1	Ni 231.604†	316.7	-2.6	-0.1544 µg/L	-0.1544 ppb	15:18:41	
1	P 214.914†	227.8	16.7	38.458 µg/L	38.458 ppb	15:18:41	
1	Pb 220.353†	57.3	-1.6	-0.4628 µg/L	-0.4628 ppb	15:18:41	
1	S 181.975 Axial†	21.4	-1.0	-5.2956 µg/L	-5.2956 ppb	15:18:41	
1	Sb 206.836†	21.9	-1.2	-1.2996 µg/L	-1.2996 ppb	15:18:41	
1	Se 196.026†	15.6	8.3	12.472 µg/L	12.472 ppb	15:18:41	
1	SiO2†	2403.5	106.7	21.777 µg/L	21.777 ppb	15:18:21	
1	Si 251.611†	376.1	108.1	8.7587 µg/L	8.7587 ppb	15:18:41	
1	Sn 189.927†	18.4	-4.3	-2.4471 µg/L	-2.4471 ppb	15:18:41	
1	Ti 334.940†	749.7	74.7	0.1807 µg/L	0.1807 ppb	15:18:21	
1	Tl 190.801†	-18.3	5.5	9.1716 µg/L	9.1716 ppb	15:18:41	
1	U 409.014†	-159.1	20.9	1.9443 µg/L	1.9443 ppb	15:18:21	
1	V 292.402†	-93.9	17.8	0.2194 µg/L	0.2194 ppb	15:18:21	
1	Zn 213.857†	645.1	37.7	1.0588 µg/L	1.0588 ppb	15:18:41	
2	Sc RADIAL	75366.9	75366.9	96.0 %		15:17:19	
2	Al 396.153Radial†	-22.5	6.1	3.9420 µg/L	3.9420 ppb	15:17:19	
2	Ca 317.933Radial†	244.1	7.0	5.0254 µg/L	5.0254 ppb	15:17:39	
2	Fe 238.204 Radial†	15.9	0.2	2.6856 µg/L	2.6856 ppb	15:17:39	
2	K 766.490 Radial†	424.3	43.1	27.179 µg/L	27.179 ppb	15:17:19	
2	Mg 279.077 IEC†	8.8	1.0	9.8137 µg/L	9.8137 ppb	15:17:39	
2	Na 589.592 Radial†	366.1	-172.5	-45.924 µg/L	-45.924 ppb	15:17:19	
2	Sr 421.552†	638.1	30.4	0.1817 µg/L	0.1817 ppb	15:17:19	
2	Sc 361.383	1923362.2	1923362.2	97.314 %		15:18:47	
2	Y 371.029	1211927.3	1211927.3	97.023 %		15:18:47	
2	Ag 328.068†	-103.6	-13.9	-0.1268 µg/L	-0.1268 ppb	15:18:53	
2	As 188.979†	-4.4	-1.8	-3.9344 µg/L	-3.9344 ppb	15:19:13	
2	B 249.677†	146.1	-219.8	-10.411 µg/L	-10.411 ppb	15:19:13	
2	Ba 233.527†	-16.1	7.4	0.2060 µg/L	0.2060 ppb	15:19:13	
2	Be 313.107†	3754.1	24.0	0.0161 µg/L	0.0161 ppb	15:18:53	
2	Cd 226.502†	-132.3	-10.7	-0.3032 µg/L	-0.3032 ppb	15:19:13	
2	Co 228.616†	-46.6	1.4	0.0737 µg/L	0.0737 ppb	15:19:13	
2	Cr 267.716†	-51.9	48.8	1.0940 µg/L	1.0940 ppb	15:18:53	
2	Cu 324.752†	3779.8	-15.9	-0.1159 µg/L	-0.1159 ppb	15:18:53	
2	Mn 257.610†	-83.0	62.5	0.2216 µg/L	0.2216 ppb	15:19:13	
2	Mo 202.031†	15.4	3.2	0.3882 µg/L	0.3882 ppb	15:19:13	
2	Ni 231.604†	321.0	-1.6	-0.0948 µg/L	-0.0948 ppb	15:19:13	
2	P 214.914†	221.5	7.7	17.857 µg/L	17.857 ppb	15:19:13	
2	Pb 220.353†	60.3	0.8	0.2402 µg/L	0.2402 ppb	15:19:13	

2	S 181.975 Axial†	21.5	-1.0	-5.5255 µg/L	-5.5255 ppb	15:19:13
2	Sb 206.836†	25.4	2.1	2.1857 µg/L	2.1857 ppb	15:19:13
2	Se 196.026†	9.7	2.0	3.0618 µg/L	3.0618 ppb	15:19:13
2	SiO2†	2390.6	67.2	13.718 µg/L	13.718 ppb	15:18:53
2	Si 251.611†	394.0	122.5	9.9215 µg/L	9.9215 ppb	15:19:13
2	Sn 189.927†	26.4	3.7	2.0836 µg/L	2.0836 ppb	15:19:13
2	Ti 334.940†	753.3	70.2	0.1690 µg/L	0.1690 ppb	15:18:53
2	Tl 190.801†	-23.3	0.5	0.8801 µg/L	0.8801 ppb	15:19:13
2	U 409.014†	-279.6	-101.1	-9.3953 µg/L	-9.3953 ppb	15:18:53
2	V 292.402†	-133.2	-21.6	-0.2634 µg/L	-0.2634 ppb	15:18:53
2	Zn 213.857†	633.5	18.8	0.5270 µg/L	0.5270 ppb	15:19:13
3	Sc RADIAL	74449.4	74449.4	94.9 %		15:17:45
3	Al 396.153Radial†	-25.2	3.0	1.9043 µg/L	1.9043 ppb	15:17:45
3	Ca 317.933Radial†	246.3	12.5	8.9741 µg/L	8.9741 ppb	15:18:05
3	Fe 238.204 Radial†	15.5	-0.0	-0.5676 µg/L	-0.5676 ppb	15:18:05
3	K 766.490 Radial†	365.8	-13.1	-8.2925 µg/L	-8.2925 ppb	15:17:45
3	Mg 279.077 IEC†	10.2	2.6	26.779 µg/L	26.779 ppb	15:18:05
3	Na 589.592 Radial†	354.4	-180.1	-47.952 µg/L	-47.952 ppb	15:17:45
3	Sr 421.552†	688.1	91.3	0.5460 µg/L	0.5460 ppb	15:17:45
3	Sc 361.383	1925321.5	1925321.5	97.413 %		15:19:19
3	Y 371.029	1213213.3	1213213.3	97.126 %		15:19:19
3	Ag 328.068†	-150.2	-61.6	-0.5543 µg/L	-0.5543 ppb	15:19:25
3	As 188.979†	-0.7	2.0	4.3900 µg/L	4.3900 ppb	15:19:45
3	B 249.677†	145.6	-220.5	-10.441 µg/L	-10.441 ppb	15:19:45
3	Ba 233.527†	-26.3	-3.0	-0.0831 µg/L	-0.0831 ppb	15:19:45
3	Be 313.107†	3796.4	63.4	0.0425 µg/L	0.0425 ppb	15:19:25
3	Cd 226.502†	-125.7	-3.7	-0.1054 µg/L	-0.1054 ppb	15:19:45
3	Co 228.616†	-41.6	6.6	0.3492 µg/L	0.3492 ppb	15:19:45
3	Cr 267.716†	-55.9	44.8	1.0032 µg/L	1.0032 ppb	15:19:25
3	Cu 324.752†	3794.1	-5.1	-0.0375 µg/L	-0.0375 ppb	15:19:25
3	Mn 257.610†	-65.8	80.3	0.2834 µg/L	0.2834 ppb	15:19:45
3	Mo 202.031†	20.4	8.3	1.0066 µg/L	1.0066 ppb	15:19:45
3	Ni 231.604†	326.7	4.0	0.2388 µg/L	0.2388 ppb	15:19:45
3	P 214.914†	230.1	16.4	37.911 µg/L	37.911 ppb	15:19:45
3	Pb 220.353†	63.8	4.3	1.2213 µg/L	1.2213 ppb	15:19:45
3	S 181.975 Axial†	23.5	1.0	5.7469 µg/L	5.7469 ppb	15:19:45
3	Sb 206.836†	24.1	0.7	0.7234 µg/L	0.7234 ppb	15:19:45
3	Se 196.026†	10.6	2.9	4.3623 µg/L	4.3623 ppb	15:19:45
3	SiO2†	2377.0	50.8	10.366 µg/L	10.366 ppb	15:19:25
3	Si 251.611†	376.7	104.3	8.4474 µg/L	8.4474 ppb	15:19:45
3	Sn 189.927†	29.4	6.7	3.7860 µg/L	3.7860 ppb	15:19:45
3	Ti 334.940†	853.5	172.3	0.4145 µg/L	0.4145 ppb	15:19:25
3	Tl 190.801†	-20.3	3.7	6.2163 µg/L	6.2163 ppb	15:19:45
3	U 409.014†	-171.8	9.9	0.9173 µg/L	0.9173 ppb	15:19:25
3	V 292.402†	-88.0	24.9	0.3111 µg/L	0.3111 ppb	15:19:25
3	Zn 213.857†	645.1	30.0	0.8404 µg/L	0.8404 ppb	15:19:45

Mean Data: 1202021499|944077|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1917277.7	97.006 %		0.6210			0.64%
Sc RADIAL	74524.4	95.0 %		1.03			1.08%
Y 371.029	1208102.2	96.717 %		0.6217			0.64%
Ag 328.068†	-41.6	-0.3745 µg/L		0.22166	-0.3745 ppb	0.22166	59.19%
Al 396.153Radial†	8.3	5.3400 µg/L		4.30833	5.3400 ppb	4.30833	80.68%
As 188.979†	-0.2	-0.3665 µg/L		4.28757	-0.3665 ppb	4.28757	>999.9%
B 249.677†	-220.8	-10.459 µg/L		0.0597	-10.459 ppb	0.0597	0.57%
Ba 233.527†	0.6	0.0166 µg/L		0.16413	0.0166 ppb	0.16413	990.45%
Be 313.107†	32.7	0.0219 µg/L		0.01843	0.0219 ppb	0.01843	84.23%
Ca 317.933Radial†	14.9	10.737 µg/L		6.7679	10.737 ppb	6.7679	63.03%
Cd 226.502†	-5.7	-0.1630 µg/L		0.12205	-0.1630 ppb	0.12205	74.85%
Co 228.616†	-0.5	-0.0272 µg/L		0.43565	-0.0272 ppb	0.43565	>999.9%
Cr 267.716†	33.9	0.7604 µg/L		0.50125	0.7604 ppb	0.50125	65.92%
Cu 324.752†	-5.3	-0.0385 µg/L		0.07695	-0.0385 ppb	0.07695	199.90%
Fe 238.204 Radial†	0.2	3.0238 µg/L		3.77188	3.0238 ppb	3.77188	124.74%
K 766.490 Radial†	-1.8	-1.1071 µg/L		25.46533	-1.1071 ppb	25.46533	>999.9%
Mg 279.077 IEC†	1.2	12.507 µg/L		13.1337	12.507 ppb	13.1337	105.01%
Mn 257.610†	68.4	0.2422 µg/L		0.03572	0.2422 ppb	0.03572	14.75%
Mo 202.031†	4.6	0.5516 µg/L		0.39916	0.5516 ppb	0.39916	72.36%
Na 589.592 Radial†	-180.7	-48.113 µg/L		2.2742	-48.113 ppb	2.2742	4.73%

Ni 231.604†	-0.1	-0.0035 µg/L	0.21195	-0.0035 ppb	0.21195 >999.9%
P 214.914†	13.6	31.408 µg/L	11.7394	31.408 ppb	11.7394 37.38%
Pb 220.353†	1.2	0.3329 µg/L	0.84586	0.3329 ppb	0.84586 254.10%
S 181.975 Axial†	-0.3	-1.6914 µg/L	6.44276	-1.6914 ppb	6.44276 380.91%
Sb 206.836†	0.5	0.5365 µg/L	1.75017	0.5365 ppb	1.75017 326.21%
Se 196.026†	4.4	6.6319 µg/L	5.09893	6.6319 ppb	5.09893 76.89%
SiO2†	74.9	15.287 µg/L	5.8652	15.287 ppb	5.8652 38.37%
Si 251.611†	111.6	9.0425 µg/L	0.77698	9.0425 ppb	0.77698 8.59%
Sn 189.927†	2.0	1.1408 µg/L	3.22172	1.1408 ppb	3.22172 282.40%
Sr 421.552†	58.3	0.3489 µg/L	0.18398	0.3489 ppb	0.18398 52.73%
Ti 334.940†	105.7	0.2547 µg/L	0.13849	0.2547 ppb	0.13849 54.37%
Tl 190.801†	3.3	5.4227 µg/L	4.20234	5.4227 ppb	4.20234 77.50%
U 409.014†	-23.4	-2.1779 µg/L	6.27152	-2.1779 ppb	6.27152 287.96%
V 292.402†	7.1	0.0890 µg/L	0.30867	0.0890 ppb	0.30867 346.73%
Zn 213.857†	28.8	0.8087 µg/L	0.26727	0.8087 ppb	0.26727 33.05%

Sequence No.: 22

Sample ID: 1202021500|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 311

Date Collected: 1/29/2010 15:19:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021500|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	75896.4	75896.4	96.7 %		15:20:27
1	Al 396.153Radial†	7756.3	8049.9	5202.8 µg/L	5202.8 ppb	15:20:27
1	Ca 317.933Radial†	7104.7	7099.5	5115.5 µg/L	5115.5 ppb	15:20:27
1	Fe 238.204 Radial†	398.8	396.0	5254.9 µg/L	5254.9 ppb	15:20:47
1	K 766.490 Radial†	8528.4	8420.1	5312.3 µg/L	5312.3 ppb	15:20:27
1	Mg 279.077 IEC†	507.2	516.3	5301.8 µg/L	5301.8 ppb	15:20:47
1	Na 589.592 Radial†	18842.9	18930.8	5040.0 µg/L	5040.0 ppb	15:20:27
1	Sr 421.552†	85596.5	87876.8	525.67 µg/L	525.67 ppb	15:20:27
1	Sc 361.383	1918150.3	1918150.3	97.050 %		15:21:51
1	Y 371.029	1205751.8	1205751.8	96.529 %		15:21:51
1	Ag 328.068†	56685.4	58501.1	531.95 µg/L	531.95 ppb	15:21:57
1	As 188.979†	240.6	250.6	545.30 µg/L	545.30 ppb	15:22:17
1	B 249.677†	10897.4	10858.7	512.47 µg/L	512.47 ppb	15:21:57
1	Ba 233.527†	18678.6	19270.3	539.25 µg/L	539.25 ppb	15:21:57
1	Be 313.107†	769499.7	789055.8	530.70 µg/L	530.70 ppb	15:21:51
1	Cd 226.502†	17873.7	18542.3	525.31 µg/L	525.31 ppb	15:21:57
1	Co 228.616†	9549.4	9889.0	525.42 µg/L	525.42 ppb	15:21:57
1	Cr 267.716†	23229.9	24038.1	538.96 µg/L	538.96 ppb	15:21:57
1	Cu 324.752†	75587.4	73985.0	543.21 µg/L	543.21 ppb	15:21:57
1	Mn 257.610†	146401.3	150999.2	535.71 µg/L	535.71 ppb	15:21:51
1	Mo 202.031†	4230.6	4346.6	526.77 µg/L	526.77 ppb	15:22:17
1	Ni 231.604†	8950.7	8891.4	537.80 µg/L	537.80 ppb	15:21:57
1	P 214.914†	482.7	277.5	588.04 µg/L	588.04 ppb	15:22:17
1	Pb 220.353†	1942.0	1939.9	544.30 µg/L	544.30 ppb	15:22:17
1	S 181.975 Axial†	959.7	965.7	5369.1 µg/L	5369.1 ppb	15:22:17
1	Sb 206.836†	520.6	512.4	544.05 µg/L	544.05 ppb	15:22:17
1	Se 196.026†	337.7	340.0	530.87 µg/L	530.87 ppb	15:22:17
1	SiO2†	55490.7	54788.0	11186 µg/L	11186 ppb	15:21:57
1	Si 251.611†	62705.4	64329.0	5210.9 µg/L	5210.9 ppb	15:21:57
1	Sn 189.927†	1012.7	1020.0	577.56 µg/L	577.56 ppb	15:22:17
1	Ti 334.940†	215073.7	220907.3	533.67 µg/L	533.67 ppb	15:21:51
1	Tl 190.801†	286.3	319.5	536.76 µg/L	536.76 ppb	15:22:17
1	U 409.014†	5569.2	5924.7	549.64 µg/L	549.64 ppb	15:21:57
1	V 292.402†	43596.9	45037.4	548.06 µg/L	548.06 ppb	15:21:57
1	Zn 213.857†	18788.1	18726.9	522.61 µg/L	522.61 ppb	15:21:57
2	Sc RADIAL	76276.6	76276.6	97.2 %		15:20:53
2	Al 396.153Radial†	7812.9	8068.1	5214.5 µg/L	5214.5 ppb	15:20:53
2	Ca 317.933Radial†	7100.2	7058.2	5085.7 µg/L	5085.7 ppb	15:20:53
2	Fe 238.204 Radial†	404.7	400.1	5309.0 µg/L	5309.0 ppb	15:21:13
2	K 766.490 Radial†	8592.5	8442.1	5326.2 µg/L	5326.2 ppb	15:20:53
2	Mg 279.077 IEC†	503.1	509.5	5231.9 µg/L	5231.9 ppb	15:21:13
2	Na 589.592 Radial†	19030.1	19026.2	5065.4 µg/L	5065.4 ppb	15:20:53
2	Sr 421.552†	86189.6	88045.8	526.68 µg/L	526.68 ppb	15:20:53
2	Sc 361.383	1916483.6	1916483.6	96.966 %		15:22:25
2	Y 371.029	1205299.1	1205299.1	96.493 %		15:22:25
2	Ag 328.068†	57083.4	58962.2	536.14 µg/L	536.14 ppb	15:22:30
2	As 188.979†	245.8	256.2	557.36 µg/L	557.36 ppb	15:22:51
2	B 249.677†	10944.9	10917.5	515.23 µg/L	515.23 ppb	15:22:30
2	Ba 233.527†	18817.2	19430.0	543.72 µg/L	543.72 ppb	15:22:30
2	Be 313.107†	763213.9	783262.8	526.80 µg/L	526.80 ppb	15:22:25
2	Cd 226.502†	17966.1	18653.6	528.46 µg/L	528.46 ppb	15:22:30
2	Co 228.616†	9624.7	9975.2	530.02 µg/L	530.02 ppb	15:22:30
2	Cr 267.716†	23395.2	24229.4	543.24 µg/L	543.24 ppb	15:22:30
2	Cu 324.752†	76095.0	74576.2	547.56 µg/L	547.56 ppb	15:22:30
2	Mn 257.610†	145442.4	150141.5	532.68 µg/L	532.68 ppb	15:22:25
2	Mo 202.031†	4265.5	4386.4	531.59 µg/L	531.59 ppb	15:22:51
2	Ni 231.604†	9007.6	8958.1	541.83 µg/L	541.83 ppb	15:22:30
2	P 214.914†	482.8	278.1	588.80 µg/L	588.80 ppb	15:22:51
2	Pb 220.353†	1955.7	1955.7	548.74 µg/L	548.74 ppb	15:22:51

2	S 181.975 Axial†	964.7	971.8	5402.8 µg/L	5402.8 ppb	15:22:51
2	Sb 206.836†	522.0	514.3	546.05 µg/L	546.05 ppb	15:22:51
2	Se 196.026†	334.2	336.7	526.14 µg/L	526.14 ppb	15:22:51
2	SiO2†	55957.8	55319.4	11295 µg/L	11295 ppb	15:22:30
2	Si 251.611†	63189.7	64884.7	5256.0 µg/L	5256.0 ppb	15:22:30
2	Sn 189.927†	1013.5	1021.7	578.52 µg/L	578.52 ppb	15:22:51
2	Ti 334.940†	213422.3	219396.9	530.02 µg/L	530.02 ppb	15:22:25
2	Tl 190.801†	290.3	323.9	544.01 µg/L	544.01 ppb	15:22:51
2	U 409.014†	5705.2	6069.9	563.13 µg/L	563.13 ppb	15:22:30
2	V 292.402†	43893.8	45382.6	552.28 µg/L	552.28 ppb	15:22:30
2	Zn 213.857†	18961.3	18922.4	528.09 µg/L	528.09 ppb	15:22:30
3	Sc RADIAL	76173.6	76173.6	97.1 %		15:21:19
3	Al 396.153Radial†	7766.2	8030.9	5191.1 µg/L	5191.1 ppb	15:21:19
3	Ca 317.933Radial†	7080.5	7047.8	5078.3 µg/L	5078.3 ppb	15:21:19
3	Fe 238.204 Radial†	401.9	397.7	5277.8 µg/L	5277.8 ppb	15:21:40
3	K 766.490 Radial†	8525.1	8384.6	5289.9 µg/L	5289.9 ppb	15:21:19
3	Mg 279.077 IEC†	501.4	508.4	5220.4 µg/L	5220.4 ppb	15:21:40
3	Na 589.592 Radial†	18897.6	18916.2	5036.1 µg/L	5036.1 ppb	15:21:19
3	Sr 421.552†	85697.4	87658.6	524.37 µg/L	524.37 ppb	15:21:19
3	Sc 361.383	1915019.6	1915019.6	96.892 %		15:22:58
3	Y 371.029	1204557.3	1204557.3	96.433 %		15:22:58
3	Ag 328.068†	56301.8	58200.6	529.17 µg/L	529.17 ppb	15:23:03
3	As 188.979†	227.8	237.9	517.52 µg/L	517.52 ppb	15:23:24
3	B 249.677†	10826.8	10804.2	509.85 µg/L	509.85 ppb	15:23:03
3	Ba 233.527†	18342.9	18955.3	530.43 µg/L	530.43 ppb	15:23:03
3	Be 313.107†	760459.4	781021.7	525.30 µg/L	525.30 ppb	15:22:58
3	Cd 226.502†	17524.6	18212.1	515.94 µg/L	515.94 ppb	15:23:03
3	Co 228.616†	9358.2	9707.7	515.77 µg/L	515.77 ppb	15:23:03
3	Cr 267.716†	22624.0	23451.9	525.81 µg/L	525.81 ppb	15:23:03
3	Cu 324.752†	74141.2	72619.8	533.21 µg/L	533.21 ppb	15:23:03
3	Mn 257.610†	144788.7	149581.5	530.69 µg/L	530.69 ppb	15:22:58
3	Mo 202.031†	4004.9	4120.8	499.41 µg/L	499.41 ppb	15:23:24
3	Ni 231.604†	8704.7	8652.6	523.35 µg/L	523.35 ppb	15:23:03
3	P 214.914†	471.5	266.8	563.86 µg/L	563.86 ppb	15:23:24
3	Pb 220.353†	1880.1	1879.3	527.24 µg/L	527.24 ppb	15:23:24
3	S 181.975 Axial†	935.8	942.7	5241.1 µg/L	5241.1 ppb	15:23:24
3	Sb 206.836†	501.6	493.7	523.90 µg/L	523.90 ppb	15:23:24
3	Se 196.026†	321.8	324.2	507.24 µg/L	507.24 ppb	15:23:24
3	SiO2†	54843.9	54214.0	11069 µg/L	11069 ppb	15:23:03
3	Si 251.611†	61871.3	63573.7	5149.8 µg/L	5149.8 ppb	15:23:03
3	Sn 189.927†	950.2	957.2	542.16 µg/L	542.16 ppb	15:23:24
3	Ti 334.940†	212468.6	218580.9	528.05 µg/L	528.05 ppb	15:22:58
3	Tl 190.801†	283.0	316.6	531.92 µg/L	531.92 ppb	15:23:24
3	U 409.014†	5443.0	5803.9	538.41 µg/L	538.41 ppb	15:23:03
3	V 292.402†	42636.9	44120.1	536.77 µg/L	536.77 ppb	15:23:03
3	Zn 213.857†	18434.7	18393.8	513.34 µg/L	513.34 ppb	15:23:03

Mean Data: 1202021500|944077|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1916551.2	96.969 %	0.0793			0.08%
Sc RADIAL	76115.5	97.0 %	0.25			0.26%
Y 371.029	1205202.7	96.485 %	0.0483			0.05%
Ag 328.068†	58554.6	532.42 µg/L	3.512	532.42 ppb	3.512	0.66%
Al 396.153Radial†	8049.6	5202.8 µg/L	11.72	5202.8 ppb	11.72	0.23%
As 188.979†	248.2	540.06 µg/L	20.430	540.06 ppb	20.430	3.78%
B 249.677†	10860.1	512.52 µg/L	2.690	512.52 ppb	2.690	0.52%
Ba 233.527†	19218.5	537.80 µg/L	6.761	537.80 ppb	6.761	1.26%
Be 313.107†	784446.8	527.60 µg/L	2.788	527.60 ppb	2.788	0.53%
Ca 317.933Radial†	7068.5	5093.2 µg/L	19.69	5093.2 ppb	19.69	0.39%
Cd 226.502†	18469.3	523.24 µg/L	6.515	523.24 ppb	6.515	1.25%
Co 228.616†	9857.3	523.74 µg/L	7.273	523.74 ppb	7.273	1.39%
Cr 267.716†	23906.5	536.00 µg/L	9.082	536.00 ppb	9.082	1.69%
Cu 324.752†	73727.0	541.33 µg/L	7.359	541.33 ppb	7.359	1.36%
Fe 238.204 Radial†	397.9	5280.6 µg/L	27.15	5280.6 ppb	27.15	0.51%
K 766.490 Radial†	8415.6	5309.4 µg/L	18.31	5309.4 ppb	18.31	0.34%
Mg 279.077 IEC†	511.4	5251.3 µg/L	44.06	5251.3 ppb	44.06	0.84%
Mn 257.610†	150240.7	533.03 µg/L	2.527	533.03 ppb	2.527	0.47%
Mo 202.031†	4284.6	519.26 µg/L	17.354	519.26 ppb	17.354	3.34%
Na 589.592 Radial†	18957.7	5047.2 µg/L	15.91	5047.2 ppb	15.91	0.32%

Ni 231.604†	8834.0	534.33 µg/L	9.718	534.33 ppb	9.718	1.82%
P 214.914†	274.1	580.23 µg/L	14.183	580.23 ppb	14.183	2.44%
Pb 220.353†	1925.0	540.10 µg/L	11.348	540.10 ppb	11.348	2.10%
S 181.975 Axial†	960.1	5337.7 µg/L	85.29	5337.7 ppb	85.29	1.60%
Sb 206.836†	506.8	538.00 µg/L	12.253	538.00 ppb	12.253	2.28%
Se 196.026†	333.6	521.42 µg/L	12.500	521.42 ppb	12.500	2.40%
SiO2†	54773.8	11184 µg/L	112.9	11184 ppb	112.9	1.01%
Si 251.611†	64262.5	5205.6 µg/L	53.30	5205.6 ppb	53.30	1.02%
Sn 189.927†	999.6	566.08 µg/L	20.720	566.08 ppb	20.720	3.66%
Sr 421.552†	87860.4	525.57 µg/L	1.161	525.57 ppb	1.161	0.22%
Ti 334.940†	219628.3	530.58 µg/L	2.850	530.58 ppb	2.850	0.54%
Tl 190.801†	320.0	537.56 µg/L	6.085	537.56 ppb	6.085	1.13%
U 409.014†	5932.9	550.39 µg/L	12.380	550.39 ppb	12.380	2.25%
V 292.402†	44846.7	545.71 µg/L	8.018	545.71 ppb	8.018	1.47%
Zn 213.857†	18681.0	521.35 µg/L	7.457	521.35 ppb	7.457	1.43%

Sequence No.: 24

Sample ID: 1202021501|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 313

Date Collected: 1/29/2010 15:27:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021501|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74940.2	74940.2	95.5 %		15:27:41
1	Al 396.153Radial†	10.0	40.0	25.873 µg/L	25.873 ppb	15:27:41
1	Ca 317.933Radial†	287.3	53.7	38.713 µg/L	38.713 ppb	15:28:01
1	Fe 238.204 Radial†	18.9	3.4	45.076 µg/L	45.076 ppb	15:28:01
1	K 766.490 Radial†	559.6	187.4	118.22 µg/L	118.22 ppb	15:27:41
1	Mg 279.077 IEC†	8.2	0.4	4.0328 µg/L	4.0328 ppb	15:28:01
1	Na 589.592 Radial†	631.3	107.4	28.603 µg/L	28.603 ppb	15:27:41
1	Sr 421.552†	682.6	80.9	0.4837 µg/L	0.4837 ppb	15:27:41
1	Sc 361.383	1907886.1	1907886.1	96.531 %		15:29:03
1	Y 371.029	1201083.7	1201083.7	96.155 %		15:29:03
1	Ag 328.068†	-102.2	-13.2	-0.1196 µg/L	-0.1196 ppb	15:29:09
1	As 188.979†	-3.5	-0.9	-1.9590 µg/L	-1.9590 ppb	15:29:29
1	B 249.677†	468.8	115.7	5.4568 µg/L	5.4568 ppb	15:29:09
1	Ba 233.527†	-9.2	14.5	0.4029 µg/L	0.4029 ppb	15:29:29
1	Be 313.107†	3772.9	74.7	0.0500 µg/L	0.0500 ppb	15:29:09
1	Cd 226.502†	-125.8	-5.1	-0.1471 µg/L	-0.1471 ppb	15:29:29
1	Co 228.616†	-55.5	-8.2	-0.4375 µg/L	-0.4375 ppb	15:29:29
1	Cr 267.716†	-52.5	47.7	1.0694 µg/L	1.0694 ppb	15:29:29
1	Cu 324.752†	3907.9	148.4	1.0946 µg/L	1.0946 ppb	15:29:09
1	Mn 257.610†	81.3	232.0	0.8283 µg/L	0.8283 ppb	15:29:29
1	Mo 202.031†	13.2	1.1	0.1387 µg/L	0.1387 ppb	15:29:29
1	Ni 231.604†	343.6	24.6	1.4897 µg/L	1.4897 ppb	15:29:29
1	P 214.914†	234.7	23.3	53.663 µg/L	53.663 ppb	15:29:29
1	Pb 220.353†	59.9	0.9	0.2334 µg/L	0.2334 ppb	15:29:29
1	S 181.975 Axial†	27.3	5.1	28.510 µg/L	28.510 ppb	15:29:29
1	Sb 206.836†	26.9	3.8	4.0184 µg/L	4.0184 ppb	15:29:29
1	Se 196.026†	10.0	2.5	3.8853 µg/L	3.8853 ppb	15:29:29
1	SiO2†	13170.0	11254.0	2297.8 µg/L	2297.8 ppb	15:29:09
1	Si 251.611†	13005.7	13190.7	1068.5 µg/L	1068.5 ppb	15:29:09
1	Sn 189.927†	28.9	6.5	3.6700 µg/L	3.6700 ppb	15:29:29
1	Ti 334.940†	979.9	311.2	0.7527 µg/L	0.7527 ppb	15:29:09
1	Tl 190.801†	-23.7	-0.0	-0.0537 µg/L	-0.0537 ppb	15:29:29
1	U 409.014†	-121.3	60.5	5.6158 µg/L	5.6158 ppb	15:29:09
1	V 292.402†	-147.0	-37.0	-0.4333 µg/L	-0.4333 ppb	15:29:09
1	Zn 213.857†	660.5	51.9	1.4492 µg/L	1.4492 ppb	15:29:29
2	Sc RADIAL	74151.3	74151.3	94.5 %		15:28:07
2	Al 396.153Radial†	-1.7	27.7	17.923 µg/L	17.923 ppb	15:28:07
2	Ca 317.933Radial†	282.3	51.7	37.218 µg/L	37.218 ppb	15:28:27
2	Fe 238.204 Radial†	19.9	4.7	62.195 µg/L	62.195 ppb	15:28:27
2	K 766.490 Radial†	556.3	190.0	119.90 µg/L	119.90 ppb	15:28:07
2	Mg 279.077 IEC†	11.2	3.7	38.163 µg/L	38.163 ppb	15:28:27
2	Na 589.592 Radial†	620.8	103.3	27.513 µg/L	27.513 ppb	15:28:07
2	Sr 421.552†	676.3	81.7	0.4888 µg/L	0.4888 ppb	15:28:07
2	Sc 361.383	1914893.0	1914893.0	96.885 %		15:29:35
2	Y 371.029	1205818.6	1205818.6	96.534 %		15:29:35
2	Ag 328.068†	-113.4	-24.5	-0.2185 µg/L	-0.2185 ppb	15:29:40
2	As 188.979†	-2.9	-0.2	-0.4890 µg/L	-0.4890 ppb	15:30:01
2	B 249.677†	459.6	104.5	4.9181 µg/L	4.9181 ppb	15:29:40
2	Ba 233.527†	-13.5	10.0	0.2801 µg/L	0.2801 ppb	15:30:01
2	Be 313.107†	3764.8	52.1	0.0348 µg/L	0.0348 ppb	15:29:40
2	Cd 226.502†	-122.2	-0.9	-0.0305 µg/L	-0.0305 ppb	15:30:01
2	Co 228.616†	-50.5	-2.8	-0.1512 µg/L	-0.1512 ppb	15:30:01
2	Cr 267.716†	-55.6	44.8	1.0030 µg/L	1.0030 ppb	15:30:01
2	Cu 324.752†	3918.7	144.7	1.0694 µg/L	1.0694 ppb	15:29:40
2	Mn 257.610†	79.7	230.1	0.8223 µg/L	0.8223 ppb	15:30:01
2	Mo 202.031†	11.7	-0.5	-0.0590 µg/L	-0.0590 ppb	15:30:01
2	Ni 231.604†	334.4	13.8	0.8356 µg/L	0.8356 ppb	15:30:01
2	P 214.914†	232.0	19.7	45.162 µg/L	45.162 ppb	15:30:01
2	Pb 220.353†	62.5	3.4	0.9328 µg/L	0.9328 ppb	15:30:01

2	S 181.975 Axial†	33.3	11.3	62.596 µg/L	62.596 ppb	15:30:01
2	Sb 206.836†	27.7	4.5	4.7823 µg/L	4.7823 ppb	15:30:01
2	Se 196.026†	6.3	-1.4	-1.9210 µg/L	-1.9210 ppb	15:30:01
2	SiO2†	13054.4	11084.6	2263.2 µg/L	2263.2 ppb	15:29:40
2	Si 251.611†	12894.8	13027.0	1055.2 µg/L	1055.2 ppb	15:29:40
2	Sn 189.927†	24.7	2.0	1.1562 µg/L	1.1562 ppb	15:30:01
2	Ti 334.940†	977.3	304.9	0.7346 µg/L	0.7346 ppb	15:29:40
2	Tl 190.801†	-22.0	1.8	3.0834 µg/L	3.0834 ppb	15:30:01
2	U 409.014†	-65.5	118.6	11.012 µg/L	11.012 ppb	15:29:40
2	V 292.402†	-128.4	-17.2	-0.1899 µg/L	-0.1899 ppb	15:29:40
2	Zn 213.857†	664.0	53.1	1.4825 µg/L	1.4825 ppb	15:30:01
3	Sc RADIAL	74597.1	74597.1	95.1 %		15:28:33
3	Al 396.153Radial†	15.2	45.5	29.469 µg/L	29.469 ppb	15:28:33
3	Ca 317.933Radial†	291.8	59.8	43.076 µg/L	43.076 ppb	15:28:53
3	Fe 238.204 Radial†	17.4	2.0	26.290 µg/L	26.290 ppb	15:28:53
3	K 766.490 Radial†	567.7	198.6	125.29 µg/L	125.29 ppb	15:28:33
3	Mg 279.077 IEC†	8.8	1.1	11.302 µg/L	11.302 ppb	15:28:53
3	Na 589.592 Radial†	620.0	98.6	26.263 µg/L	26.263 ppb	15:28:33
3	Sr 421.552†	662.5	63.0	0.3767 µg/L	0.3767 ppb	15:28:33
3	Sc 361.383	1916579.1	1916579.1	96.971 %		15:30:07
3	Y 371.029	1205973.6	1205973.6	96.547 %		15:30:07
3	Ag 328.068†	-110.9	-21.7	-0.1959 µg/L	-0.1959 ppb	15:30:12
3	As 188.979†	-3.1	-0.5	-1.0448 µg/L	-1.0448 ppb	15:30:33
3	B 249.677†	441.9	85.7	4.0483 µg/L	4.0483 ppb	15:30:12
3	Ba 233.527†	-25.3	-2.1	-0.0603 µg/L	-0.0603 ppb	15:30:33
3	Be 313.107†	3758.7	42.4	0.0283 µg/L	0.0283 ppb	15:30:12
3	Cd 226.502†	-121.1	0.4	0.0084 µg/L	0.0084 ppb	15:30:33
3	Co 228.616†	-46.0	1.9	0.1000 µg/L	0.1000 ppb	15:30:33
3	Cr 267.716†	-75.9	23.8	0.5340 µg/L	0.5340 ppb	15:30:33
3	Cu 324.752†	3912.7	135.0	0.9935 µg/L	0.9935 ppb	15:30:12
3	Mn 257.610†	71.2	221.2	0.7872 µg/L	0.7872 ppb	15:30:33
3	Mo 202.031†	16.5	4.4	0.5325 µg/L	0.5325 ppb	15:30:33
3	Ni 231.604†	323.0	1.6	0.0990 µg/L	0.0990 ppb	15:30:33
3	P 214.914†	226.9	14.1	32.441 µg/L	32.441 ppb	15:30:33
3	Pb 220.353†	62.0	2.8	0.7788 µg/L	0.7788 ppb	15:30:33
3	S 181.975 Axial†	27.4	5.2	28.723 µg/L	28.723 ppb	15:30:33
3	Sb 206.836†	21.1	-2.2	-2.3300 µg/L	-2.3300 ppb	15:30:33
3	Se 196.026†	10.1	2.4	3.7622 µg/L	3.7622 ppb	15:30:33
3	SiO2†	12878.4	10891.3	2223.7 µg/L	2223.7 ppb	15:30:12
3	Si 251.611†	12715.3	12830.1	1039.3 µg/L	1039.3 ppb	15:30:12
3	Sn 189.927†	28.0	5.5	3.0933 µg/L	3.0933 ppb	15:30:33
3	Ti 334.940†	914.0	238.7	0.5768 µg/L	0.5768 ppb	15:30:12
3	Tl 190.801†	-20.8	3.1	5.1915 µg/L	5.1915 ppb	15:30:33
3	U 409.014†	-185.4	-5.0	-0.4709 µg/L	-0.4709 ppb	15:30:12
3	V 292.402†	-129.6	-18.3	-0.2144 µg/L	-0.2144 ppb	15:30:12
3	Zn 213.857†	664.3	52.8	1.4792 µg/L	1.4792 ppb	15:30:33

Mean Data: 1202021501|944077|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1913119.4	96.796 %		0.2332			0.24%
Sc RADIAL	74562.9	95.0 %		0.50			0.53%
Y 371.029	1204292.0	96.412 %		0.2225			0.23%
Ag 328.068†	-19.8	-0.1780 µg/L		0.05181	-0.1780 ppb	0.05181	29.11%
Al 396.153Radial†	37.7	24.421 µg/L		5.9086	24.421 ppb	5.9086	24.19%
As 188.979†	-0.5	-1.1643 µg/L		0.74223	-1.1643 ppb	0.74223	63.75%
B 249.677†	102.0	4.8077 µg/L		0.71071	4.8077 ppb	0.71071	14.78%
Ba 233.527†	7.4	0.2076 µg/L		0.24000	0.2076 ppb	0.24000	115.63%
Be 313.107†	56.4	0.0377 µg/L		0.01114	0.0377 ppb	0.01114	29.58%
Ca 317.933Radial†	55.1	39.669 µg/L		3.0436	39.669 ppb	3.0436	7.67%
Cd 226.502†	-1.8	-0.0564 µg/L		0.08091	-0.0564 ppb	0.08091	143.42%
Co 228.616†	-3.0	-0.1629 µg/L		0.26891	-0.1629 ppb	0.26891	165.09%
Cr 267.716†	38.8	0.8688 µg/L		0.29182	0.8688 ppb	0.29182	33.59%
Cu 324.752†	142.7	1.0525 µg/L		0.05262	1.0525 ppb	0.05262	5.00%
Fe 238.204 Radial†	3.4	44.520 µg/L		17.9588	44.520 ppb	17.9588	40.34%
K 766.490 Radial†	192.0	121.13 µg/L		3.693	121.13 ppb	3.693	3.05%
Mg 279.077 IEC†	1.7	17.833 µg/L		17.9779	17.833 ppb	17.9779	100.81%
Mn 257.610†	227.8	0.8126 µg/L		0.02218	0.8126 ppb	0.02218	2.73%
Mo 202.031†	1.7	0.2041 µg/L		0.30112	0.2041 ppb	0.30112	147.55%
Na 589.592 Radial†	103.1	27.460 µg/L		1.1710	27.460 ppb	1.1710	4.26%

Ni 231.604†	13.3	0.8081 µg/L	0.69576	0.8081 ppb	0.69576	86.10%
P 214.914†	19.0	43.755 µg/L	10.6812	43.755 ppb	10.6812	24.41%
Pb 220.353†	2.3	0.6483 µg/L	0.36746	0.6483 ppb	0.36746	56.68%
S 181.975 Axial†	7.2	39.943 µg/L	19.6187	39.943 ppb	19.6187	49.12%
Sb 206.836†	2.0	2.1569 µg/L	3.90447	2.1569 ppb	3.90447	181.02%
Se 196.026†	1.2	1.9088 µg/L	3.31730	1.9088 ppb	3.31730	173.79%
SiO2†	11076.6	2261.6 µg/L	37.05	2261.6 ppb	37.05	1.64%
Si 251.611†	13015.9	1054.3 µg/L	14.62	1054.3 ppb	14.62	1.39%
Sn 189.927†	4.7	2.6398 µg/L	1.31680	2.6398 ppb	1.31680	49.88%
Sr 421.552†	75.2	0.4497 µg/L	0.06330	0.4497 ppb	0.06330	14.07%
Ti 334.940†	284.9	0.6880 µg/L	0.09672	0.6880 ppb	0.09672	14.06%
Tl 190.801†	1.6	2.7404 µg/L	2.63939	2.7404 ppb	2.63939	96.31%
U 409.014†	58.0	5.3856 µg/L	5.74486	5.3856 ppb	5.74486	106.67%
V 292.402†	-24.2	-0.2792 µg/L	0.13398	-0.2792 ppb	0.13398	47.98%
Zn 213.857†	52.6	1.4703 µg/L	0.01836	1.4703 ppb	0.01836	1.25%

Sequence No.: 25

Sample ID: 1202021502|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 314

Date Collected: 1/29/2010 15:30:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021502|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76266.3	76266.3	97.2 %		15:31:15
1	Al 396.153Radial†	7858.2	8115.8	5245.4 µg/L	5245.4 ppb	15:31:15
1	Ca 317.933Radial†	7166.0	7126.9	5135.2 µg/L	5135.2 ppb	15:31:15
1	Fe 238.204 Radial†	405.4	400.8	5318.8 µg/L	5318.8 ppb	15:31:36
1	K 766.490 Radial†	8770.9	8626.8	5442.7 µg/L	5442.7 ppb	15:31:15
1	Mg 279.077 IEC†	518.0	524.8	5389.6 µg/L	5389.6 ppb	15:31:36
1	Na 589.592 Radial†	19365.8	19374.3	5158.1 µg/L	5158.1 ppb	15:31:15
1	Sr 421.552†	86458.1	88334.1	528.41 µg/L	528.41 ppb	15:31:15
1	Sc 361.383	1922194.3	1922194.3	97.255 %		15:32:39
1	Y 371.029	1208569.9	1208569.9	96.754 %		15:32:39
1	Ag 328.068†	57066.2	58769.7	534.40 µg/L	534.40 ppb	15:32:45
1	As 188.979†	242.5	252.1	548.43 µg/L	548.43 ppb	15:33:05
1	B 249.677†	11308.6	11257.8	531.34 µg/L	531.34 ppb	15:32:45
1	Ba 233.527†	18873.8	19430.5	543.73 µg/L	543.73 ppb	15:32:45
1	Be 313.107†	775359.0	793412.4	533.63 µg/L	533.63 ppb	15:32:39
1	Cd 226.502†	17923.1	18554.3	525.65 µg/L	525.65 ppb	15:32:45
1	Co 228.616†	9682.2	10004.8	531.58 µg/L	531.58 ppb	15:32:45
1	Cr 267.716†	23439.5	24203.3	542.66 µg/L	542.66 ppb	15:32:45
1	Cu 324.752†	76525.1	74785.4	549.09 µg/L	549.09 ppb	15:32:45
1	Mn 257.610†	146053.8	150324.5	533.32 µg/L	533.32 ppb	15:32:45
1	Mo 202.031†	4294.3	4402.9	533.60 µg/L	533.60 ppb	15:33:05
1	Ni 231.604†	9056.1	8980.3	543.18 µg/L	543.18 ppb	15:32:45
1	P 214.914†	494.5	288.7	613.12 µg/L	613.12 ppb	15:33:05
1	Pb 220.353†	1977.7	1972.3	553.41 µg/L	553.41 ppb	15:33:05
1	S 181.975 Axial†	983.3	987.9	5492.5 µg/L	5492.5 ppb	15:33:05
1	Sb 206.836†	536.2	527.3	559.83 µg/L	559.83 ppb	15:33:05
1	Se 196.026†	334.5	336.0	525.05 µg/L	525.05 ppb	15:33:05
1	SiO2†	66924.3	66424.1	13562 µg/L	13562 ppb	15:32:45
1	Si 251.611†	76053.7	77918.1	6311.7 µg/L	6311.7 ppb	15:32:45
1	Sn 189.927†	1023.8	1029.2	582.78 µg/L	582.78 ppb	15:33:05
1	Ti 334.940†	217382.8	222815.3	538.27 µg/L	538.27 ppb	15:32:39
1	Tl 190.801†	292.6	325.4	546.62 µg/L	546.62 ppb	15:33:05
1	U 409.014†	5682.8	6029.5	559.37 µg/L	559.37 ppb	15:32:45
1	V 292.402†	43964.6	45320.9	551.55 µg/L	551.55 ppb	15:32:45
1	Zn 213.857†	18957.5	18860.4	526.33 µg/L	526.33 ppb	15:32:45
2	Sc RADIAL	76905.4	76905.4	98.0 %		15:31:41
2	Al 396.153Radial†	7793.0	7982.1	5158.8 µg/L	5158.8 ppb	15:31:41
2	Ca 317.933Radial†	7109.0	7007.4	5049.2 µg/L	5049.2 ppb	15:31:41
2	Fe 238.204 Radial†	408.2	400.2	5310.9 µg/L	5310.9 ppb	15:32:02
2	K 766.490 Radial†	8706.6	8486.2	5354.0 µg/L	5354.0 ppb	15:31:41
2	Mg 279.077 IEC†	512.8	515.1	5290.0 µg/L	5290.0 ppb	15:32:02
2	Na 589.592 Radial†	19245.0	19085.5	5081.2 µg/L	5081.2 ppb	15:31:41
2	Sr 421.552†	85794.1	86917.1	519.93 µg/L	519.93 ppb	15:31:41
2	Sc 361.383	1922846.1	1922846.1	97.288 %		15:33:12
2	Y 371.029	1208940.2	1208940.2	96.784 %		15:33:12
2	Ag 328.068†	57141.6	58827.3	534.93 µg/L	534.93 ppb	15:33:18
2	As 188.979†	246.7	256.3	557.55 µg/L	557.55 ppb	15:33:38
2	B 249.677†	11370.1	11317.2	534.16 µg/L	534.16 ppb	15:33:18
2	Ba 233.527†	18918.9	19470.4	544.85 µg/L	544.85 ppb	15:33:18
2	Be 313.107†	778206.3	796068.8	535.42 µg/L	535.42 ppb	15:33:12
2	Cd 226.502†	17996.4	18623.5	527.61 µg/L	527.61 ppb	15:33:18
2	Co 228.616†	9680.3	9999.5	531.30 µg/L	531.30 ppb	15:33:18
2	Cr 267.716†	23476.8	24233.5	543.34 µg/L	543.34 ppb	15:33:18
2	Cu 324.752†	76772.0	75012.5	550.76 µg/L	550.76 ppb	15:33:18
2	Mn 257.610†	146345.2	150573.1	534.21 µg/L	534.21 ppb	15:33:18
2	Mo 202.031†	4288.8	4395.8	532.73 µg/L	532.73 ppb	15:33:38
2	Ni 231.604†	9086.5	9008.4	544.88 µg/L	544.88 ppb	15:33:18
2	P 214.914†	491.6	285.5	605.55 µg/L	605.55 ppb	15:33:38
2	Pb 220.353†	1974.8	1968.7	552.39 µg/L	552.39 ppb	15:33:38

2	S 181.975 Axial†	982.4	986.7	5485.5 µg/L	5485.5 ppb	15:33:38
2	Sb 206.836†	528.8	519.6	551.64 µg/L	551.64 ppb	15:33:38
2	Se 196.026†	337.6	339.1	529.67 µg/L	529.67 ppb	15:33:38
2	SiO2†	67124.3	66606.3	13599 µg/L	13599 ppb	15:33:18
2	Si 251.611†	76363.0	78209.6	6335.3 µg/L	6335.3 ppb	15:33:18
2	Sn 189.927†	1024.9	1030.0	583.21 µg/L	583.21 ppb	15:33:38
2	Ti 334.940†	217843.6	223213.2	539.24 µg/L	539.24 ppb	15:33:12
2	Tl 190.801†	293.2	325.9	547.51 µg/L	547.51 ppb	15:33:38
2	U 409.014†	5658.8	6002.8	556.89 µg/L	556.89 ppb	15:33:18
2	V 292.402†	44070.3	45414.3	552.66 µg/L	552.66 ppb	15:33:18
2	Zn 213.857†	18939.4	18835.2	525.61 µg/L	525.61 ppb	15:33:18
3	Sc RADIAL	76338.0	76338.0	97.3 %		15:32:07
3	Al 396.153Radial†	7872.6	8123.1	5250.6 µg/L	5250.6 ppb	15:32:07
3	Ca 317.933Radial†	7156.6	7110.3	5123.3 µg/L	5123.3 ppb	15:32:07
3	Fe 238.204 Radial†	401.5	396.5	5260.9 µg/L	5260.9 ppb	15:32:28
3	K 766.490 Radial†	8723.7	8569.9	5406.8 µg/L	5406.8 ppb	15:32:07
3	Mg 279.077 IEC†	510.3	516.4	5302.9 µg/L	5302.9 ppb	15:32:28
3	Na 589.592 Radial†	19406.1	19397.1	5164.2 µg/L	5164.2 ppb	15:32:07
3	Sr 421.552†	86573.2	88368.9	528.62 µg/L	528.62 ppb	15:32:07
3	Sc 361.383	1923265.5	1923265.5	97.309 %		15:33:45
3	Y 371.029	1209398.0	1209398.0	96.821 %		15:33:45
3	Ag 328.068†	56550.5	58207.0	529.24 µg/L	529.24 ppb	15:33:50
3	As 188.979†	236.0	245.2	533.50 µg/L	533.50 ppb	15:34:11
3	B 249.677†	11183.0	11122.3	524.93 µg/L	524.93 ppb	15:33:50
3	Ba 233.527†	18436.2	18970.1	530.85 µg/L	530.85 ppb	15:33:50
3	Be 313.107†	771536.2	789039.8	530.69 µg/L	530.69 ppb	15:33:45
3	Cd 226.502†	17633.1	18246.1	516.90 µg/L	516.90 ppb	15:33:50
3	Co 228.616†	9423.7	9733.6	517.14 µg/L	517.14 ppb	15:33:50
3	Cr 267.716†	22816.3	23549.4	528.00 µg/L	528.00 ppb	15:33:50
3	Cu 324.752†	75149.7	73328.1	538.40 µg/L	538.40 ppb	15:33:50
3	Mn 257.610†	142675.6	146769.2	520.72 µg/L	520.72 ppb	15:33:50
3	Mo 202.031†	4083.0	4183.3	506.99 µg/L	506.99 ppb	15:34:11
3	Ni 231.604†	8813.3	8725.7	527.78 µg/L	527.78 ppb	15:33:50
3	P 214.914†	482.9	276.4	585.71 µg/L	585.71 ppb	15:34:11
3	Pb 220.353†	1898.1	1889.4	530.11 µg/L	530.11 ppb	15:34:11
3	S 181.975 Axial†	955.7	959.0	5331.5 µg/L	5331.5 ppb	15:34:11
3	Sb 206.836†	512.4	502.6	533.41 µg/L	533.41 ppb	15:34:11
3	Se 196.026†	320.2	321.1	502.54 µg/L	502.54 ppb	15:34:11
3	SiO2†	65927.7	65361.6	13345 µg/L	13345 ppb	15:33:50
3	Si 251.611†	74945.2	76735.4	6215.9 µg/L	6215.9 ppb	15:33:50
3	Sn 189.927†	978.6	982.2	556.28 µg/L	556.28 ppb	15:34:11
3	Ti 334.940†	216157.3	221431.4	534.93 µg/L	534.93 ppb	15:33:45
3	Tl 190.801†	278.2	310.4	521.61 µg/L	521.61 ppb	15:34:11
3	U 409.014†	5528.6	5867.7	544.34 µg/L	544.34 ppb	15:33:50
3	V 292.402†	42981.6	44285.6	538.83 µg/L	538.83 ppb	15:33:50
3	Zn 213.857†	18532.5	18412.7	513.84 µg/L	513.84 ppb	15:33:50

Mean Data: 1202021502|944077|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1922768.6	97.284 %	0.0273			0.03%
Sc RADIAL	76503.2	97.5 %	0.45			0.46%
Y 371.029	1208969.4	96.786 %	0.0332			0.03%
Ag 328.068†	58601.3	532.86 µg/L	3.145	532.86 ppb	3.145	0.59%
Al 396.153Radial†	8073.7	5218.3 µg/L	51.59	5218.3 ppb	51.59	0.99%
As 188.979†	251.2	546.50 µg/L	12.140	546.50 ppb	12.140	2.22%
B 249.677†	11232.5	530.15 µg/L	4.730	530.15 ppb	4.730	0.89%
Ba 233.527†	19290.3	539.81 µg/L	7.780	539.81 ppb	7.780	1.44%
Be 313.107†	792840.3	533.24 µg/L	2.387	533.24 ppb	2.387	0.45%
Ca 317.933Radial†	7081.5	5102.6 µg/L	46.61	5102.6 ppb	46.61	0.91%
Cd 226.502†	18474.6	523.39 µg/L	5.699	523.39 ppb	5.699	1.09%
Co 228.616†	9912.7	526.67 µg/L	8.258	526.67 ppb	8.258	1.57%
Cr 267.716†	23995.4	538.00 µg/L	8.665	538.00 ppb	8.665	1.61%
Cu 324.752†	74375.3	546.08 µg/L	6.706	546.08 ppb	6.706	1.23%
Fe 238.204 Radial†	399.2	5296.9 µg/L	31.39	5296.9 ppb	31.39	0.59%
K 766.490 Radial†	8561.0	5401.2 µg/L	44.63	5401.2 ppb	44.63	0.83%
Mg 279.077 IEC†	518.8	5327.5 µg/L	54.14	5327.5 ppb	54.14	1.02%
Mn 257.610†	149222.3	529.41 µg/L	7.546	529.41 ppb	7.546	1.43%
Mo 202.031†	4327.3	524.44 µg/L	15.118	524.44 ppb	15.118	2.88%
Na 589.592 Radial†	19285.6	5134.5 µg/L	46.25	5134.5 ppb	46.25	0.90%

Ni 231.604†	8904.8	538.61 µg/L	9.423	538.61 ppb	9.423	1.75%
P 214.914†	283.5	601.46 µg/L	14.152	601.46 ppb	14.152	2.35%
Pb 220.353†	1943.5	545.30 µg/L	13.165	545.30 ppb	13.165	2.41%
S 181.975 Axial†	977.9	5436.5 µg/L	91.03	5436.5 ppb	91.03	1.67%
Sb 206.836†	516.5	548.29 µg/L	13.527	548.29 ppb	13.527	2.47%
Se 196.026†	332.1	519.09 µg/L	14.517	519.09 ppb	14.517	2.80%
SiO2†	66130.7	13502 µg/L	137.3	13502 ppb	137.3	1.02%
Si 251.611†	77621.1	6287.7 µg/L	63.24	6287.7 ppb	63.24	1.01%
Sn 189.927†	1013.8	574.09 µg/L	15.427	574.09 ppb	15.427	2.69%
Sr 421.552†	87873.4	525.65 µg/L	4.955	525.65 ppb	4.955	0.94%
Ti 334.940†	222486.6	537.48 µg/L	2.260	537.48 ppb	2.260	0.42%
Tl 190.801†	320.6	538.58 µg/L	14.703	538.58 ppb	14.703	2.73%
U 409.014†	5966.7	553.53 µg/L	8.059	553.53 ppb	8.059	1.46%
V 292.402†	45007.0	547.68 µg/L	7.683	547.68 ppb	7.683	1.40%
Zn 213.857†	18702.8	521.93 µg/L	7.015	521.93 ppb	7.015	1.34%

Sequence No.: 26

Sample ID: 1202021503|944077|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 315

Date Collected: 1/29/2010 15:34:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021503|944077|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	75001.2	75001.2	95.6 %		15:34:53
1	Al 396.153Radial†	-17.0	11.7	7.5112 µg/L	7.5112 ppb	15:34:53
1	Ca 317.933Radial†	287.5	53.6	38.629 µg/L	38.629 ppb	15:35:13
1	Fe 238.204 Radial†	18.1	2.6	34.487 µg/L	34.487 ppb	15:35:13
1	K 766.490 Radial†	396.4	16.1	10.169 µg/L	10.169 ppb	15:34:53
1	Mg 279.077 IEC†	5.6	-2.3	-23.175 µg/L	-23.175 ppb	15:35:13
1	Na 589.592 Radial†	357.6	-179.5	-47.778 µg/L	-47.778 ppb	15:34:53
1	Sr 421.552†	654.4	50.8	0.3036 µg/L	0.3036 ppb	15:34:53
1	Sc 361.383	1924671.9	1924671.9	97.380 %		15:36:15
1	Y 371.029	1214178.2	1214178.2	97.203 %		15:36:15
1	Ag 328.068†	-96.6	-6.6	-0.0552 µg/L	-0.0552 ppb	15:36:21
1	As 188.979†	-1.7	0.9	2.0235 µg/L	2.0235 ppb	15:36:41
1	B 249.677†	233.2	-130.5	-6.1959 µg/L	-6.1959 ppb	15:36:41
1	Ba 233.527†	-15.5	8.0	0.2246 µg/L	0.2246 ppb	15:36:41
1	Be 313.107†	3998.6	272.4	0.1832 µg/L	0.1832 ppb	15:36:21
1	Cd 226.502†	-103.0	19.5	0.5496 µg/L	0.5496 ppb	15:36:41
1	Co 228.616†	-42.7	5.5	0.2921 µg/L	0.2921 ppb	15:36:41
1	Cr 267.716†	-38.9	62.2	1.3941 µg/L	1.3941 ppb	15:36:21
1	Cu 324.752†	3823.7	26.6	0.2000 µg/L	0.2000 ppb	15:36:21
1	Mn 257.610†	61.6	211.1	0.7538 µg/L	0.7538 ppb	15:36:41
1	Mo 202.031†	29.8	18.1	2.1903 µg/L	2.1903 ppb	15:36:41
1	Ni 231.604†	333.4	11.0	0.6633 µg/L	0.6633 ppb	15:36:41
1	P 214.914†	227.6	13.9	32.025 µg/L	32.025 ppb	15:36:41
1	Pb 220.353†	64.8	5.4	1.5317 µg/L	1.5317 ppb	15:36:41
1	S 181.975 Axial†	20.0	-2.6	-14.296 µg/L	-14.296 ppb	15:36:41
1	Sb 206.836†	25.0	1.7	1.8044 µg/L	1.8044 ppb	15:36:41
1	Se 196.026†	8.9	1.1	1.8797 µg/L	1.8797 ppb	15:36:41
1	SiO2†	4519.3	2251.5	459.70 µg/L	459.70 ppb	15:36:21
1	Si 251.611†	2887.5	2682.7	217.31 µg/L	217.31 ppb	15:36:21
1	Sn 189.927†	24.1	1.3	0.7306 µg/L	0.7306 ppb	15:36:41
1	Ti 334.940†	766.2	82.9	0.2028 µg/L	0.2028 ppb	15:36:21
1	Tl 190.801†	-23.9	-0.0	-0.0310 µg/L	-0.0310 ppb	15:36:41
1	U 409.014†	-257.5	-78.2	-7.2787 µg/L	-7.2787 ppb	15:36:21
1	V 292.402†	-83.3	29.8	0.3727 µg/L	0.3727 ppb	15:36:21
1	Zn 213.857†	669.0	54.8	1.5364 µg/L	1.5364 ppb	15:36:41
2	Sc RADIAL	74370.9	74370.9	94.8 %		15:35:18
2	Al 396.153Radial†	-28.8	-0.9	-0.6003 µg/L	-0.6003 ppb	15:35:18
2	Ca 317.933Radial†	295.1	64.3	46.301 µg/L	46.301 ppb	15:35:39
2	Fe 238.204 Radial†	17.6	2.2	29.514 µg/L	29.514 ppb	15:35:39
2	K 766.490 Radial†	430.3	55.3	34.911 µg/L	34.911 ppb	15:35:18
2	Mg 279.077 IEC†	9.1	1.4	14.802 µg/L	14.802 ppb	15:35:39
2	Na 589.592 Radial†	403.8	-127.5	-33.952 µg/L	-33.952 ppb	15:35:18
2	Sr 421.552†	645.7	47.3	0.2831 µg/L	0.2831 ppb	15:35:18
2	Sc 361.383	1924422.1	1924422.1	97.367 %		15:36:47
2	Y 371.029	1213550.2	1213550.2	97.153 %		15:36:47
2	Ag 328.068†	-97.6	-7.7	-0.0683 µg/L	-0.0683 ppb	15:36:53
2	As 188.979†	-3.9	-1.2	-2.7246 µg/L	-2.7246 ppb	15:37:13
2	B 249.677†	204.3	-160.1	-7.5987 µg/L	-7.5987 ppb	15:37:13
2	Ba 233.527†	-20.3	3.1	0.0872 µg/L	0.0872 ppb	15:37:13
2	Be 313.107†	3973.7	247.4	0.1663 µg/L	0.1663 ppb	15:36:53
2	Cd 226.502†	-116.0	6.2	0.1723 µg/L	0.1723 ppb	15:37:13
2	Co 228.616†	-46.9	1.2	0.0633 µg/L	0.0633 ppb	15:37:13
2	Cr 267.716†	-53.5	47.2	1.0570 µg/L	1.0570 ppb	15:36:53
2	Cu 324.752†	3791.4	-6.1	-0.0403 µg/L	-0.0403 ppb	15:36:53
2	Mn 257.610†	15.5	163.7	0.5837 µg/L	0.5837 ppb	15:37:13
2	Mo 202.031†	22.0	10.0	1.2173 µg/L	1.2173 ppb	15:37:13
2	Ni 231.604†	321.5	-1.2	-0.0740 µg/L	-0.0740 ppb	15:37:13
2	P 214.914†	221.0	7.1	16.377 µg/L	16.377 ppb	15:37:13
2	Pb 220.353†	58.8	-0.8	-0.2014 µg/L	-0.2014 ppb	15:37:13

2	S 181.975 Axial†	29.1	6.7	37.379 µg/L	37.379 ppb	15:37:13
2	Sb 206.836†	22.5	-0.9	-0.9968 µg/L	-0.9968 ppb	15:37:13
2	Se 196.026†	4.8	-3.0	-4.4077 µg/L	-4.4077 ppb	15:37:13
2	SiO2†	4518.6	2251.4	459.68 µg/L	459.68 ppb	15:36:53
2	Si 251.611†	2882.5	2678.1	216.94 µg/L	216.94 ppb	15:36:53
2	Sn 189.927†	21.3	-1.6	-0.8621 µg/L	-0.8621 ppb	15:37:13
2	Ti 334.940†	823.3	141.7	0.3421 µg/L	0.3421 ppb	15:36:53
2	Tl 190.801†	-24.3	-0.4	-0.6501 µg/L	-0.6501 ppb	15:37:13
2	U 409.014†	-315.4	-137.7	-12.806 µg/L	-12.806 ppb	15:36:53
2	V 292.402†	-121.0	-9.0	-0.1080 µg/L	-0.1080 ppb	15:36:53
2	Zn 213.857†	657.3	42.8	1.2024 µg/L	1.2024 ppb	15:37:13
3	Sc RADIAL	73884.5	73884.5	94.1 %		15:35:44
3	Al 396.153Radial†	-18.1	10.3	6.6353 µg/L	6.6353 ppb	15:35:44
3	Ca 317.933Radial†	294.8	66.0	47.547 µg/L	47.547 ppb	15:36:05
3	Fe 238.204 Radial†	16.4	1.1	14.887 µg/L	14.887 ppb	15:36:05
3	K 766.490 Radial†	417.6	44.8	28.288 µg/L	28.288 ppb	15:35:44
3	Mg 279.077 IEC†	11.1	3.6	36.939 µg/L	36.939 ppb	15:36:05
3	Na 589.592 Radial†	385.0	-144.7	-38.523 µg/L	-38.523 ppb	15:35:44
3	Sr 421.552†	679.2	87.4	0.5230 µg/L	0.5230 ppb	15:35:44
3	Sc 361.383	1929033.3	1929033.3	97.601 %		15:37:19
3	Y 371.029	1216578.3	1216578.3	97.396 %		15:37:19
3	Ag 328.068†	-161.0	-72.3	-0.6519 µg/L	-0.6519 ppb	15:37:25
3	As 188.979†	-4.7	-2.1	-4.5964 µg/L	-4.5964 ppb	15:37:45
3	B 249.677†	204.9	-160.0	-7.5861 µg/L	-7.5861 ppb	15:37:45
3	Ba 233.527†	-25.6	-2.2	-0.0624 µg/L	-0.0624 ppb	15:37:45
3	Be 313.107†	3985.5	249.7	0.1679 µg/L	0.1679 ppb	15:37:25
3	Cd 226.502†	-103.4	19.4	0.5473 µg/L	0.5473 ppb	15:37:45
3	Co 228.616†	-48.1	0.1	0.0023 µg/L	0.0023 ppb	15:37:45
3	Cr 267.716†	-46.9	54.1	1.2112 µg/L	1.2112 ppb	15:37:25
3	Cu 324.752†	3823.6	17.7	0.1316 µg/L	0.1316 ppb	15:37:25
3	Mn 257.610†	-22.1	125.2	0.4443 µg/L	0.4443 ppb	15:37:45
3	Mo 202.031†	14.7	2.5	0.3041 µg/L	0.3041 ppb	15:37:45
3	Ni 231.604†	324.8	1.4	0.0820 µg/L	0.0820 ppb	15:37:45
3	P 214.914†	220.0	5.6	12.818 µg/L	12.818 ppb	15:37:45
3	Pb 220.353†	63.9	4.3	1.1957 µg/L	1.1957 ppb	15:37:45
3	S 181.975 Axial†	26.0	3.5	19.368 µg/L	19.368 ppb	15:37:45
3	Sb 206.836†	21.3	-2.2	-2.3627 µg/L	-2.3627 ppb	15:37:45
3	Se 196.026†	5.8	-2.0	-2.9583 µg/L	-2.9583 ppb	15:37:45
3	SiO2†	4418.0	2137.2	436.37 µg/L	436.37 ppb	15:37:25
3	Si 251.611†	2796.1	2582.4	209.18 µg/L	209.18 ppb	15:37:25
3	Sn 189.927†	24.9	2.1	1.1790 µg/L	1.1790 ppb	15:37:45
3	Ti 334.940†	856.4	173.6	0.4176 µg/L	0.4176 ppb	15:37:25
3	Tl 190.801†	-23.5	0.5	0.7761 µg/L	0.7761 ppb	15:37:45
3	U 409.014†	-173.9	8.0	0.7429 µg/L	0.7429 ppb	15:37:25
3	V 292.402†	-113.3	-0.8	-0.0026 µg/L	-0.0026 ppb	15:37:25
3	Zn 213.857†	663.0	47.1	1.3202 µg/L	1.3202 ppb	15:37:45

Mean Data: 1202021503|944077|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1926042.4	97.449 %	0.1312			0.13%
Sc RADIAL	74418.9	94.8 %	0.71			0.75%
Y 371.029	1214768.9	97.251 %	0.1279			0.13%
Ag 328.068†	-28.9	-0.2584 µg/L	0.34078	-0.2584 ppb	0.34078	131.86%
Al 396.153Radial†	7.0	4.5154 µg/L	4.45190	4.5154 ppb	4.45190	98.59%
As 188.979†	-0.8	-1.7658 µg/L	3.41253	-1.7658 ppb	3.41253	193.25%
B 249.677†	-150.2	-7.1269 µg/L	0.80627	-7.1269 ppb	0.80627	11.31%
Ba 233.527†	3.0	0.0831 µg/L	0.14355	0.0831 ppb	0.14355	172.65%
Be 313.107†	256.5	0.1725 µg/L	0.00936	0.1725 ppb	0.00936	5.42%
Ca 317.933Radial†	61.3	44.159 µg/L	4.8294	44.159 ppb	4.8294	10.94%
Cd 226.502†	15.0	0.4231 µg/L	0.21716	0.4231 ppb	0.21716	51.33%
Co 228.616†	2.2	0.1192 µg/L	0.15277	0.1192 ppb	0.15277	128.14%
Cr 267.716†	54.5	1.2208 µg/L	0.16874	1.2208 ppb	0.16874	13.82%
Cu 324.752†	12.7	0.0971 µg/L	0.12382	0.0971 ppb	0.12382	127.52%
Fe 238.204 Radial†	2.0	26.296 µg/L	10.1886	26.296 ppb	10.1886	38.75%
K 766.490 Radial†	38.8	24.456 µg/L	12.8085	24.456 ppb	12.8085	52.37%
Mg 279.077 IEC†	0.9	9.5218 µg/L	30.40261	9.5218 ppb	30.40261	319.30%
Mn 257.610†	166.7	0.5939 µg/L	0.15502	0.5939 ppb	0.15502	26.10%
Mo 202.031†	10.2	1.2372 µg/L	0.94323	1.2372 ppb	0.94323	76.24%
Na 589.592 Radial†	-150.6	-40.085 µg/L	7.0440	-40.085 ppb	7.0440	17.57%

Ni 231.604†	3.7	0.2238 µg/L	0.38859	0.2238 ppb	0.38859	173.65%
P 214.914†	8.9	20.407 µg/L	10.2181	20.407 ppb	10.2181	50.07%
Pb 220.353†	3.0	0.8420 µg/L	0.91909	0.8420 ppb	0.91909	109.16%
S 181.975 Axial†	2.5	14.150 µg/L	26.2296	14.150 ppb	26.2296	185.37%
Sb 206.836†	-0.5	-0.5184 µg/L	2.12439	-0.5184 ppb	2.12439	409.82%
Se 196.026†	-1.3	-1.8288 µg/L	3.29239	-1.8288 ppb	3.29239	180.03%
SiO2†	2213.4	451.92 µg/L	13.465	451.92 ppb	13.465	2.98%
Si 251.611†	2647.7	214.48 µg/L	4.588	214.48 ppb	4.588	2.14%
Sn 189.927†	0.6	0.3492 µg/L	1.07265	0.3492 ppb	1.07265	307.20%
Sr 421.552†	61.8	0.3699 µg/L	0.13299	0.3699 ppb	0.13299	35.96%
Ti 334.940†	132.7	0.3208 µg/L	0.10893	0.3208 ppb	0.10893	33.95%
Tl 190.801†	0.0	0.0317 µg/L	0.71517	0.0317 ppb	0.71517	>999.9%
U 409.014†	-69.3	-6.4471 µg/L	6.81244	-6.4471 ppb	6.81244	105.67%
V 292.402†	6.7	0.0874 µg/L	0.25265	0.0874 ppb	0.25265	289.24%
Zn 213.857†	48.2	1.3530 µg/L	0.16939	1.3530 ppb	0.16939	12.52%

Sequence No.: 27

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 15:37:54

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	75722.6	75722.6	96.5 %		15:38:31
1	Al 396.153Radial†	7691.7	8001.4	5171.1 µg/L	5171.1 ppb	15:38:31
1	Ca 317.933Radial†	7056.8	7066.6	5091.8 µg/L	5091.8 ppb	15:38:31
1	Fe 238.204 Radial†	393.4	391.3	5193.7 µg/L	5193.7 ppb	15:38:52
1	K 766.490 Radial†	8517.2	8428.7	5317.7 µg/L	5317.7 ppb	15:38:31
1	Mg 279.077 IEC†	503.0	513.2	5270.1 µg/L	5270.1 ppb	15:38:52
1	Na 589.592 Radial†	37340.3	38146.5	10156 µg/L	10156 ppb	15:38:31
1	Sr 421.552†	85157.4	87624.9	524.16 µg/L	524.16 ppb	15:38:31
1	Sc 361.383	1896208.6	1896208.6	95.940 %		15:39:55
1	Y 371.029	1190761.9	1190761.9	95.329 %		15:39:55
1	Ag 328.068†	57587.5	60117.2	546.58 µg/L	546.58 ppb	15:40:00
1	As 188.979†	238.0	250.7	545.52 µg/L	545.52 ppb	15:40:21
1	B 249.677†	10907.6	10999.3	519.17 µg/L	519.17 ppb	15:40:00
1	Ba 233.527†	18629.7	19442.0	544.06 µg/L	544.06 ppb	15:40:00
1	Be 313.107†	768416.8	797101.8	536.11 µg/L	536.11 ppb	15:39:55
1	Cd 226.502†	18155.9	19049.5	539.70 µg/L	539.70 ppb	15:40:00
1	Co 228.616†	9763.0	10225.4	543.32 µg/L	543.32 ppb	15:40:00
1	Cr 267.716†	23403.8	24496.4	549.23 µg/L	549.23 ppb	15:40:00
1	Cu 324.752†	75792.5	75100.0	551.38 µg/L	551.38 ppb	15:40:00
1	Mn 257.610†	146818.3	153179.4	543.43 µg/L	543.43 ppb	15:39:55
1	Mo 202.031†	4314.4	4484.4	543.46 µg/L	543.46 ppb	15:40:21
1	Ni 231.604†	9006.4	9056.1	547.75 µg/L	547.75 ppb	15:40:00
1	P 214.914†	1369.1	1207.3	2729.5 µg/L	2729.5 ppb	15:40:21
1	Pb 220.353†	1963.6	1985.5	557.15 µg/L	557.15 ppb	15:40:21
1	S 181.975 Axial†	211.9	197.7	1099.3 µg/L	1099.3 ppb	15:40:21
1	Sb 206.836†	518.8	516.7	548.72 µg/L	548.72 ppb	15:40:21
1	Se 196.026†	355.4	362.5	564.46 µg/L	564.46 ppb	15:40:21
1	SiO2†	29709.7	28577.6	5834.9 µg/L	5834.9 ppb	15:40:00
1	Si 251.611†	32512.6	33606.1	2722.2 µg/L	2722.2 ppb	15:40:00
1	Sn 189.927†	975.1	992.9	562.26 µg/L	562.26 ppb	15:40:21
1	Ti 334.940†	215754.6	224181.3	541.58 µg/L	541.58 ppb	15:39:55
1	Tl 190.801†	292.6	329.5	553.40 µg/L	553.40 ppb	15:40:21
1	U 409.014†	5397.6	5812.2	539.20 µg/L	539.20 ppb	15:40:00
1	V 292.402†	43652.2	45614.9	555.15 µg/L	555.15 ppb	15:40:00
1	Zn 213.857†	19312.1	19497.2	544.21 µg/L	544.21 ppb	15:40:00
2	Sc RADIAL	75245.5	75245.5	95.9 %		15:38:57
2	Al 396.153Radial†	7681.2	8040.9	5196.7 µg/L	5196.7 ppb	15:38:57
2	Ca 317.933Radial†	7010.6	7064.8	5090.5 µg/L	5090.5 ppb	15:38:57
2	Fe 238.204 Radial†	398.2	399.0	5294.3 µg/L	5294.3 ppb	15:39:18
2	K 766.490 Radial†	8540.1	8508.6	5368.1 µg/L	5368.1 ppb	15:38:57
2	Mg 279.077 IEC†	508.2	521.9	5359.6 µg/L	5359.6 ppb	15:39:18
2	Na 589.592 Radial†	37253.1	38301.0	10197 µg/L	10197 ppb	15:38:57
2	Sr 421.552†	84805.5	87817.4	525.32 µg/L	525.32 ppb	15:38:57
2	Sc 361.383	1886038.8	1886038.8	95.425 %		15:40:27
2	Y 371.029	1185607.9	1185607.9	94.916 %		15:40:27
2	Ag 328.068†	57209.1	60044.2	545.92 µg/L	545.92 ppb	15:40:33
2	As 188.979†	241.3	255.6	556.14 µg/L	556.14 ppb	15:40:53
2	B 249.677†	10849.7	10999.9	519.15 µg/L	519.15 ppb	15:40:33
2	Ba 233.527†	18460.7	19369.7	542.04 µg/L	542.04 ppb	15:40:33
2	Be 313.107†	766305.9	799208.5	537.53 µg/L	537.53 ppb	15:40:27
2	Cd 226.502†	17932.6	18917.6	535.94 µg/L	535.94 ppb	15:40:33
2	Co 228.616†	9690.8	10204.7	542.22 µg/L	542.22 ppb	15:40:33
2	Cr 267.716†	23208.5	24423.2	547.59 µg/L	547.59 ppb	15:40:33
2	Cu 324.752†	75221.2	74927.3	550.13 µg/L	550.13 ppb	15:40:33
2	Mn 257.610†	146469.0	153638.5	545.07 µg/L	545.07 ppb	15:40:27
2	Mo 202.031†	4289.6	4482.6	543.25 µg/L	543.25 ppb	15:40:53
2	Ni 231.604†	8922.1	9018.5	545.48 µg/L	545.48 ppb	15:40:33
2	P 214.914†	1359.4	1204.7	2723.7 µg/L	2723.7 ppb	15:40:53
2	Pb 220.353†	1927.6	1958.8	549.65 µg/L	549.65 ppb	15:40:53

2	S 181.975 Axial†	208.0	194.8	1083.0 µg/L	1083.0 ppb	15:40:53
2	Sb 206.836†	517.9	518.7	550.84 µg/L	550.84 ppb	15:40:53
2	Se 196.026†	354.7	363.8	566.78 µg/L	566.78 ppb	15:40:53
2	SiO2†	29466.7	28489.9	5817.0 µg/L	5817.0 ppb	15:40:33
2	Si 251.611†	32258.5	33522.5	2715.5 µg/L	2715.5 ppb	15:40:33
2	Sn 189.927†	969.9	993.0	562.35 µg/L	562.35 ppb	15:40:53
2	Ti 334.940†	214914.8	224513.8	542.38 µg/L	542.38 ppb	15:40:27
2	Tl 190.801†	287.2	325.5	546.86 µg/L	546.86 ppb	15:40:53
2	U 409.014†	5558.9	6011.7	557.72 µg/L	557.72 ppb	15:40:33
2	V 292.402†	43298.4	45489.4	553.66 µg/L	553.66 ppb	15:40:33
2	Zn 213.857†	19132.1	19417.1	541.97 µg/L	541.97 ppb	15:40:33
3	Sc RADIAL	75627.3	75627.3	96.4 %		15:39:23
3	Al 396.153Radial†	7680.5	7999.8	5171.6 µg/L	5171.6 ppb	15:39:23
3	Ca 317.933Radial†	7009.7	7027.0	5063.3 µg/L	5063.3 ppb	15:39:23
3	Fe 238.204 Radial†	394.0	392.5	5208.2 µg/L	5208.2 ppb	15:39:44
3	K 766.490 Radial†	8424.0	8343.1	5263.7 µg/L	5263.7 ppb	15:39:23
3	Mg 279.077 IEC†	504.1	515.0	5287.4 µg/L	5287.4 ppb	15:39:44
3	Na 589.592 Radial†	37185.0	38034.2	10126 µg/L	10126 ppb	15:39:23
3	Sr 421.552†	84966.4	87537.9	523.64 µg/L	523.64 ppb	15:39:23
3	Sc 361.383	1885203.2	1885203.2	95.383 %		15:40:59
3	Y 371.029	1184573.8	1184573.8	94.833 %		15:40:59
3	Ag 328.068†	55411.3	58186.0	528.90 µg/L	528.90 ppb	15:41:05
3	As 188.979†	213.4	226.4	492.63 µg/L	492.63 ppb	15:41:25
3	B 249.677†	10422.9	10557.5	498.16 µg/L	498.16 ppb	15:41:05
3	Ba 233.527†	17485.0	18355.3	513.64 µg/L	513.64 ppb	15:41:05
3	Be 313.107†	733092.3	764743.3	514.35 µg/L	514.35 ppb	15:40:59
3	Cd 226.502†	16996.4	17944.4	508.35 µg/L	508.35 ppb	15:41:05
3	Co 228.616†	9062.1	9550.0	507.38 µg/L	507.38 ppb	15:41:05
3	Cr 267.716†	21273.8	22405.7	502.36 µg/L	502.36 ppb	15:41:05
3	Cu 324.752†	70626.8	70145.5	515.05 µg/L	515.05 ppb	15:41:05
3	Mn 257.610†	140279.1	147217.1	522.30 µg/L	522.30 ppb	15:40:59
3	Mo 202.031†	3689.9	3855.9	467.32 µg/L	467.32 ppb	15:41:25
3	Ni 231.604†	8351.4	8424.2	509.54 µg/L	509.54 ppb	15:41:05
3	P 214.914†	1229.1	1068.7	2412.9 µg/L	2412.9 ppb	15:41:25
3	Pb 220.353†	1722.7	1744.9	489.53 µg/L	489.53 ppb	15:41:25
3	S 181.975 Axial†	197.1	183.6	1020.5 µg/L	1020.5 ppb	15:41:25
3	Sb 206.836†	453.9	451.9	479.47 µg/L	479.47 ppb	15:41:25
3	Se 196.026†	323.0	330.7	516.64 µg/L	516.64 ppb	15:41:25
3	SiO2†	28115.5	27087.0	5530.5 µg/L	5530.5 ppb	15:41:05
3	Si 251.611†	30751.7	31957.8	2588.7 µg/L	2588.7 ppb	15:41:05
3	Sn 189.927†	823.5	839.9	476.03 µg/L	476.03 ppb	15:41:25
3	Ti 334.940†	204830.2	214041.0	517.07 µg/L	517.07 ppb	15:40:59
3	Tl 190.801†	264.5	301.9	507.20 µg/L	507.20 ppb	15:41:25
3	U 409.014†	4983.7	5411.1	501.91 µg/L	501.91 ppb	15:41:05
3	V 292.402†	40370.1	42439.5	516.21 µg/L	516.21 ppb	15:41:05
3	Zn 213.857†	17966.2	18203.6	508.08 µg/L	508.08 ppb	15:41:05

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1889150.2	95.583 %	0.3100			0.32%
Sc RADIAL	75531.8	96.2 %	0.32			0.33%
Y 371.029	1186981.2	95.026 %	0.2654			0.28%
Ag 328.068†	59449.2	540.47 µg/L	10.023	540.47 ppb	10.023	1.85%
QC value within limits for Ag 328.068 Recovery = 108.09%						
Al 396.153Radial†	8014.0	5179.8 µg/L	14.63	5179.8 ppb	14.63	0.28%
QC value within limits for Al 396.153Radial Recovery = 103.60%						
As 188.979†	244.3	531.43 µg/L	34.017	531.43 ppb	34.017	6.40%
QC value within limits for As 188.979 Recovery = 106.29%						
B 249.677†	10852.2	512.16 µg/L	12.123	512.16 ppb	12.123	2.37%
QC value within limits for B 249.677 Recovery = 102.43%						
Ba 233.527†	19055.7	533.24 µg/L	17.011	533.24 ppb	17.011	3.19%
QC value within limits for Ba 233.527 Recovery = 106.65%						
Be 313.107†	787017.9	529.33 µg/L	12.993	529.33 ppb	12.993	2.45%
QC value within limits for Be 313.107 Recovery = 105.87%						
Ca 317.933Radial†	7052.8	5081.9 µg/L	16.12	5081.9 ppb	16.12	0.32%
QC value within limits for Ca 317.933Radial Recovery = 101.64%						
Cd 226.502†	18637.2	528.00 µg/L	17.120	528.00 ppb	17.120	3.24%
QC value within limits for Cd 226.502 Recovery = 105.60%						
Co 228.616†	9993.4	530.97 µg/L	20.442	530.97 ppb	20.442	3.85%

QC value within limits for Co 228.616 Recovery = 106.19%							
Cr 267.716†	23775.1	533.06 µg/L	26.599	533.06 ppb	26.599	4.99%	
QC value within limits for Cr 267.716 Recovery = 106.61%							
Cu 324.752†	73390.9	538.85 µg/L	20.621	538.85 ppb	20.621	3.83%	
QC value within limits for Cu 324.752 Recovery = 107.77%							
Fe 238.204 Radial†	394.3	5232.0 µg/L	54.43	5232.0 ppb	54.43	1.04%	
QC value within limits for Fe 238.204 Radial Recovery = 104.64%							
K 766.490 Radial†	8426.8	5316.5 µg/L	52.20	5316.5 ppb	52.20	0.98%	
QC value within limits for K 766.490 Radial Recovery = 106.33%							
Mg 279.077 IEC†	516.7	5305.7 µg/L	47.45	5305.7 ppb	47.45	0.89%	
QC value within limits for Mg 279.077 IEC Recovery = 106.11%							
Mn 257.610†	151345.0	536.93 µg/L	12.700	536.93 ppb	12.700	2.37%	
QC value within limits for Mn 257.610 Recovery = 107.39%							
Mo 202.031†	4274.3	518.01 µg/L	43.899	518.01 ppb	43.899	8.47%	
QC value within limits for Mo 202.031 Recovery = 103.60%							
Na 589.592 Radial†	38160.6	10160 µg/L	35.7	10160 ppb	35.7	0.35%	
QC value within limits for Na 589.592 Radial Recovery = 101.60%							
Ni 231.604†	8832.9	534.25 µg/L	21.437	534.25 ppb	21.437	4.01%	
QC value within limits for Ni 231.604 Recovery = 106.85%							
P 214.914†	1160.2	2622.0 µg/L	181.17	2622.0 ppb	181.17	6.91%	
QC value within limits for P 214.914 Recovery = 104.88%							
Pb 220.353†	1896.4	532.11 µg/L	37.066	532.11 ppb	37.066	6.97%	
QC value within limits for Pb 220.353 Recovery = 106.42%							
S 181.975 Axial†	192.0	1067.6 µg/L	41.61	1067.6 ppb	41.61	3.90%	
QC value within limits for S 181.975 Axial Recovery = 106.76%							
Sb 206.836†	495.8	526.34 µg/L	40.606	526.34 ppb	40.606	7.71%	
QC value within limits for Sb 206.836 Recovery = 105.27%							
Se 196.026†	352.3	549.29 µg/L	28.302	549.29 ppb	28.302	5.15%	
QC value within limits for Se 196.026 Recovery = 109.86%							
SiO2†	28051.5	5727.5 µg/L	170.78	5727.5 ppb	170.78	2.98%	
QC value within limits for SiO2 Recovery = 107.11%							
Si 251.611†	33028.8	2675.5 µg/L	75.21	2675.5 ppb	75.21	2.81%	
QC value within limits for Si 251.611 Recovery = 107.02%							
Sn 189.927†	941.9	533.55 µg/L	49.813	533.55 ppb	49.813	9.34%	
QC value within limits for Sn 189.927 Recovery = 106.71%							
Sr 421.552†	87660.1	524.38 µg/L	0.856	524.38 ppb	0.856	0.16%	
QC value within limits for Sr 421.552 Recovery = 104.88%							
Ti 334.940†	220912.1	533.68 µg/L	14.389	533.68 ppb	14.389	2.70%	
QC value within limits for Ti 334.940 Recovery = 106.74%							
Tl 190.801†	318.9	535.82 µg/L	24.997	535.82 ppb	24.997	4.67%	
QC value within limits for Tl 190.801 Recovery = 107.16%							
U 409.014†	5745.0	532.94 µg/L	28.422	532.94 ppb	28.422	5.33%	
QC value within limits for U 409.014 Recovery = 106.59%							
V 292.402†	44514.6	541.67 µg/L	22.065	541.67 ppb	22.065	4.07%	
QC value within limits for V 292.402 Recovery = 108.33%							
Zn 213.857†	19039.3	531.42 µg/L	20.245	531.42 ppb	20.245	3.81%	
QC value within limits for Zn 213.857 Recovery = 106.28%							
All analyte(s) passed QC.							

Sequence No.: 28

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 15:41:35

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	73028.4	73028.4	93.1 %		15:42:08
1	Al 396.153Radial†	-31.7	-4.6	-3.0099 µg/L	-3.0099 ppb	15:42:08
1	Ca 317.933Radial†	243.4	14.4	10.365 µg/L	10.365 ppb	15:42:28
1	Fe 238.204 Radial†	16.5	1.4	18.173 µg/L	18.173 ppb	15:42:28
1	K 766.490 Radial†	292.3	-84.5	-53.329 µg/L	-53.329 ppb	15:42:08
1	Mg 279.077 IEC†	9.1	1.6	16.506 µg/L	16.506 ppb	15:42:28
1	Na 589.592 Radial†	353.2	-174.1	-46.347 µg/L	-46.347 ppb	15:42:08
1	Sr 421.552†	675.1	91.4	0.5470 µg/L	0.5470 ppb	15:42:08
1	Sc 361.383	1893698.9	1893698.9	95.813 %		15:43:30
1	Y 371.029	1196169.8	1196169.8	95.762 %		15:43:30
1	Ag 328.068†	-83.9	5.0	0.0482 µg/L	0.0482 ppb	15:43:36
1	As 188.979†	-0.7	2.0	4.3950 µg/L	4.3950 ppb	15:43:56
1	B 249.677†	175.6	-186.7	-8.8502 µg/L	-8.8502 ppb	15:43:56
1	Ba 233.527†	-19.1	4.1	0.1141 µg/L	0.1141 ppb	15:43:56
1	Be 313.107†	3969.3	309.0	0.2078 µg/L	0.2078 ppb	15:43:36
1	Cd 226.502†	-118.5	1.6	0.0453 µg/L	0.0453 ppb	15:43:56
1	Co 228.616†	-43.5	4.0	0.2112 µg/L	0.2112 ppb	15:43:56
1	Cr 267.716†	-62.5	36.9	0.8277 µg/L	0.8277 ppb	15:43:36
1	Cu 324.752†	3788.8	54.4	0.4017 µg/L	0.4017 ppb	15:43:36
1	Mn 257.610†	-39.5	106.7	0.3798 µg/L	0.3798 ppb	15:43:56
1	Mo 202.031†	23.2	11.6	1.4050 µg/L	1.4050 ppb	15:43:56
1	Ni 231.604†	336.1	19.4	1.1731 µg/L	1.1731 ppb	15:43:56
1	P 214.914†	225.8	15.8	36.448 µg/L	36.448 ppb	15:43:56
1	Pb 220.353†	61.6	3.1	0.8817 µg/L	0.8817 ppb	15:43:56
1	S 181.975 Axial†	25.8	3.8	21.132 µg/L	21.132 ppb	15:43:56
1	Sb 206.836†	27.5	4.7	5.0119 µg/L	5.0119 ppb	15:43:56
1	Se 196.026†	7.9	0.3	0.5870 µg/L	0.5870 ppb	15:43:56
1	SiO2†	2291.5	2.2	0.4588 µg/L	0.4588 ppb	15:43:36
1	Si 251.611†	306.3	37.2	3.0151 µg/L	3.0151 ppb	15:43:56
1	Sn 189.927†	22.0	-0.5	-0.2891 µg/L	-0.2891 ppb	15:43:56
1	Ti 334.940†	806.4	137.8	0.3320 µg/L	0.3320 ppb	15:43:36
1	Tl 190.801†	-27.5	-4.2	-7.0024 µg/L	-7.0024 ppb	15:43:56
1	U 409.014†	-205.2	-28.0	-2.6020 µg/L	-2.6020 ppb	15:43:36
1	V 292.402†	-92.5	18.8	0.2371 µg/L	0.2371 ppb	15:43:36
1	Zn 213.857†	691.9	89.9	2.5188 µg/L	2.5188 ppb	15:43:56
2	Sc RADIAL	73243.0	73243.0	93.3 %		15:42:34
2	Al 396.153Radial†	-12.8	15.8	10.215 µg/L	10.215 ppb	15:42:34
2	Ca 317.933Radial†	239.5	9.5	6.8177 µg/L	6.8177 ppb	15:42:54
2	Fe 238.204 Radial†	15.7	0.4	5.9320 µg/L	5.9320 ppb	15:42:54
2	K 766.490 Radial†	415.2	46.2	29.163 µg/L	29.163 ppb	15:42:34
2	Mg 279.077 IEC†	11.0	3.6	36.962 µg/L	36.962 ppb	15:42:54
2	Na 589.592 Radial†	346.2	-182.7	-48.653 µg/L	-48.653 ppb	15:42:34
2	Sr 421.552†	724.0	141.8	0.8481 µg/L	0.8481 ppb	15:42:34
2	Sc 361.383	1883824.8	1883824.8	95.313 %		15:44:02
2	Y 371.029	1189645.0	1189645.0	95.239 %		15:44:02
2	Ag 328.068†	-105.2	-17.8	-0.1603 µg/L	-0.1603 ppb	15:44:08
2	As 188.979†	-2.7	-0.1	-0.1608 µg/L	-0.1608 ppb	15:44:28
2	B 249.677†	173.5	-188.0	-8.9041 µg/L	-8.9041 ppb	15:44:28
2	Ba 233.527†	-13.5	9.8	0.2745 µg/L	0.2745 ppb	15:44:28
2	Be 313.107†	3964.8	325.9	0.2192 µg/L	0.2192 ppb	15:44:08
2	Cd 226.502†	-109.6	10.3	0.2927 µg/L	0.2927 ppb	15:44:28
2	Co 228.616†	-42.6	4.7	0.2482 µg/L	0.2482 ppb	15:44:28
2	Cr 267.716†	-47.0	52.9	1.1848 µg/L	1.1848 ppb	15:44:08
2	Cu 324.752†	3830.4	118.8	0.8720 µg/L	0.8720 ppb	15:44:08
2	Mn 257.610†	-39.3	106.6	0.3773 µg/L	0.3773 ppb	15:44:28
2	Mo 202.031†	21.7	10.2	1.2403 µg/L	1.2403 ppb	15:44:28
2	Ni 231.604†	331.4	16.3	0.9856 µg/L	0.9856 ppb	15:44:28
2	P 214.914†	224.1	15.2	35.064 µg/L	35.064 ppb	15:44:28
2	Pb 220.353†	68.0	10.2	2.8760 µg/L	2.8760 ppb	15:44:28

2	S 181.975 Axial†	20.9	-1.2	-6.8523 µg/L	-6.8523 ppb	15:44:28
2	Sb 206.836†	26.0	3.2	3.4310 µg/L	3.4310 ppb	15:44:28
2	Se 196.026†	10.6	3.2	4.7866 µg/L	4.7866 ppb	15:44:28
2	SiO2†	2304.5	28.4	5.8026 µg/L	5.8026 ppb	15:44:08
2	Si 251.611†	310.7	43.6	3.5301 µg/L	3.5301 ppb	15:44:28
2	Sn 189.927†	27.2	5.1	2.8738 µg/L	2.8738 ppb	15:44:28
2	Ti 334.940†	786.0	120.8	0.2892 µg/L	0.2892 ppb	15:44:08
2	Tl 190.801†	-23.7	-0.3	-0.5856 µg/L	-0.5856 ppb	15:44:28
2	U 409.014†	-241.7	-67.3	-6.2601 µg/L	-6.2601 ppb	15:44:08
2	V 292.402†	-108.3	1.7	0.0268 µg/L	0.0268 ppb	15:44:08
2	Zn 213.857†	692.7	94.5	2.6475 µg/L	2.6475 ppb	15:44:28
3	Sc RADIAL	73000.3	73000.3	93.0 %		15:43:00
3	Al 396.153Radial†	-26.9	0.6	0.3527 µg/L	0.3527 ppb	15:43:00
3	Ca 317.933Radial†	246.0	17.3	12.471 µg/L	12.471 ppb	15:43:20
3	Fe 238.204 Radial†	17.4	2.4	31.803 µg/L	31.803 ppb	15:43:20
3	K 766.490 Radial†	376.0	5.5	3.4922 µg/L	3.4922 ppb	15:43:00
3	Mg 279.077 IEC†	9.5	2.1	21.437 µg/L	21.437 ppb	15:43:20
3	Na 589.592 Radial†	366.0	-160.2	-42.643 µg/L	-42.643 ppb	15:43:00
3	Sr 421.552†	693.5	111.5	0.6668 µg/L	0.6668 ppb	15:43:00
3	Sc 361.383	1889325.1	1889325.1	95.592 %		15:44:34
3	Y 371.029	1193966.3	1193966.3	95.585 %		15:44:34
3	Ag 328.068†	-124.5	-37.6	-0.3377 µg/L	-0.3377 ppb	15:44:40
3	As 188.979†	-3.3	-0.7	-1.5070 µg/L	-1.5070 ppb	15:45:00
3	B 249.677†	142.4	-221.0	-10.484 µg/L	-10.484 ppb	15:45:00
3	Ba 233.527†	-21.8	1.1	0.0319 µg/L	0.0319 ppb	15:45:00
3	Be 313.107†	3962.6	311.5	0.2096 µg/L	0.2096 ppb	15:44:40
3	Cd 226.502†	-114.6	5.4	0.1507 µg/L	0.1507 ppb	15:45:00
3	Co 228.616†	-50.7	-3.8	-0.1986 µg/L	-0.1986 ppb	15:45:00
3	Cr 267.716†	-70.4	28.5	0.6375 µg/L	0.6375 ppb	15:44:40
3	Cu 324.752†	3838.1	115.2	0.8488 µg/L	0.8488 ppb	15:44:40
3	Mn 257.610†	-44.9	100.9	0.3610 µg/L	0.3610 ppb	15:45:00
3	Mo 202.031†	24.1	12.6	1.5317 µg/L	1.5317 ppb	15:45:00
3	Ni 231.604†	321.6	5.0	0.3028 µg/L	0.3028 ppb	15:45:00
3	P 214.914†	223.3	13.8	31.618 µg/L	31.618 ppb	15:45:00
3	Pb 220.353†	56.0	-2.6	-0.7234 µg/L	-0.7234 ppb	15:45:00
3	S 181.975 Axial†	23.9	1.9	10.398 µg/L	10.398 ppb	15:45:00
3	Sb 206.836†	25.4	2.5	2.6837 µg/L	2.6837 ppb	15:45:00
3	Se 196.026†	4.8	-2.9	-4.2115 µg/L	-4.2115 ppb	15:45:00
3	SiO2†	2318.7	36.3	7.4021 µg/L	7.4021 ppb	15:44:40
3	Si 251.611†	296.8	28.1	2.2770 µg/L	2.2770 ppb	15:45:00
3	Sn 189.927†	23.7	1.4	0.7789 µg/L	0.7789 ppb	15:45:00
3	Ti 334.940†	714.0	43.0	0.1025 µg/L	0.1025 ppb	15:44:40
3	Tl 190.801†	-23.2	0.2	0.4016 µg/L	0.4016 ppb	15:45:00
3	U 409.014†	-237.4	-62.2	-5.7843 µg/L	-5.7843 ppb	15:44:40
3	V 292.402†	-112.5	-2.4	-0.0197 µg/L	-0.0197 ppb	15:44:40
3	Zn 213.857†	680.6	79.7	2.2346 µg/L	2.2346 ppb	15:45:00

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1888949.6	95.573 %	0.2503			0.26%
Sc RADIAL	73090.6	93.1 %	0.17			0.18%
Y 371.029	1193260.4	95.529 %	0.2657			0.28%
Ag 328.068†	-16.8	-0.1500 µg/L	0.19316	-0.1500 ppb	0.19316	128.81%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.9	2.5193 µg/L	6.87355	2.5193 ppb	6.87355	272.83%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.4	0.9091 µg/L	3.09304	0.9091 ppb	3.09304	340.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-198.5	-9.4126 µg/L	0.92783	-9.4126 ppb	0.92783	9.86%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.0	0.1402 µg/L	0.12339	0.1402 ppb	0.12339	88.01%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	315.5	0.2122 µg/L	0.00614	0.2122 ppb	0.00614	2.89%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	13.7	9.8847 µg/L	2.85717	9.8847 ppb	2.85717	28.90%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.8	0.1629 µg/L	0.12415	0.1629 ppb	0.12415	76.22%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	1.6	0.0869 µg/L	0.24796	0.0869 ppb	0.24796	285.23%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	39.4	0.8834 µg/L	0.27787	0.8834 ppb	0.27787	31.46%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	96.1	0.7075 µg/L	0.26507	0.7075 ppb	0.26507	37.47%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.4	18.636 µg/L	12.9416	18.636 ppb	12.9416	69.44%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-10.9	-6.8914 µg/L	42.21499	-6.8914 ppb	42.21499	612.58%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	2.4	24.968 µg/L	10.6753	24.968 ppb	10.6753	42.76%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	104.7	0.3727 µg/L	0.01020	0.3727 ppb	0.01020	2.74%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	11.5	1.3923 µg/L	0.14611	1.3923 ppb	0.14611	10.49%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-172.3	-45.881 µg/L	3.0320	-45.881 ppb	3.0320	6.61%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	13.5	0.8205 µg/L	0.45806	0.8205 ppb	0.45806	55.83%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	14.9	34.377 µg/L	2.4876	34.377 ppb	2.4876	7.24%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	3.6	1.0114 µg/L	1.80322	1.0114 ppb	1.80322	178.28%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.5	8.2256 µg/L	14.11781	8.2256 ppb	14.11781	171.63%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	3.5	3.7089 µg/L	1.18874	3.7089 ppb	1.18874	32.05%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.2	0.3874 µg/L	4.50233	0.3874 ppb	4.50233	>999.9%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	22.3	4.5545 µg/L	3.63603	4.5545 ppb	3.63603	79.83%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	36.3	2.9407 µg/L	0.62983	2.9407 ppb	0.62983	21.42%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	2.0	1.1212 µg/L	1.60899	1.1212 ppb	1.60899	143.51%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	114.9	0.6873 µg/L	0.15155	0.6873 ppb	0.15155	22.05%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	100.5	0.2412 µg/L	0.12205	0.2412 ppb	0.12205	50.60%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-1.4	-2.3955 µg/L	4.02016	-2.3955 ppb	4.02016	167.82%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-52.5	-4.8821 µg/L	1.98892	-4.8821 ppb	1.98892	40.74%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	6.0	0.0814 µg/L	0.13684	0.0814 ppb	0.13684	168.08%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	88.0	2.4670 µg/L	0.21128	2.4670 ppb	0.21128	8.56%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 29

Sample ID: 245112001|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 316

Date Collected: 1/29/2010 15:45:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245112001|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	73665.1	73665.1	93.9 %		15:45:48
1	Al 396.153Radial†	3.6	33.4	21.614 µg/L	21.614 ppb	15:45:48
1	Ca 317.933Radial†	281.3	52.5	37.819 µg/L	37.819 ppb	15:46:08
1	Fe 238.204 Radial†	19.0	3.9	52.160 µg/L	52.160 ppb	15:46:08
1	K 766.490 Radial†	626.1	268.3	169.30 µg/L	169.30 ppb	15:45:48
1	Mg 279.077 IEC†	10.2	2.8	28.284 µg/L	28.284 ppb	15:46:08
1	Na 589.592 Radial†	647.1	135.7	36.133 µg/L	36.133 ppb	15:45:48
1	Sr 421.552†	663.4	72.8	0.4353 µg/L	0.4353 ppb	15:45:48
1	Sc 361.383	1910877.9	1910877.9	96.682 %		15:47:10
1	Y 371.029	1204465.0	1204465.0	96.426 %		15:47:10
1	Ag 328.068†	-107.8	-18.9	-0.1668 µg/L	-0.1668 ppb	15:47:15
1	As 188.979†	-0.1	2.6	5.6371 µg/L	5.6371 ppb	15:47:36
1	B 249.677†	525.1	173.2	8.1764 µg/L	8.1764 ppb	15:47:15
1	Ba 233.527†	-13.5	10.0	0.2781 µg/L	0.2781 ppb	15:47:36
1	Be 313.107†	3781.7	77.7	0.0521 µg/L	0.0521 ppb	15:47:15
1	Cd 226.502†	-125.2	-4.2	-0.1256 µg/L	-0.1256 ppb	15:47:36
1	Co 228.616†	-49.8	-2.2	-0.1169 µg/L	-0.1169 ppb	15:47:36
1	Cr 267.716†	-62.3	37.7	0.8440 µg/L	0.8440 ppb	15:47:36
1	Cu 324.752†	3948.6	184.1	1.3573 µg/L	1.3573 ppb	15:47:15
1	Mn 257.610†	133.9	286.4	1.0209 µg/L	1.0209 ppb	15:47:36
1	Mo 202.031†	13.4	1.3	0.1584 µg/L	0.1584 ppb	15:47:36
1	Ni 231.604†	324.3	4.0	0.2426 µg/L	0.2426 ppb	15:47:36
1	P 214.914†	226.0	13.9	32.004 µg/L	32.004 ppb	15:47:36
1	Pb 220.353†	69.7	10.9	3.0719 µg/L	3.0719 ppb	15:47:36
1	S 181.975 Axial†	31.8	9.8	54.505 µg/L	54.505 ppb	15:47:36
1	Sb 206.836†	21.4	-1.9	-2.0113 µg/L	-2.0113 ppb	15:47:36
1	Se 196.026†	7.1	-0.6	-0.6766 µg/L	-0.6766 ppb	15:47:36
1	SiO2†	17362.8	15569.3	3178.9 µg/L	3178.9 ppb	15:47:15
1	Si 251.611†	17927.9	18260.7	1479.2 µg/L	1479.2 ppb	15:47:15
1	Sn 189.927†	26.8	4.3	2.4295 µg/L	2.4295 ppb	15:47:36
1	Ti 334.940†	915.8	243.4	0.5867 µg/L	0.5867 ppb	15:47:15
1	Tl 190.801†	-21.7	2.1	3.4663 µg/L	3.4663 ppb	15:47:36
1	U 409.014†	-212.3	-33.4	-3.1145 µg/L	-3.1145 ppb	15:47:15
1	V 292.402†	-108.7	2.8	0.0369 µg/L	0.0369 ppb	15:47:15
1	Zn 213.857†	675.9	66.8	1.8702 µg/L	1.8702 ppb	15:47:36
2	Sc RADIAL	74298.9	74298.9	94.7 %		15:46:13
2	Al 396.153Radial†	2.0	31.6	20.448 µg/L	20.448 ppb	15:46:13
2	Ca 317.933Radial†	284.3	53.1	38.295 µg/L	38.295 ppb	15:46:34
2	Fe 238.204 Radial†	18.4	3.1	40.609 µg/L	40.609 ppb	15:46:34
2	K 766.490 Radial†	533.4	164.7	103.91 µg/L	103.91 ppb	15:46:13
2	Mg 279.077 IEC†	15.9	8.6	88.441 µg/L	88.441 ppb	15:46:34
2	Na 589.592 Radial†	616.0	97.0	25.816 µg/L	25.816 ppb	15:46:13
2	Sr 421.552†	681.8	86.2	0.5153 µg/L	0.5153 ppb	15:46:13
2	Sc 361.383	1888877.2	1888877.2	95.569 %		15:47:42
2	Y 371.029	1189890.9	1189890.9	95.259 %		15:47:42
2	Ag 328.068†	-145.0	-59.1	-0.5294 µg/L	-0.5294 ppb	15:47:48
2	As 188.979†	-5.2	-2.7	-5.9791 µg/L	-5.9791 ppb	15:48:08
2	B 249.677†	522.1	176.4	8.3365 µg/L	8.3365 ppb	15:47:48
2	Ba 233.527†	-19.1	4.0	0.1115 µg/L	0.1115 ppb	15:48:08
2	Be 313.107†	3801.8	144.3	0.0968 µg/L	0.0968 ppb	15:47:48
2	Cd 226.502†	-114.3	5.7	0.1563 µg/L	0.1563 ppb	15:48:08
2	Co 228.616†	-47.0	0.2	0.0092 µg/L	0.0092 ppb	15:48:08
2	Cr 267.716†	-58.8	40.6	0.9103 µg/L	0.9103 ppb	15:48:08
2	Cu 324.752†	3900.3	181.2	1.3341 µg/L	1.3341 ppb	15:47:48
2	Mn 257.610†	133.5	287.6	1.0212 µg/L	1.0212 ppb	15:48:08
2	Mo 202.031†	20.4	8.7	1.0611 µg/L	1.0611 ppb	15:48:08
2	Ni 231.604†	324.3	7.9	0.4773 µg/L	0.4773 ppb	15:48:08
2	P 214.914†	222.8	13.3	30.606 µg/L	30.606 ppb	15:48:08
2	Pb 220.353†	67.9	9.9	2.7977 µg/L	2.7977 ppb	15:48:08

2	S 181.975 Axial†	30.8	9.1	50.588 µg/L	50.588 ppb	15:48:08
2	Sb 206.836†	26.9	4.2	4.4127 µg/L	4.4127 ppb	15:48:08
2	Se 196.026†	11.5	4.1	6.2360 µg/L	6.2360 ppb	15:48:08
2	SiO2†	17340.7	15755.3	3216.8 µg/L	3216.8 ppb	15:47:48
2	Si 251.611†	17866.9	18412.9	1491.5 µg/L	1491.5 ppb	15:47:48
2	Sn 189.927†	26.3	4.0	2.2968 µg/L	2.2968 ppb	15:48:08
2	Ti 334.940†	972.9	314.2	0.7531 µg/L	0.7531 ppb	15:47:48
2	Tl 190.801†	-22.0	1.5	2.5229 µg/L	2.5229 ppb	15:48:08
2	U 409.014†	-288.2	-115.4	-10.732 µg/L	-10.732 ppb	15:47:48
2	V 292.402†	-87.6	23.7	0.2865 µg/L	0.2865 ppb	15:47:48
2	Zn 213.857†	683.4	82.9	2.3181 µg/L	2.3181 ppb	15:48:08
3	Sc RADIAL	73745.8	73745.8	94.0 %		15:46:39
3	Al 396.153Radial†	-2.4	26.9	17.441 µg/L	17.441 ppb	15:46:39
3	Ca 317.933Radial†	293.8	65.5	47.163 µg/L	47.163 ppb	15:47:00
3	Fe 238.204 Radial†	19.1	4.0	53.495 µg/L	53.495 ppb	15:47:00
3	K 766.490 Radial†	539.7	175.7	110.85 µg/L	110.85 ppb	15:46:39
3	Mg 279.077 IEC†	10.1	2.6	26.316 µg/L	26.316 ppb	15:47:00
3	Na 589.592 Radial†	606.5	91.7	24.417 µg/L	24.417 ppb	15:46:39
3	Sr 421.552†	688.1	98.2	0.5876 µg/L	0.5876 ppb	15:46:39
3	Sc 361.383	1898028.8	1898028.8	96.032 %		15:48:14
3	Y 371.029	1195912.1	1195912.1	95.741 %		15:48:14
3	Ag 328.068†	-143.1	-56.4	-0.5044 µg/L	-0.5044 ppb	15:48:20
3	As 188.979†	-0.1	2.6	5.7497 µg/L	5.7497 ppb	15:48:40
3	B 249.677†	517.3	168.7	7.9633 µg/L	7.9633 ppb	15:48:20
3	Ba 233.527†	-14.6	8.8	0.2457 µg/L	0.2457 ppb	15:48:40
3	Be 313.107†	3773.5	95.6	0.0641 µg/L	0.0641 ppb	15:48:20
3	Cd 226.502†	-116.5	3.9	0.1057 µg/L	0.1057 ppb	15:48:40
3	Co 228.616†	-45.2	2.3	0.1192 µg/L	0.1192 ppb	15:48:40
3	Cr 267.716†	-67.9	31.4	0.7036 µg/L	0.7036 ppb	15:48:40
3	Cu 324.752†	3799.9	56.9	0.4248 µg/L	0.4248 ppb	15:48:20
3	Mn 257.610†	124.4	277.4	0.9893 µg/L	0.9893 ppb	15:48:40
3	Mo 202.031†	15.1	3.1	0.3820 µg/L	0.3820 ppb	15:48:40
3	Ni 231.604†	318.6	0.4	0.0238 µg/L	0.0238 ppb	15:48:40
3	P 214.914†	232.3	22.1	50.836 µg/L	50.836 ppb	15:48:40
3	Pb 220.353†	67.7	9.3	2.6125 µg/L	2.6125 ppb	15:48:40
3	S 181.975 Axial†	28.9	7.0	38.755 µg/L	38.755 ppb	15:48:40
3	Sb 206.836†	23.9	0.9	0.9064 µg/L	0.9064 ppb	15:48:40
3	Se 196.026†	7.2	-0.4	-0.4571 µg/L	-0.4571 ppb	15:48:40
3	SiO2†	17097.8	15414.8	3147.3 µg/L	3147.3 ppb	15:48:20
3	Si 251.611†	17603.6	18048.5	1462.0 µg/L	1462.0 ppb	15:48:20
3	Sn 189.927†	23.3	0.9	0.5004 µg/L	0.5004 ppb	15:48:40
3	Ti 334.940†	895.0	228.1	0.5500 µg/L	0.5500 ppb	15:48:20
3	Tl 190.801†	-23.8	-0.2	-0.3707 µg/L	-0.3707 ppb	15:48:40
3	U 409.014†	-207.1	-29.5	-2.7503 µg/L	-2.7503 ppb	15:48:20
3	V 292.402†	-96.9	14.4	0.1778 µg/L	0.1778 ppb	15:48:20
3	Zn 213.857†	684.7	80.7	2.2644 µg/L	2.2644 ppb	15:48:40

Mean Data: 245112001|944077|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1899261.3	96.094 %	0.5592			0.58%
Sc RADIAL	73903.3	94.2 %	0.44			0.47%
Y 371.029	1196756.0	95.809 %	0.5863			0.61%
Ag 328.068†	-44.8	-0.4002 µg/L	0.20252	-0.4002 ppb	0.20252	50.60%
Al 396.153Radial†	30.6	19.834 µg/L	2.1534	19.834 ppb	2.1534	10.86%
As 188.979†	0.8	1.8026 µg/L	6.73940	1.8026 ppb	6.73940	373.88%
B 249.677†	172.8	8.1587 µg/L	0.18724	8.1587 ppb	0.18724	2.29%
Ba 233.527†	7.6	0.2118 µg/L	0.08832	0.2118 ppb	0.08832	41.71%
Be 313.107†	105.9	0.0710 µg/L	0.02312	0.0710 ppb	0.02312	32.57%
Ca 317.933Radial†	57.0	41.092 µg/L	5.2628	41.092 ppb	5.2628	12.81%
Cd 226.502†	1.8	0.0455 µg/L	0.15032	0.0455 ppb	0.15032	330.60%
Co 228.616†	0.1	0.0038 µg/L	0.11816	0.0038 ppb	0.11816	>999.9%
Cr 267.716†	36.6	0.8193 µg/L	0.10553	0.8193 ppb	0.10553	12.88%
Cu 324.752†	140.7	1.0388 µg/L	0.53178	1.0388 ppb	0.53178	51.19%
Fe 238.204 Radial†	3.7	48.755 µg/L	7.0854	48.755 ppb	7.0854	14.53%
K 766.490 Radial†	202.9	128.02 µg/L	35.920	128.02 ppb	35.920	28.06%
Mg 279.077 IEC†	4.7	47.680 µg/L	35.3136	47.680 ppb	35.3136	74.06%
Mn 257.610†	283.8	1.0105 µg/L	0.01831	1.0105 ppb	0.01831	1.81%
Mo 202.031†	4.4	0.5338 µg/L	0.47012	0.5338 ppb	0.47012	88.06%
Na 589.592 Radial†	108.1	28.789 µg/L	6.3988	28.789 ppb	6.3988	22.23%

Ni 231.604†	4.1	0.2479 µg/L	0.22679	0.2479 ppb	0.22679	91.48%
P 214.914†	16.5	37.815 µg/L	11.2979	37.815 ppb	11.2979	29.88%
Pb 220.353†	10.1	2.8274 µg/L	0.23111	2.8274 ppb	0.23111	8.17%
S 181.975 Axial†	8.6	47.949 µg/L	8.1995	47.949 ppb	8.1995	17.10%
Sb 206.836†	1.0	1.1026 µg/L	3.21650	1.1026 ppb	3.21650	291.72%
Se 196.026†	1.0	1.7008 µg/L	3.92918	1.7008 ppb	3.92918	231.02%
SiO2†	15579.8	3181.0 µg/L	34.80	3181.0 ppb	34.80	1.09%
Si 251.611†	18240.7	1477.6 µg/L	14.82	1477.6 ppb	14.82	1.00%
Sn 189.927†	3.1	1.7422 µg/L	1.07751	1.7422 ppb	1.07751	61.85%
Sr 421.552†	85.7	0.5127 µg/L	0.07621	0.5127 ppb	0.07621	14.86%
Ti 334.940†	261.9	0.6299 µg/L	0.10823	0.6299 ppb	0.10823	17.18%
Tl 190.801†	1.1	1.8728 µg/L	1.99937	1.8728 ppb	1.99937	106.76%
U 409.014†	-59.4	-5.5321 µg/L	4.50652	-5.5321 ppb	4.50652	81.46%
V 292.402†	13.7	0.1671 µg/L	0.12517	0.1671 ppb	0.12517	74.91%
Zn 213.857†	76.8	2.1509 µg/L	0.24455	2.1509 ppb	0.24455	11.37%

Sequence No.: 35

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 16:06:41

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	75302.5	75302.5	96.0 %		16:07:19
1	Al 396.153Radial†	7683.6	8037.4	5194.6 µg/L	5194.6 ppb	16:07:19
1	Ca 317.933Radial†	6896.1	6940.0	5000.6 µg/L	5000.6 ppb	16:07:39
1	Fe 238.204 Radial†	400.7	401.3	5325.3 µg/L	5325.3 ppb	16:07:39
1	K 766.490 Radial†	8476.2	8435.2	5321.8 µg/L	5321.8 ppb	16:07:19
1	Mg 279.077 IEC†	505.1	518.3	5322.3 µg/L	5322.3 ppb	16:07:39
1	Na 589.592 Radial†	37275.6	38295.0	10195 µg/L	10195 ppb	16:07:19
1	Sr 421.552†	84901.4	87850.4	525.51 µg/L	525.51 ppb	16:07:19
1	Sc 361.383	1936107.1	1936107.1	97.959 %		16:08:43
1	Y 371.029	1218986.6	1218986.6	97.588 %		16:08:43
1	Ag 328.068†	57805.0	59102.2	537.37 µg/L	537.37 ppb	16:08:49
1	As 188.979†	242.6	250.4	544.76 µg/L	544.76 ppb	16:09:09
1	B 249.677†	10936.6	10794.6	509.40 µg/L	509.40 ppb	16:08:49
1	Ba 233.527†	18729.4	19143.6	535.71 µg/L	535.71 ppb	16:08:49
1	Be 313.107†	782593.3	795068.5	534.74 µg/L	534.74 ppb	16:08:43
1	Cd 226.502†	18283.7	18790.0	532.32 µg/L	532.32 ppb	16:08:49
1	Co 228.616†	9858.2	10112.9	537.34 µg/L	537.34 ppb	16:08:49
1	Cr 267.716†	23527.6	24120.0	540.79 µg/L	540.79 ppb	16:08:49
1	Cu 324.752†	75936.8	73619.4	540.54 µg/L	540.54 ppb	16:08:49
1	Mn 257.610†	148869.1	152119.3	539.69 µg/L	539.69 ppb	16:08:43
1	Mo 202.031†	4334.6	4412.3	534.73 µg/L	534.73 ppb	16:09:09
1	Ni 231.604†	9004.2	8860.4	535.91 µg/L	535.91 ppb	16:08:49
1	P 214.914†	1380.1	1189.0	2688.3 µg/L	2688.3 ppb	16:09:09
1	Pb 220.353†	1953.0	1932.6	542.29 µg/L	542.29 ppb	16:09:09
1	S 181.975 Axial†	206.9	188.1	1045.8 µg/L	1045.8 ppb	16:09:09
1	Sb 206.836†	516.4	503.2	534.40 µg/L	534.40 ppb	16:09:09
1	Se 196.026†	350.9	350.3	546.56 µg/L	546.56 ppb	16:09:09
1	SiO2†	29834.0	28066.3	5730.5 µg/L	5730.5 ppb	16:08:49
1	Si 251.611†	32630.2	33027.8	2675.4 µg/L	2675.4 ppb	16:08:49
1	Sn 189.927†	972.6	969.4	549.06 µg/L	549.06 ppb	16:09:09
1	Ti 334.940†	218773.2	222628.5	537.82 µg/L	537.82 ppb	16:08:43
1	Tl 190.801†	289.7	320.2	538.04 µg/L	538.04 ppb	16:09:09
1	U 409.014†	5558.8	5860.9	543.70 µg/L	543.70 ppb	16:08:49
1	V 292.402†	43881.4	44911.2	546.61 µg/L	546.61 ppb	16:08:49
1	Zn 213.857†	19390.2	19162.1	534.86 µg/L	534.86 ppb	16:08:49
2	Sc RADIAL	74993.5	74993.5	95.6 %		16:07:45
2	Al 396.153Radial†	7629.6	8013.8	5179.3 µg/L	5179.3 ppb	16:07:45
2	Ca 317.933Radial†	6925.8	7000.6	5044.3 µg/L	5044.3 ppb	16:08:05
2	Fe 238.204 Radial†	395.1	397.1	5269.8 µg/L	5269.8 ppb	16:08:05
2	K 766.490 Radial†	8409.9	8402.0	5301.0 µg/L	5301.0 ppb	16:07:45
2	Mg 279.077 IEC†	506.6	522.0	5360.2 µg/L	5360.2 ppb	16:08:05
2	Na 589.592 Radial†	37062.2	38231.8	10179 µg/L	10179 ppb	16:07:45
2	Sr 421.552†	84533.5	87829.9	525.39 µg/L	525.39 ppb	16:07:45
2	Sc 361.383	1920931.0	1920931.0	97.191 %		16:09:16
2	Y 371.029	1208672.9	1208672.9	96.763 %		16:09:16
2	Ag 328.068†	57550.2	59306.2	539.22 µg/L	539.22 ppb	16:09:22
2	As 188.979†	242.4	252.1	548.55 µg/L	548.55 ppb	16:09:43
2	B 249.677†	10973.7	10920.9	515.41 µg/L	515.41 ppb	16:09:22
2	Ba 233.527†	18703.7	19268.3	539.19 µg/L	539.19 ppb	16:09:22
2	Be 313.107†	765527.5	783821.1	527.18 µg/L	527.18 ppb	16:09:16
2	Cd 226.502†	18269.1	18922.5	536.08 µg/L	536.08 ppb	16:09:22
2	Co 228.616†	9786.7	10118.9	537.67 µg/L	537.67 ppb	16:09:22
2	Cr 267.716†	23425.9	24205.1	542.70 µg/L	542.70 ppb	16:09:22
2	Cu 324.752†	75633.4	73919.6	542.74 µg/L	542.74 ppb	16:09:22
2	Mn 257.610†	145370.9	149720.7	531.18 µg/L	531.18 ppb	16:09:16
2	Mo 202.031†	4300.2	4412.0	534.69 µg/L	534.69 ppb	16:09:43
2	Ni 231.604†	8999.9	8928.7	540.04 µg/L	540.04 ppb	16:09:22
2	P 214.914†	1374.0	1193.8	2699.4 µg/L	2699.4 ppb	16:09:43
2	Pb 220.353†	1948.1	1943.3	545.28 µg/L	545.28 ppb	16:09:43

2	S 181.975 Axial†	214.0	197.0	1095.3 µg/L	1095.3 ppb	16:09:43
2	Sb 206.836†	523.2	514.3	546.14 µg/L	546.14 ppb	16:09:43
2	Se 196.026†	354.1	356.4	555.55 µg/L	555.55 ppb	16:09:43
2	SiO2†	29745.3	28215.7	5761.0 µg/L	5761.0 ppb	16:09:22
2	Si 251.611†	32598.9	33258.7	2694.1 µg/L	2694.1 ppb	16:09:22
2	Sn 189.927†	974.9	979.6	554.78 µg/L	554.78 ppb	16:09:43
2	Ti 334.940†	214014.2	219496.4	530.25 µg/L	530.25 ppb	16:09:16
2	Tl 190.801†	290.9	323.8	543.86 µg/L	543.86 ppb	16:09:43
2	U 409.014†	5484.7	5829.5	540.79 µg/L	540.79 ppb	16:09:22
2	V 292.402†	43614.9	44990.9	547.56 µg/L	547.56 ppb	16:09:22
2	Zn 213.857†	19327.7	19254.1	537.42 µg/L	537.42 ppb	16:09:22
3	Sc RADIAL	75634.1	75634.1	96.4 %		16:08:11
3	Al 396.153Radial†	7709.2	8028.9	5190.7 µg/L	5190.7 ppb	16:08:11
3	Ca 317.933Radial†	6920.3	6933.5	4995.9 µg/L	4995.9 ppb	16:08:31
3	Fe 238.204 Radial†	400.8	399.5	5300.5 µg/L	5300.5 ppb	16:08:31
3	K 766.490 Radial†	8496.3	8417.4	5310.6 µg/L	5310.6 ppb	16:08:11
3	Mg 279.077 IEC†	506.6	517.5	5313.4 µg/L	5313.4 ppb	16:08:31
3	Na 589.592 Radial†	37231.4	38078.8	10138 µg/L	10138 ppb	16:08:11
3	Sr 421.552†	85086.4	87654.4	524.34 µg/L	524.34 ppb	16:08:11
3	Sc 361.383	1912028.8	1912028.8	96.740 %		16:09:50
3	Y 371.029	1203217.2	1203217.2	96.326 %		16:09:50
3	Ag 328.068†	55297.3	57253.1	520.40 µg/L	520.40 ppb	16:09:55
3	As 188.979†	209.7	219.5	477.63 µg/L	477.63 ppb	16:10:16
3	B 249.677†	10419.5	10400.6	490.67 µg/L	490.67 ppb	16:09:55
3	Ba 233.527†	17370.9	17980.2	503.13 µg/L	503.13 ppb	16:09:55
3	Be 313.107†	733320.2	754195.7	507.25 µg/L	507.25 ppb	16:09:50
3	Cd 226.502†	16878.8	17572.8	497.80 µg/L	497.80 ppb	16:09:55
3	Co 228.616†	9006.4	9359.2	497.23 µg/L	497.23 ppb	16:09:55
3	Cr 267.716†	21027.9	21838.6	489.64 µg/L	489.64 ppb	16:09:55
3	Cu 324.752†	70001.5	68460.3	502.71 µg/L	502.71 ppb	16:09:55
3	Mn 257.610†	139668.0	144521.9	512.76 µg/L	512.76 ppb	16:09:50
3	Mo 202.031†	3631.7	3741.5	453.46 µg/L	453.46 ppb	16:10:16
3	Ni 231.604†	8304.0	8252.4	499.15 µg/L	499.15 ppb	16:09:55
3	P 214.914†	1217.5	1038.7	2344.8 µg/L	2344.8 ppb	16:10:16
3	Pb 220.353†	1708.2	1704.6	478.22 µg/L	478.22 ppb	16:10:16
3	S 181.975 Axial†	192.0	175.3	974.79 µg/L	974.79 ppb	16:10:16
3	Sb 206.836†	449.6	440.7	467.57 µg/L	467.57 ppb	16:10:16
3	Se 196.026†	314.5	317.1	496.66 µg/L	496.66 ppb	16:10:16
3	SiO2†	28109.8	26667.5	5444.9 µg/L	5444.9 ppb	16:09:55
3	Si 251.611†	30615.2	31364.3	2540.7 µg/L	2540.7 ppb	16:09:55
3	Sn 189.927†	821.0	825.3	467.78 µg/L	467.78 ppb	16:10:16
3	Ti 334.940†	203913.0	210080.0	507.49 µg/L	507.49 ppb	16:09:50
3	Tl 190.801†	262.2	295.5	496.61 µg/L	496.61 ppb	16:10:16
3	U 409.014†	5003.6	5358.4	497.00 µg/L	497.00 ppb	16:09:55
3	V 292.402†	39965.7	41427.7	503.90 µg/L	503.90 ppb	16:09:55
3	Zn 213.857†	17904.4	17875.5	498.91 µg/L	498.91 ppb	16:09:55

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1923022.3	97.297 %	0.6160			0.63%
Sc RADIAL	75310.1	96.0 %	0.41			0.43%
Y 371.029	1210292.3	96.892 %	0.6411			0.66%
Ag 328.068†	58553.9	532.33 µg/L	10.370	532.33 ppb	10.370	1.95%
QC value within limits for Ag 328.068 Recovery = 106.47%						
Al 396.153Radial†	8026.7	5188.2 µg/L	7.92	5188.2 ppb	7.92	0.15%
QC value within limits for Al 396.153Radial Recovery = 103.76%						
As 188.979†	240.7	523.65 µg/L	39.901	523.65 ppb	39.901	7.62%
QC value within limits for As 188.979 Recovery = 104.73%						
B 249.677†	10705.4	505.16 µg/L	12.906	505.16 ppb	12.906	2.55%
QC value within limits for B 249.677 Recovery = 101.03%						
Ba 233.527†	18797.4	526.01 µg/L	19.889	526.01 ppb	19.889	3.78%
QC value within limits for Ba 233.527 Recovery = 105.20%						
Be 313.107†	777695.1	523.06 µg/L	14.200	523.06 ppb	14.200	2.71%
QC value within limits for Be 313.107 Recovery = 104.61%						
Ca 317.933Radial†	6958.0	5013.6 µg/L	26.69	5013.6 ppb	26.69	0.53%
QC value within limits for Ca 317.933Radial Recovery = 100.27%						
Cd 226.502†	18428.4	522.06 µg/L	21.101	522.06 ppb	21.101	4.04%
QC value within limits for Cd 226.502 Recovery = 104.41%						
Co 228.616†	9863.7	524.08 µg/L	23.253	524.08 ppb	23.253	4.44%

QC value within limits for Co 228.616 Recovery = 104.82%							
Cr 267.716†	23387.9	524.38 µg/L	30.095	524.38 ppb	30.095	5.74%	
QC value within limits for Cr 267.716 Recovery = 104.88%							
Cu 324.752†	71999.8	528.66 µg/L	22.502	528.66 ppb	22.502	4.26%	
QC value within limits for Cu 324.752 Recovery = 105.73%							
Fe 238.204 Radial†	399.3	5298.6 µg/L	27.81	5298.6 ppb	27.81	0.52%	
QC value within limits for Fe 238.204 Radial Recovery = 105.97%							
K 766.490 Radial†	8418.3	5311.1 µg/L	10.40	5311.1 ppb	10.40	0.20%	
QC value within limits for K 766.490 Radial Recovery = 106.22%							
Mg 279.077 IEC†	519.3	5332.0 µg/L	24.85	5332.0 ppb	24.85	0.47%	
QC value within limits for Mg 279.077 IEC Recovery = 106.64%							
Mn 257.610†	148787.3	527.87 µg/L	13.767	527.87 ppb	13.767	2.61%	
QC value within limits for Mn 257.610 Recovery = 105.57%							
Mo 202.031†	4188.6	507.63 µg/L	46.908	507.63 ppb	46.908	9.24%	
QC value within limits for Mo 202.031 Recovery = 101.53%							
Na 589.592 Radial†	38201.8	10171 µg/L	29.6	10171 ppb	29.6	0.29%	
QC value within limits for Na 589.592 Radial Recovery = 101.71%							
Ni 231.604†	8680.5	525.03 µg/L	22.514	525.03 ppb	22.514	4.29%	
QC value within limits for Ni 231.604 Recovery = 105.01%							
P 214.914†	1140.5	2577.5 µg/L	201.61	2577.5 ppb	201.61	7.82%	
QC value within limits for P 214.914 Recovery = 103.10%							
Pb 220.353†	1860.2	521.93 µg/L	37.885	521.93 ppb	37.885	7.26%	
QC value within limits for Pb 220.353 Recovery = 104.39%							
S 181.975 Axial†	186.8	1038.6 µg/L	60.56	1038.6 ppb	60.56	5.83%	
QC value within limits for S 181.975 Axial Recovery = 103.86%							
Sb 206.836†	486.1	516.04 µg/L	42.385	516.04 ppb	42.385	8.21%	
QC value within limits for Sb 206.836 Recovery = 103.21%							
Se 196.026†	341.3	532.92 µg/L	31.726	532.92 ppb	31.726	5.95%	
QC value within limits for Se 196.026 Recovery = 106.58%							
SiO2†	27649.8	5645.4 µg/L	174.36	5645.4 ppb	174.36	3.09%	
QC value within limits for SiO2 Recovery = 105.57%							
Si 251.611†	32550.3	2636.7 µg/L	83.72	2636.7 ppb	83.72	3.18%	
QC value within limits for Si 251.611 Recovery = 105.47%							
Sn 189.927†	924.8	523.87 µg/L	48.662	523.87 ppb	48.662	9.29%	
QC value within limits for Sn 189.927 Recovery = 104.77%							
Sr 421.552†	87778.2	525.08 µg/L	0.644	525.08 ppb	0.644	0.12%	
QC value within limits for Sr 421.552 Recovery = 105.02%							
Ti 334.940†	217401.6	525.19 µg/L	15.787	525.19 ppb	15.787	3.01%	
QC value within limits for Ti 334.940 Recovery = 105.04%							
Tl 190.801†	313.2	526.17 µg/L	25.763	526.17 ppb	25.763	4.90%	
QC value within limits for Tl 190.801 Recovery = 105.23%							
U 409.014†	5682.9	527.17 µg/L	26.161	527.17 ppb	26.161	4.96%	
QC value within limits for U 409.014 Recovery = 105.43%							
V 292.402†	43776.6	532.69 µg/L	24.940	532.69 ppb	24.940	4.68%	
QC value within limits for V 292.402 Recovery = 106.54%							
Zn 213.857†	18763.9	523.73 µg/L	21.530	523.73 ppb	21.530	4.11%	
QC value within limits for Zn 213.857 Recovery = 104.75%							
All analyte(s) passed QC.							

Sequence No.: 36

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 16:10:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74826.7	74826.7	95.3 %			16:10:58
1	Al 396.153Radial†	-23.9	4.4	2.8638 µg/L		2.8638 ppb	16:10:58
1	Ca 317.933Radial†	237.3	1.7	1.2027 µg/L		1.2027 ppb	16:11:18
1	Fe 238.204 Radial†	17.6	2.1	27.830 µg/L		27.830 ppb	16:11:18
1	K 766.490 Radial†	350.7	-30.9	-19.466 µg/L		-19.466 ppb	16:10:58
1	Mg 279.077 IEC†	11.7	4.1	42.146 µg/L		42.146 ppb	16:11:18
1	Na 589.592 Radial†	330.0	-207.6	-55.265 µg/L		-55.265 ppb	16:10:58
1	Sr 421.552†	658.4	56.6	0.3383 µg/L		0.3383 ppb	16:10:58
1	Sc 361.383	1917343.6	1917343.6	97.009 %			16:12:20
1	Y 371.029	1211421.2	1211421.2	96.983 %			16:12:20
1	Ag 328.068†	-122.5	-33.6	-0.3029 µg/L		-0.3029 ppb	16:12:26
1	As 188.979†	-0.5	2.2	4.9042 µg/L		4.9042 ppb	16:12:46
1	B 249.677†	129.9	-236.0	-11.195 µg/L		-11.195 ppb	16:12:26
1	Ba 233.527†	-19.4	4.0	0.1106 µg/L		0.1106 ppb	16:12:46
1	Be 313.107†	3862.7	148.0	0.0995 µg/L		0.0995 ppb	16:12:26
1	Cd 226.502†	-120.2	1.3	0.0353 µg/L		0.0353 ppb	16:12:46
1	Co 228.616†	-48.9	-1.1	-0.0563 µg/L		-0.0563 ppb	16:12:46
1	Cr 267.716†	-104.5	-5.5	-0.1244 µg/L		-0.1244 ppb	16:12:26
1	Cu 324.752†	3766.1	-17.7	-0.1259 µg/L		-0.1259 ppb	16:12:26
1	Mn 257.610†	-110.9	33.6	0.1210 µg/L		0.1210 ppb	16:12:26
1	Mo 202.031†	18.7	6.7	0.8095 µg/L		0.8095 ppb	16:12:46
1	Ni 231.604†	329.3	8.0	0.4851 µg/L		0.4851 ppb	16:12:46
1	P 214.914†	221.2	8.2	18.897 µg/L		18.897 ppb	16:12:46
1	Pb 220.353†	62.2	2.9	0.8339 µg/L		0.8339 ppb	16:12:46
1	S 181.975 Axial†	19.5	-3.0	-16.870 µg/L		-16.870 ppb	16:12:46
1	Sb 206.836†	21.3	-2.0	-2.1537 µg/L		-2.1537 ppb	16:12:46
1	Se 196.026†	9.4	1.7	2.6764 µg/L		2.6764 ppb	16:12:46
1	SiO2†	2293.6	-25.1	-5.1241 µg/L		-5.1241 ppb	16:12:26
1	Si 251.611†	295.4	22.1	1.7906 µg/L		1.7906 ppb	16:12:46
1	Sn 189.927†	28.8	6.2	3.5264 µg/L		3.5264 ppb	16:12:46
1	Ti 334.940†	759.5	79.0	0.1878 µg/L		0.1878 ppb	16:12:26
1	Tl 190.801†	-24.9	-1.1	-1.8284 µg/L		-1.8284 ppb	16:12:46
1	U 409.014†	-240.8	-62.0	-5.7649 µg/L		-5.7649 ppb	16:12:26
1	V 292.402†	-124.2	-12.8	-0.1521 µg/L		-0.1521 ppb	16:12:26
1	Zn 213.857†	692.4	81.5	2.2853 µg/L		2.2853 ppb	16:12:46
2	Sc RADIAL	74211.1	74211.1	94.6 %			16:11:24
2	Al 396.153Radial†	-20.2	8.2	5.2619 µg/L		5.2619 ppb	16:11:24
2	Ca 317.933Radial†	237.8	4.3	3.1082 µg/L		3.1082 ppb	16:11:44
2	Fe 238.204 Radial†	16.9	1.6	20.733 µg/L		20.733 ppb	16:11:44
2	K 766.490 Radial†	451.9	79.2	49.986 µg/L		49.986 ppb	16:11:24
2	Mg 279.077 IEC†	7.1	-0.6	-6.5311 µg/L		-6.5311 ppb	16:11:44
2	Na 589.592 Radial†	336.6	-197.7	-52.634 µg/L		-52.634 ppb	16:11:24
2	Sr 421.552†	618.2	19.7	0.1179 µg/L		0.1179 ppb	16:11:24
2	Sc 361.383	1928732.1	1928732.1	97.585 %			16:12:52
2	Y 371.029	1218669.5	1218669.5	97.563 %			16:12:52
2	Ag 328.068†	-128.5	-39.1	-0.3510 µg/L		-0.3510 ppb	16:12:58
2	As 188.979†	-3.8	-1.2	-2.5734 µg/L		-2.5734 ppb	16:13:18
2	B 249.677†	142.5	-223.9	-10.615 µg/L		-10.615 ppb	16:12:58
2	Ba 233.527†	-31.1	-7.9	-0.2208 µg/L		-0.2208 ppb	16:13:18
2	Be 313.107†	3875.5	137.6	0.0926 µg/L		0.0926 ppb	16:12:58
2	Cd 226.502†	-110.0	12.6	0.3560 µg/L		0.3560 ppb	16:13:18
2	Co 228.616†	-53.2	-5.2	-0.2765 µg/L		-0.2765 ppb	16:13:18
2	Cr 267.716†	-48.8	52.1	1.1675 µg/L		1.1675 ppb	16:12:58
2	Cu 324.752†	3730.9	-76.7	-0.5599 µg/L		-0.5599 ppb	16:12:58
2	Mn 257.610†	-89.4	56.3	0.2025 µg/L		0.2025 ppb	16:12:58
2	Mo 202.031†	22.7	10.7	1.2977 µg/L		1.2977 ppb	16:13:18
2	Ni 231.604†	336.9	13.9	0.8405 µg/L		0.8405 ppb	16:13:18
2	P 214.914†	216.9	2.5	5.7523 µg/L		5.7523 ppb	16:13:18
2	Pb 220.353†	62.0	2.3	0.6586 µg/L		0.6586 ppb	16:13:18

2	S 181.975 Axial†	18.6	-4.0	-22.474 µg/L	-22.474 ppb	16:13:18
2	Sb 206.836†	24.5	1.1	1.1714 µg/L	1.1714 ppb	16:13:18
2	Se 196.026†	2.3	-5.6	-8.2661 µg/L	-8.2661 ppb	16:13:18
2	SiO2†	2275.3	-57.8	-11.804 µg/L	-11.804 ppb	16:12:58
2	Si 251.611†	292.5	17.3	1.4030 µg/L	1.4030 ppb	16:13:18
2	Sn 189.927†	27.3	4.6	2.5744 µg/L	2.5744 ppb	16:13:18
2	Ti 334.940†	722.6	36.6	0.0890 µg/L	0.0890 ppb	16:12:58
2	Tl 190.801†	-27.7	-3.9	-6.4766 µg/L	-6.4766 ppb	16:13:18
2	U 409.014†	-142.6	40.1	3.7237 µg/L	3.7237 ppb	16:12:58
2	V 292.402†	-108.7	3.9	0.0645 µg/L	0.0645 ppb	16:12:58
2	Zn 213.857†	694.2	79.2	2.2218 µg/L	2.2218 ppb	16:13:18
3	Sc RADIAL	74086.3	74086.3	94.4 %		16:11:50
3	Al 396.153Radial†	-33.3	-5.8	-3.7759 µg/L	-3.7759 ppb	16:11:50
3	Ca 317.933Radial†	247.3	14.8	10.643 µg/L	10.643 ppb	16:12:10
3	Fe 238.204 Radial†	18.1	2.8	37.417 µg/L	37.417 ppb	16:12:10
3	K 766.490 Radial†	382.2	6.2	3.8832 µg/L	3.8832 ppb	16:11:50
3	Mg 279.077 IEC†	10.6	3.1	31.820 µg/L	31.820 ppb	16:12:10
3	Na 589.592 Radial†	316.2	-218.8	-58.243 µg/L	-58.243 ppb	16:11:50
3	Sr 421.552†	655.9	60.7	0.3634 µg/L	0.3634 ppb	16:11:50
3	Sc 361.383	1913120.9	1913120.9	96.796 %		16:13:24
3	Y 371.029	1208484.0	1208484.0	96.748 %		16:13:24
3	Ag 328.068†	-149.4	-61.8	-0.5527 µg/L	-0.5527 ppb	16:13:30
3	As 188.979†	0.2	2.9	6.3119 µg/L	6.3119 ppb	16:13:50
3	B 249.677†	168.2	-196.2	-9.3102 µg/L	-9.3102 ppb	16:13:30
3	Ba 233.527†	-26.4	-3.3	-0.0928 µg/L	-0.0928 ppb	16:13:50
3	Be 313.107†	3863.4	157.5	0.1059 µg/L	0.1059 ppb	16:13:30
3	Cd 226.502†	-129.7	-8.7	-0.2504 µg/L	-0.2504 ppb	16:13:50
3	Co 228.616†	-40.6	7.4	0.3947 µg/L	0.3947 ppb	16:13:50
3	Cr 267.716†	-35.7	65.3	1.4633 µg/L	1.4633 ppb	16:13:30
3	Cu 324.752†	3787.5	12.9	0.0997 µg/L	0.0997 ppb	16:13:30
3	Mn 257.610†	-47.3	99.0	0.3546 µg/L	0.3546 ppb	16:13:30
3	Mo 202.031†	19.2	7.2	0.8746 µg/L	0.8746 ppb	16:13:50
3	Ni 231.604†	324.2	3.6	0.2158 µg/L	0.2158 ppb	16:13:50
3	P 214.914†	224.3	11.9	27.311 µg/L	27.311 ppb	16:13:50
3	Pb 220.353†	66.3	7.4	2.0632 µg/L	2.0632 ppb	16:13:50
3	S 181.975 Axial†	21.8	-0.6	-3.3352 µg/L	-3.3352 ppb	16:13:50
3	Sb 206.836†	27.8	4.7	5.0003 µg/L	5.0003 ppb	16:13:50
3	Se 196.026†	8.3	0.7	1.1335 µg/L	1.1335 ppb	16:13:50
3	SiO2†	2300.3	-13.0	-2.6482 µg/L	-2.6482 ppb	16:13:30
3	Si 251.611†	294.4	21.7	1.7608 µg/L	1.7608 ppb	16:13:50
3	Sn 189.927†	26.0	3.4	1.9098 µg/L	1.9098 ppb	16:13:50
3	Ti 334.940†	777.4	99.3	0.2377 µg/L	0.2377 ppb	16:13:30
3	Tl 190.801†	-26.0	-2.4	-3.9426 µg/L	-3.9426 ppb	16:13:50
3	U 409.014†	-161.3	19.6	1.8154 µg/L	1.8154 ppb	16:13:30
3	V 292.402†	-78.4	34.3	0.4271 µg/L	0.4271 ppb	16:13:30
3	Zn 213.857†	677.5	67.7	1.8986 µg/L	1.8986 ppb	16:13:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1919732.2	97.130 %	0.4086			0.42%
Sc RADIAL	74374.7	94.8 %	0.51			0.53%
Y 371.029	1212858.3	97.098 %	0.4197			0.43%
Ag 328.068†	-44.8	-0.4022 µg/L	0.13257	-0.4022 ppb	0.13257	32.96%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2.3	1.4500 µg/L	4.68184	1.4500 ppb	4.68184	322.90%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.3	2.8809 µg/L	4.77571	2.8809 ppb	4.77571	165.77%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-218.7	-10.373 µg/L	0.9655	-10.373 ppb	0.9655	9.31%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-2.4	-0.0677 µg/L	0.16713	-0.0677 ppb	0.16713	246.95%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	147.7	0.0993 µg/L	0.00666	0.0993 ppb	0.00666	6.70%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	6.9	4.9845 µg/L	4.99183	4.9845 ppb	4.99183	100.15%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.8	0.0470 µg/L	0.30337	0.0470 ppb	0.30337	646.03%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.4	0.0206 µg/L	0.34217	0.0206 ppb	0.34217	>999.9%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	37.3 0.8354 µg/L	0.84433 0.8354 ppb	0.84433 101.06%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-27.2 -0.1954 µg/L	0.33523 -0.1954 ppb	0.33523 171.60%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	2.2 28.660 µg/L	8.3731 28.660 ppb	8.3731 29.22%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	18.2 11.468 µg/L	35.3417 11.468 ppb	35.3417 308.19%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	2.2 22.478 µg/L	25.6480 22.478 ppb	25.6480 114.10%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	62.9 0.2260 µg/L	0.11856 0.2260 ppb	0.11856 52.46%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	8.2 0.9939 µg/L	0.26509 0.9939 ppb	0.26509 26.67%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-208.0 -55.381 µg/L	2.8061 -55.381 ppb	2.8061 5.07%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	8.5 0.5138 µg/L	0.31332 0.5138 ppb	0.31332 60.98%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	7.5 17.320 µg/L	10.8656 17.320 ppb	10.8656 62.73%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	4.2 1.1852 µg/L	0.76538 1.1852 ppb	0.76538 64.58%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-2.6 -14.226 µg/L	9.8393 -14.226 ppb	9.8393 69.16%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	1.3 1.3393 µg/L	3.57991 1.3393 ppb	3.57991 267.29%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-1.1 -1.4854 µg/L	5.92269 -1.4854 ppb	5.92269 398.73%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-32.0 -6.5253 µg/L	4.73585 -6.5253 ppb	4.73585 72.58%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	20.4 1.6515 µg/L	0.21570 1.6515 ppb	0.21570 13.06%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	4.7 2.6702 µg/L	0.81253 2.6702 ppb	0.81253 30.43%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	45.7 0.2732 µg/L	0.13506 0.2732 ppb	0.13506 49.44%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	71.6 0.1715 µg/L	0.07567 0.1715 ppb	0.07567 44.12%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-2.5 -4.0825 µg/L	2.32722 -4.0825 ppb	2.32722 57.00%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-0.8 -0.0753 µg/L	5.01892 -0.0753 ppb	5.01892 >999.9%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	8.5 0.1132 µg/L	0.29266 0.1132 ppb	0.29266 258.62%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	76.1 2.1353 µg/L	0.20735 2.1353 ppb	0.20735 9.71%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Friday, February 05, 2010 10:15:04

Sample Description:

Method File: C:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\100203\Sample.306

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	287.4	287.403	13.939	4.9
Mg	24.0	4139.4	4139.400	142.837	3.5
Co	58.9	12534.1	12534.096	94.249	0.8
Rh	102.9	35865.0	35864.967	329.041	0.9
In	114.9	58601.3	58601.349	168.062	0.3
Pb	208.0	47027.1	47027.082	438.333	0.9
[> Ba	137.9	43906.8	43906.767	275.988	0.6
[Ba++	69.0	834.5	0.019	0.001	3.1
[> Ce	139.9	57236.4	57236.436	437.541	0.8
[CeO	155.9	1111.9	0.019	0.001	4.0
Bkgd	220.0	2.8	2.800	1.204	43.0

Current Optimization File Data

Current Value	Description
1.00	Nebulizer Gas Flow
5.80	Lens Voltage
1450.00	ICP RF Power
-1812.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	17	5.5	373.7
Co	59	17	6.3	14435.6
In	115	17	7.0	75783.5

Sample ID: Sample

Report Date/Time: Friday, February 05, 2010 10:16:23

Page 1

ICPMS#3 Instrument Tuning Report

File Name: 100205.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	588	2060	0.657
Be	9.0	9.0	2069	2060	0.654
Mg	24.0	24.0	5700	2110	0.594
Mg	25.0	25.0	5927	2020	0.689
Mg	26.0	26.0	6193	2140	0.658
Co	58.9	58.9	14199	2125	0.639
Rh	102.9	102.9	24908	2175	0.649
In	114.9	114.9	27825	2180	0.675
Ce	139.9	139.8	33909	2220	0.648
Pb	206.0	206.0	49992	2280	0.663
Pb	207.0	207.0	50284	2310	0.674
Pb	208.0	208.0	50474	2300	0.660
U	238.1	238.0	57838	2340	0.696

ICPMS#3 - Summary Report

Sample ID: Blank
Sample Date/Time: Saturday, February 06, 2010 00:15:15
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: C:\elandata\Dataset\100205\Blank.282

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		145517	
[	Tl	205	ug/L		431	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[Tl	205				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, February 06, 2010 00:19:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\Standard 1.283

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		140257	140257.333
[	Tl	205	10.000 ug/L	0.609	66107	0.468

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[Tl	205				

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

Sample ID: Standard 1

Report Date/Time: Saturday, February 06, 2010 00:19:57

Page 1

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, February 06, 2010 00:24:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\Standard 2.284

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		144157	144156.680
[	Tl	205	99.979 ug/L	1.923	661244	4.586

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[Tl	205				

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

Sample ID: Standard 2

Report Date/Time: Saturday, February 06, 2010 00:24:26

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, February 06, 2010 00:28:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 1.285

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		141406	141405.687
[	TI	205	49.313 ug/L	1.204	320215	2.262

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.2		
[TI	205	98.626			

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

Sample ID: QC Std 1

Report Date/Time: Saturday, February 06, 2010 00:28:55

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, February 06, 2010 00:33:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 2.286

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		140244	140243.569
[	TI	205	0.016 ug/L	23.285	521	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		96.4		
[	TI	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Saturday, February 06, 2010 00:33:29

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, February 06, 2010 00:37:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 3.287

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		143743	143742.720
[	TI	205	1.006 ug/L	2.524	7054	0.046

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		98.8		
[TI	205	100.575			

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

Sample ID: QC Std 3

Report Date/Time: Saturday, February 06, 2010 00:38:00

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, February 06, 2010 00:42:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 4.288

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		121466	121465.710
[TI	205	-0.018	ug/L	11.549	258	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Ti	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			83.5		
[TI	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Saturday, February 06, 2010 00:42:30

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, February 06, 2010 00:46:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 5.289

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		122858	122858.467
[	TI	205	19.428 ug/L	2.578	109789	0.891

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		84.4		
[TI	205	97.141			

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Saturday, February 06, 2010 00:47:02

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 00:51:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 6.290

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		140967	140967.189
[	TI	205	49.097 ug/L	1.262	317893	2.252

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		96.9		
[TI	205	98.193			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 06, 2010 00:55:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 7.291

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		138616	138615.805
[	TI	205	0.002 ug/L	262.632	423	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		95.3		
[TI	205				

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

Sample ID: QC Std 7

Report Date/Time: Saturday, February 06, 2010 00:56:08

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202021504

Sample Date/Time: Saturday, February 06, 2010 01:00:29

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\1 only.mth

Dataset File: C:\elandata\Dataset\100205\1202021504.292

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		150200	150199.695
[TI 205	-0.034	ug/L	3.605	212	-0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			103.2		
[TI 205					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202021505

Sample Date/Time: Saturday, February 06, 2010 01:05:04

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\1202021505.293

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		152091	152091.086
[TI	205	51.000	ug/L	1.735	356055	2.340

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			104.5		
[TI	205					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 245112001

Sample Date/Time: Saturday, February 06, 2010 01:09:39

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\245112001.294

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		148961	148961.056
[	Tl	205	0.083 ug/L	1.756	1010	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		102.4		
[Tl	205				

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

Sample ID: 245112001

Report Date/Time: Saturday, February 06, 2010 01:09:52

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202021506

Sample Date/Time: Saturday, February 06, 2010 01:18:50

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\Ti only.mth

Dataset File: C:\elandata\Dataset\100205\1202021506.296

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		151592	151592.065
[	Tl	205	-0.024 ug/L	8.424	284	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		104.2		
[	Tl	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021506

Report Date/Time: Saturday, February 06, 2010 01:19:04

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202021507

Sample Date/Time: Saturday, February 06, 2010 01:23:25

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100205\1202021507.297

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		154901	154901.242
[	TI	205	101.004 ug/L	1.352	717943	4.633

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		106.4		
[TI	205				

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

Sample ID: 1202021507

Report Date/Time: Saturday, February 06, 2010 01:23:38

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202021508

Sample Date/Time: Saturday, February 06, 2010 01:27:59

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944080|5|prb

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\1202021508.298

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		147834	147833.537
[	Tl	205	0.468 ug/L	4.417	3609	0.021

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		101.6		
[Tl	205				

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

Sample ID: 1202021508

Report Date/Time: Saturday, February 06, 2010 01:28:12

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 01:32:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\1 only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 6.299

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		141909	141908.936
[	Tl	205	49.082 ug/L	0.524	319921	2.252

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.5		
[	Tl	205	98.164			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 06, 2010 01:37:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Tl only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 7.300

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		146416	146415.605
[	Tl	205	0.138 ug/L	6.958	1357	0.006

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		100.6		
[Tl	205				

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

Sample ID: QC Std 7

Report Date/Time: Saturday, February 06, 2010 01:37:18

Page 1

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Friday, January 29, 2010 10:33:23

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default2\Sample.1764

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	3174.0	3173.953	125.221	3.9
Mg	24.0	36293.2	36293.245	207.281	0.6
Co	58.9	71215.9	71215.873	409.898	0.6
Rh	102.9	132974.6	132974.630	808.835	0.6
In	114.9	183362.5	183362.507	1318.809	0.7
Pb	208.0	195545.5	195545.538	1945.968	1.0
[> Ba	137.9	182009.7	182009.668	2562.149	1.4
[Ba++	69.0	3432.7	0.019	0.000	2.6
[> Ce	139.9	224424.8	224424.768	1713.149	0.8
[CeO	155.9	4267.0	0.019	0.000	2.3
Bkgd	220.0	23.4	23.400	4.114	17.6

Current Optimization File Data

Current Value	Description
0.85	Nebulizer Gas Flow
11.00	Lens Voltage
1450.00	ICP RF Power
-1718.75	Analog Stage Voltage
1200.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	19	10.8	4490.0
Co	59	19	11.5	70444.6
In	115	19	13.0	181570.3

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	580	2050	0.661
Be	9.0	9.0	2055	2070	0.642
Mg	24.0	24.0	5677	2070	0.635
Mg	25.0	25.0	5941	2070	0.655
Mg	26.0	26.0	6165	2070	0.654
Co	58.9	58.9	14170	2105	0.643
Rh	102.9	102.9	24869	2165	0.626
In	114.9	114.9	27795	2185	0.631
Ce	139.9	139.9	33867	2200	0.644
Pb	206.0	206.0	49948	2270	0.711
Pb	207.0	207.0	50159	2235	0.672
Pb	208.0	208.0	50463	2260	0.727
U	238.1	238.0	57725	2275	0.723

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, January 29, 2010 11:55:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\Blank.026

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		418682	
[	U	238		ug/L		234	

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

Sample ID: Blank

Report Date/Time: Friday, January 29, 2010 11:55:13

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ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, January 29, 2010 11:57:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\Standard 1.027

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		419966	419965.810
[	U	238	10.000	ug/L	0.460	460976	1.097

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					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, January 29, 2010 11:59:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\Standard 2.028

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		412357	412356.792
[	U	238	99.792	ug/L	0.911	3736434	9.061

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

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

Sample ID: Standard 2

Report Date/Time: Friday, January 29, 2010 11:59:27

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, January 29, 2010 12:01:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 1.029

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		412288	412287.631
[	U	238	52.742	ug/L	1.811	1974136	4.789

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[>	Lu	175			98.5		
[U	238	105.484				

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: Friday, January 29, 2010 12:01:35

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, January 29, 2010 12:03:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 2.030

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		419590	419589.960
[	U	238	0.006	ug/L	3.163	446	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			100.2			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Friday, January 29, 2010 12:03:46

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ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, January 29, 2010 12:05:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 3.031

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		433809	433809.132
[	U	238	0.230	ug/L	2.313	9290	0.021

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175		103.6				
[U	238	114.859					

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 3

Report Date/Time: Friday, January 29, 2010 12:06:03

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, January 29, 2010 12:08:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 4.032

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		399914	399913.739
[	U	238	0.001	ug/L	129.090	244	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		95.5				
[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 4

Report Date/Time: Friday, January 29, 2010 12:08:12

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, January 29, 2010 12:10:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 5.033

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		446405	446404.961
L	U	238	21.069	ug/L	1.135	854259	1.913

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
>	Lu	175		106.6			
L	U	238	105.346				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Friday, January 29, 2010 12:10:28

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 12:12:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.034

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		422191	422190.562
[	U	238	51.750	ug/L	0.365	1983999	4.699

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate	Rel. % Difference
[>	Lu	175			100.8			
[	U	238	103.500					

QC Out Of Limits

Measurement Type: Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Friday, January 29, 2010 12:12:38

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ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 12:14:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.035

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		423111	423110.986
[	U	238	0.005	ug/L	15.578	417	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[>	Lu	175			101.1		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Friday, January 29, 2010 12:14:50

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ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 12:30:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.042

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		420663	420663.092
[	U	238	51.932	ug/L	0.069	1983796	4.715

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			100.5			
[U	238	103.865					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Friday, January 29, 2010 12:30:22

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ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 12:32:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.043

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		425788	425788.188
[	U	238	0.004 ug/L	23.392	401	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		101.7		
[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

Sample ID: QC Std 7

Report Date/Time: Friday, January 29, 2010 12:32:34

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 12:50:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.049

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		420754	420754.458
[	U	238	50.844	ug/L	0.273	1942626	4.616

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
>	Lu	175		100.5			
[U	238	101.688				

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

Sample ID: QC Std 6

Report Date/Time: Friday, January 29, 2010 12:50:55

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 12:52:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.050

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		435533	435532.819
[	U	238	0.003	ug/L	20.420	343	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[>	Lu	175		104.0			
[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: QC Std 7

Report Date/Time: Friday, January 29, 2010 12:53:07

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, January 29, 2010 13:12:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 8.058

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		430729	430728.652
[U	238	48.252	ug/L	0.263	1887311	4.381

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175		102.9			
[U	238	96.504				

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

Sample ID: QC Std 8

Report Date/Time: Friday, January 29, 2010 13:12:31

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, January 29, 2010 13:14:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 9.059

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		436243	436243.355
[	U	238	0.004	ug/L	24.845	390	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			104.2		
[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: Friday, January 29, 2010 13:14:43

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, January 29, 2010 13:28:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 8.065

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		443430	443429.938
[	U	238	46.837	ug/L	0.578	1886044	4.253

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
>	Lu	175			105.9			
[U	238	93.674					

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: Friday, January 29, 2010 13:28:23

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, January 29, 2010 13:30:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 9.066

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		448173	448172.593
[	U	238	0.003	ug/L	7.790	385	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
>	Lu	175		107.0			
[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: QC Std 9

Report Date/Time: Friday, January 29, 2010 13:30:35

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021504

Sample Date/Time: Friday, January 29, 2010 13:32:33

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\1202021504.067

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		423276	423275.717
[	U	238	-0.002	ug/L	11.992	157	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
>	Lu	175		101.1			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021504

Report Date/Time: Friday, January 29, 2010 13:32:43

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021505

Sample Date/Time: Friday, January 29, 2010 13:34:42

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\1202021505.068

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		433687	433686.896
[	U	238	46.569	ug/L	1.198	1833982	4.228

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			103.6			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021505

Report Date/Time: Friday, January 29, 2010 13:34:53

Page 1

ICPMS#5 - Summary Report

Sample ID: 245112001

Sample Date/Time: Friday, January 29, 2010 13:36:51

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\245112001.069

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		421672	421671.767
[	U	238	0.005	ug/L	17.978	434	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			100.7		
[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: 245112001

Report Date/Time: Friday, January 29, 2010 13:37:02

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021506

Sample Date/Time: Friday, January 29, 2010 13:41:12

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\1202021506.071

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		429757	429756.688
[	U	238	-0.001	ug/L	15.549	188	-0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			102.6		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021507

Sample Date/Time: Friday, January 29, 2010 13:43:23

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 9440801|ba|

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\1202021507.072

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		419086	419086.204
[	U	238	49.206	ug/L	1.514	1872346	4.468

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	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: 1202021507

Report Date/Time: Friday, January 29, 2010 13:43:35

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021508

Sample Date/Time: Friday, January 29, 2010 13:45:35

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944080|5|baj

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\1202021508.073

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		434636	434636.454
[	U	238	0.003 ug/L	12.467	344	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		103.8		
[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 8

Sample Date/Time: Friday, January 29, 2010 13:47:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 8.074

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		438096	438095.750
[	U	238	46.839	ug/L	1.435	1863313	4.253

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
>	Lu	175			104.6		
[U	238	93.677				

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

Sample ID: QC Std 8

Report Date/Time: Friday, January 29, 2010 13:47:57

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, January 29, 2010 13:49:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 9.075

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		447404	447404.166
L	U	238	0.004	ug/L	25.838	398	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
>	Lu	175			106.9		
L	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: Blank
Sample Date/Time: Friday, January 29, 2010 20:32:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\100129.mth
Dataset File: C:\elandata\Dataset\100129\Blank.197

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7		ug/L		56	
| Be	9		ug/L		19	
[> Sc	45		ug/L		257908	
| Cr	52		ug/L		-2039	
| Cr	53		ug/L		121338	
| Mn	55		ug/L		978	
[Ni	60		ug/L		236	
[> Ge	74		ug/L		262004	
| As	75		ug/L		301	
| Se	77		ug/L		8732	
| Se	82		ug/L		-14	
[Kr	83		ug/L		88	
[Mo	98		ug/L		74	
| Ag	107		ug/L		55	
| Cd	111		ug/L		21	
| Cd	114		ug/L		40	
[> In	115		ug/L		181560	
| Sb	121		ug/L		248	
[Sb	123		ug/L		199	
[> Lu	175		ug/L		391348	
| Tl	205		ug/L		2981	
[Pb	208		ug/L		537	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Simple Linear	
Sc	45Linear Thru Zero	
Cr	52Simple Linear	
Cr	53Simple Linear	
Mn	55Simple Linear	
Ni	60Simple Linear	
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Mo	98Simple Linear	
Ag	107Simple Linear	
Cd	111Simple Linear	
Cd	114Simple Linear	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Simple Linear	
Tl	205Simple Linear	
Pb	208Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
>	Sc	45						
|	Cr	52						
|	Cr	53						
|	Mn	55						
[	Ni	60						
>	Ge	74						
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
>	In	115						
|	Sb	121						
[	Sb	123						
>	Lu	175						
|	Tl	205						
[	Pb	208						

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: Standard 1

Sample Date/Time: Friday, January 29, 2010 20:36:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\Standard 1.198

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	10.000	ug/L	3.812	14623	0.055
|	Be	9	10.000	ug/L	2.572	3543	0.013
>	Sc	45		ug/L		264411	264411.240
|	Cr	52	10.000	ug/L	2.705	34050	0.137
|	Cr	53		ug/L		129435	0.019
|	Mn	55	10.000	ug/L	4.007	58800	0.219
[	Ni	60	10.000	ug/L	3.040	9815	0.036
>	Ge	74		ug/L		266345	266344.920
|	As	75	10.000	ug/L	4.309	7632	0.028
|	Se	77		ug/L		9708	0.003
|	Se	82	10.000	ug/L	4.042	724	0.003
[	Kr	83		ug/L		89	-0.000
[	Mo	98	10.000	ug/L	3.200	23197	0.127
|	Ag	107	10.000	ug/L	0.690	41629	0.228
|	Cd	111	10.000	ug/L	1.894	10228	0.056
|	Cd	114		ug/L		25151	0.138
>	In	115		ug/L		182463	182462.522
|	Sb	121	10.000	ug/L	4.123	39336	0.214
[	Sb	123		ug/L		30800	0.168
>	Lu	175		ug/L		394035	394034.586
|	Tl	205	10.000	ug/L	5.071	196161	0.491
[Pb	208	10.000	ug/L	3.166	296452	0.751

Sample ID: Standard 1

Report Date/Time: Friday, January 29, 2010 20:37:55

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
[>	Sc	45					
|	Cr	52					
|	Cr	53					
|	Mn	55					
[	Ni	60					
[>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
[>	In	115					
|	Sb	121					
[	Sb	123					
[>	Lu	175					
|	Tl	205					
[	Pb	208					

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: Standard 2

Sample Date/Time: Friday, January 29, 2010 20:39:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\Standard 2.199

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	99.981	ug/L	2.858	143380	0.541
|	Be	9	99.957	ug/L	2.216	33869	0.128
>	Sc	45		ug/L		264979	264978.948
|	Cr	52	99.964	ug/L	1.573	347457	1.319
|	Cr	53		ug/L		143717	0.072
|	Mn	55	99.966	ug/L	3.548	561425	2.115
|	Ni	60	99.967	ug/L	2.327	93102	0.350
>	Ge	74		ug/L		270010	270009.875
|	As	75	100.042	ug/L	1.333	77885	0.287
|	Se	77		ug/L		12579	0.013
|	Se	82	99.978	ug/L	1.373	7307	0.027
|	Kr	83		ug/L		106	0.000
[	Mo	98	99.967	ug/L	2.812	229029	1.227
|	Ag	107	99.919	ug/L	0.346	393323	2.107
|	Cd	111	99.992	ug/L	2.878	103533	0.555
|	Cd	114		ug/L		250738	1.343
>	In	115		ug/L		186649	186648.681
|	Sb	121	99.962	ug/L	2.354	385270	2.063
|	Sb	123		ug/L		306804	1.643
>	Lu	175		ug/L		399152	399151.740
|	Tl	205	99.805	ug/L	0.643	1639304	4.099
	Pb	208	99.881	ug/L	0.469	2677208	6.706

Sample ID: Standard 2

Report Date/Time: Friday, January 29, 2010 20:41:29

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45					
|	Cr	52					
|	Cr	53					
|	Mn	55					
L	Ni	60					
[>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
L	Kr	83					
[	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115					
|	Sb	121					
L	Sb	123					
[>	Lu	175					
|	Tl	205					
L	Pb	208					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, January 29, 2010 20:43:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 1.200

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	48.893	ug/L	2.401	71574	0.265
Be	9	49.756	ug/L	1.971	17214	0.064
> Sc	45		ug/L		270434	270433.707
Cr	52	49.807	ug/L	2.974	175638	0.657
Cr	53		ug/L		134668	0.028
Mn	55	49.878	ug/L	2.104	286371	1.055
Ni	60	50.056	ug/L	3.575	47685	0.175
> Ge	74		ug/L		275958	275957.928
As	75	45.408	ug/L	3.061	36301	0.130
Se	77		ug/L		10677	0.005
Se	82	47.340	ug/L	1.866	3528	0.013
Kr	83		ug/L		92	-0.000
Mo	98	49.002	ug/L	3.970	112502	0.601
Ag	107	50.311	ug/L	1.945	198447	1.061
Cd	111	49.235	ug/L	3.392	51087	0.273
Cd	114		ug/L		123131	0.658
> In	115		ug/L		187021	187021.112
Sb	121	50.938	ug/L	3.139	196818	1.051
Sb	123		ug/L		155998	0.833
> Lu	175		ug/L		401157	401157.212
Tl	205	51.565	ug/L	2.519	852388	2.118
Pb	208	52.124	ug/L	2.142	1403977	3.500

Sample ID: QC Std 1

Report Date/Time: Friday, January 29, 2010 20:45:03

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	97.786				
|	Be	9	99.512				
|>	Sc	45		104.9			
|	Cr	52	99.614				
|	Cr	53					
|	Mn	55	99.756				
|	Ni	60	100.112				
|>	Ge	74		105.3			
|	As	75	90.815				
|	Se	77					
|	Se	82	94.679				
|	Kr	83					
|	Mo	98	98.003				
|	Ag	107	100.623				
|	Cd	111	98.470				
|	Cd	114					
|>	In	115		103.0			
|	Sb	121	101.877				
|	Sb	123					
|>	Lu	175		102.5			
|	Tl	205	103.129				
|	Pb	208	104.249				

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 2

Sample Date/Time: Friday, January 29, 2010 20:47:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 2.201

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.004 ug/L	118.124	63	0.000
|	Be	9	0.002 ug/L	1442.448	20	0.000
>	Sc	45	ug/L		266474	266474.264
|	Cr	52	0.376 ug/L	25.053	-782	0.005
|	Cr	53	ug/L		105195	-0.076
|	Mn	55	-0.017 ug/L	27.715	914	-0.000
[	Ni	60	-0.010 ug/L	105.781	235	-0.000
>	Ge	74	ug/L		266758	266758.081
|	As	75	-0.525 ug/L	67.507	-92	-0.002
|	Se	77	ug/L		6978	-0.007
|	Se	82	-0.094 ug/L	118.033	-21	-0.000
[	Kr	83	ug/L		92	0.000
[	Mo	98	0.046 ug/L	11.660	181	0.001
|	Ag	107	0.001 ug/L	362.019	60	0.000
|	Cd	111	0.003 ug/L	252.541	25	0.000
|	Cd	114	ug/L		54	0.000
>	In	115	ug/L		186357	186357.474
|	Sb	121	0.577 ug/L	5.782	2475	0.012
[	Sb	123	ug/L		1973	0.009
>	Lu	175	ug/L		400009	400008.857
|	Tl	205	0.477 ug/L	17.200	10893	0.020
[Pb	208	0.001 ug/L	160.112	573	0.000

Sample ID: QC Std 2

Report Date/Time: Friday, January 29, 2010 20:48:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[Li	7					
[Be	9					
[> Sc	45		103.3			
[Cr	52					
[Cr	53					
[Mn	55					
[Ni	60					
[> Ge	74		101.8			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[Mo	98					
[Ag	107					
[Cd	111					
[Cd	114					
[> In	115		102.6			
[Sb	121					
[Sb	123					
[> Lu	175		102.2			
[Tl	205					
[Pb	208					

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 3

Sample Date/Time: Friday, January 29, 2010 20:50:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 3.202

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	11.131	ug/L	0.275	15758	0.060
Be	9	0.625	ug/L	5.362	227	0.001
> Sc	45		ug/L		260693	260692.876
Cr	52	11.066	ug/L	2.702	35999	0.146
Cr	53		ug/L		121126	-0.006
Mn	55	5.754	ug/L	0.552	32732	0.122
Ni	60	2.159	ug/L	3.074	2213	0.008
> Ge	74		ug/L		260214	260214.441
As	75	4.944	ug/L	11.031	3995	0.014
Se	77		ug/L		8311	-0.001
Se	82	5.563	ug/L	7.718	379	0.002
Kr	83		ug/L		79	-0.000
Mo	98	0.560	ug/L	1.467	1338	0.007
Ag	107	1.053	ug/L	2.345	4133	0.022
Cd	111	1.117	ug/L	3.466	1159	0.006
Cd	114		ug/L		2698	0.014
> In	115		ug/L		183688	183687.883
Sb	121	3.554	ug/L	1.333	13724	0.073
Sb	123		ug/L		10858	0.058
> Lu	175		ug/L		395404	395404.306
Tl	205	1.332	ug/L	2.425	24641	0.055
Pb	208	2.378	ug/L	1.732	63662	0.160

Sample ID: QC Std 3

Report Date/Time: Friday, January 29, 2010 20:52:17

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recov	Dilution	% Di	Duplicate	Rel. % Difference
[	Li	7		111.313								
|	Be	9		124.988								
|>	Sc	45				101.1						
|	Cr	52		110.662								
|	Cr	53										
|	Mn	55		115.083								
|	Ni	60		107.969								
|>	Ge	74				99.3						
|	As	75		98.879								
|	Se	77										
|	Se	82		111.263								
|	Kr	83										
|	Mo	98		112.072								
|	Ag	107		105.272								
|	Cd	111		111.693								
|	Cd	114										
|>	In	115				101.2						
|	Sb	121		118.460								
|	Sb	123										
|>	Lu	175				101.0						
|	Tl	205		133.217								
|	Pb	208		118.908								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Tl	205	CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, January 29, 2010 20:54:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 4.203

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.065	ug/L	17.890	152	0.000
|	Be	9	0.099	ug/L	19.512	54	0.000
>	Sc	45		ug/L		267864	267863.511
|	Cr	52	3.017	ug/L	2.164	8545	0.040
|	Cr	53		ug/L		93131	-0.123
|	Mn	55	6.121	ug/L	2.598	35718	0.130
[	Ni	60	2.907	ug/L	4.719	2976	0.010
>	Ge	74		ug/L		274724	274723.535
|	As	75	-0.405	ug/L	140.131	-7	-0.001
|	Se	77		ug/L		7752	-0.005
|	Se	82	-1.282	ug/L	21.407	-110	-0.000
[	Kr	83		ug/L		214	0.000
[	Mo	98	1964.723	ug/L	2.581	4467427	24.114
|	Ag	107	0.111	ug/L	10.526	489	0.002
|	Cd	111	0.664	ug/L	8.781	705	0.004
|	Cd	114		ug/L		6072	0.033
>	In	115		ug/L		185299	185298.879
|	Sb	121	0.272	ug/L	17.385	1292	0.006
[	Sb	123		ug/L		1067	0.005
>	Lu	175		ug/L		393331	393331.179
|	Tl	205	0.029	ug/L	34.577	3469	0.001
[Pb	208	0.237	ug/L	2.625	6792	0.016

Sample ID: QC Std 4

Report Date/Time: Friday, January 29, 2010 20:55:52

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45			103.9		
|	Cr	52	91.430				
|	Cr	53					
|	Mn	55	105.534				
|	Ni	60	87.827				
|>	Ge	74			104.9		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98	98.236				
|	Ag	107					
|	Cd	111	149.569				
|	Cd	114					
|>	In	115			102.1		
|	Sb	121					
|	Sb	123					
|>	Lu	175			100.5		
|	Tl	205					
|	Pb	208	125.313				

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 5

Sample Date/Time: Friday, January 29, 2010 20:57:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 5.204

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	18.224	ug/L	1.447	27832	0.099
|	Be	9	17.970	ug/L	1.957	6491	0.023
|>	Sc	45		ug/L		281692	281691.715
|	Cr	52	22.330	ug/L	1.203	80786	0.295
|	Cr	53		ug/L		100760	-0.113
|	Mn	55	26.043	ug/L	0.272	156308	0.551
|	Ni	60	21.703	ug/L	2.706	21696	0.076
|>	Ge	74		ug/L		290522	290522.166
|	As	75	19.097	ug/L	7.458	16257	0.055
|	Se	77		ug/L		8437	-0.004
|	Se	82	17.946	ug/L	4.789	1399	0.005
|	Kr	83		ug/L		217	0.000
|	Mo	98	1888.965	ug/L	3.990	4436714	23.184
|	Ag	107	19.757	ug/L	1.827	79816	0.417
|	Cd	111	20.081	ug/L	5.346	21334	0.111
|	Cd	114		ug/L		55760	0.291
|>	In	115		ug/L		191521	191521.159
|	Sb	121	21.397	ug/L	2.711	84803	0.442
|	Sb	123		ug/L		66735	0.348
|>	Lu	175		ug/L		405355	405355.237
|	Tl	205	20.030	ug/L	1.868	336639	0.823
	Pb	208	20.398	ug/L	2.046	555581	1.369

Sample ID: QC Std 5

Report Date/Time: Friday, January 29, 2010 20:59:29

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	91.118				
|	Be	9	89.848				
|>	Sc	45		109.2			
|	Cr	52	95.838				
|	Cr	53					
|	Mn	55	100.944				
|	Ni	60	93.107				
|>	Ge	74		110.9			
|	As	75	95.485				
|	Se	77					
|	Se	82	89.728				
|	Kr	83					
|	Mo	98	94.448				
|	Ag	107	98.783				
|	Cd	111	98.225				
|	Cd	114					
|>	In	115		105.5			
|	Sb	121	106.985				
|	Sb	123					
|>	Lu	175		103.6			
|	Tl	205	100.152				
|	Pb	208	101.034				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 21:01:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.205

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	47.115	ug/L	3.235	72986	0.255
| Be	9	47.503	ug/L	0.795	17399	0.061
[> Sc	45		ug/L		286196	286196.283
| Cr	52	49.795	ug/L	2.092	185763	0.657
| Cr	53		ug/L		132982	-0.006
| Mn	55	51.362	ug/L	1.996	312092	1.087
| Ni	60	50.235	ug/L	1.531	50657	0.176
[> Ge	74		ug/L		293070	293069.962
| As	75	46.824	ug/L	1.061	39747	0.134
| Se	77		ug/L		10036	0.001
| Se	82	48.179	ug/L	2.148	3814	0.013
| Kr	83		ug/L		104	0.000
[Mo	98	49.310	ug/L	2.009	120550	0.605
| Ag	107	50.627	ug/L	1.506	212595	1.068
| Cd	111	48.814	ug/L	0.736	53934	0.271
| Cd	114		ug/L		131484	0.660
[> In	115		ug/L		199075	199075.229
| Sb	121	50.973	ug/L	0.716	209723	1.052
| Sb	123		ug/L		164272	0.824
[> Lu	175		ug/L		417866	417865.856
| Tl	205	50.092	ug/L	0.995	862817	2.057
| Pb	208	51.462	ug/L	2.570	1443738	3.455

Sample ID: QC Std 6

Report Date/Time: Friday, January 29, 2010 21:03:05

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	94.231				
|	Be	9	95.006				
|>	Sc	45		111.0			
|	Cr	52	99.590				
|	Cr	53					
|	Mn	55	102.723				
|	Ni	60	100.471				
|>	Ge	74		111.9			
|	As	75	93.648				
|	Se	77					
|	Se	82	96.357				
|	Kr	83					
|	Mo	98	98.619				
|	Ag	107	101.253				
|	Cd	111	97.628				
|	Cd	114					
|>	In	115		109.6			
|	Sb	121	101.946				
|	Sb	123					
|>	Lu	175		106.8			
|	Tl	205	100.184				
|	Pb	208	102.925				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 21:05:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.206

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.000	ug/L	774.096	64	0.000
Be	9	-0.006	ug/L	286.878	19	-0.000
> Sc	45		ug/L		292721	292721.491
Cr	52	-0.148	ug/L	51.722	-2887	-0.002
Cr	53		ug/L		106102	-0.108
Mn	55	-0.028	ug/L	4.833	936	-0.001
Ni	60	-0.004	ug/L	202.899	264	-0.000
> Ge	74		ug/L		300133	300133.342
As	75	-0.006	ug/L	2885.165	340	-0.000
Se	77		ug/L		6597	-0.011
Se	82	0.188	ug/L	88.846	-1	0.000
Kr	83		ug/L		96	-0.000
Mo	98	0.095	ug/L	1.219	314	0.001
Ag	107	0.003	ug/L	36.940	72	0.000
Cd	111	-0.002	ug/L	373.726	21	-0.000
Cd	114		ug/L		51	0.000
> In	115		ug/L		200125	200125.070
Sb	121	0.198	ug/L	6.429	1091	0.004
Sb	123		ug/L		859	0.003
> Lu	175		ug/L		416893	416893.445
Tl	205	0.686	ug/L	25.286	14918	0.028
Pb	208	0.003	ug/L	26.113	643	0.000

Sample ID: QC Std 7

Report Date/Time: Friday, January 29, 2010 21:06:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		113.5			
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74		114.6			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		110.2			
|	Sb	121					
|	Sb	123					
|>	Lu	175		106.5			
|	Tl	205					
|	Pb	208					

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 10

Sample Date/Time: Friday, January 29, 2010 21:08:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 10.207

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	873.040	ug/L	1.867	1302881	4.723
|	Be	9	921.045	ug/L	0.574	324796	1.177
[>	Sc	45		ug/L		275913	275913.461
|	Cr	52	830.306	ug/L	0.564	3020945	10.958
|	Cr	53		ug/L		500525	1.345
|	Mn	55	846.230	ug/L	0.538	4941952	17.906
[	Ni	60	869.896	ug/L	0.783	841830	3.050
[>	Ge	74		ug/L		282206	282206.191
|	As	75	847.110	ug/L	3.107	686650	2.433
|	Se	77		ug/L		32429	0.082
|	Se	82	454.358	ug/L	1.896	34752	0.123
[	Kr	83		ug/L		132	0.000
[	Mo	98	941.375	ug/L	0.666	2203398	11.554
|	Ag	107	230.711	ug/L	1.286	927747	4.865
|	Cd	111	899.422	ug/L	1.883	951411	4.990
|	Cd	114		ug/L		2252979	11.813
[>	In	115		ug/L		190712	190712.316
|	Sb	121	232.819	ug/L	1.879	916513	4.806
[	Sb	123		ug/L		742962	3.896
[>	Lu	175		ug/L		412640	412640.208
|	Tl	205	440.958	ug/L	0.577	7476050	18.112
[	Pb	208	4299.959	ug/L	2.512	119071174	288.694

Sample ID: QC Std 10

Report Date/Time: Friday, January 29, 2010 21:10:18

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	87.304				
|	Be	9	92.104				
|>	Sc	45		107.0			
|	Cr	52	83.031				
|	Cr	53					
|	Mn	55	84.623				
[	Ni	60	86.990				
|>	Ge	74		107.7			
|	As	75	84.711				
|	Se	77					
|	Se	82	90.872				
[	Kr	83					
|	Mo	98	94.137				
|	Ag	107	92.284				
|	Cd	111	89.942				
|	Cd	114					
|>	In	115		105.0			
|	Sb	121	93.127				
[	Sb	123					
|>	Lu	175		105.4			
|	Tl	205	88.192				
[	Pb	208	85.999				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	Li	7	LRS is out of limits (+/- 10%)
QC Std 10	Cr	52	LRS is out of limits (+/- 10%)
QC Std 10	Mn	55	LRS is out of limits (+/- 10%)
QC Std 10	Ni	60	LRS is out of limits (+/- 10%)
QC Std 10	As	75	LRS is out of limits (+/- 10%)
QC Std 10	Cd	111	LRS is out of limits (+/- 10%)
QC Std 10	Tl	205	LRS is out of limits (+/- 10%)
QC Std 10	Pb	208	LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Friday, January 29, 2010 21:12:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 11.208

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	46.144	ug/L	2.681	74036	0.250
|	Be	9	48.146	ug/L	3.493	18252	0.062
>	Sc	45		ug/L		296384	296383.993
|	Cr	52	50.874	ug/L	1.714	196663	0.671
|	Cr	53		ug/L		133237	-0.021
|	Mn	55	51.435	ug/L	2.352	323603	1.088
|	Ni	60	50.804	ug/L	1.847	53050	0.178
>	Ge	74		ug/L		298771	298771.494
|	As	75	48.072	ug/L	1.786	41590	0.138
|	Se	77		ug/L		9472	-0.002
|	Se	82	49.521	ug/L	1.982	3996	0.013
|	Kr	83		ug/L		100	-0.000
[	Mo	98	52.118	ug/L	2.484	126491	0.640
|	Ag	107	53.171	ug/L	2.318	221605	1.121
|	Cd	111	51.680	ug/L	0.659	56683	0.287
|	Cd	114		ug/L		134517	0.681
>	In	115		ug/L		197622	197622.261
|	Sb	121	54.403	ug/L	0.673	222179	1.123
|	Sb	123		ug/L		174313	0.881
>	Lu	175		ug/L		414773	414773.366
|	Tl	205	53.734	ug/L	0.835	918562	2.207
	Pb	208	53.167	ug/L	1.429	1481061	3.570

Sample ID: QC Std 11

Report Date/Time: Friday, January 29, 2010 21:13:52

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	92.288				
|	Be	9	96.292				
|>	Sc	45		114.9			
|	Cr	52	101.748				
|	Cr	53					
|	Mn	55	102.869				
|	Ni	60	101.607				
|>	Ge	74		114.0			
|	As	75	96.144				
|	Se	77					
|	Se	82	99.042				
|	Kr	83					
[	Mo	98	104.236				
|	Ag	107	106.341				
|	Cd	111	103.359				
|	Cd	114					
|>	In	115		108.8			
|	Sb	121	108.806				
|	Sb	123					
|>	Lu	175		106.0			
|	Tl	205	107.467				
|	Pb	208	106.335				

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 12

Sample Date/Time: Friday, January 29, 2010 21:15:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 12.209

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.046	ug/L	9.470	141	0.000
| Be	9	-0.008	ug/L	113.854	19	-0.000
> Sc	45		ug/L		301165	301165.216
| Cr	52	0.031	ug/L	415.358	-2254	0.000
| Cr	53		ug/L		106499	-0.117
| Mn	55	-0.025	ug/L	25.510	981	-0.001
| Ni	60	0.015	ug/L	152.220	291	0.000
> Ge	74		ug/L		307158	307158.084
| As	75	0.358	ug/L	63.572	667	0.001
| Se	77		ug/L		6294	-0.013
| Se	82	0.063	ug/L	201.043	-11	0.000
| Kr	83		ug/L		98	-0.000
[Mo	98	0.154	ug/L	3.844	469	0.002
| Ag	107	0.002	ug/L	171.498	72	0.000
| Cd	111	0.010	ug/L	35.753	35	0.000
| Cd	114		ug/L		57	0.000
> In	115		ug/L		204750	204750.057
| Sb	121	1.167	ug/L	8.539	5206	0.024
| Sb	123		ug/L		4028	0.019
> Lu	175		ug/L		423125	423124.568
| Tl	205	0.717	ug/L	18.997	15686	0.029
Pb	208	0.024	ug/L	28.439	1261	0.002

Sample ID: QC Std 12

Report Date/Time: Friday, January 29, 2010 21:17:31

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45			116.8		
|	Cr	52					
|	Cr	53					
|	Mn	55					
L	Ni	60					
|>	Ge	74			117.2		
|	As	75					
|	Se	77					
|	Se	82					
L	Kr	83					
[	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115			112.8		
|	Sb	121					
L	Sb	123					
|>	Lu	175			108.1		
|	Tl	205					
L	Pb	208					

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: 1202021504

Sample Date/Time: Friday, January 29, 2010 21:19:29

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021504.210

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.075	ug/L	8.461	197	0.000
| Be	9	-0.013	ug/L	104.622	18	-0.000
> Sc	45		ug/L		316209	316208.628
| Cr	52	-0.542	ug/L	13.358	-4767	-0.007
| Cr	53		ug/L		252447	0.328
| Mn	55	0.094	ug/L	7.771	1828	0.002
[Ni	60	-0.135	ug/L	8.466	140	-0.000
> Ge	74		ug/L		316660	316659.652
| As	75	-0.087	ug/L	715.447	282	-0.000
| Se	77		ug/L		17924	0.023
| Se	82	-0.034	ug/L	752.574	-20	-0.000
[Kr	83		ug/L		109	0.000
[Mo	98	0.066	ug/L	18.480	248	0.001
| Ag	107	-0.003	ug/L	9.675	50	-0.000
| Cd	111	0.003	ug/L	463.740	27	0.000
| Cd	114		ug/L		31	-0.000
> In	115		ug/L		204159	204159.361
| Sb	121	0.732	ug/L	23.350	3350	0.015
[Sb	123		ug/L		2584	0.012
> Lu	175		ug/L		433860	433859.591
| Tl	205	0.174	ug/L	5.214	6409	0.007
[Pb	208	0.002	ug/L	132.342	644	0.000

Sample ID: 1202021504

Report Date/Time: Friday, January 29, 2010 21:21:06

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		122.6			
|	Cr	52					
|	Cr	53					
|	Mn	55					
[	Ni	60					
|>	Ge	74		120.9			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		112.4			
|	Sb	121					
[	Sb	123					
|>	Lu	175		110.9			
|	Tl	205					
[	Pb	208					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for san	Sc	45	
Ge 74 Int Std for san	Ge	74	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1202021505

Sample Date/Time: Friday, January 29, 2010 21:23:05

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021505.211

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	42.667	ug/L	2.022	72945	0.231
| Be	9	46.384	ug/L	2.169	18741	0.059
|> Sc	45		ug/L		315760	315759.956
| Cr	52	47.404	ug/L	2.741	195015	0.626
| Cr	53		ug/L		286382	0.437
| Mn	55	48.381	ug/L	2.619	324370	1.024
| Ni	60	47.999	ug/L	1.555	53416	0.168
|> Ge	74		ug/L		322555	322555.344
| As	75	47.158	ug/L	3.696	44055	0.135
| Se	77		ug/L		21355	0.033
| Se	82	47.288	ug/L	2.834	4120	0.013
| Kr	83		ug/L		110	0.000
[Mo	98	47.302	ug/L	1.209	117722	0.581
| Ag	107	48.899	ug/L	0.891	209004	1.031
| Cd	111	49.536	ug/L	1.514	55711	0.275
| Cd	114		ug/L		133196	0.657
|> In	115		ug/L		202635	202634.692
| Sb	121	51.291	ug/L	0.972	214794	1.059
| Sb	123		ug/L		167830	0.827
|> Lu	175		ug/L		426157	426156.627
| Tl	205	47.208	ug/L	0.780	829573	1.939
Pb	208	51.559	ug/L	1.013	1475690	3.462

Sample ID: 1202021505

Report Date/Time: Friday, January 29, 2010 21:24:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		122.4			
|	Cr	52					
|	Cr	53					
|	Mn	55					
[	Ni	60					
|>	Ge	74		123.1			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		111.6			
|	Sb	121					
[	Sb	123					
|>	Lu	175		108.9			
|	Tl	205					
[	Pb	208					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for samSc		45	
Ge 74 Int Std for samGe		74	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 245112001

Sample Date/Time: Friday, January 29, 2010 21:26:41

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\245112001.212

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.117	ug/L	1.991	270	0.001
|	Be	9	-0.002	ug/L	276.681	22	-0.000
>	Sc	45		ug/L		316208	316207.961
|	Cr	52	0.717	ug/L	71.742	516	0.009
|	Cr	53		ug/L		276737	0.405
|	Mn	55	0.867	ug/L	2.655	7001	0.018
L	Ni	60	-0.074	ug/L	16.531	208	-0.000
>	Ge	74		ug/L		320844	320843.630
|	As	75	-0.142	ug/L	652.592	250	-0.000
|	Se	77		ug/L		19170	0.026
|	Se	82	0.024	ug/L	750.320	-15	0.000
L	Kr	83		ug/L		99	-0.000
[	Mo	98	0.048	ug/L	7.864	199	0.001
|	Ag	107	0.003	ug/L	38.648	72	0.000
|	Cd	111	0.062	ug/L	16.211	93	0.000
|	Cd	114		ug/L		218	0.001
>	In	115		ug/L		200249	200249.178
|	Sb	121	0.171	ug/L	5.150	982	0.004
L	Sb	123		ug/L		739	0.003
>	Lu	175		ug/L		421704	421703.950
|	Tl	205	1.183	ug/L	18.794	23711	0.049
L	Pb	208	0.154	ug/L	0.597	4925	0.010

Sample ID: 245112001

Report Date/Time: Friday, January 29, 2010 21:28:19

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		122.6			
|	Cr	52					
|	Cr	53					
|	Mn	55					
[	Ni	60					
|>	Ge	74		122.5			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		110.3			
|	Sb	121					
[	Sb	123					
|>	Lu	175		107.8			
|	Tl	205					
[	Pb	208					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for san	Sc	45	
Ge 74 Int Std for san	Ge	74	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1202021506

Sample Date/Time: Friday, January 29, 2010 21:33:55

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021506.214

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.101	ug/L	6.822	232	0.001
| Be	9	0.000	ug/L	21564.678	22	0.000
> Sc	45		ug/L		302137	302137.058
| Cr	52	0.535	ug/L	74.297	-263	0.007
| Cr	53		ug/L		313507	0.567
| Mn	55	0.675	ug/L	3.029	5460	0.014
[Ni	60	-0.033	ug/L	35.201	242	-0.000
> Ge	74		ug/L		313156	313155.662
| As	75	-0.730	ug/L	75.118	-301	-0.002
| Se	77		ug/L		23437	0.042
| Se	82	0.028	ug/L	478.038	-14	0.000
[Kr	83		ug/L		107	0.000
[Mo	98	0.014	ug/L	45.101	114	0.000
| Ag	107	0.000	ug/L	188.974	62	0.000
| Cd	111	-0.001	ug/L	594.722	22	-0.000
| Cd	114		ug/L		27	-0.000
> In	115		ug/L		198635	198634.911
| Sb	121	0.050	ug/L	24.445	474	0.001
[Sb	123		ug/L		352	0.001
> Lu	175		ug/L		416693	416692.772
| Tl	205	0.143	ug/L	10.146	5617	0.006
[Pb	208	0.186	ug/L	1.875	5767	0.012

Sample ID: 1202021506

Report Date/Time: Friday, January 29, 2010 21:35:33

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate	Rel. % Difference
[	Li	7						
|	Be	9						
|>	Sc	45		117.1				
|	Cr	52						
|	Cr	53						
|	Mn	55						
|	Ni	60						
|>	Ge	74		119.5				
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
|	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
|>	In	115		109.4				
|	Sb	121						
|	Sb	123						
|>	Lu	175		106.5				
|	Tl	205						
|	Pb	208						

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: 1202021507

Sample Date/Time: Friday, January 29, 2010 21:37:33

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021507.215

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	45.019	ug/L	3.874	73970	0.244
|	Be	9	48.766	ug/L	1.717	18939	0.062
>	Sc	45		ug/L		303479	303479.105
|	Cr	52	49.333	ug/L	2.837	195165	0.651
|	Cr	53		ug/L		298709	0.514
|	Mn	55	50.233	ug/L	2.841	323694	1.063
[	Ni	60	49.723	ug/L	1.397	53181	0.174
>	Ge	74		ug/L		310482	310481.758
|	As	75	74.193	ug/L	0.522	66519	0.213
|	Se	77		ug/L		21123	0.035
|	Se	82	20.260	ug/L	2.952	1689	0.005
[	Kr	83		ug/L		110	0.000
[	Mo	98	50.039	ug/L	0.318	121345	0.614
|	Ag	107	52.612	ug/L	1.457	219110	1.109
|	Cd	111	10.418	ug/L	0.893	11436	0.058
|	Cd	114		ug/L		27114	0.137
>	In	115		ug/L		197450	197449.898
|	Sb	121	207.327	ug/L	0.696	845224	4.279
[	Sb	123		ug/L		677150	3.428
>	Lu	175		ug/L		419333	419332.914
|	Tl	205	83.628	ug/L	5.550	1443112	3.435
[Pb	208	43.069	ug/L	0.925	1213012	2.892

Sample ID: 1202021507

Report Date/Time: Friday, January 29, 2010 21:39:11

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		117.7			
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74		118.5			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		108.8			
|	Sb	121					
|	Sb	123					
|>	Lu	175		107.2			
|	Tl	205					
|	Pb	208					

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: 1202021508

Sample Date/Time: Friday, January 29, 2010 21:41:11

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944080|5|baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021508.216

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.024	ug/L	17.744	103	0.000
| Be	9	-0.003	ug/L	262.418	20	-0.000
> Sc	45		ug/L		293036	293036.470
| Cr	52	0.488	ug/L	26.674	-431	0.006
| Cr	53		ug/L		173618	0.122
| Mn	55	0.135	ug/L	13.596	1946	0.003
| Ni	60	-0.059	ug/L	13.788	208	-0.000
> Ge	74		ug/L		297312	297312.461
| As	75	-0.219	ug/L	303.505	154	-0.001
| Se	77		ug/L		11822	0.006
| Se	82	-0.164	ug/L	115.607	-29	-0.000
| Kr	83		ug/L		109	0.000
[Mo	98	0.023	ug/L	36.273	137	0.000
| Ag	107	-0.001	ug/L	15.222	57	-0.000
| Cd	111	0.003	ug/L	380.445	27	0.000
| Cd	114		ug/L		32	-0.000
> In	115		ug/L		200558	200558.006
| Sb	121	0.024	ug/L	7.151	374	0.001
| Sb	123		ug/L		297	0.000
> Lu	175		ug/L		423630	423630.438
| Tl	205	3.923	ug/L	15.232	71564	0.161
[Pb	208	0.031	ug/L	5.054	1473	0.002

Sample ID: 1202021508

Report Date/Time: Friday, January 29, 2010 21:42:50

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		113.6			
|	Cr	52					
|	Cr	53					
|	Mn	55					
[	Ni	60					
|>	Ge	74		113.5			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		110.5			
|	Sb	121					
[	Sb	123					
|>	Lu	175		108.2			
|	Tl	205					
[	Pb	208					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, January 29, 2010 21:44:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 8.217

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	47.064	ug/L	2.259	72502	0.255
[Be	9	47.614	ug/L	2.457	17335	0.061
[> Sc	45		ug/L		284510	284510.228
[Cr	52	49.927	ug/L	0.706	185207	0.659
[Cr	53		ug/L		144859	0.039
[Mn	55	51.371	ug/L	1.572	310341	1.087
[Ni	60	50.490	ug/L	2.468	50616	0.177
[> Ge	74		ug/L		294699	294699.258
[As	75	47.109	ug/L	1.370	40206	0.135
[Se	77		ug/L		10477	0.002
[Se	82	47.090	ug/L	1.067	3748	0.013
[Kr	83		ug/L		107	0.000
[Mo	98	48.894	ug/L	2.059	120311	0.600
[Ag	107	50.349	ug/L	0.131	212797	1.062
[Cd	111	48.713	ug/L	2.429	54166	0.270
[Cd	114		ug/L		133190	0.665
[> In	115		ug/L		200371	200370.523
[Sb	121	50.669	ug/L	0.824	209823	1.046
[Sb	123		ug/L		164008	0.818
[> Lu	175		ug/L		422098	422098.110
[Tl	205	47.179	ug/L	2.540	821228	1.938
[Pb	208	51.723	ug/L	1.069	1466282	3.473

Sample ID: QC Std 8

Report Date/Time: Friday, January 29, 2010 21:46:27

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7	94.127				
|	Be	9	95.228				
|>	Sc	45		110.3			
|	Cr	52	99.855				
|	Cr	53					
|	Mn	55	102.742				
|	Ni	60	100.981				
|>	Ge	74		112.5			
|	As	75	94.218				
|	Se	77					
|	Se	82	94.180				
|	Kr	83					
|	Mo	98	97.789				
|	Ag	107	100.698				
|	Cd	111	97.426				
|	Cd	114					
|>	In	115		110.4			
|	Sb	121	101.338				
|	Sb	123					
|>	Lu	175		107.9			
|	Tl	205	94.357				
|	Pb	208	103.445				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, January 29, 2010 21:48:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 9.218

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.005	ug/L	30.597	71	0.000
| Be	9	0.002	ug/L	603.713	22	0.000
|> Sc	45		ug/L		289764	289764.135
| Cr	52	0.044	ug/L	204.379	-2123	0.001
| Cr	53		ug/L		109993	-0.091
| Mn	55	-0.028	ug/L	22.199	924	-0.001
| Ni	60	0.000	ug/L	4627.918	266	0.000
|> Ge	74		ug/L		297684	297684.483
| As	75	0.342	ug/L	94.635	637	0.001
| Se	77		ug/L		6719	-0.011
| Se	82	0.158	ug/L	141.054	-3	0.000
| Kr	83		ug/L		90	-0.000
| Mo	98	0.041	ug/L	27.431	178	0.000
| Ag	107	0.001	ug/L	148.949	65	0.000
| Cd	111	0.006	ug/L	159.765	29	0.000
| Cd	114		ug/L		51	0.000
|> In	115		ug/L		197029	197028.615
| Sb	121	0.215	ug/L	8.731	1144	0.004
| Sb	123		ug/L		864	0.003
|> Lu	175		ug/L		415493	415493.479
| Tl	205	1.964	ug/L	9.981	36700	0.081
| Pb	208	0.006	ug/L	15.047	732	0.000

Sample ID: QC Std 9

Report Date/Time: Friday, January 29, 2010 21:50:05

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
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	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		112.4			
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74		113.6			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		108.5			
|	Sb	121					
|	Sb	123					
|>	Lu	175		106.2			
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 9	Tl	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, January 30, 2010 12:26:04

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default2\Sample.1766

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		2601.6		2601.637		120.411		4.6
Mg	24.0		36153.1		36153.116		984.288		2.7
Co	58.9		78338.8		78338.816		578.003		0.7
Rh	102.9		152264.0		152263.981		1073.225		0.7
In	114.9		207933.4		207933.371		1113.919		0.5
Pb	208.0		223037.7		223037.663		1297.413		0.6
[> Ba	137.9		216254.3		216254.263		923.542		0.4
[Ba++	69.0		4692.0		0.022		0.000		1.5
[> Ce	139.9		264432.3		264432.295		2590.527		1.0
[CeO	155.9		6203.2		0.023		0.000		1.4
Bkgd	220.0		19.6		19.600		4.263		21.8

Current Optimization File Data

Current Value	Description
0.85	Nebulizer Gas Flow
11.00	Lens Voltage
1450.00	ICP RF Power
-1718.75	Analog Stage Voltage
1200.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	19	10.5	5456.4
Co	59	19	11.5	77184.6
In	115	19	13.5	211338.8

Sample ID: Sample

Report Date/Time: Saturday, January 30, 2010 12:27:23

Page 1

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	582	2050	0.672
Be	9.0	8.9	2035	2070	0.652
Mg	24.0	24.0	5675	2070	0.642
Mg	25.0	25.0	5939	2070	0.665
Mg	26.0	26.0	6163	2070	0.676
Co	58.9	58.9	14168	2105	0.646
Rh	102.9	102.9	24874	2165	0.626
In	114.9	114.9	27788	2185	0.630
Ce	139.9	139.9	33872	2200	0.650
Pb	206.0	206.0	49948	2270	0.693
Pb	207.0	207.0	50159	2235	0.671
Pb	208.0	208.0	50463	2260	0.717
U	238.1	238.1	57731	2275	0.737

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, January 30, 2010 12:48:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\Blank.006

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7		ug/L		36	
|	Be	9		ug/L		18	
|>	Sc	45		ug/L		842197	
|	Mn	55		ug/L		1402	
|>	Lu	175		ug/L		487236	
|	Tl	205		ug/L		4655	

Sample ID: Blank

Report Date/Time: Saturday, January 30, 2010 12:49:05

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	
Be	9Linear Thru Zero	
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45					
|	Mn	55					
|>	Lu	175					
	Tl	205					

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: Saturday, January 30, 2010 12:51:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\Standard 1.007

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	10.000	ug/L	8.856	13805	0.017
|	Be	9	10.000	ug/L	3.483	4627	0.006
|>	Sc	45		ug/L		827131	827130.602
[	Mn	55	10.000	ug/L	1.724	100305	0.120
[>	Lu	175		ug/L		484125	484124.572
[	Ti	205	10.000	ug/L	1.883	257717	0.523

Sample ID: Standard 1

Report Date/Time: Saturday, January 30, 2010 12:51:23

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

Sample ID: Standard 1

Report Date/Time: Saturday, January 30, 2010 12:51:23

Page 2

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45					
[	Mn	55					
[>	Lu	175					
[Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, January 30, 2010 12:53:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\Standard 2.008

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	99.992	ug/L	2.425	134794	0.165
|	Be	9	100.006	ug/L	1.053	45755	0.056
|>	Sc	45		ug/L		814950	814949.520
[	Mn	55	99.923	ug/L	1.885	905889	1.110
|>	Lu	175		ug/L		488336	488336.094
[	Tl	205	99.778	ug/L	0.625	2089758	4.270

Sample ID: Standard 2

Report Date/Time: Saturday, January 30, 2010 12:53:43

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45					
L	Mn	55					
[>	Lu	175					
L	Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, January 30, 2010 12:55:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 1.009

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	53.446	ug/L	3.925	71755	0.088
| Be	9	52.434	ug/L	2.690	23892	0.029
|> Sc	45		ug/L		811368	811367.749
[Mn	55	52.466	ug/L	1.140	474336	0.583
[> Lu	175		ug/L		482177	482177.325
[Tl	205	52.082	ug/L	0.879	1079132	2.229

Sample ID: QC Std 1

Report Date/Time: Saturday, January 30, 2010 12:56:03

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7	106.892				
|	Be	9	104.868				
|>	Sc	45		96.3			
L	Mn	55	104.932				
[>	Lu	175		99.0			
L	Tl	205	104.164				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, January 30, 2010 12:58:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 2.010

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.009	ug/L	51.442	48	0.000
|	Be	9	0.012	ug/L	132.142	23	0.000
|>	Sc	45		ug/L		823233	823232.674
[	Mn	55	0.004	ug/L	203.758	1401	0.000
[>	Lu	175		ug/L		477580	477580.041
[	Tl	205	0.427	ug/L	6.064	13283	0.018

Sample ID: QC Std 2

Report Date/Time: Saturday, January 30, 2010 12:58:28

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45		97.7				
[	Mn	55						
|>	Lu	175		98.0				
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, January 30, 2010 13:00:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 3.011

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	11.378	ug/L	7.387	15224	0.019
|	Be	9	0.570	ug/L	11.195	275	0.000
|>	Sc	45		ug/L		807617	807617.035
[	Mn	55	5.995	ug/L	1.320	55138	0.067
|>	Lu	175		ug/L		483029	483029.452
[	Tl	205	1.276	ug/L	1.838	30983	0.055

Sample ID: QC Std 3

Report Date/Time: Saturday, January 30, 2010 13:00:48

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	113.785				
|	Be	9	113.989				
|>	Sc	45		95.9			
[	Mn	55	119.903				
[>	Lu	175		99.1			
[	Tl	205	127.581				

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: Saturday, January 30, 2010 13:02:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 4.012

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.082	ug/L	5.016	133	0.000
|	Be	9	0.116	ug/L	22.028	64	0.000
|>	Sc	45		ug/L		746196	746195.870
[	Mn	55	6.337	ug/L	2.747	53761	0.070
[>	Lu	175		ug/L		447374	447374.211
[	Tl	205	-0.047	ug/L	14.258	3367	-0.002

Sample ID: QC Std 4

Report Date/Time: Saturday, January 30, 2010 13:03:10

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		88.6			
[	Mn	55	109.266				
[>	Lu	175		91.8			
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, January 30, 2010 13:05:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 5.013

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	24.101	ug/L	1.993	29421	0.040
Be	9	21.540	ug/L	1.023	8930	0.012
Sc	45		ug/L		737440	737440.373
Mn	55	27.205	ug/L	2.400	224092	0.302
Lu	175		ug/L		443323	443322.505
Tl	205	20.800	ug/L	1.220	398851	0.890

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Li	7	120.503					
Be	9	107.700					
Sc	45		87.6				
Mn	55	105.445					
Lu	175		91.0				
Tl	205	104.002					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Li	7	ICSAB is out of limits

QC Action

QC Action Line: Continue

Sample ID: QC Std 5

Report Date/Time: Saturday, January 30, 2010 13:05:32

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ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, January 30, 2010 13:07:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 6.014

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	54.837	ug/L	5.887	72637	0.091
Be	9	51.854	ug/L	3.315	23328	0.029
Sc	45		ug/L		801520	801519.912
Mn	55	50.771	ug/L	4.056	453138	0.564
Lu	175		ug/L		468299	468298.771
Tl	205	50.067	ug/L	1.951	1007726	2.143

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Li	7	109.674					
Be	9	103.707					
Sc	45		95.2				
Mn	55	101.541					
Lu	175		96.1				
Tl	205	100.134					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Saturday, January 30, 2010 13:07:54

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, January 30, 2010 13:09:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 7.015

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.012	ug/L	32.793	51	0.000
Be	9	0.001	ug/L	708.641	18	0.000
> Sc	45		ug/L		812187	812186.813
Mn	55	0.006	ug/L	109.452	1402	0.000
> Lu	175		ug/L		471727	471727.262
Tl	205	0.535	ug/L	3.749	15306	0.023

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Li	7						
Be	9						
> Sc	45		96.4				
Mn	55						
> Lu	175		96.8				
Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Saturday, January 30, 2010 13:10:18

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Saturday, January 30, 2010 13:12:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 10.016

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	1083.463	ug/L	5.410	1329991	1.792
Be	9	1053.776	ug/L	2.262	439255	0.591
Sc	45		ug/L		742994	742993.539
Mn	55	915.864	ug/L	3.304	7557366	10.177
Lu	175		ug/L		451492	451491.810
Tl	205	482.190	ug/L	2.963	9319925	20.635

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7	108.346				
Be	9	105.378				
Sc	45		88.2			
Mn	55	91.586				
Lu	175		92.7			
Tl	205	96.438				

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 10

Report Date/Time: Saturday, January 30, 2010 13:12:38

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Saturday, January 30, 2010 13:14:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 11.017

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	53.523	ug/L	4.709	72379	0.089
Be	9	51.024	ug/L	0.619	23418	0.029
Sc	45		ug/L		817189	817188.908
Mn	55	51.115	ug/L	2.547	465364	0.568
Lu	175		ug/L		478270	478269.751
Tl	205	52.118	ug/L	3.037	1070860	2.230

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Li	7	107.047					
Be	9	102.048					
Sc	45		97.0				
Mn	55	102.230					
Lu	175		98.2				
Tl	205	104.236					

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 11

Report Date/Time: Saturday, January 30, 2010 13:14:58

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Saturday, January 30, 2010 13:16:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 12.018

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.041	ug/L		21.767	90	0.000
[	Be	9	0.014	ug/L		76.389	24	0.000
]	Sc	45		ug/L			810573	810572.958
[	Mn	55	0.005	ug/L		66.449	1392	0.000
]	Lu	175		ug/L			477721	477720.771
	Tl	205	0.737	ug/L		6.117	19624	0.032

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
Sc	45		96.2			
Mn	55					
Lu	175		98.0			
Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 12

Report Date/Time: Saturday, January 30, 2010 13:17:22

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ICPMS#5 - Summary Report

Sample ID: 1202021504

Sample Date/Time: Saturday, January 30, 2010 13:19:21

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021504.019

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.056	ug/L	16.390	108	0.000
Be	9	0.011	ug/L	120.948	22	0.000
> Sc	45		ug/L		792582	792581.797
Mn	55	0.121	ug/L	6.683	2382	0.001
> Lu	175		ug/L		459873	459872.948
Tl	205	0.140	ug/L	6.351	7151	0.006

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
> Sc	45		94.1			
Mn	55					
> Lu	175		94.4			
Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021504

Report Date/Time: Saturday, January 30, 2010 13:19:43

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021505

Sample Date/Time: Saturday, January 30, 2010 13:21:42

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021505.020

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	56.806	ug/L	4.961	74025	0.094
|	Be	9	55.990	ug/L	1.595	24764	0.031
|>	Sc	45		ug/L		787597	787597.176
[	Mn	55	52.243	ug/L	1.223	458472	0.580
|>	Lu	175		ug/L		458076	458075.524
[	Tl	205	49.498	ug/L	3.209	974401	2.118

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7					
|	Be	9					
|>	Sc	45		93.5			
[	Mn	55					
|>	Lu	175		94.0			
[Tl	205					

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: 1202021505

Report Date/Time: Saturday, January 30, 2010 13:22:05

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, January 30, 2010 13:24:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 8.021

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	51.666	ug/L	5.600	70273	0.085
|	Be	9	50.128	ug/L	3.211	23147	0.028
|>	Sc	45		ug/L		822515	822514.676
[	Mn	55	50.468	ug/L	0.903	462597	0.561
[>	Lu	175		ug/L		472541	472540.765
[	Tl	205	51.508	ug/L	2.349	1045939	2.204

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7	103.332					
|	Be	9	100.256					
|>	Sc	45		97.7				
[	Mn	55	100.937					
[>	Lu	175		97.0				
[	Tl	205	103.015					

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: Saturday, January 30, 2010 13:24:27

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Saturday, January 30, 2010 13:26:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 9.022

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.013	ug/L	78.437	53	0.000
Be	9	0.001	ug/L	1544.512	18	0.000
Sc	45		ug/L		826747	826747.209
Mn	55	-0.001	ug/L	980.584	1368	-0.000
Lu	175		ug/L		479979	479979.367
Tl	205	0.826	ug/L	3.901	21545	0.035

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Li	7						
Be	9						
Sc	45		98.2				
Mn	55						
Lu	175		98.5				
Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Saturday, January 30, 2010 13:26:51

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ICPMS#5 - Summary Report

Sample ID: 245112001

Sample Date/Time: Saturday, January 30, 2010 13:28:50

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\245112001.023

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.138	ug/L	4.212	216	0.000
Be	9	0.029	ug/L	32.553	30	0.000
Sc	45		ug/L		794745	794745.449
Mn	55	0.923	ug/L	2.662	9476	0.010
Lu	175		ug/L		457373	457373.087
Tl	205	0.184	ug/L	1.892	7976	0.008

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
Sc	45		94.4			
Mn	55					
Lu	175		93.9			
Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245112001

Report Date/Time: Saturday, January 30, 2010 13:29:14

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021506

Sample Date/Time: Saturday, January 30, 2010 13:33:36

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021506.025

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.127	ug/L	8.525	198	0.000
|	Be	9	0.008	ug/L	156.862	20	0.000
|>	Sc	45		ug/L		781208	781208.355
[	Mn	55	0.696	ug/L	3.903	7340	0.008
[>	Lu	175		ug/L		455107	455107.344
[	Tl	205	-0.032	ug/L	18.739	3731	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45		92.8				
[	Mn	55						
[>	Lu	175		93.4				
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021506

Report Date/Time: Saturday, January 30, 2010 13:33:59

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021507

Sample Date/Time: Saturday, January 30, 2010 13:35:59

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021507.026

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	58.459	ug/L	2.683	76825	0.097
Be	9	57.626	ug/L	2.600	25701	0.032
Sc	45		ug/L		794070	794069.989
Mn	55	52.781	ug/L	4.987	466764	0.586
Lu	175		ug/L		457559	457559.369
Tl	205	85.536	ug/L	2.512	1678637	3.660

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
Sc	45		94.3			
Mn	55					
Lu	175		93.9			
Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021507

Report Date/Time: Saturday, January 30, 2010 13:36:23

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021508

Sample Date/Time: Saturday, January 30, 2010 13:38:23

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944080|5|baj

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021508.027

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.034		ug/L	11.177	81	0.000
|	Be	9	0.009		ug/L	37.659	22	0.000
|>	Sc	45			ug/L		816427	816426.898
[	Mn	55	0.158		ug/L	5.834	2793	0.002
[>	Lu	175			ug/L		477223	477223.065
[	Tl	205	2.889		ug/L	2.187	63567	0.124

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7					
|	Be	9					
|>	Sc	45		96.9			
[	Mn	55					
[>	Lu	175		97.9			
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, January 30, 2010 13:40:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 8.028

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.800	ug/L	7.939	70857	0.086
Be	9	50.313	ug/L	3.596	23377	0.028
Sc	45		ug/L		827749	827749.245
Mn	55	50.886	ug/L	1.090	469312	0.565
Lu	175		ug/L		481005	481005.366
Tl	205	47.272	ug/L	1.550	977576	2.023

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Li	7	103.600					
Be	9	100.625					
Sc	45		98.3				
Mn	55	101.772					
Lu	175		98.7				
Tl	205	94.543					

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: Saturday, January 30, 2010 13:41:10

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Saturday, January 30, 2010 13:43:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 9.029

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.009	ug/L	73.938	49	0.000
|	Be	9	0.005	ug/L	221.483	20	0.000
|>	Sc	45		ug/L		844493	844493.290
[	Mn	55	0.002	ug/L	351.509	1420	0.000
|>	Lu	175		ug/L		480285	480285.155
[	Tl	205	1.648	ug/L	5.493	38438	0.071

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45		100.3				
[	Mn	55						
|>	Lu	175		98.6				
[	Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 9	Tl	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

Sample ID: QC Std 9

Report Date/Time: Saturday, January 30, 2010 13:43:34

Page 1

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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\020210W1.SIF

Batch ID:

Results Data Set: 020210W1

Results Library: C:\data-AA\Administrator\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank

Date Collected: 2/2/2010 09:19:39

Analyst:

Data Type: Original

Replicate Data: Calib Blank

Repl #	SampleConc ug/L	StdndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0002	-0.0008	0.0002	09:20:40	Yes
2		[0.00]	0.0003	0.0009	0.0003	09:21:14	Yes
Mean:		[0.00]	0.0002				
SD:		0.00	0.0001				
%RSD:		0.00	33.26				

Auto-zero performed.

Sequence No.: 2

Autosampler Location: 2

Sample ID: S0.2

Date Collected: 2/2/2010 09:21:33

Analyst:

Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StdndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0019	0.0077	0.0021	09:22:34	Yes
2		[0.2]	0.0018	0.0073	0.0021	09:23:09	Yes
Mean:		[0.2]	0.0019				
SD:		0.0	0.0000				
%RSD:		0.0	2.10				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00933 Intercept: 0.00000

Sequence No.: 3

Autosampler Location: 3

Sample ID: S0.5

Date Collected: 2/2/2010 09:23:28

Analyst:

Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StdndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0051	0.0221	0.0054	09:24:29	Yes
2		[0.5]	0.0051	0.0216	0.0053	09:25:04	Yes
Mean:		[0.5]	0.0051				
SD:		0.0	0.0000				
%RSD:		0.0	0.47				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999152 Slope: 0.01031 Intercept: -0.00007

Sequence No.: 4

Autosampler Location: 4

Sample ID: S2.0

Date Collected: 2/2/2010 09:25:23

Analyst:

Data Type: Original

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
--------	-----------------	----------------	-----------------	-----------	-------------	------	-------------

1	[2.0]	0.0194	0.0847	0.0196	09:26:25	Yes
2	[2.0]	0.0192	0.0834	0.0194	09:27:00	Yes
Mean:	[2.0]	0.0193				
SD:	0.0	0.0001				
%RSD:	0.0	0.72				
Standard number 3 applied. [2.0]						
Correlation Coef.: 0.999809 Slope: 0.00962 Intercept: 0.00007						

Sequence No.: 5 Autosampler Location: 5
 Sample ID: S5.0 Date Collected: 2/2/2010 09:27:20
 Analyst: Data Type: Original

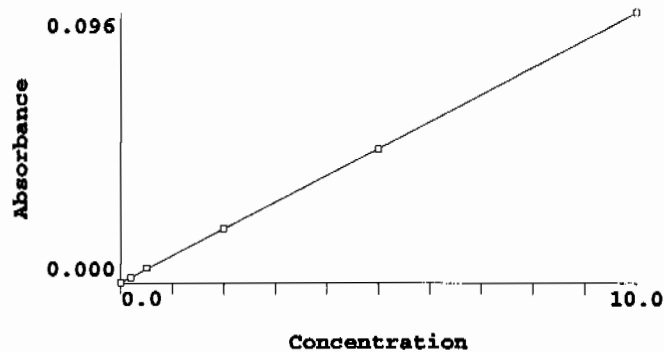
Replicate Data: S5.0

Repl #	Sample Conc ug/L	Std Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[5.0]		0.0479	0.2090	0.0481	09:28:22	Yes
2	[5.0]		0.0475	0.2080	0.0477	09:28:57	Yes
Mean:	[5.0]		0.0477				
SD:	0.0		0.0003				
%RSD:	0.0		0.60				
Standard number 4 applied. [5.0]							
Correlation Coef.: 0.999964 Slope: 0.00952 Intercept: 0.00012							

Sequence No.: 6 Autosampler Location: 6
 Sample ID: S10.0 Date Collected: 2/2/2010 09:29:17
 Analyst: Data Type: Original

Replicate Data: S10.0

Repl #	Sample Conc ug/L	Std Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[10.0]		0.0961	0.4231	0.0963	09:30:17	Yes
2	[10.0]		0.0953	0.4193	0.0955	09:30:52	Yes
Mean:	[10.0]		0.0957				
SD:	0.0		0.0006				
%RSD:	0.0		0.58				
Standard number 5 applied. [10.0]							
Correlation Coef.: 0.999990 Slope: 0.00956 Intercept: 0.00008							



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	-0.009	0.00	33.3
S0.2	0.0019	0.2	0.187	0.00	2.1
S0.5	0.0051	0.5	0.528	0.00	0.5
S2.0	0.0193	2.0	2.006	0.00	0.7
S5.0	0.0477	5.0	4.980	0.00	0.6
S10.0	0.0957	10.0	10.007	0.00	0.6
Correlation Coef.: 0.999990 Slope: 0.00956 Intercept: 0.00008					

Sequence No.: 7
Sample ID: ICV
Analyst:

Autosampler Location: 9
Date Collected: 2/2/2010 09:31:11
Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.097	5.097	0.0488	0.2138	0.0490	09:32:12	Yes
2	5.076	5.076	0.0486	0.2126	0.0488	09:32:47	Yes
Mean:	5.087	5.087	0.0487				
SD:	0.014	0.014	0.0001				
%RSD:	0.284	0.284	0.28				

QC value within limits for Hg 253.7 Recovery = 101.73%
All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:

Autosampler Location: 10
Date Collected: 2/2/2010 09:33:07
Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	0.0001	0.0006	0.0003	09:34:08	Yes
2	-0.007	-0.007	0.0000	0.0001	0.0002	09:34:43	Yes
Mean:	-0.005	-0.005	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	68.66	68.66	93.81				

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: 2/2/2010 09:35:03
Data Type: Original

Replicate Data: CRDL

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.193	0.193	0.0019	0.0089	0.0021	09:36:05	Yes
2	0.197	0.197	0.0020	0.0086	0.0022	09:36:40	Yes
Mean:	0.195	0.195	0.0020				
SD:	0.003	0.003	0.0000				
%RSD:	1.477	1.477	1.41				

QC value within limits for Hg 253.7 Recovery = 97.70%
All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 2/2/2010 09:37:00
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.008	5.008	0.0479	0.2091	0.0482	09:38:00	Yes
2	4.940	4.940	0.0473	0.2066	0.0475	09:38:35	Yes
Mean:	4.974	4.974	0.0476				
SD:	0.048	0.048	0.0005				
%RSD:	0.955	0.955	0.95				

QC value within limits for Hg 253.7 Recovery = 99.48%
All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 2/2/2010 09:38:54
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.002	-0.002	0.0001	0.0005	0.0003	09:39:55	Yes
2	0.007	0.007	0.0001	0.0008	0.0004	09:40:30	Yes
Mean:	0.002	0.002	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	265.4	265.4	56.25				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 12
Sample ID: 1202029503|947435|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 2/2/2010 09:40:49
Data Type: Original

Replicate Data: 1202029503|947435|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.670	0.670	0.0065	0.0282	0.0067	09:41:51	Yes
2	0.679	0.679	0.0066	0.0288	0.0068	09:42:26	Yes
Mean:	0.674	0.674	0.0065				
SD:	0.006	0.006	0.0001				
%RSD:	0.932	0.932	0.92				

=====

Sequence No.: 13
Sample ID: 1202029504|947435|1
Analyst: JXL

Autosampler Location: 13
Date Collected: 2/2/2010 09:42:46
Data Type: Original

Replicate Data: 1202029504|947435|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.027	2.027	0.0194	0.0846	0.0197	09:43:48	Yes
2	2.033	2.033	0.0195	0.0848	0.0197	09:44:23	Yes
Mean:	2.030	2.030	0.0195				
SD:	0.004	0.004	0.0000				
%RSD:	0.210	0.210	0.21				

=====

Sequence No.: 14
Sample ID: 245818013|947435|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 2/2/2010 09:44:43
Data Type: Original

Replicate Data: 245818013|947435|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	0.0003	0.0015	0.0005	09:45:44	Yes
2	0.029	0.029	0.0004	0.0023	0.0006	09:46:19	Yes
Mean:	0.026	0.026	0.0003				
SD:	0.004	0.004	0.0000				
%RSD:	16.27	16.27	12.16				

=====

Sequence No.: 15
Sample ID: 1202029505|947435|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 2/2/2010 09:46:38
Data Type: Original

Replicate Data: 1202029505|947435|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	0.0003	0.0023	0.0005	09:47:38	Yes
2	0.014	0.014	0.0002	0.0014	0.0004	09:48:13	Yes
Mean:	0.018	0.018	0.0003				
SD:	0.006	0.006	0.0001				

%RSD: 34.36 34.36 23.21

Sequence No.: 16

Sample ID: 1202029506|947435|1

Analyst: JXL

Autosampler Location: 16

Date Collected: 2/2/2010 09:48:33

Data Type: Original

Replicate Data: 1202029506|947435|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.040	2.040	0.0196	0.0864	0.0198	09:49:33	Yes
2	2.034	2.034	0.0195	0.0863	0.0197	09:50:08	Yes
Mean:	2.037	2.037	0.0195				
SD:	0.004	0.004	0.0000				
%RSD:	0.212	0.212	0.21				

Sequence No.: 17

Sample ID: 1202029507|947435|5

Analyst: JXL

Autosampler Location: 17

Date Collected: 2/2/2010 09:50:27

Data Type: Original

Replicate Data: 1202029507|947435|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.000	0.000	0.0001	0.0011	0.0003	09:51:28	Yes
2	0.004	0.004	0.0001	0.0014	0.0003	09:52:03	Yes
Mean:	0.002	0.002	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	130.9	130.9	24.23				

Sequence No.: 18

Sample ID: 1202024759|945393|1

Analyst: JXL

Autosampler Location: 18

Date Collected: 2/2/2010 09:52:22

Data Type: Original

Replicate Data: 1202024759|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.006	0.006	0.0001	0.0025	0.0004	09:53:22	Yes
2	0.005	0.005	0.0001	0.0027	0.0003	09:53:58	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	19.12	19.12	7.55				

Sequence No.: 19

Sample ID: 1202024760|945393|1

Analyst: JXL

Autosampler Location: 19

Date Collected: 2/2/2010 09:54:17

Data Type: Original

Replicate Data: 1202024760|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.069	2.069	0.0199	0.0881	0.0201	09:55:17	Yes
2	2.046	2.046	0.0196	0.0874	0.0198	09:55:52	Yes
Mean:	2.058	2.058	0.0197				
SD:	0.017	0.017	0.0002				
%RSD:	0.821	0.821	0.82				

Sequence No.: 20

Sample ID: 245112001|945393|1

Analyst: JXL

Autosampler Location: 20

Date Collected: 2/2/2010 09:56:11

Data Type: Original

Replicate Data: 245112001|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1	0.016	0.016	0.0002	0.0029	0.0005	09:57:12	Yes
2	0.009	0.009	0.0002	0.0016	0.0004	09:57:47	Yes
Mean:	0.013	0.013	0.0002				
SD:	0.005	0.005	0.0000				
%RSD:	40.71	40.71	24.22				

Sequence No.: 21

Autosampler Location: 21

Sample ID: 245120001|945393|1

Date Collected: 2/2/2010 09:58:07

Analyst: JXL

Data Type: Original

Replicate Data: 245120001|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0001	0.0007	0.0003	09:59:08	Yes
2	-0.007	-0.007	0.0000	0.0006	0.0002	09:59:43	Yes
Mean:	-0.005	-0.005	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	52.20	52.20	63.23				

Sequence No.: 22

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/2/2010 10:00:02

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.091	5.091	0.0487	0.2123	0.0489	10:01:03	Yes
2	5.067	5.067	0.0485	0.2114	0.0487	10:01:38	Yes
Mean:	5.079	5.079	0.0486				
SD:	0.017	0.017	0.0002				
%RSD:	0.330	0.330	0.33				

QC value within limits for Hg 253.7 Recovery = 101.58%
All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/2/2010 10:01:57

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.004	-0.004	0.0000	0.0010	0.0003	10:02:58	Yes
2	0.001	0.001	0.0001	0.0017	0.0003	10:03:33	Yes
Mean:	-0.002	-0.002	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	227.0	227.0	49.67				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 22

Sample ID: 1202024761|945393|1

Date Collected: 2/2/2010 10:03:52

Analyst: JXL

Data Type: Original

Replicate Data: 1202024761|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.006	-0.006	0.0000	0.0005	0.0002	10:04:53	Yes
2	0.001	0.001	0.0001	0.0014	0.0003	10:05:29	Yes
Mean:	-0.003	-0.003	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	170.7	170.7	72.51				

Sequence No.: 25

Sample ID: 1202024762|945393|1

Analyst: JXL

Autosampler Location: 23

Date Collected: 2/2/2010 10:05:48

Data Type: Original

Replicate Data: 1202024762|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.124	2.124	0.0204	0.0903	0.0206	10:06:50	Yes
2	2.121	2.121	0.0204	0.0905	0.0206	10:07:25	Yes
Mean:	2.122	2.122	0.0204				
SD:	0.002	0.002	0.0000				
%RSD:	0.093	0.093	0.09				

Sequence No.: 26

Sample ID: 1202024763|945393|5

Analyst: JXL

Autosampler Location: 24

Date Collected: 2/2/2010 10:07:45

Data Type: Original

Replicate Data: 1202024763|945393|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.006	0.006	0.0001	0.0019	0.0004	10:08:46	Yes
2	0.004	0.004	0.0001	0.0026	0.0003	10:09:21	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	19.48	19.48	7.04				

Sequence No.: 27

Sample ID: 245135001|945393|1

Analyst: JXL

Autosampler Location: 25

Date Collected: 2/2/2010 10:09:41

Data Type: Original

Replicate Data: 245135001|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.011	0.011	0.0002	0.0028	0.0004	10:10:43	Yes
2	0.011	0.011	0.0002	0.0011	0.0004	10:11:18	Yes
Mean:	0.011	0.011	0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.597	0.597	0.34				

Sequence No.: 28

Sample ID: 245135002|945393|1

Analyst: JXL

Autosampler Location: 26

Date Collected: 2/2/2010 10:11:38

Data Type: Original

Replicate Data: 245135002|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.006	0.006	0.0001	0.0012	0.0004	10:12:39	Yes
2	0.008	0.008	0.0002	0.0013	0.0004	10:13:14	Yes
Mean:	0.007	0.007	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	18.28	18.28	8.00				

Sequence No.: 29

Sample ID: 245137001|945393|1

Analyst: JXL

Autosampler Location: 27

Date Collected: 2/2/2010 10:13:34

Data Type: Original

Replicate Data: 245137001|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.007	-0.007	0.0000	0.0008	0.0002	10:14:34	Yes
2	-0.007	-0.007	0.0000	0.0006	0.0002	10:15:09	Yes
Mean:	-0.007	-0.007	0.0000				

SD: 0.000 0.000 0.0000
%RSD: 0.085 0.085 0.27

Sequence No.: 30

Sample ID: 245137002|945393|1

Analyst: JXL

Autosampler Location: 28

Date Collected: 2/2/2010 10:15:28

Data Type: Original

Replicate Data: 245137002|945393|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	0.0001	0.0010	0.0003	10:16:29	Yes
2	-0.005	-0.005	0.0000	0.0008	0.0003	10:17:04	Yes
Mean:	-0.003	-0.003	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	98.83	98.83	43.90				

Sequence No.: 31

Sample ID: 245137003|945393|1

Analyst: JXL

Autosampler Location: 29

Date Collected: 2/2/2010 10:17:23

Data Type: Original

Replicate Data: 245137003|945393|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0001	0.0015	0.0003	10:18:24	Yes
2	-0.002	-0.002	0.0001	0.0012	0.0003	10:18:59	Yes
Mean:	0.000	0.000	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	740.3	740.3	34.51				

Sequence No.: 32

Sample ID: 1202024791|945409|1

Analyst: JXL

Autosampler Location: 30

Date Collected: 2/2/2010 10:19:18

Data Type: Original

Replicate Data: 1202024791|945409|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0001	0.0018	0.0003	10:20:18	Yes
2	-0.003	-0.003	0.0001	0.0010	0.0003	10:20:53	Yes
Mean:	-0.001	-0.001	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	215.7	215.7	39.25				

Sequence No.: 33

Sample ID: 1202024792|945409|1

Analyst: JXL

Autosampler Location: 31

Date Collected: 2/2/2010 10:21:12

Data Type: Original

Replicate Data: 1202024792|945409|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.125	2.125	0.0204	0.0905	0.0206	10:22:13	Yes
2	2.099	2.099	0.0201	0.0891	0.0204	10:22:48	Yes
Mean:	2.112	2.112	0.0203				
SD:	0.018	0.018	0.0002				
%RSD:	0.853	0.853	0.85				

Sequence No.: 34

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/2/2010 10:23:07

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.100	5.100	0.0488	0.2149	0.0490	10:24:08	Yes
2	5.068	5.068	0.0485	0.2132	0.0487	10:24:43	Yes
Mean:	5.084	5.084	0.0487				
SD:	0.023	0.023	0.0002				
%RSD:	0.443	0.443	0.44				

QC value within limits for Hg 253.7 Recovery = 101.67%
All analyte(s) passed QC.

Sequence No.: 35

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/2/2010 10:25:02

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0001	0.0012	0.0003	10:26:02	Yes
2	-0.001	-0.001	0.0001	0.0015	0.0003	10:26:37	Yes
Mean:	-0.002	-0.002	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	69.10	69.10	22.70				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36

Sample ID: 245242001|945409|1

Analyst: JXL

Autosampler Location: 32

Date Collected: 2/2/2010 10:26:57

Data Type: Original

Replicate Data: 245242001|945409|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.004	0.004	0.0001	0.0017	0.0003	10:27:58	Yes
2	0.001	0.001	0.0001	0.0017	0.0003	10:28:33	Yes
Mean:	0.003	0.003	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	72.32	72.32	17.39				

Sequence No.: 37

Sample ID: 245242002|945409|1

Analyst: JXL

Autosampler Location: 33

Date Collected: 2/2/2010 10:28:53

Data Type: Original

Replicate Data: 245242002|945409|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.002	-0.002	0.0001	0.0012	0.0003	10:29:54	Yes
2	0.009	0.009	0.0002	0.0022	0.0004	10:30:28	Yes
Mean:	0.004	0.004	0.0001				
SD:	0.007	0.007	0.0001				
%RSD:	209.4	209.4	60.98				

Sequence No.: 38

Sample ID: 245250001|945409|1

Analyst: JXL

Autosampler Location: 34

Date Collected: 2/2/2010 10:30:48

Data Type: Original

Replicate Data: 245250001|945409|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.006	0.006	0.0001	0.0018	0.0004	10:31:49	Yes
2	0.000	0.000	0.0001	0.0015	0.0003	10:32:24	Yes
Mean:	0.003	0.003	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	154.5	154.5	37.40				

Miscellaneous

Prep LogBook

Analyst: BXA1
 Batch: 944076
 Lab SOP: GL-MA-E-006 REV# 9
 Verified by: _____

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202021499		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
LCS	1202021500		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245112001		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245120001		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
DUP	1202021501	245120001	SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
MS	1202021502	245120001	SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SDILT	1202021503	245120001	SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245135001		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245135002		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245137001		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245137002		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245137003		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL

Comments

Reagent/Solvent Lot ID	Amount	Description
1244970	2.5 mL	HYDROCHLORIC ACID
1234886	1 mL	Nitric Acid CONC.

Prep LogBook

Analyst: BXA1
 Batch: 944079
 Lab SOP: GL-MA-E-006 REV# 9

Verified by: _____

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202021504		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
LCS	1202021505		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
LCS	1202021879		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245112001		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245120001		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
DUP	1202021506	245120001	SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
MS	1202021507	245120001	SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SDILT	1202021508	245120001	SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
MS	1202021878	245120001	SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245135001		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245135002		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245137001		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245137002		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245137003		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL

Comments

Reagent/Solvent Lot ID	Amount	Description
1244970	2.5 mL	HYDROCHLORIC ACID
1234886	1 mL	Nitric Acid CONC.

Prep LogBook

Analyst: TXB3
Batch: 945391
Lab SOP: GL-MA-E-010 REV# 23

Verified by: _____

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202024759		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
LCS	1202024760		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1	.2	mL
SAMPLE	24512001		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245120001		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
DUP	1202024761	245120001	SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
MS	1202024762	245120001	SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1	.2	mL
SDILT	1202024763	245120001	SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245135001		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245135002		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245137001		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245137002		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245137003		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		

Reagent/Solvent Lot ID	Amount	Description
1176183	1 mL	Sulfuric Acid, Concentrated
1257474-1	.5 mL	NITRIC ACID
1261483-C	1.5 mL	5% Potassium Persulfate
1255535-C	3 mL	5% KMnO4 solution
1255532-C	1 mL	Hg reducing agent
WHG100201-06	500 uL	Mercury Working 2nd Source 5.0/CCV
WHG100201-01a	20 uL	Mercury Working 1st Source CAL 0.2/CRA
WHG100201-02	50 uL	Mercury Working 1st Source CAL 0.5
WHG100201-05	1 mL	Mercury Working 1st Source CAL 10.0
WHG100201-03	200 uL	Mercury Working 1st Source CAL 2.0
WHG100201-04	500 uL	Mercury Working 1st Source CAL 5.0/CCV

Comments: Digestion Start Date: 01-FEB-10 11:50
Digestion End Date: 01-FEB-10 13:50

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: UI090610-03 **Opened:** 10-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 10-JUN-09 **Lot Number :** 1016338
Type: Source Material **Expires:** 10-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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI090828-42 **Opened:** 16-SEP-09 **Amount :** 500 mL
Name: TRACE ICP Na-1000SOUR **Received:** 27-AUG-09 **Catalog Number :** 060011-02-03
Type: Source Material **Expires:** 16-SEP-10 **Lot Number :** 1017098
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: 02SI
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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

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

Standard Logbook

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H₂O(NH₄)₂SiF₆
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H₂O(NH₄)₂SiF₆
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO₃
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO₃
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Standard Logbook

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: 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: UI091212-60 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
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: UI091212-61 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
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: UI091216-01 **Opened:** 16-DEC-09 **Lot Number :** 1018095
Name: METALSPIKE-1 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
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: UI091216-06 **Opened:** 16-DEC-09 **Lot Number :** 1018096
Name: METALSPIKE-2 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
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
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI091217-06 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS IGV/CCV Master A **Received:** 17-DEC-09 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018209
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS IGV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI091217-07 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-DEC-09 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018210
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B

Standard Logbook

Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Serial ID: UI091217-13 Opened: 17-DEC-09 Amount : 250 mL
Name: ICP-MS ICSAB Master C Received: 17-DEC-09 Catalog Number : 160033-03
Type: Source Material Expires: 17-DEC-10 Lot Number : 1016926
Employee: Paul Boyd Solvent : +/- 0.5% in 2% HNO3
Supplier: 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: UI100114-48 Opened: 22-JAN-10 Amount : 1000 mL
Name: Trace ICP ICSA Received: 18-JAN-10 Catalog Number : 160005-02
Type: Source Material Expires: 22-JAN-11 Lot Number : 1018466
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: UI100114-49.7 Opened: 29-JAN-10 Amount : 100 ml
Name: Trace ICP ICSAB Received: 18-JAN-10 Catalog Number : 160066-04
Type: Source Material Expires: 30-JAN-10 Lot Number : 1018458
Employee: Helen Camello Solvent : 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Inteferent Check Standard AB
Comments: None

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L
Potassium	5000 ug/L	Selenium	2500 ug/L
Silica	10696.5 ug/L	Silicon	5000 ug/L
Silver	250 ug/L	Sodium	5000 ug/L
Strontium	500 ug/L	Sulfur	2500 ug/L
Thallium	500 ug/L	Tin	500 ug/L
Titanium	500 ug/L	Uranium	500 ug/L
Vanadium	500 ug/L	Zinc	500 ug/L

Serial ID: UI100126-11 **Opened:** 26-JAN-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 26-JAN-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 26-JAN-11 **Lot Number :** 1018321
Employee: Elizabeth Janssen **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: UI100128-40 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI100128-41 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: O2SI
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: UI1246651-A **Opened:** 23-DEC-09 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 23-DEC-09 **Lot Number :** 1018097
Type: Source Material **Expires:** 23-DEC-10
Employee: Bryan Davis
Supplier: O2si
Description: ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	5 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Bismuth	5 mg/L	Boron	10 mg/L
Cadmium	5 mg/L	Calcium	200 mg/L
Cesium	5 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	5 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorous	200 mg/L	Potassium	200 mg/L
Selenium	5 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	5 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Serial ID: UI1246654-B **Opened:** 23-DEC-09 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 23-DEC-09 **Lot Number :** 1017644
Type: Source Material **Expires:** 23-DEC-10
Employee: Bryan Davis
Supplier: O2si
Description: MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	5 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UMS090303-01 **Opened:** 03-MAR-09 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 03-MAR-09 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 14-81JB
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: UMS090303-02 **Opened:** 03-MAR-09 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 03-MAR-09 **Lot Number :** 14-83JB
Type: Source Material **Expires:** 28-FEB-10
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Standard Logbook

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: UMS090303-03 **Opened:** 03-MAR-09 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 03-MAR-09 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 15-199JB
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: IHG100201-01 **Opened:** 01-FEB-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 01-FEB-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 02-FEB-10 **Solvent :** 1mL HNO3 + Type1 H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100201-02 **Opened:** 01-FEB-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Intermediate **Expires:** 02-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Standard Logbook

Serial ID: WHG100201-01a **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.2CRA **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-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.
IHG100201-01	Mercury	200 ug/L	20 uL	20 mL	.2 ug/L

Serial ID: WHG100201-02 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.5 **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-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.
IHG100201-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Serial ID: WHG100201-03 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL2.0 **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-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.
IHG100201-01	Mercury	200 ug/L	200 uL	20 mL	2 ug/L

Serial ID: WHG100201-04 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL5.0CCV **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-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.
IHG100201-01	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Standard Logbook

Serial ID: WHG100201-05 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL10.0 **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-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.	Allquot	Final Vol.	Final Conc.
IHG100201-01	Mercury	200 ug/L	1 mL	20 mL	10 ug/L

Serial ID: WHG100201-06 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORK5.0ICV **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 2nd Source 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
IHG100201-02	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100201-13 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHG1QLCSMSSPIKE **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-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: WI00129-43 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1259494
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.
UI090828-42	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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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

Serial ID: WI100129-46 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL AND 1%HNO3-1259494
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI091102-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI091102-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100129-47 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL &1%HNO3-1259494
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI090701-40	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID: WMS100129-04 **Opened:** 29-JAN-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 29-JAN-10 **Balance Id :** 4025216
Type: Working **Expires:** 30-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl-1259290
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100129-04A **Opened:** 29-JAN-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 29-JAN-10 **Pipet Id :** 3541598
Type: Working **Expres:** 30-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100129-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100129-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100129-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100129-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100129-05 **Opened:** 29-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 29-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 30-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100129-06 **Opened:** 29-JAN-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 29-JAN-10 **Pipet Id :** 3820544
Type: Working **Expires:** 30-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100129-07 **Opened:** 29-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 29-JAN-10 **Lot Number :** 1010773
Type: Working **Expires:** 30-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl - 1259290
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100129-08 **Opened:** 29-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 29-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 30-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100129-70 **Opened:** 29-JAN-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 29-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 30-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI091212-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100130-04 **Opened:** 30-JAN-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 30-JAN-10 **Balance Id :** 4025216
Type: Working **Expires:** 31-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl-1259290
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100130-04A **Opened:** 30-JAN-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 30-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
WMS100130-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
WMS100130-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100130-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100130-05 **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 30-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100130-06 **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 30-JAN-10 **Pipet Id :** 3820544
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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

Serial ID: WMS100130-07 **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 30-JAN-10 **Lot Number :** 1010773
Type: Working **Expires:** 31-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl - 1259290
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100130-08 **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 30-JAN-10 **Pipet Id :** 1758088
Type: Working **Expres:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100130-70 **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 30-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI091212-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100205-04 **Opened:** 05-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 05-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 06-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1262930
Supplier: GEL

Standard Logbook

Description: ICPMS Calibration Standard (100 ppb)

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100205-04A

Opened: 05-FEB-10

Balance Id : 4025216

Name: ICPMS Cal Standard 10

Received: 05-FEB-10

Pipet Id : 3541598

Type: Working

Expires: 06-FEB-10

Solvent : 2%HNO3/1%HCl - 1262930

Employee: Paul Boyd

Supplier: GEL

Description: ICPMS Calibration Standard (10 ppb)

Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100205-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100205-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100205-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100205-05 **Opened:** 05-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 05-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 06-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100205-06 **Opened:** 05-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 05-FEB-10 **Pipet Id :** 3820544
Type: Working **Expres:** 06-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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

Serial ID: WMS100205-07 **Opened:** 05-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSEA **Received:** 05-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 06-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1262930
Supplier: GEL
Description: ICPMS ICSEA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100205-08 **Opened:** 05-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 05-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 06-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 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

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

Standard Logbook

Serial ID: 1234886 **Opened:** 27-NOV-09 **Lot Number :** H20053 L
Name: I-HNO3 **Received:** 27-NOV-09
Type: Reagent/Solvent **Expires:** 27-NOV-10
Employee: Bryan Davis
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1244970 **Opened:** 18-DEC-09 **Lot Number :** H41032
Name: I-HCL **Received:** 18-DEC-09 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 18-DEC-10
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1252836 **Opened:** 08-JAN-10 **Lot Number :** H20053 L
Name: I-HNO3 **Received:** 08-JAN-10
Type: Reagent/Solvent **Expires:** 08-JAN-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1252838 **Opened:** 08-JAN-10 **Lot Number :** H41032
Name: I-HCL **Received:** 08-JAN-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 08-JAN-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 125532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Standard Logbook

Serial ID: 1255535-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-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: 1257474-1 **Opened:** 20-JAN-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 20-JAN-10 **Lot Number :** H20053
Type: Reagent/Solvent **Expires:** 20-JAN-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1259290 **Opened:** 25-JAN-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 25-JAN-10
Type: Reagent/Solvent **Expires:** 01-FEB-10
Employee: Elizabeth Janssen
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1252836	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1252838	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1259494 **Opened:** 25-JAN-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 28-DEC-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 31-JAN-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Serial ID: 1261483-C **Opened:** 28-JAN-10 **Balance Id :** BAL-002
Name: B-K2S2O8-MER **Received:** 28-JAN-10
Type: Reagent/Solvent **Expires:** 28-JUL-10
Employee: Tara Griffin
Supplier: GEL

Standard Logbook

Description: 5% Potassium Persulfate

Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1215906	B-K2S2O8S-MER	N/A	50 g	1000 mL	N/A

Serial ID: 1262930 Opened: 01-FEB-10 Solvent : Type I Water

Name: B-2%HNO3/1%HCl-ICPMS Received: 01-FEB-10

Type: Reagent/Solvent Expires: 08-FEB-10

Employee: Elizabeth Janssen

Supplier: GEL

Description: 2%HNO3/1%HCl Solution (Type I Water)

Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1252836	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1252838	I-HCL	36.5-38.0	90 mL	9 l	N/A

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1325-1**

Sample Analysis

Sample ID	Client ID
245113001	RE15-10-8410
245113002	RE15-10-8411
245113003	RE15-10-8412
245113004	RE15-10-8441
245113005	RE15-10-8413
245113006	RE15-10-8425
245113007	RE15-10-8422
245113008	RE15-10-8417
245113009	RE15-10-8423
245113010	RE15-10-8416
245113011	RE15-10-8418
245113012	RE15-10-8424
245113013	RE15-10-8421
245113014	RE15-10-8420
1202021601	Method Blank (MB) ICP
1202021606	Laboratory Control Sample (LCS)
1202021603	245113001(RE15-10-8410L) Serial Dilution (SD)
1202021602	245113001(RE15-10-8410D) Sample Duplicate (DUP)
1202021604	245113001(RE15-10-8410S) Matrix Spike (MS)
1202021605	245113001(RE15-10-8410SD) Matrix Spike Duplicate (MSD)
1202021617	Method Blank (MB) ICP-MS
1202042623	Method Blank (MB) ICP-MS
1202021622	Laboratory Control Sample (LCS)
1202042628	Laboratory Control Sample (LCS)
1202021619	245113001(RE15-10-8410L) Serial Dilution (SD)
1202042625	245113001(RE15-10-8410L) Serial Dilution (SD)
1202021618	245113001(RE15-10-8410D) Sample Duplicate (DUP)
1202042624	245113001(RE15-10-8410D) Sample Duplicate (DUP)
1202021620	245113001(RE15-10-8410S) Matrix Spike (MS)

1202042626	245113001(RE15-10-8410S) Matrix Spike (MS)
1202021621	245113001(RE15-10-8410SD) Matrix Spike Duplicate (MSD)
1202042627	245113001(RE15-10-8410SD) Matrix Spike Duplicate (MSD)
1202025224	Method Blank (MB) CVAA
1202025225	Laboratory Control Sample (LCS)
1202025228	245372002(RE16-10-1102L) Serial Dilution (SD)
1202025226	245372002(RE16-10-1102D) Sample Duplicate (DUP)
1202025227	245372002(RE16-10-1102S) Matrix Spike (MS)
1202025229	245372002(RE16-10-1102SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch: 944124, 944127, 952970 and 945588
Prep Batch : 944123, 944126, 952969 and 945586
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 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 in the initial calibration, all other standards ran during the analysis was required by the method being reported.

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 MB analyzed with this SDG met the acceptance criteria with the exception of manganese and iron. 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.

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: 245113001 (RE15-10-8410)-ICP, ICP-MS and ICP-MS and 245372002 (RE16-10-1102)-CVAA.

Matrix Spike (MS) Recovery Statement

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

MS/MSD Relative Percent Difference (RPD) Statement

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

Duplicate Relative Percent Difference (RPD) Statement

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

Serial Dilution % Difference Statement

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

Technical Information**Holding Time Specifications**

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

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG were diluted the standard 2x for solids on the ICPMS.

Preparation Information

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

Miscellaneous Information**Electronic Packaging Comment**

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

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

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DER was generated for this SDG: DER ID 790109 and 790624. A copy is included in the Miscellaneous Data section of this package.

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Nick L. A. Elmore Date: 2.16.10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113001

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8410

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5010000	ug/Kg		9060	26600	26600	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-36-0	Antimony	1330	ug/Kg	U	440	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-38-2	Arsenic	2.08	mg/kg		0.266	1.33	1.33	2	MS	BAJ	02/11/10 21:29	100211-3	944127
7440-39-3	Barium	143000	ug/Kg	*N	133	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-41-7	Beryllium	0.576	mg/kg		0.0255	0.127	0.127	2	MS	BAJ	02/15/10 18:31	100215-6	952970
7440-43-9	Cadmium	666	ug/Kg	U	133	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-70-2	Calcium	4480000	ug/Kg		10700	33300	33300	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-47-3	Chromium	7100	ug/Kg		200	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-48-4	Cobalt	3330	ug/Kg		200	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-50-8	Copper	8470	ug/Kg		400	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-89-6	Iron	8950000	ug/Kg		10700	33300	33300	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-92-1	Lead	19400	ug/Kg		333	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-95-4	Magnesium	1210000	ug/Kg	N	11300	40000	40000	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-96-5	Manganese	574000	ug/Kg		266	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124
7439-97-6	Mercury	24.3	ug/kg		5.01	14.7	14.7	1	AV	JXL1	02/03/10 10:33	020310S2-7	945588
7440-02-0	Nickel	5	mg/kg		0.127	0.509	0.509	2	MS	BAJ	02/15/10 18:31	100215-6	952970
7440-09-7	Potassium	1050000	ug/Kg	N	8520	33300	33300	1	P	HSC	02/04/10 00:09	020310-1	944124
7782-49-2	Selenium	1.33	mg/kg	U	0.665	1.33	1.33	2	MS	BAJ	02/11/10 21:29	100211-3	944127
7440-22-4	Silver	521	ug/Kg	J	133	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-23-5	Sodium	57800	ug/Kg		9320	33300	33300	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-28-0	Thallium	0.145	mg/kg	J	0.0798	0.266	0.266	2	MS	BAJ	02/13/10 13:41	100213-5	944127
7440-61-1	Uranium	13.3	mg/kg	*N	0.0175	0.0532	0.0532	2	MS	SKJ	02/13/10 18:44	100213-2	944127
7440-62-2	Vanadium	11800	ug/Kg		133	666	666	1	P	HSC	02/04/10 00:09	020310-1	944124
7440-66-6	Zinc	38900	ug/Kg		440	1330	1330	1	P	HSC	02/04/10 00:09	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.5	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.501	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.542	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.523	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113002

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8411

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3970000	ug/Kg		7910	23300	23300	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-36-0	Antimony	1160	ug/Kg	U	384	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-38-2	Arsenic	1.2	mg/kg		0.225	1.13	1.13	2	MS	BAJ	02/11/10 22:12	100211-3	944127
7440-39-3	Barium	58100	ug/Kg	*N	116	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-41-7	Beryllium	0.311	mg/kg		0.0224	0.112	0.112	2	MS	BAJ	02/15/10 18:46	100215-6	952970
7440-43-9	Cadmium	581	ug/Kg	U	116	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-70-2	Calcium	1950000	ug/Kg		9300	29100	29100	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-47-3	Chromium	18200	ug/Kg		174	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-48-4	Cobalt	2110	ug/Kg		174	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-50-8	Copper	3040	ug/Kg		349	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-89-6	Iron	8350000	ug/Kg		9300	29100	29100	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-92-1	Lead	7200	ug/Kg		291	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-95-4	Magnesium	737000	ug/Kg	N	9880	34900	34900	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-96-5	Manganese	189000	ug/Kg		233	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124
7439-97-6	Mercury	7.44	ug/kg	J	4.82	14.2	14.2	1	AV	JXL1	02/03/10 10:34	020310S2-7	945588
7440-02-0	Nickel	3.47	mg/kg		0.112	0.448	0.448	2	MS	BAJ	02/15/10 18:46	100215-6	952970
7440-09-7	Potassium	698000	ug/Kg	N	7440	29100	29100	1	P	HSC	02/04/10 00:44	020310-1	944124
7782-49-2	Selenium	1.13	mg/kg	U	0.564	1.13	1.13	2	MS	BAJ	02/11/10 22:12	100211-3	944127
7440-22-4	Silver	417	ug/Kg	J	116	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-23-5	Sodium	64200	ug/Kg		8140	29100	29100	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-28-0	Thallium	0.0884	mg/kg	J	0.0676	0.225	0.225	2	MS	BAJ	02/13/10 14:13	100213-5	944127
7440-61-1	Uranium	1.42	mg/kg	*N	0.0149	0.0451	0.0451	2	MS	SKJ	02/13/10 18:56	100213-2	944127
7440-62-2	Vanadium	14300	ug/Kg		116	581	581	1	P	HSC	02/04/10 00:44	020310-1	944124
7440-66-6	Zinc	22800	ug/Kg		384	1160	1160	1	P	HSC	02/04/10 00:44	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.508	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.524	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.5	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.527	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113003

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8412

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 92.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4220000	ug/Kg		7260	21300	21300	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-36-0	Antimony	1070	ug/Kg	U	352	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-38-2	Arsenic	1.51	mg/kg		0.215	1.08	1.08	2	MS	BAJ	02/11/10 22:18	100211-3	944127
7440-39-3	Barium	51500	ug/Kg	*N	107	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-41-7	Beryllium	0.407	mg/kg		0.0189	0.0943	0.0943	2	MS	BAJ	02/15/10 18:49	100215-6	952970
7440-43-9	Cadmium	534	ug/Kg	U	107	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-70-2	Calcium	1140000	ug/Kg		8540	26700	26700	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-47-3	Chromium	5930	ug/Kg		160	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-48-4	Cobalt	2210	ug/Kg		160	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-50-8	Copper	7670	ug/Kg		320	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-89-6	Iron	10800000	ug/Kg		8540	26700	26700	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-92-1	Lead	11500	ug/Kg		267	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-95-4	Magnesium	867000	ug/Kg	N	9070	32000	32000	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-96-5	Manganese	259000	ug/Kg		213	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124
7439-97-6	Mercury	163	ug/kg		4.17	12.3	12.3	1	AV	JXL1	02/03/10 10:39	020310S2-7	945588
7440-02-0	Nickel	3.86	mg/kg		0.0943	0.377	0.377	2	MS	BAJ	02/15/10 18:49	100215-6	952970
7440-09-7	Potassium	690000	ug/Kg	N	6830	26700	26700	1	P	HSC	02/04/10 00:51	020310-1	944124
7782-49-2	Selenium	1.08	mg/kg	U	0.538	1.08	1.08	2	MS	BAJ	02/11/10 22:18	100211-3	944127
7440-22-4	Silver	503	ug/Kg	J	107	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-23-5	Sodium	49000	ug/Kg		7470	26700	26700	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-28-0	Thallium	0.104	mg/kg	J	0.0645	0.215	0.215	2	MS	BAJ	02/13/10 14:17	100213-5	944127
7440-61-1	Uranium	3.15	mg/kg	*N	0.0142	0.043	0.043	2	MS	SKJ	02/13/10 18:57	100213-2	944127
7440-62-2	Vanadium	14400	ug/Kg		107	534	534	1	P	HSC	02/04/10 00:51	020310-1	944124
7440-66-6	Zinc	40200	ug/Kg		352	1070	1070	1	P	HSC	02/04/10 00:51	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.507	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.503	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.529	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.574	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113004

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8441

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3210000	ug/Kg		7370	21700	21700	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-36-0	Antimony	1080	ug/Kg	U	358	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-38-2	Arsenic	2.1	mg/kg		0.212	1.06	1.06	2	MS	BAJ	02/11/10 22:24	100211-3	944127
7440-39-3	Barium	37200	ug/Kg	*N	108	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-41-7	Beryllium	0.396	mg/kg		0.0206	0.103	0.103	2	MS	BAJ	02/15/10 18:51	100215-6	952970
7440-43-9	Cadmium	542	ug/Kg	U	108	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-70-2	Calcium	1010000	ug/Kg		8670	27100	27100	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-47-3	Chromium	4070	ug/Kg		163	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-48-4	Cobalt	1850	ug/Kg		163	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-50-8	Copper	6620	ug/Kg		325	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-89-6	Iron	9440000	ug/Kg		8670	27100	27100	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-92-1	Lead	8430	ug/Kg		271	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-95-4	Magnesium	686000	ug/Kg	N	9220	32500	32500	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-96-5	Manganese	190000	ug/Kg		217	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124
7439-97-6	Mercury	154	ug/kg		4.28	12.6	12.6	1	AV	JXL1	02/03/10 10:41	020310S2-7	945588
7440-02-0	Nickel	3.47	mg/kg		0.103	0.411	0.411	2	MS	BAJ	02/15/10 18:51	100215-6	952970
7440-09-7	Potassium	505000	ug/Kg	N	6940	27100	27100	1	P	HSC	02/04/10 00:58	020310-1	944124
7782-49-2	Selenium	1.06	mg/kg	U	0.531	1.06	1.06	2	MS	BAJ	02/11/10 22:24	100211-3	944127
7440-22-4	Silver	490	ug/Kg	J	108	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-23-5	Sodium	48000	ug/Kg		7590	27100	27100	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-28-0	Thallium	0.0906	mg/kg	J	0.0637	0.212	0.212	2	MS	BAJ	02/13/10 14:22	100213-5	944127
7440-61-1	Uranium	3.35	mg/kg	*N	0.014	0.0425	0.0425	2	MS	SKJ	02/13/10 18:59	100213-2	944127
7440-62-2	Vanadium	13400	ug/Kg		108	542	542	1	P	HSC	02/04/10 00:58	020310-1	944124
7440-66-6	Zinc	33300	ug/Kg		358	1080	1080	1	P	HSC	02/04/10 00:58	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.51	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.521	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.527	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.538	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113005

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8413

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5680000	ug/Kg		7610	22400	22400	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-36-0	Antimony	1120	ug/Kg	U	369	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-38-2	Arsenic	1.8	mg/kg		0.218	1.09	1.09	2	MS	BAJ	02/11/10 22:30	100211-3	944127
7440-39-3	Barium	71800	ug/Kg	*N	112	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-41-7	Beryllium	0.676	mg/kg		0.0224	0.112	0.112	2	MS	BAJ	02/15/10 18:53	100215-6	952970
7440-43-9	Cadmium	559	ug/Kg	U	112	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-70-2	Calcium	1480000	ug/Kg		8950	28000	28000	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-47-3	Chromium	7450	ug/Kg		168	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-48-4	Cobalt	2010	ug/Kg		168	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-50-8	Copper	8900	ug/Kg		336	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-89-6	Iron	11200000	ug/Kg		8950	28000	28000	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-92-1	Lead	14400	ug/Kg		280	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-95-4	Magnesium	1110000	ug/Kg	N	9510	33600	33600	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-96-5	Manganese	157000	ug/Kg		224	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124
7439-97-6	Mercury	222	ug/kg		3.87	11.4	11.4	1	AV	JXL1	02/03/10 10:43	020310S2-7	945588
7440-02-0	Nickel	4.88	mg/kg		0.112	0.448	0.448	2	MS	BAJ	02/15/10 18:53	100215-6	952970
7440-09-7	Potassium	755000	ug/Kg	N	7160	28000	28000	1	P	HSC	02/04/10 01:19	020310-1	944124
7782-49-2	Selenium	1.09	mg/kg	U	0.545	1.09	1.09	2	MS	BAJ	02/11/10 22:30	100211-3	944127
7440-22-4	Silver	512	ug/Kg	J	112	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-23-5	Sodium	63700	ug/Kg		7830	28000	28000	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-28-0	Thallium	0.158	mg/kg	J	0.0654	0.218	0.218	2	MS	BAJ	02/13/10 14:26	100213-5	944127
7440-61-1	Uranium	5.44	mg/kg	*N	0.0144	0.0436	0.0436	2	MS	SKJ	02/13/10 19:01	100213-2	944127
7440-62-2	Vanadium	16200	ug/Kg		112	559	559	1	P	HSC	02/04/10 01:19	020310-1	944124
7440-66-6	Zinc	36300	ug/Kg		369	1120	1120	1	P	HSC	02/04/10 01:19	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.5	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.513	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.589	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.5	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113006

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8425

LEVEL: Low

DATE RECEIVED 20-JAN-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	3570000	ug/Kg		7260	21300	21300	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-36-0	Antimony	1070	ug/Kg	U	352	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-38-2	Arsenic	1.45	mg/kg		0.217	1.08	1.08	2	MS	BAJ	02/11/10 22:36	100211-3	944127
7440-39-3	Barium	30100	ug/Kg	*N	107	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-41-7	Beryllium	0.558	mg/kg		0.02	0.1	0.1	2	MS	BAJ	02/15/10 18:55	100215-6	952970
7440-43-9	Cadmium	534	ug/Kg	U	107	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-70-2	Calcium	818000	ug/Kg		8540	26700	26700	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-47-3	Chromium	10400	ug/Kg		160	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-48-4	Cobalt	1030	ug/Kg		160	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-50-8	Copper	3020	ug/Kg		320	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-89-6	Iron	9250000	ug/Kg		8540	26700	26700	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-92-1	Lead	3750	ug/Kg		267	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-95-4	Magnesium	607000	ug/Kg	N	9070	32000	32000	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-96-5	Manganese	220000	ug/Kg		213	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124
7439-97-6	Mercury	42.6	ug/kg		4.15	12.2	12.2	1	AV	JXL1	02/03/10 10:44	020310S2-7	945588
7440-02-0	Nickel	3.04	mg/kg		0.1	0.401	0.401	2	MS	BAJ	02/15/10 18:55	100215-6	952970
7440-09-7	Potassium	456000	ug/Kg	N	6830	26700	26700	1	P	HSC	02/04/10 01:26	020310-1	944124
7782-49-2	Selenium	1.08	mg/kg	U	0.542	1.08	1.08	2	MS	BAJ	02/11/10 22:36	100211-3	944127
7440-22-4	Silver	553	ug/Kg		107	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-23-5	Sodium	55500	ug/Kg		7470	26700	26700	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-28-0	Thallium	0.217	mg/kg	U	0.065	0.217	0.217	2	MS	BAJ	02/13/10 14:31	100213-5	944127
7440-61-1	Uranium	0.591	mg/kg	*N	0.0143	0.0433	0.0433	2	MS	SKJ	02/13/10 19:03	100213-2	944127
7440-62-2	Vanadium	8040	ug/Kg		107	534	534	1	P	HSC	02/04/10 01:26	020310-1	944124
7440-66-6	Zinc	33900	ug/Kg		352	1070	1070	1	P	HSC	02/04/10 01:26	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.523	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.515	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.548	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.557	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113007

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8422

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5620000	ug/Kg		7380	21700	21700	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-36-0	Antimony	1090	ug/Kg	U	358	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-38-2	Arsenic	1.87	mg/kg		0.221	1.1	1.1	2	MS	BAJ	02/11/10 22:42	100211-3	944127
7440-39-3	Barium	82700	ug/Kg	*N	109	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-41-7	Beryllium	0.679	mg/kg		0.0203	0.102	0.102	2	MS	BAJ	02/15/10 18:57	100215-6	952970
7440-43-9	Cadmium	543	ug/Kg	U	109	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-70-2	Calcium	1970000	ug/Kg		8690	27100	27100	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-47-3	Chromium	6400	ug/Kg		163	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-48-4	Cobalt	2660	ug/Kg		163	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-50-8	Copper	16900	ug/Kg		326	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-89-6	Iron	10600000	ug/Kg		8690	27100	27100	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-92-1	Lead	16000	ug/Kg		271	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-95-4	Magnesium	1220000	ug/Kg	N	9230	32600	32600	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-96-5	Manganese	249000	ug/Kg		217	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124
7439-97-6	Mercury	688	ug/kg		9.09	26.7	26.7	2	AV	JXL1	02/03/10 13:31	020310S2-7	945588
7440-02-0	Nickel	5.21	mg/kg		0.102	0.406	0.406	2	MS	BAJ	02/15/10 18:57	100215-6	952970
7440-09-7	Potassium	1010000	ug/Kg	N	6950	27100	27100	1	P	HSC	02/04/10 01:33	020310-1	944124
7782-49-2	Selenium	1.1	mg/kg	U	0.552	1.1	1.1	2	MS	BAJ	02/11/10 22:42	100211-3	944127
7440-22-4	Silver	413	ug/Kg	J	109	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-23-5	Sodium	59500	ug/Kg		7600	27100	27100	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-28-0	Thallium	0.187	mg/kg	J	0.0662	0.221	0.221	2	MS	BAJ	02/13/10 14:35	100213-5	944127
7440-61-1	Uranium	3.97	mg/kg	*N	0.0146	0.0441	0.0441	2	MS	SKJ	02/13/10 19:04	100213-2	944127
7440-62-2	Vanadium	15000	ug/Kg		109	543	543	1	P	HSC	02/04/10 01:33	020310-1	944124
7440-66-6	Zinc	41300	ug/Kg		358	1090	1090	1	P	HSC	02/04/10 01:33	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.517	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.509	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.504	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.553	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113008

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8417

LEVEL: Low

DATE RECEIVED 23-JAN-10

MATRIX: SOIL

%SOLIDS: 94.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3540000	ug/Kg		7180	21100	21100	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-36-0	Antimony	1060	ug/Kg	U	349	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-38-2	Arsenic	1.72	mg/kg		0.21	1.05	1.05	2	MS	BAJ	02/11/10 22:48	100211-3	944127
7440-39-3	Barium	31000	ug/Kg	*N	106	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-41-7	Beryllium	0.739	mg/kg		0.0205	0.103	0.103	2	MS	BAJ	02/15/10 19:00	100215-6	952970
7440-43-9	Cadmium	528	ug/Kg	U	106	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-70-2	Calcium	683000	ug/Kg		8450	26400	26400	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-47-3	Chromium	7590	ug/Kg		158	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-48-4	Cobalt	2290	ug/Kg		158	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-50-8	Copper	3210	ug/Kg		317	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-89-6	Iron	19100000	ug/Kg		8450	26400	26400	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-92-1	Lead	6590	ug/Kg		264	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-95-4	Magnesium	674000	ug/Kg	N	8980	31700	31700	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-96-5	Manganese	313000	ug/Kg		211	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124
7439-97-6	Mercury	12.5	ug/kg		4.2	12.4	12.4	1	AV	JXL1	02/03/10 10:48	020310S2-7	945588
7440-02-0	Nickel	4.27	mg/kg		0.103	0.41	0.41	2	MS	BAJ	02/15/10 19:00	100215-6	952970
7440-09-7	Potassium	510000	ug/Kg	N	6760	26400	26400	1	P	HSC	02/04/10 01:40	020310-1	944124
7782-49-2	Selenium	1.05	mg/kg	U	0.524	1.05	1.05	2	MS	BAJ	02/11/10 22:48	100211-3	944127
7440-22-4	Silver	670	ug/Kg		106	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-23-5	Sodium	53500	ug/Kg		7390	26400	26400	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-28-0	Thallium	0.0912	mg/kg	J	0.0629	0.21	0.21	2	MS	BAJ	02/13/10 14:49	100213-5	944127
7440-61-1	Uranium	0.768	mg/kg	*N	0.0138	0.0419	0.0419	2	MS	SKJ	02/13/10 19:10	100213-2	944127
7440-62-2	Vanadium	23700	ug/Kg		106	528	528	1	P	HSC	02/04/10 01:40	020310-1	944124
7440-66-6	Zinc	70600	ug/Kg		349	1060	1060	1	P	HSC	02/04/10 01:40	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.5	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.504	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.513	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.515	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113009

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8423

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6290000	ug/Kg		7440	21900	21900	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-36-0	Antimony	1090	ug/Kg	U	361	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-38-2	Arsenic	2.24	mg/kg		0.214	1.07	1.07	2	MS	BAJ	02/11/10 23:07	100211-3	944127
7440-39-3	Barium	100000	ug/Kg	*N	109	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-41-7	Beryllium	0.789	mg/kg		0.0218	0.109	0.109	2	MS	BAJ	02/15/10 19:06	100215-6	952970
7440-43-9	Cadmium	547	ug/Kg	U	109	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-70-2	Calcium	2300000	ug/Kg		8760	27400	27400	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-47-3	Chromium	7950	ug/Kg		164	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-48-4	Cobalt	2660	ug/Kg		164	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-50-8	Copper	11700	ug/Kg		328	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-89-6	Iron	12400000	ug/Kg		8760	27400	27400	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-92-1	Lead	17300	ug/Kg		274	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-95-4	Magnesium	1300000	ug/Kg	N	9300	32800	32800	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-96-5	Manganese	308000	ug/Kg		219	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124
7439-97-6	Mercury	252	ug/kg		4.44	13.1	13.1	1	AV	JXL1	02/03/10 10:49	020310S2-7	945588
7440-02-0	Nickel	5.94	mg/kg		0.109	0.435	0.435	2	MS	BAJ	02/15/10 19:06	100215-6	952970
7440-09-7	Potassium	983000	ug/Kg	N	7000	27400	27400	1	P	HSC	02/04/10 01:47	020310-1	944124
7782-49-2	Selenium	1.07	mg/kg	U	0.536	1.07	1.07	2	MS	BAJ	02/11/10 23:07	100211-3	944127
7440-22-4	Silver	604	ug/Kg		109	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-23-5	Sodium	69500	ug/Kg		7660	27400	27400	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-28-0	Thallium	0.148	mg/kg	J	0.0643	0.214	0.214	2	MS	BAJ	02/13/10 14:53	100213-5	944127
7440-61-1	Uranium	2.02	mg/kg	*N	0.0141	0.0428	0.0428	2	MS	SKJ	02/13/10 19:11	100213-2	944127
7440-62-2	Vanadium	16100	ug/Kg		109	547	547	1	P	HSC	02/04/10 01:47	020310-1	944124
7440-66-6	Zinc	44600	ug/Kg		361	1090	1090	1	P	HSC	02/04/10 01:47	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.504	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.515	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.507	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.507	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113010

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8416

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4890000	ug/Kg		7290	21400	21400	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-36-0	Antimony	1070	ug/Kg	U	354	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-38-2	Arsenic	1.76	mg/kg		0.218	1.09	1.09	2	MS	BAJ	02/11/10 23:13	100211-3	944127
7440-39-3	Barium	71300	ug/Kg	*N	107	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-41-7	Beryllium	0.689	mg/kg		0.0191	0.0955	0.0955	2	MS	BAJ	02/15/10 19:09	100215-6	952970
7440-43-9	Cadmium	536	ug/Kg	U	107	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-70-2	Calcium	1450000	ug/Kg		8570	26800	26800	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-47-3	Chromium	6580	ug/Kg		161	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-48-4	Cobalt	2530	ug/Kg		161	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-50-8	Copper	4030	ug/Kg		321	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-89-6	Iron	12100000	ug/Kg		8570	26800	26800	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-92-1	Lead	8590	ug/Kg		268	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-95-4	Magnesium	823000	ug/Kg	N	9110	32100	32100	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-96-5	Manganese	311000	ug/Kg		214	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124
7439-97-6	Mercury	24.6	ug/kg		4.09	12	12	1	AV	JXL1	02/03/10 10:51	020310S2-7	945588
7440-02-0	Nickel	4.58	mg/kg		0.0955	0.382	0.382	2	MS	BAJ	02/15/10 19:09	100215-6	952970
7440-09-7	Potassium	714000	ug/Kg	N	6860	26800	26800	1	P	HSC	02/04/10 01:54	020310-1	944124
7782-49-2	Selenium	1.09	mg/kg	U	0.545	1.09	1.09	2	MS	BAJ	02/11/10 23:13	100211-3	944127
7440-22-4	Silver	466	ug/Kg	J	107	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-23-5	Sodium	45300	ug/Kg		7500	26800	26800	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-28-0	Thallium	0.121	mg/kg	J	0.0654	0.218	0.218	2	MS	BAJ	02/13/10 14:58	100213-5	944127
7440-61-1	Uranium	1.12	mg/kg	*N	0.0144	0.0436	0.0436	2	MS	SKJ	02/13/10 19:13	100213-2	944127
7440-62-2	Vanadium	16100	ug/Kg		107	536	536	1	P	HSC	02/04/10 01:54	020310-1	944124
7440-66-6	Zinc	41500	ug/Kg		354	1070	1070	1	P	HSC	02/04/10 01:54	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.516	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.507	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.552	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.579	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113011

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8418

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3780000	ug/Kg		7300	21500	21500	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-36-0	Antimony	1070	ug/Kg	U	354	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-38-2	Arsenic	1.94	mg/kg		0.218	1.09	1.09	2	MS	BAJ	02/11/10 23:19	100211-3	944127
7440-39-3	Barium	47600	ug/Kg	*N	107	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-41-7	Beryllium	0.457	mg/kg		0.0206	0.103	0.103	2	MS	BAJ	02/15/10 19:11	100215-6	952970
7440-43-9	Cadmium	537	ug/Kg	U	107	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-70-2	Calcium	1060000	ug/Kg		8590	26800	26800	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-47-3	Chromium	8250	ug/Kg		161	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-48-4	Cobalt	1980	ug/Kg		161	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-50-8	Copper	3890	ug/Kg		322	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-89-6	Iron	14600000	ug/Kg		8590	26800	26800	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-92-1	Lead	8870	ug/Kg		268	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-95-4	Magnesium	738000	ug/Kg	N	9120	32200	32200	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-96-5	Manganese	279000	ug/Kg		215	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124
7439-97-6	Mercury	42.8	ug/kg		4.08	12	12	1	AV	JXLI	02/03/10 10:53	020310S2-7	945588
7440-02-0	Nickel	3.66	mg/kg		0.103	0.412	0.412	2	MS	BAJ	02/15/10 19:11	100215-6	952970
7440-09-7	Potassium	574000	ug/Kg	N	6870	26800	26800	1	P	HSC	02/04/10 02:01	020310-1	944124
7782-49-2	Selenium	1.09	mg/kg	U	0.544	1.09	1.09	2	MS	BAJ	02/11/10 23:19	100211-3	944127
7440-22-4	Silver	608	ug/Kg		107	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-23-5	Sodium	90800	ug/Kg		7510	26800	26800	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-28-0	Thallium	0.0992	mg/kg	J	0.0653	0.218	0.218	2	MS	BAJ	02/13/10 15:02	100213-5	944127
7440-61-1	Uranium	1.08	mg/kg	*N	0.0144	0.0435	0.0435	2	MS	SKJ	02/13/10 19:15	100213-2	944127
7440-62-2	Vanadium	16700	ug/Kg		107	537	537	1	P	HSC	02/04/10 02:01	020310-1	944124
7440-66-6	Zinc	52800	ug/Kg		354	1070	1070	1	P	HSC	02/04/10 02:01	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.525	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.518	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.564	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.547	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113012

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8424

LEVEL: Low

DATE RECEIVED 20-JAN-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	3630000	ug/Kg		7470	22000	22000	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-36-0	Antimony	1100	ug/Kg	U	362	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-38-2	Arsenic	1.26	mg/kg		0.22	1.1	1.1	2	MS	BAJ	02/11/10 23:25	100211-3	944127
7440-39-3	Barium	35800	ug/Kg	*N	110	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-41-7	Beryllium	0.522	mg/kg		0.0217	0.109	0.109	2	MS	BAJ	02/15/10 19:13	100215-6	952970
7440-43-9	Cadmium	549	ug/Kg	U	110	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-70-2	Calcium	1060000	ug/Kg		8790	27500	27500	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-47-3	Chromium	10700	ug/Kg		165	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-48-4	Cobalt	1470	ug/Kg		165	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-50-8	Copper	4630	ug/Kg		330	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-89-6	Iron	11000000	ug/Kg		8790	27500	27500	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-92-1	Lead	5230	ug/Kg		275	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-95-4	Magnesium	690000	ug/Kg	N	9340	33000	33000	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-96-5	Manganese	218000	ug/Kg		220	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124
7439-97-6	Mercury	73.9	ug/kg		4.54	13.3	13.3	1	AV	JXL1	02/03/10 10:54	020310S2-7	945588
7440-02-0	Nickel	3.22	mg/kg		0.109	0.434	0.434	2	MS	BAJ	02/15/10 19:13	100215-6	952970
7440-09-7	Potassium	558000	ug/Kg	N	7030	27500	27500	1	P	HSC	02/04/10 02:08	020310-1	944124
7782-49-2	Selenium	1.1	mg/kg	U	0.55	1.1	1.1	2	MS	BAJ	02/11/10 23:25	100211-3	944127
7440-22-4	Silver	465	ug/Kg	J	110	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-23-5	Sodium	113000	ug/Kg		7690	27500	27500	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-28-0	Thallium	0.220	mg/kg	U	0.066	0.22	0.22	2	MS	BAJ	02/13/10 15:07	100213-5	944127
7440-61-1	Uranium	0.663	mg/kg	*N	0.0145	0.044	0.044	2	MS	SKJ	02/13/10 19:17	100213-2	944127
7440-62-2	Vanadium	11100	ug/Kg		110	549	549	1	P	HSC	02/04/10 02:08	020310-1	944124
7440-66-6	Zinc	41300	ug/Kg		362	1100	1100	1	P	HSC	02/04/10 02:08	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.506	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.505	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.5	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.512	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113013

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8421

LEVEL: Low

DATE RECEIVED 20-JAN-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	3740000	ug/Kg		7510	22100	22100	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-36-0	Antimony	1100	ug/Kg	U	365	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-38-2	Arsenic	2.09	mg/kg		0.224	1.12	1.12	2	MS	BAJ	02/11/10 23:31	100211-3	944127
7440-39-3	Barium	35900	ug/Kg	*N	110	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-41-7	Beryllium	0.480	mg/kg		0.0209	0.105	0.105	2	MS	BAJ	02/15/10 19:15	100215-6	952970
7440-43-9	Cadmium	552	ug/Kg	U	110	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-70-2	Calcium	1020000	ug/Kg		8840	27600	27600	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-47-3	Chromium	9140	ug/Kg		166	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-48-4	Cobalt	1770	ug/Kg		166	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-50-8	Copper	3040	ug/Kg		331	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-89-6	Iron	18900000	ug/Kg		8840	27600	27600	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-92-1	Lead	9210	ug/Kg		276	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-95-4	Magnesium	731000	ug/Kg	N	9390	33100	33100	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-96-5	Manganese	290000	ug/Kg		221	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124
7439-97-6	Mercury	27	ug/kg		4.51	13.3	13.3	1	AV	JXL1	02/03/10 10:59	020310S2-7	945588
7440-02-0	Nickel	3.43	mg/kg		0.105	0.418	0.418	2	MS	BAJ	02/15/10 19:15	100215-6	952970
7440-09-7	Potassium	513000	ug/Kg	N	7070	27600	27600	1	P	HSC	02/04/10 02:15	020310-1	944124
7782-49-2	Selenium	1.12	mg/kg	U	0.559	1.12	1.12	2	MS	BAJ	02/11/10 23:31	100211-3	944127
7440-22-4	Silver	575	ug/Kg		110	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-23-5	Sodium	117000	ug/Kg		7730	27600	27600	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-28-0	Thallium	0.0903	mg/kg	J	0.0671	0.224	0.224	2	MS	BAJ	02/13/10 15:11	100213-5	944127
7440-61-1	Uranium	0.512	mg/kg	*N	0.0148	0.0447	0.0447	2	MS	SKJ	02/13/10 19:18	100213-2	944127
7440-62-2	Vanadium	22000	ug/Kg		110	552	552	1	P	HSC	02/04/10 02:15	020310-1	944124
7440-66-6	Zinc	72900	ug/Kg		365	1100	1100	1	P	HSC	02/04/10 02:15	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.517	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.511	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.517	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.546	g	50	mL	02/15/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1325-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245113014

BASIS: Dry Weight

DATE COLLECTED 14-JAN-10

CLIENT ID: RE15-10-8420

LEVEL: Low

DATE RECEIVED 20-JAN-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	4430000	ug/Kg		9150	26900	26900	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-36-0	Antimony	1350	ug/Kg	U	444	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-38-2	Arsenic	1.54	mg/kg		0.277	1.38	1.38	2	MS	BAJ	02/11/10 23:37	100211-3	944127
7440-39-3	Barium	52900	ug/Kg	*N	135	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-41-7	Beryllium	0.747	mg/kg		0.0286	0.143	0.143	2	MS	BAJ	02/15/10 19:18	100215-6	952970
7440-43-9	Cadmium	673	ug/Kg	U	135	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-70-2	Calcium	1420000	ug/Kg		10800	33600	33600	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-47-3	Chromium	12800	ug/Kg		202	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-48-4	Cobalt	2040	ug/Kg		202	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-50-8	Copper	7540	ug/Kg		404	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-89-6	Iron	11300000	ug/Kg		10800	33600	33600	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-92-1	Lead	9580	ug/Kg		336	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-95-4	Magnesium	903000	ug/Kg	N	11400	40400	40400	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-96-5	Manganese	247000	ug/Kg		269	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124
7439-97-6	Mercury	226	ug/kg		5.74	16.9	16.9	1	AV	JXL1	02/03/10 11:01	020310S2-7	945588
7440-02-0	Nickel	5.67	mg/kg		0.143	0.573	0.573	2	MS	BAJ	02/15/10 19:18	100215-6	952970
7440-09-7	Potassium	694000	ug/Kg	N	8610	33600	33600	1	P	HSC	02/04/10 02:23	020310-1	944124
7782-49-2	Selenium	1.38	mg/kg	U	0.692	1.38	1.38	2	MS	BAJ	02/11/10 23:37	100211-3	944127
7440-22-4	Silver	481	ug/Kg	J	135	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-23-5	Sodium	128000	ug/Kg		9420	33600	33600	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-28-0	Thallium	0.112	mg/kg	J	0.0831	0.277	0.277	2	MS	BAJ	02/13/10 15:16	100213-5	944127
7440-61-1	Uranium	1.52	mg/kg	*N	0.0183	0.0554	0.0554	2	MS	SKJ	02/13/10 19:20	100213-2	944127
7440-62-2	Vanadium	12700	ug/Kg		135	673	673	1	P	HSC	02/04/10 02:23	020310-1	944124
7440-66-6	Zinc	42300	ug/Kg		444	1350	1350	1	P	HSC	02/04/10 02:23	020310-1	944124

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944124	944123	SW846 3050B	0.532	g	50	mL	01/27/10	AXG2
944127	944126	SW846 3050B	0.517	g	50	mL	01/27/10	BXA1
945588	945586	SW846 7471A Prep	0.509	g	30	mL	02/02/10	TXB3
952970	952969	SW846 3050B	0.5	g	50	mL	02/15/10	AXG2

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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	5.35	ug/L	5	ug/L	106.9	90.0 – 110.0	AV	03-FEB-10 09:31	020310S2-7
	Aluminum	5270	ug/L	5000	ug/L	105.4	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Antimony	505	ug/L	500	ug/L	101	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Barium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Cadmium	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Calcium	5090	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Chromium	475	ug/L	500	ug/L	95	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Cobalt	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Copper	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Iron	5050	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Lead	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Magnesium	5340	ug/L	5000	ug/L	106.9	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Manganese	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Potassium	2470	ug/L	2500	ug/L	98.8	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Silver	251	ug/L	250	ug/L	100.2	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Sodium	2420	ug/L	2500	ug/L	96.6	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Vanadium	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Zinc	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Arsenic	48.5	ug/L	50	ug/L	97	90.0 – 110.0	MS	11-FEB-10 20:15	100211-3
	Selenium	49.7	ug/L	50	ug/L	99.5	90.0 – 110.0	MS	11-FEB-10 20:15	100211-3
	Thallium	54.5	ug/L	50	ug/L	109	90.0 – 110.0	MS	13-FEB-10 13:00	100213-5
	Uranium	52.7	ug/L	50	ug/L	105.4	90.0 – 110.0	MS	13-FEB-10 17:59	100213-2
	Beryllium	51.8	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	15-FEB-10 18:04	100215-6
	Nickel	51.7	ug/L	50	ug/L	103.4	90.0 – 110.0	MS	15-FEB-10 18:04	100215-6
CCV01										
	Mercury	5.23	ug/L	5	ug/L	104.6	80.0 – 120.0	AV	03-FEB-10 09:36	020310S2-7
	Aluminum	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Antimony	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Barium	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Cadmium	467	ug/L	500	ug/L	93.4	90.0 – 110.0	P	03-FEB-10 10:40	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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>
	Calcium	5120	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Chromium	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Cobalt	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Copper	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Iron	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Lead	482	ug/L	500	ug/L	96.5	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Magnesium	5120	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Manganese	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Potassium	5090	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Silver	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Sodium	10200	ug/L	10000	ug/L	101.8	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Vanadium	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Arsenic	48.5	ug/L	50	ug/L	97	90.0 – 110.0	MS	11-FEB-10 20:46	100211-3
	Selenium	48.5	ug/L	50	ug/L	97.1	90.0 – 110.0	MS	11-FEB-10 20:46	100211-3
	Thallium	54.2	ug/L	50	ug/L	108.4	90.0 – 110.0	MS	13-FEB-10 13:23	100213-5
	Uranium	53.2	ug/L	50	ug/L	106.3	90.0 – 110.0	MS	13-FEB-10 18:08	100213-2
	Beryllium	49.5	ug/L	50	ug/L	98.9	90.0 – 110.0	MS	15-FEB-10 18:15	100215-6
	Nickel	51.6	ug/L	50	ug/L	103.3	90.0 – 110.0	MS	15-FEB-10 18:15	100215-6
CCV02										
	Mercury	5.28	ug/L	5	ug/L	105.7	80.0 – 120.0	AV	03-FEB-10 09:56	020310S2-7
	Aluminum	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Antimony	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Barium	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Cadmium	479	ug/L	500	ug/L	95.7	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Calcium	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Chromium	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Cobalt	472	ug/L	500	ug/L	94.4	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Copper	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Iron	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	03-FEB-10 11:01	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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>
	Lead	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Magnesium	5240	ug/L	5000	ug/L	104.8	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Manganese	480	ug/L	500	ug/L	96	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Potassium	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Silver	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Sodium	10200	ug/L	10000	ug/L	102.4	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Vanadium	485	ug/L	500	ug/L	97	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Zinc	475	ug/L	500	ug/L	95	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Arsenic	49.7	ug/L	50	ug/L	99.4	90.0 - 110.0	MS	11-FEB-10 21:04	100211-3
	Selenium	50.4	ug/L	50	ug/L	100.9	90.0 - 110.0	MS	11-FEB-10 21:04	100211-3
	Thallium	54.2	ug/L	50	ug/L	108.5	90.0 - 110.0	MS	13-FEB-10 14:04	100213-5
	Uranium	54.4	ug/L	50	ug/L	108.7	90.0 - 110.0	MS	13-FEB-10 18:21	100213-2
	Beryllium	50.9	ug/L	50	ug/L	101.9	90.0 - 110.0	MS	15-FEB-10 18:22	100215-6
	Nickel	51.4	ug/L	50	ug/L	102.8	90.0 - 110.0	MS	15-FEB-10 18:22	100215-6
CCV03	Mercury	5.27	ug/L	5	ug/L	105.4	80.0 - 120.0	AV	03-FEB-10 10:16	020310S2-7
	Aluminum	5150	ug/L	5000	ug/L	103	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Antimony	494	ug/L	500	ug/L	98.7	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Barium	486	ug/L	500	ug/L	97.1	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Cadmium	466	ug/L	500	ug/L	93.2	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Calcium	5150	ug/L	5000	ug/L	103	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Chromium	485	ug/L	500	ug/L	96.9	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Cobalt	473	ug/L	500	ug/L	94.7	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Copper	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Iron	5160	ug/L	5000	ug/L	103.1	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Lead	482	ug/L	500	ug/L	96.4	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Manganese	484	ug/L	500	ug/L	96.8	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Potassium	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Silver	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	03-FEB-10 12:23	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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>
	Sodium	10300	ug/L	10000	ug/L	102.9	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Vanadium	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Zinc	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Arsenic	49.2	ug/L	50	ug/L	98.4	90.0 – 110.0	MS	11-FEB-10 21:59	100211-3
	Selenium	48.9	ug/L	50	ug/L	97.8	90.0 – 110.0	MS	11-FEB-10 21:59	100211-3
	Thallium	53.7	ug/L	50	ug/L	107.4	90.0 – 110.0	MS	13-FEB-10 14:40	100213-5
	Uranium	55.1	ug/L	50	ug/L	110.1	90.0 – 110.0	MS	13-FEB-10 18:37	100213-2
	Beryllium	49.7	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	15-FEB-10 18:42	100215-6
	Nickel	50.1	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	15-FEB-10 18:42	100215-6
CCV04										
	Mercury	5.16	ug/L	5	ug/L	103.1	80.0 – 120.0	AV	03-FEB-10 10:36	020310S2-7
	Aluminum	5140	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Antimony	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Barium	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Cadmium	485	ug/L	500	ug/L	97.1	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Calcium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Chromium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Cobalt	485	ug/L	500	ug/L	97	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Copper	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Iron	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Lead	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Manganese	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Potassium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Silver	490	ug/L	500	ug/L	98	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Sodium	9720	ug/L	10000	ug/L	97.2	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Vanadium	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Zinc	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	03-FEB-10 13:18	020310-1
	Arsenic	49.5	ug/L	50	ug/L	98.9	90.0 – 110.0	MS	11-FEB-10 22:54	100211-3
	Selenium	50	ug/L	50	ug/L	100	90.0 – 110.0	MS	11-FEB-10 22:54	100211-3

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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	54.1	ug/L	50	ug/L	108.1	90.0 – 110.0	MS	13-FEB-10 15:20	100213-5
	Uranium	54.2	ug/L	50	ug/L	108.4	90.0 – 110.0	MS	13-FEB-10 18:52	100213-2
	Beryllium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	15-FEB-10 19:02	100215-6
	Nickel	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	15-FEB-10 19:02	100215-6
CCV05										
	Mercury	5.17	ug/L	5	ug/L	103.3	80.0 – 120.0	AV	03-FEB-10 10:56	020310S2-7
	Aluminum	5020	ug/L	5000	ug/L	100.4	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Antimony	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Barium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Cadmium	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Calcium	5170	ug/L	5000	ug/L	103.3	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Chromium	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Cobalt	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Copper	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Iron	5280	ug/L	5000	ug/L	105.6	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Lead	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Magnesium	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Manganese	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Silver	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Sodium	10400	ug/L	10000	ug/L	104.2	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Vanadium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Zinc	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Arsenic	49.5	ug/L	50	ug/L	98.9	90.0 – 110.0	MS	11-FEB-10 23:44	100211-3
	Selenium	49	ug/L	50	ug/L	98	90.0 – 110.0	MS	11-FEB-10 23:44	100211-3
	Uranium	53.7	ug/L	50	ug/L	107.4	90.0 – 110.0	MS	13-FEB-10 19:06	100213-2
	Beryllium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	15-FEB-10 19:20	100215-6
	Nickel	50.3	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	15-FEB-10 19:20	100215-6
CCV06										
	Mercury	5.02	ug/L	5	ug/L	100.5	80.0 – 120.0	AV	03-FEB-10 11:16	020310S2-7

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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>
	Aluminum	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Antimony	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Barium	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Cadmium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Calcium	5210	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Chromium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Cobalt	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Copper	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Iron	5200	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Lead	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Magnesium	5270	ug/L	5000	ug/L	105.4	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Manganese	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Potassium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Silver	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Sodium	9930	ug/L	10000	ug/L	99.3	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Vanadium	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Zinc	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Uranium	54.3	ug/L	50	ug/L	108.6	90.0 – 110.0	MS	13-FEB-10 19:22	100213-2
CCV07										
	Mercury	5.11	ug/L	5	ug/L	102.2	80.0 – 120.0	AV	03-FEB-10 11:36	020310S2-7
	Aluminum	5200	ug/L	5000	ug/L	104	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Antimony	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Barium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Cadmium	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Calcium	5300	ug/L	5000	ug/L	105.9	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Chromium	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Cobalt	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Copper	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Iron	5270	ug/L	5000	ug/L	105.4	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Lead	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	03-FEB-10 15:55	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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	5340	ug/L	5000	ug/L	106.9	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Manganese	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Potassium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Silver	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Sodium	10000	ug/L	10000	ug/L	100.4	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Vanadium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Zinc	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
CCV08										
	Mercury	5.07	ug/L	5	ug/L	101.4	80.0 – 120.0	AV	03-FEB-10 11:57	020310S2-7
	Aluminum	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Antimony	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Barium	485	ug/L	500	ug/L	97	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Cadmium	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Calcium	5140	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Chromium	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Cobalt	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Copper	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Iron	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Lead	486	ug/L	500	ug/L	97.1	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Magnesium	5140	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Manganese	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Potassium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Silver	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Sodium	9450	ug/L	10000	ug/L	94.5	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Vanadium	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Zinc	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
CCV09										
	Mercury	4.88	ug/L	5	ug/L	97.5	80.0 – 120.0	AV	03-FEB-10 12:17	020310S2-7
	Aluminum	5160	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Antimony	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	03-FEB-10 18:21	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Cadmium	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Calcium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Chromium	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Cobalt	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Copper	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Iron	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Lead	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Magnesium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Manganese	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Potassium	5090	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Silver	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Sodium	9340	ug/L	10000	ug/L	93.4	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Vanadium	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Zinc	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
CCV10										
	Mercury	4.95	ug/L	5	ug/L	99	80.0 – 120.0	AV	03-FEB-10 12:37	020310S2-7
	Aluminum	5170	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Antimony	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Barium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Cadmium	486	ug/L	500	ug/L	97.1	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Calcium	5210	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Chromium	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Cobalt	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Copper	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Iron	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Lead	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Magnesium	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Manganese	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Potassium	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	03-FEB-10 19:37	020310-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Sodium	9030	ug/L	10000	ug/L	90.3	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Vanadium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
	Zinc	482	ug/L	500	ug/L	96.5	90.0 – 110.0	P	03-FEB-10 19:37	020310-1
CCV11										
	Mercury	5.03	ug/L	5	ug/L	100.6	80.0 – 120.0	AV	03-FEB-10 12:57	020310S2-7
	Aluminum	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Antimony	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Barium	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Cadmium	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Calcium	5270	ug/L	5000	ug/L	105.4	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Chromium	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Cobalt	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Copper	486	ug/L	500	ug/L	97.3	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Iron	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Lead	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Magnesium	5340	ug/L	5000	ug/L	106.9	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Manganese	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Potassium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Silver	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Sodium	9510	ug/L	10000	ug/L	95.1	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Vanadium	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
	Zinc	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	03-FEB-10 21:02	020310-1
CCV12										
	Mercury	5.16	ug/L	5	ug/L	103.2	80.0 – 120.0	AV	03-FEB-10 13:18	020310S2-7
	Aluminum	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Antimony	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Barium	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Cadmium	475	ug/L	500	ug/L	95	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Calcium	5290	ug/L	5000	ug/L	105.7	90.0 – 110.0	P	03-FEB-10 22:18	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Cobalt	479	ug/L	500	ug/L	95.9	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Copper	486	ug/L	500	ug/L	97.3	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Iron	5290	ug/L	5000	ug/L	105.7	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Lead	490	ug/L	500	ug/L	98	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Magnesium	5360	ug/L	5000	ug/L	107.2	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Manganese	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Potassium	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Silver	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Sodium	9580	ug/L	10000	ug/L	95.8	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Vanadium	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
	Zinc	482	ug/L	500	ug/L	96.5	90.0 – 110.0	P	03-FEB-10 22:18	020310-1
CCV13	Mercury	5.09	ug/L	5	ug/L	101.7	80.0 – 120.0	AV	03-FEB-10 13:25	020310S2-7
	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Antimony	495	ug/L	500	ug/L	98.9	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Barium	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Cadmium	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Calcium	5210	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Chromium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Cobalt	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Copper	486	ug/L	500	ug/L	97.1	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Iron	5200	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Lead	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Magnesium	5220	ug/L	5000	ug/L	104.4	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Manganese	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Potassium	4990	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Silver	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Sodium	9320	ug/L	10000	ug/L	93.2	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Vanadium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	03-FEB-10 23:42	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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>
CCV14	Zinc	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	03-FEB-10 23:42	020310-1
	Mercury	5.07	ug/L	5	ug/L	101.4	80.0 – 120.0	AV	03-FEB-10 13:36	020310S2-7
	Aluminum	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Antimony	505	ug/L	500	ug/L	101	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Barium	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Cadmium	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Calcium	5300	ug/L	5000	ug/L	105.9	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Chromium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Cobalt	485	ug/L	500	ug/L	97	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Copper	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Iron	5220	ug/L	5000	ug/L	104.4	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Lead	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Magnesium	5340	ug/L	5000	ug/L	106.9	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Manganese	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Potassium	5030	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Silver	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Sodium	9130	ug/L	10000	ug/L	91.3	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Vanadium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
	Zinc	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	04-FEB-10 01:05	020310-1
CCV15	Aluminum	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Antimony	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Barium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Cadmium	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Calcium	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Chromium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Cobalt	484	ug/L	500	ug/L	96.9	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Copper	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Iron	5270	ug/L	5000	ug/L	105.5	90.0 – 110.0	P	04-FEB-10 02:30	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,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>
	Lead	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Magnesium	5390	ug/L	5000	ug/L	107.8	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Manganese	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Potassium	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Silver	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Sodium	9210	ug/L	10000	ug/L	92.1	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Vanadium	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	04-FEB-10 02:30	020310-1
	Zinc	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	04-FEB-10 02:30	020310-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS4,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	.179	ug/L	.2	ug/L	89.5	70.0 – 130.0	AV	03-FEB-10 09:34	020310S2-7
	Arsenic	5.84	ug/L	5	ug/L	116.7	70.0 – 130.0	MS	11-FEB-10 20:28	100211-3
	Selenium	5.49	ug/L	5	ug/L	109.8	70.0 – 130.0	MS	11-FEB-10 20:28	100211-3
	Thallium	1.24	ug/L	1	ug/L	123.5	70.0 – 130.0	MS	13-FEB-10 13:09	100213-5
	Uranium	.247	ug/L	.2	ug/L	123.5	70.0 – 130.0	MS	13-FEB-10 18:03	100213-2
	Nickel	2.26	ug/L	2	ug/L	112.9	70.0 – 130.0	MS	15-FEB-10 18:09	100215-6
	Beryllium	.534	ug/L	.5	ug/L	106.8	70.0 – 130.0	MS	15-FEB-10 18:09	100215-6
PQL01										
	Aluminum	219	ug/L	200	ug/L	109.6	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Iron	98.6	ug/L	100	ug/L	98.6	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Lead	9.98	ug/L	10	ug/L	99.9	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Magnesium	308	ug/L	300	ug/L	102.8	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Manganese	10.6	ug/L	10	ug/L	106.3	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Potassium	159	ug/L	150	ug/L	106	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Silver	5.15	ug/L	5	ug/L	102.9	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Sodium	303	ug/L	300	ug/L	101	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Antimony	13	ug/L	10	ug/L	130.3	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Barium	5.23	ug/L	5	ug/L	104.7	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Cadmium	5.04	ug/L	5	ug/L	100.8	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Chromium	5.23	ug/L	5	ug/L	104.6	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Cobalt	5	ug/L	5	ug/L	100	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Copper	10.6	ug/L	10	ug/L	105.6	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Vanadium	4.88	ug/L	5	ug/L	97.6	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Zinc	10.2	ug/L	10	ug/L	102	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
	Calcium	218	ug/L	200	ug/L	108.9	70.0 – 130.0	P	03-FEB-10 10:06	020310-1
PQL02										
	Aluminum	213	ug/L	200	ug/L	106.7	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Iron	124	ug/L	100	ug/L	124.3	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Lead	8.91	ug/L	10	ug/L	89.1	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Magnesium	248	ug/L	300	ug/L	82.8	70.0 – 130.0	P	03-FEB-10 13:24	020310-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: HG3,ICPMS4,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>
	Manganese	10.6	ug/L	10	ug/L	106.4	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Potassium	202	ug/L	150	ug/L	134.6	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Silver	5.39	ug/L	5	ug/L	107.8	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Sodium	306	ug/L	300	ug/L	102.2	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Antimony	14.2	ug/L	10	ug/L	141.9	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Barium	5.24	ug/L	5	ug/L	104.8	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Cadmium	5.01	ug/L	5	ug/L	100.2	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Chromium	5.1	ug/L	5	ug/L	102	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Cobalt	4.89	ug/L	5	ug/L	97.9	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Copper	10.8	ug/L	10	ug/L	108	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Vanadium	5.03	ug/L	5	ug/L	100.6	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Zinc	10.2	ug/L	10	ug/L	101.8	70.0 – 130.0	P	03-FEB-10 13:24	020310-1
	Calcium	218	ug/L	200	ug/L	109.1	70.0 – 130.0	P	03-FEB-10 13:24	020310-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

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	-0.08	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 09:32	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 09:59	020310-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 09:59	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 09:59	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 09:59	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 09:59	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 09:59	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	11-FEB-10 20:21	100211-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	11-FEB-10 20:21	100211-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-FEB-10 13:05	100213-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-FEB-10 18:01	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	15-FEB-10 18:06	100215-6
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	15-FEB-10 18:06	100215-6
CCB01										
	Mercury	-0.092	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 09:37	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 10:47	020310-1
	Antimony	4.32	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 10:47	020310-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

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>
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 10:47	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Magnesium	-124.9	+/-300	J	85.0	300	SOL	P	03-FEB-10 10:47	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Potassium	112.15	+/-250	J	64.0	250	SOL	P	03-FEB-10 10:47	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 10:47	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	11-FEB-10 20:52	100211-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	11-FEB-10 20:52	100211-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-FEB-10 13:27	100213-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-FEB-10 18:09	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	15-FEB-10 18:17	100215-6
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	15-FEB-10 18:17	100215-6
CCB02	Mercury	-0.091	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 09:57	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 11:08	020310-1
	Antimony	4.18	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 11:08	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 11:08	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 11:08	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 11:08	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 11:08	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 11:08	020310-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 11:08	020310-1
	Potassium	87.32	+/-250	J	64.0	250	SOL	P	03-FEB-10 11:08	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 11:08	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 11:08	020310-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	11-FEB-10 21:10	100211-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	11-FEB-10 21:10	100211-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-FEB-10 14:08	100213-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-FEB-10 18:23	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	15-FEB-10 18:24	100215-6
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	15-FEB-10 18:24	100215-6
CCB03	Mercury	-0.085	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 10:17	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 12:30	020310-1
	Antimony	4.95	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 12:30	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 12:30	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 12:30	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 12:30	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 12:30	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 12:30	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 12:30	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 12:30	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 12:30	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 12:30	020310-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	11-FEB-10 22:05	100211-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	11-FEB-10 22:05	100211-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-FEB-10 14:44	100213-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-FEB-10 18:38	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	15-FEB-10 18:44	100215-6
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	15-FEB-10 18:44	100215-6
CCB04	Mercury	-0.082	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 10:38	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 13:31	020310-1
	Antimony	5.36	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 13:31	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 13:31	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 13:31	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 13:31	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 13:31	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 13:31	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 13:31	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 13:31	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 13:31	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 13:31	020310-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	11-FEB-10 23:01	100211-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	11-FEB-10 23:01	100211-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	13-FEB-10 15:25	100213-5
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-FEB-10 18:54	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	15-FEB-10 19:04	100215-6
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	15-FEB-10 19:04	100215-6

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

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	-0.08	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 10:58	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 14:22	020310-1
	Antimony	4.76	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 14:22	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 14:22	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 14:22	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 14:22	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 14:22	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	11-FEB-10 23:50	100211-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	11-FEB-10 23:50	100211-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-FEB-10 19:08	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	15-FEB-10 19:22	100215-6
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	15-FEB-10 19:22	100215-6
CCB06										
	Mercury	-0.082	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 11:18	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 15:24	020310-1
	Antimony	4.75	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 15:24	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 15:24	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 15:24	020310-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

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	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 15:24	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 15:24	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 15:24	020310-1
	Magnesium	-126.66	+/-300	J	85.0	300	SOL	P	03-FEB-10 15:24	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 15:24	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 15:24	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 15:24	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 15:24	020310-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	13-FEB-10 19:23	100213-2
CCB07										
	Mercury	-0.087	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 11:38	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 16:02	020310-1
	Antimony	4.13	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 16:02	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 16:02	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 16:02	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 16:02	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 16:02	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 16:02	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 16:02	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 16:02	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 16:02	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 16:02	020310-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
CCB08	Mercury	-0.082	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 11:58	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 17:18	020310-1
	Antimony	4.82	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 17:18	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 17:18	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 17:18	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 17:18	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 17:18	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 17:18	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 17:18	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 17:18	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 17:18	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 17:18	020310-1
CCB09	Mercury	-0.085	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 12:18	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 18:28	020310-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 18:28	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 18:28	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 18:28	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 18:28	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 18:28	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 18:28	020310-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 18:28	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 18:28	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 18:28	020310-1
	Vanadium	-1.11	+/-5	J	1.0	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 18:28	020310-1
CCB10	Mercury	-0.075	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 12:39	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 19:44	020310-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 19:44	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 19:44	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 19:44	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 19:44	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 19:44	020310-1
	Magnesium	-120.46	+/-300	J	85.0	300	SOL	P	03-FEB-10 19:44	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 19:44	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 19:44	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 19:44	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 19:44	020310-1
CCB11	Mercury	-0.068	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 12:59	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 21:09	020310-1
	Antimony	4.9	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 21:09	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 21:09	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 21:09	020310-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

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>
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 21:09	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 21:09	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 21:09	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 21:09	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 21:09	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 21:09	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 21:09	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 21:09	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 21:09	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 21:09	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 21:09	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 21:09	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 21:09	020310-1
CCB12	Mercury	-0.072	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 13:19	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 22:25	020310-1
	Antimony	3.76	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 22:25	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 22:25	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 22:25	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 22:25	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 22:25	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 22:25	020310-1

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Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
CCB13	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Mercury	-0.074	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 13:26	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 23:49	020310-1
	Antimony	4.09	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 23:49	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 23:49	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 23:49	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 23:49	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 23:49	020310-1
	Magnesium	-87.15	+/-300	J	85.0	300	SOL	P	03-FEB-10 23:49	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 23:49	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 23:49	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 23:49	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 23:49	020310-1
CCB14	Mercury	-0.07	+/-2	J	0.068	0.2	SOL	AV	03-FEB-10 13:37	020310S2-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	04-FEB-10 01:12	020310-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	04-FEB-10 01:12	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-FEB-10 01:12	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	04-FEB-10 01:12	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	04-FEB-10 01:12	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	04-FEB-10 01:12	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	04-FEB-10 01:12	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-FEB-10 01:12	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	04-FEB-10 01:12	020310-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	04-FEB-10 01:12	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	04-FEB-10 01:12	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	04-FEB-10 01:12	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	04-FEB-10 01:12	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	04-FEB-10 01:12	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	04-FEB-10 01:12	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	04-FEB-10 01:12	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	04-FEB-10 01:12	020310-1
CCB15	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	04-FEB-10 02:36	020310-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	04-FEB-10 02:36	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-FEB-10 02:36	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	04-FEB-10 02:36	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	04-FEB-10 02:36	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	04-FEB-10 02:36	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	04-FEB-10 02:36	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-FEB-10 02:36	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	04-FEB-10 02:36	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	04-FEB-10 02:36	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	04-FEB-10 02:36	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	04-FEB-10 02:36	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	04-FEB-10 02:36	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	04-FEB-10 02:36	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	04-FEB-10 02:36	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	04-FEB-10 02:36	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	04-FEB-10 02:36	020310-1

METALS
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PREPARATION BLANK SUMMARY

SDG NO. 10-1325-1

Contract: LANL01004

Matrix: SOIL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M</u>	<u>MDL</u>	<u>RDL</u>
1202021601								
	Vanadium	99	ug/Kg	+/-495	U	P	99	495
	Zinc	456	ug/Kg	+/-990	J	P	327	990
	Sodium	6930	ug/Kg	+/-24800	U	P	6930	24800
	Antimony	407	ug/Kg	+/-990	J	P	327	990
	Calcium	7920	ug/Kg	+/-24800	U	P	7920	24800
	Cadmium	99	ug/Kg	+/-495	U	P	99	495
	Barium	315	ug/Kg	+/-495	J	P	99	495
	Aluminum	6730	ug/Kg	+/-19800	U	P	6730	19800
	Chromium	149	ug/Kg	+/-495	U	P	149	495
	Silver	99	ug/Kg	+/-495	U	P	99	495
	Potassium	9520	ug/Kg	+/-24800	J	P	6340	24800
	Manganese	1130	ug/Kg	+/-990		P	198	990
	Magnesium	8420	ug/Kg	+/-29700	U	P	8420	29700
	Lead	248	ug/Kg	+/-990	U	P	248	990
	Iron	29700	ug/Kg	+/-24800		P	7920	24800
	Copper	297	ug/Kg	+/-990	U	P	297	990
	Cobalt	149	ug/Kg	+/-495	U	P	149	495
1202021617								
	Arsenic	0.196	mg/kg	+/-0.982	U	MS	0.196	0.982
	Selenium	0.491	mg/kg	+/-0.982	U	MS	0.491	0.982
	Thallium	0.0589	mg/kg	+/-0.196	U	MS	0.0589	0.196
	Uranium	0.013	mg/kg	+/-0.0393	U	MS	0.013	0.0393
1202025224								
	Mercury	-4.98	ug/kg	+/-11.6	J	AV	3.94	11.6
1202042623								
	Beryllium	0.0194	mg/kg	+/-0.0969	U	MS	0.0194	0.0969
	Nickel	0.0969	mg/kg	+/-0.388	U	MS	0.0969	0.388

METALS
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Interference Check Sample

SDG No: 10-1325-1

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	529000	ug/L	500000	ug/L	106	80.0 – 120.0	03-FEB-10 10:13	020310-1
	Antimony	4.48	ug/L					03-FEB-10 10:13	020310-1
	Barium	0.099	ug/L					03-FEB-10 10:13	020310-1
	Cadmium	-2.42	ug/L					03-FEB-10 10:13	020310-1
	Calcium	485000	ug/L	500000	ug/L	97	80.0 – 120.0	03-FEB-10 10:13	020310-1
	Chromium	0.977	ug/L					03-FEB-10 10:13	020310-1
	Cobalt	-1.62	ug/L					03-FEB-10 10:13	020310-1
	Copper	2.6	ug/L					03-FEB-10 10:13	020310-1
	Iron	186000	ug/L	200000	ug/L	92.8	80.0 – 120.0	03-FEB-10 10:13	020310-1
	Lead	-6.38	ug/L					03-FEB-10 10:13	020310-1
	Magnesium	490000	ug/L	500000	ug/L	98	80.0 – 120.0	03-FEB-10 10:13	020310-1
	Manganese	-1.41	ug/L					03-FEB-10 10:13	020310-1
	Potassium	-184.0	ug/L					03-FEB-10 10:13	020310-1
	Silver	2.21	ug/L					03-FEB-10 10:13	020310-1
	Sodium	16.0	ug/L					03-FEB-10 10:13	020310-1
	Vanadium	-2.31	ug/L					03-FEB-10 10:13	020310-1
	Zinc	7.18	ug/L					03-FEB-10 10:13	020310-1
ICSAB01									
	Aluminum	524000	ug/L	500000	ug/L	105	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Antimony	525	ug/L	500	ug/L	105	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Barium	487	ug/L	500	ug/L	97.4	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Cadmium	466	ug/L	500	ug/L	93.2	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Calcium	483000	ug/L	500000	ug/L	96.6	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Chromium	482	ug/L	500	ug/L	96.4	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Cobalt	438	ug/L	500	ug/L	87.7	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Copper	549	ug/L	500	ug/L	110	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Iron	189000	ug/L	200000	ug/L	94.3	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Lead	451	ug/L	500	ug/L	90.3	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Magnesium	494000	ug/L	500000	ug/L	98.8	80.0 – 120.0	03-FEB-10 10:19	020310-1

METALS

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Interference Check Sample

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Manganese	476	ug/L	500	ug/L	95.2	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Potassium	5210	ug/L	5000	ug/L	104	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Silver	272	ug/L	250	ug/L	109	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Sodium	5340	ug/L	5000	ug/L	107	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Vanadium	500	ug/L	500	ug/L	100	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Zinc	496	ug/L	500	ug/L	99.2	80.0 – 120.0	03-FEB-10 10:19	020310-1

METALS
-4-
Interference Check Sample

SDG No: 10-1325-1

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	Uranium	-0.001	ug/L					13-FEB-10 18:04	100213-2
ICSAB01	Uranium	19.7	ug/L	20	ug/L	98.5	80.0 - 120.0	13-FEB-10 18:06	100213-2

METALS
-4-
Interference Check Sample

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Arsenic	0.213	ug/L					11-FEB-10 20:34	100211-3
	Selenium	-1.32	ug/L					11-FEB-10 20:34	100211-3
ICSAB01									
	Arsenic	21.0	ug/L	20	ug/L	105	80.0 - 120.0	11-FEB-10 20:40	100211-3
	Selenium	18.0	ug/L	20	ug/L	90	80.0 - 120.0	11-FEB-10 20:40	100211-3

METALS
-4-
Interference Check Sample

SDG No: 10-1325-1

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	Thallium	-0.031	ug/L					13-FEB-10 13:14	100213-5
ICSAB01	Thallium	21.9	ug/L	20	ug/L	110	80.0 - 120.0	13-FEB-10 13:18	100213-5

METALS
-4-
Interference Check Sample

SDG No: 10-1325-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.094	ug/L					15-FEB-10 18:11	100215-6
	Nickel	3.51	ug/L					15-FEB-10 18:11	100215-6
ICSAB01	Beryllium	18.2	ug/L	20	ug/L	90.8	80.0 - 120.0	15-FEB-10 18:13	100215-6
	Nickel	22.4	ug/L	23.31	ug/L	96.1	80.0 - 120.0	15-FEB-10 18:13	100215-6

METALS

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Matrix Spike Summary

SDG NO. 10-1325-1 Client ID RE15-10-8410S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 75

Sample ID: 245113001 Spike ID: 1202021604

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		10600000		5010000		649000	857	N/A	P
Antimony	ug/Kg	75-125	57900		440	U	64900	89		P
Barium	ug/Kg	75-125	191000		143000		64900	74.2	N	P
Cadmium	ug/Kg	75-125	66200		133	U	64900	102		P
Calcium	ug/Kg		4430000		4480000		649000	-7.53	N/A	P
Chromium	ug/Kg	75-125	75900		7100		64900	106		P
Cobalt	ug/Kg	75-125	67100		3330		64900	98.3		P
Copper	ug/Kg	75-125	79100		8470		64900	109		P
Iron	ug/Kg		11500000		8950000		649000	390	N/A	P
Lead	ug/Kg	75-125	89400		19400		64900	108		P
Magnesium	ug/Kg	75-125	2410000		1210000		649000	185	N	P
Manganese	ug/Kg		579000		574000		64900	7.88	N/A	P
Potassium	ug/Kg	75-125	2160000		1050000		649000	171	N	P
Silver	ug/Kg	75-125	68900		521	J	64900	105		P
Sodium	ug/Kg	75-125	681000		57800		649000	96		P
Vanadium	ug/Kg	75-125	83300		11800		64900	110		P
Zinc	ug/Kg	75-125	114000		38900		64900	116		P

METALS

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Matrix Spike Duplicate Summary

SDG NO. 10-1325-1 Client ID RE15-10-8410SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 75

Sample ID: 245113001 Spike ID: 1202021605

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Calcium	ug/Kg		4570000		4480000		645000	13.9	N/A	P
Chromium	ug/Kg	75-125	73200		7100		64500	102		P
Cobalt	ug/Kg	75-125	66300		3330		64500	97.6		P
Copper	ug/Kg	75-125	77600		8470		64500	107		P
Iron	ug/Kg		9580000		8950000		645000	97.4	N/A	P
Lead	ug/Kg	75-125	84500		19400		64500	101		P
Magnesium	ug/Kg	75-125	2170000		1210000		645000	148	N	P
Manganese	ug/Kg		540000		574000		64500	-52.2	N/A	P
Potassium	ug/Kg	75-125	2010000		1050000		645000	149	N	P
Silver	ug/Kg	75-125	67500		521	J	64500	104		P
Sodium	ug/Kg	75-125	629000		57800		645000	88.6		P
Vanadium	ug/Kg	75-125	79800		11800		64500	105		P
Zinc	ug/Kg	75-125	106000		38900		64500	103		P
Aluminum	ug/Kg		9730000		5010000		645000	732	N/A	P
Antimony	ug/Kg	75-125	56900		440	U	64500	88		P
Barium	ug/Kg	75-125	187000		143000		64500	68.3	N	P
Cadmium	ug/Kg	75-125	64800		133	U	64500	100		P

METALS

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Matrix Spike Summary

SDG NO. 10-1325-1 Client ID RE15-10-8410S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 75

Sample ID: 245113001 Spike ID: 1202021620

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	10.9		2.08		10.4	84.8		MS
Selenium	mg/kg	75-125	2		0.665	U	2.61	76.6		MS
Thallium	mg/kg	75-125	13.3		0.145	J	13.1	101		MS
Uranium	mg/kg	75-125	17.8		13.3		6.53	69.7	N	MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1325-1 Client ID RE15-10-8410SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 75

Sample ID: 245113001 Spike ID: 1202021621

<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>
Arsenic	mg/kg	75-125	11.4		2.08		10.4	89.7		MS
Selenium	mg/kg	75-125	2.13		0.665	U	2.59	82.4		MS
Thallium	mg/kg	75-125	14.3		0.145	J	13	109		MS
Uranium	mg/kg	75-125	18.7		13.3		6.48	82.7		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1325-1 Client ID RE16-10-1102S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 90.1

Sample ID: 245372002 Spike ID: 1202025227

<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	147		5.36	J	128	111		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1325-1 **Client ID** RE16-10-1102SD**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 90.1**Sample ID:** 245372002 **Spike ID:** 1202025229

<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	144		5.36	J	127	109		AV

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1325-1 Client ID RE15-10-8410S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 75

Sample ID: 245113001 Spike ID: 1202042626

<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>
Beryllium	mg/kg	75-125	5.96		0.576		6.09	88.4		MS
Nickel	mg/kg	75-125	10.8		5		6.09	95.2		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1325-1 **Client ID** RE15-10-8410SD**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 75**Sample ID:** 245113001 **Spike ID:** 1202042627

<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>
Beryllium	mg/kg	75-125	6.25		0.576		6.22	91.1		MS
Nickel	mg/kg	75-125	11.2		5		6.22	99.7		MS

Metals

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Duplicate Sample Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8410D

Sample ID: 245113001

Duplicate ID: 1202021602

Percent Solids for Dup: 75

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	5010000		4890000		2.32		P
Antimony	ug/Kg		440 U		498 J		200		P
Barium	ug/Kg	+/-20%	143000		115000		21.3	*	P
Cadmium	ug/Kg		133 U		131 U				P
Calcium	ug/Kg	+/-20%	4480000		3990000		11.6		P
Chromium	ug/Kg	+/-20%	7100		6650		6.67		P
Cobalt	ug/Kg	+/-654	3330		2930		12.7		P
Copper	ug/Kg	+/-20%	8470		8240		2.82		P
Iron	ug/Kg	+/-20%	8950000		8660000		3.25		P
Lead	ug/Kg	+/-20%	19400		19900		2.15		P
Magnesium	ug/Kg	+/-20%	1210000		1150000		5.29		P
Manganese	ug/Kg	+/-20%	574000		516000		10.6		P
Potassium	ug/Kg	+/-20%	1050000		1030000		1.73		P
Silver	ug/Kg	+/-654	521 J		398 J		26.8		P
Sodium	ug/Kg	+/-32700	57800		55300		4.5		P
Vanadium	ug/Kg	+/-20%	11800		11800		.361		P
Zinc	ug/Kg	+/-20%	38900		37600		3.48		P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8410SD

Sample ID: 1202021604

Duplicate ID: 1202021605

Percent Solids for Dup: 75

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	10600000		9730000		8.3		P
Antimony	ug/Kg	+/-20	57900		56900		1.78		P
Barium	ug/Kg	+/-20	191000		187000		2.16		P
Cadmium	ug/Kg	+/-20	66200		64800		2.09		P
Calcium	ug/Kg	+/-20	4430000		4570000		3.08		P
Chromium	ug/Kg	+/-20	75900		73200		3.57		P
Cobalt	ug/Kg	+/-20	67100		66300		1.19		P
Copper	ug/Kg	+/-20	79100		77600		1.96		P
Iron	ug/Kg	+/-20	11500000		9580000		18		P
Lead	ug/Kg	+/-20	89400		84500		5.61		P
Magnesium	ug/Kg	+/-20	2410000		2170000		10.8		P
Manganese	ug/Kg	+/-20	579000		540000		6.94		P
Potassium	ug/Kg	+/-20	2160000		2010000		7.22		P
Silver	ug/Kg	+/-20	68900		67500		2.07		P
Sodium	ug/Kg	+/-20	681000		629000		7.84		P
Vanadium	ug/Kg	+/-20	83300		79800		4.32		P
Zinc	ug/Kg	+/-20	114000		106000		7.7		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8410D

Sample ID: 245113001

Duplicate ID: 1202021618

Percent Solids for Dup: 75

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.32	2.08		2.13		2.29		MS
Selenium	mg/kg		0.665 U		0.661 U				MS
Thallium	mg/kg	+/- .264	0.145 J		0.0928 J		43.7		MS
Uranium	mg/kg	+/-20%	13.3		9.25		35.9	*	MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8410SD

Sample ID: 1202021620

Duplicate ID: 1202021621

Percent Solids for Dup: 75

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	10.9		11.4		3.99		MS
Selenium	mg/kg	+/-20	2		2.13		6.49		MS
Thallium	mg/kg	+/-20	13.3		14.3		7.49		MS
Uranium	mg/kg	+/-20	17.8		18.7		4.43		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE16-10-1102D

Sample ID: 245372002

Duplicate ID: 1202025226

Percent Solids for Dup: 90.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-12.3	5.36 J		7.33 J		31		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE16-10-1102SD

Sample ID: 1202025227

Duplicate ID: 1202025229

Percent Solids for Dup: 90.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	147		144		1.67		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8410D

Sample ID: 245113001

Duplicate ID: 1202042624

Percent Solids for Dup: 75

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Beryllium	mg/kg	+/- .124	0.576		0.555		3.7		MS
Nickel	mg/kg	+/- 20%	5		4.24		16.3		MS

Metals

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Duplicate Sample Summary

SDG No.: 10-1325-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8410SD

Sample ID: 1202042626

Duplicate ID: 1202042627

Percent Solids for Dup: 75

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Beryllium	mg/kg	+/-20	5.96		6.25		4.71		MS
Nickel	mg/kg	+/-20	10.8		11.2		3.73		MS

METALS
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Laboratory Control Sample Summary

SDG NO. 10-1325-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202021606								
	Aluminum	ug/Kg	10500000	8530000		81.2	56-144	P
	Antimony	ug/Kg	173000	154000		88.9	71-130	P
	Barium	ug/Kg	198000	184000		92.8	80-120	P
	Cadmium	ug/Kg	60700	60300		99.4	81-120	P
	Calcium	ug/Kg	9870000	10100000		103	83-117	P
	Chromium	ug/Kg	236000	258000		109	80-120	P
	Cobalt	ug/Kg	91200	93800		103	81-120	P
	Copper	ug/Kg	174000	187000		108	81-118	P
	Iron	ug/Kg	18000000	17000000		94.3	51-149	P
	Lead	ug/Kg	86000	74900		87	79-121	P
	Magnesium	ug/Kg	4000000	3660000		91.4	79-122	P
	Manganese	ug/Kg	558000	532000		95.4	81-119	P
	Potassium	ug/Kg	4300000	3910000		91	74-127	P
	Silver	ug/Kg	30100	30300		101	66-134	P
	Sodium	ug/Kg	1020000	922000		90.4	74-127	P
	Vanadium	ug/Kg	115000	119000		104	79-121	P
	Zinc	ug/Kg	594000	584000		98.3	80-121	P

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1325-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202021622								
	Arsenic	mg/kg	104	111		107	78-123	MS
	Selenium	mg/kg	286	322		113	77-123	MS
	Thallium	mg/kg	121	119		98.4	78-122	MS
	Uranium	mg/kg	2.13	1.69		79.5	73-127	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1325-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202025225	Mercury	ug/kg	5150	6190		120	71.6-128.3	AV

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1325-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202042628								
	Beryllium	mg/kg	77.6	73.9		95.3	84-116	MS
	Nickel	mg/kg	134	135		101	78-123	MS

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1325-1 Client ID RE15-10-8410L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 245113001 Serial Dilution ID: 1202021603

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	37600		36600		2.79		10	P
Antimony	3.3	U	16.5	U				P
Barium	1070		1030		3.74		10	P
Cadmium	1	U	5	U				P
Calcium	33600		32400		3.57		10	P
Chromium	53.3		49		8.16			P
Cobalt	25		24.1	J	3.8			P
Copper	63.6		58.5		8.02			P
Iron	67200		66000		1.79		10	P
Lead	146		143		2.4		10	P
Magnesium	9090		8900		2.09		10	P
Manganese	4310		4230		1.97		10	P
Potassium	7870		7650		2.8		10	P
Silver	3.92	J	5	U	100			P
Sodium	434		362	J	16.6			P
Vanadium	88.5		84		5.08		10	P
Zinc	292		273		6.68		10	P

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1325-1 Client ID RE15-10-8410L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 245113001 Serial Dilution ID: 1202021619

<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>
Arsenic	7.82		9.45	J	20.8			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.544	J	1.5	U	100			MS
Uranium	50		48.6		2.9		10	MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1325-1 Client ID RE16-10-1102L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 245372002 Serial Dilution ID: 1202025228

<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	.083	J	.34	U	100			AV

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1325-1 Client ID RE15-10-8410L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 245113001 Serial Dilution ID: 1202042625

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Beryllium	2.26		2.5	J	10.4			MS
Nickel	19.6		20.8		5.87			MS

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1325-1

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 944123							
1202021601	MB for batch 944123	MB	S	27-JAN-10	.505g	50mL	
1202021606	LCS for batch 944123	LCS	S	27-JAN-10	.507g	50mL	
1202021604	RE15-10-8410S	MS	S	27-JAN-10	.513g	50mL	
1202021605	RE15-10-8410SD	MSD	S	27-JAN-10	.516g	50mL	
1202021602	RE15-10-8410D	DUP	S	27-JAN-10	.509g	50mL	
245113001	RE15-10-8410	SAMPLE	S	27-JAN-10	.5g	50mL	
245113002	RE15-10-8411	SAMPLE	S	27-JAN-10	.508g	50mL	
245113003	RE15-10-8412	SAMPLE	S	27-JAN-10	.507g	50mL	
245113004	RE15-10-8441	SAMPLE	S	27-JAN-10	.51g	50mL	
245113005	RE15-10-8413	SAMPLE	S	27-JAN-10	.5g	50mL	
245113006	RE15-10-8425	SAMPLE	S	27-JAN-10	.523g	50mL	
245113007	RE15-10-8422	SAMPLE	S	27-JAN-10	.517g	50mL	
245113008	RE15-10-8417	SAMPLE	S	27-JAN-10	.5g	50mL	
245113009	RE15-10-8423	SAMPLE	S	27-JAN-10	.504g	50mL	
245113010	RE15-10-8416	SAMPLE	S	27-JAN-10	.516g	50mL	
245113011	RE15-10-8418	SAMPLE	S	27-JAN-10	.525g	50mL	
245113012	RE15-10-8424	SAMPLE	S	27-JAN-10	.506g	50mL	
245113013	RE15-10-8421	SAMPLE	S	27-JAN-10	.517g	50mL	
245113014	RE15-10-8420	SAMPLE	S	27-JAN-10	.532g	50mL	

SW846

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1325-1

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 944126							
1202021617	MB for batch 944126	MB	S	27-JAN-10	.509g	50mL	
1202021622	LCS for batch 944126	LCS	S	27-JAN-10	.503g	50mL	
1202021620	RE15-10-8410S	MS	S	27-JAN-10	.51g	50mL	
1202021621	RE15-10-8410SD	MSD	S	27-JAN-10	.514g	50mL	
1202021618	RE15-10-8410D	DUP	S	27-JAN-10	.504g	50mL	
245113001	RE15-10-8410	SAMPLE	S	27-JAN-10	.501g	50mL	
245113002	RE15-10-8411	SAMPLE	S	27-JAN-10	.524g	50mL	
245113003	RE15-10-8412	SAMPLE	S	27-JAN-10	.503g	50mL	
245113004	RE15-10-8441	SAMPLE	S	27-JAN-10	.521g	50mL	
245113005	RE15-10-8413	SAMPLE	S	27-JAN-10	.513g	50mL	
245113006	RE15-10-8425	SAMPLE	S	27-JAN-10	.515g	50mL	
245113007	RE15-10-8422	SAMPLE	S	27-JAN-10	.509g	50mL	
245113008	RE15-10-8417	SAMPLE	S	27-JAN-10	.504g	50mL	
245113009	RE15-10-8423	SAMPLE	S	27-JAN-10	.515g	50mL	
245113010	RE15-10-8416	SAMPLE	S	27-JAN-10	.507g	50mL	
245113011	RE15-10-8418	SAMPLE	S	27-JAN-10	.518g	50mL	
245113012	RE15-10-8424	SAMPLE	S	27-JAN-10	.505g	50mL	
245113013	RE15-10-8421	SAMPLE	S	27-JAN-10	.511g	50mL	
245113014	RE15-10-8420	SAMPLE	S	27-JAN-10	.517g	50mL	

SW846

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1325-1

Method Type: MS

Contract:

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 952969							
1202042623	MB for batch 952969	MB	S	15-FEB-10	.516g	50mL	
1202042628	LCS for batch 952969	LCS	S	15-FEB-10	.534g	50mL	
1202042626	RE15-10-8410S	MS	S	15-FEB-10	.547g	50mL	
1202042627	RE15-10-8410SD	MSD	S	15-FEB-10	.535g	50mL	
1202042624	RE15-10-8410D	DUP	S	15-FEB-10	.536g	50mL	
245113001	RE15-10-8410	SAMPLE	S	15-FEB-10	.523g	50mL	
245113002	RE15-10-8411	SAMPLE	S	15-FEB-10	.527g	50mL	
245113003	RE15-10-8412	SAMPLE	S	15-FEB-10	.574g	50mL	
245113004	RE15-10-8441	SAMPLE	S	15-FEB-10	.538g	50mL	
245113005	RE15-10-8413	SAMPLE	S	15-FEB-10	.5g	50mL	
245113006	RE15-10-8425	SAMPLE	S	15-FEB-10	.557g	50mL	
245113007	RE15-10-8422	SAMPLE	S	15-FEB-10	.553g	50mL	
245113008	RE15-10-8417	SAMPLE	S	15-FEB-10	.515g	50mL	
245113009	RE15-10-8423	SAMPLE	S	15-FEB-10	.507g	50mL	
245113010	RE15-10-8416	SAMPLE	S	15-FEB-10	.579g	50mL	
245113011	RE15-10-8418	SAMPLE	S	15-FEB-10	.547g	50mL	
245113012	RE15-10-8424	SAMPLE	S	15-FEB-10	.512g	50mL	
245113013	RE15-10-8421	SAMPLE	S	15-FEB-10	.546g	50mL	
245113014	RE15-10-8420	SAMPLE	S	15-FEB-10	.5g	50mL	

SW846

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1325-1

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 945586							
1202025224	MB for batch 945586	MB	S	02-FEB-10	.518g	30mL	
1202025225	LCS for batch 945586	LCS	S	02-FEB-10	.2g	30mL	
1202025227	RE16-10-1102S	MS	S	02-FEB-10	.521g	30mL	
1202025229	RE16-10-1102SD	MSD	S	02-FEB-10	.524g	30mL	
1202025226	RE16-10-1102D	DUP	S	02-FEB-10	.541g	30mL	
245113001	RE15-10-8410	SAMPLE	S	02-FEB-10	.542g	30mL	
245113002	RE15-10-8411	SAMPLE	S	02-FEB-10	.5g	30mL	
245113003	RE15-10-8412	SAMPLE	S	02-FEB-10	.529g	30mL	
245113004	RE15-10-8441	SAMPLE	S	02-FEB-10	.527g	30mL	
245113005	RE15-10-8413	SAMPLE	S	02-FEB-10	.589g	30mL	
245113006	RE15-10-8425	SAMPLE	S	02-FEB-10	.548g	30mL	
245113007	RE15-10-8422	SAMPLE	S	02-FEB-10	.504g	30mL	
245113008	RE15-10-8417	SAMPLE	S	02-FEB-10	.513g	30mL	
245113009	RE15-10-8423	SAMPLE	S	02-FEB-10	.507g	30mL	
245113010	RE15-10-8416	SAMPLE	S	02-FEB-10	.552g	30mL	
245113011	RE15-10-8418	SAMPLE	S	02-FEB-10	.564g	30mL	
245113012	RE15-10-8424	SAMPLE	S	02-FEB-10	.5g	30mL	
245113013	RE15-10-8421	SAMPLE	S	02-FEB-10	.517g	30mL	
245113014	RE15-10-8420	SAMPLE	S	02-FEB-10	.509g	30mL	

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Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 11-FEB-10

End Date: 11-FEB-10

Client Sdg: 10-1325-1

Method MS

Data File: 100211-3

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	19:57			X															X						
S10	1	20:03			X															X						
S100	1	20:09			X															X						
ICV01	1	20:15			X															X						
ICB01	1	20:21			X															X						
CRDL01	1	20:28			X															X						
ICSA01	1	20:34			X															X						
ICSAB01	1	20:40			X															X						
CCV01	1	20:46			X															X						
CCB01	1	20:52			X															X						
LR01	1	20:58			X															X						
CCV02	1	21:04			X															X						
CCB02	1	21:10			X															X						
1202021617	2	21:16			X															X						
1202021622	40	21:23			X															X						
245113001	2	21:29			X															X						
1202021618	2	21:35			X															X						
1202021620	2	21:41			X															X						
1202021621	2	21:47			X															X						
1202021619	10	21:53			X															X						
CCV03	1	21:59			X															X						
CCB03	1	22:05			X															X						
245113002	2	22:12			X															X						
245113003	2	22:18			X															X						
245113004	2	22:24			X															X						
245113005	2	22:30			X															X						
245113006	2	22:36			X															X						
245113007	2	22:42			X															X						
245113008	2	22:48			X															X						
CCV04	1	22:54			X															X						
CCB04	1	23:01			X															X						
245113009	2	23:07			X															X						
245113010	2	23:13			X															X						
245113011	2	23:19			X															X						
245113012	2	23:25			X															X						
245113013	2	23:31			X															X						
245113014	2	23:37			X															X						
CCV05	1	23:44			X															X						
CCB05	1	23:50			X															X						

Metals
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Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS5**Start Date:** 13-FEB-10**End Date:** 13-FEB-10**Client Sdg:** 10-1325-1**Method:** MS**Data File:** 100213-5

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	12:47																					X			
S10	1	12:52																					X			
S100	1	12:56																					X			
ICV01	1	13:00																					X			
ICB01	1	13:05																					X			
CRDL01	1	13:09																					X			
ICSA01	1	13:14																					X			
ICSAB01	1	13:18																					X			
CCV01	1	13:23																					X			
CCB01	1	13:27																					X			
1202021617	2	13:32																					X			
1202021622	40	13:37																					X			
245113001	2	13:41																					X			
1202021618	2	13:46																					X			
1202021620	2	13:50																					X			
1202021621	2	13:55																					X			
1202021619	10	13:59																					X			
CCV02	1	14:04																					X			
CCB02	1	14:08																					X			
245113002	2	14:13																					X			
245113003	2	14:17																					X			
245113004	2	14:22																					X			
245113005	2	14:26																					X			
245113006	2	14:31																					X			
245113007	2	14:35																					X			
CCV03	1	14:40																					X			
CCB03	1	14:44																					X			
245113008	2	14:49																					X			
245113009	2	14:53																					X			
245113010	2	14:58																					X			
245113011	2	15:02																					X			
245113012	2	15:07																					X			
245113013	2	15:11																					X			
245113014	2	15:16																					X			
CCV04	1	15:20																					X			
CCB04	1	15:25																					X			

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 15-FEB-10

End Date: 15-FEB-10

Client Sdg: 10-1325-1

Method MS

Data File: 100215-6

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	Ti	U	V	Zn
S0.0	1	17:58					X											X								
S10	1	18:00					X											X								
S100	1	18:02					X											X								
ICV01	1	18:04					X											X								
ICB01	1	18:06					X											X								
CRDL01	1	18:09					X											X								
ICSA01	1	18:11					X											X								
ICSAB01	1	18:13					X											X								
CCV01	1	18:15					X											X								
CCB01	1	18:17					X											X								
LR01	1	18:20					X											X								
CCV02	1	18:22					X											X								
CCB02	1	18:24					X											X								
1202042623	2	18:26					X											X								
1202042628	40	18:28					X											X								
245113001	2	18:31					X											X								
1202042624	2	18:33					X											X								
1202042626	2	18:35					X											X								
1202042627	2	18:37					X											X								
1202042625	10	18:40					X											X								
CCV03	1	18:42					X											X								
CCB03	1	18:44					X											X								
245113002	2	18:46					X											X								
245113003	2	18:49					X											X								
245113004	2	18:51					X											X								
245113005	2	18:53					X											X								
245113006	2	18:55					X											X								
245113007	2	18:57					X											X								
245113008	2	19:00					X											X								
CCV04	1	19:02					X											X								
CCB04	1	19:04					X											X								
245113009	2	19:06					X											X								
245113010	2	19:09					X											X								
245113011	2	19:11					X											X								
245113012	2	19:13					X											X								
245113013	2	19:15					X											X								
245113014	2	19:18					X											X								
CCV05	1	19:20					X											X								
CCB05	1	19:22					X											X								

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 03-FEB-10

End Date: 04-FEB-10

Client Sdg: 10-1325-1

Method P

Data File: 020310-1

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	09:19	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S0.1	1	09:26		X		X		X		X	X	X		X		X			X		X				X	X
S0.5	1	09:33	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	09:39	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S10	1	09:47	X						X					X		X						X				
ICV01	1	09:52	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICB01	1	09:59	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL01	1	10:06	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSA01	1	10:13	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSAB01	1	10:19	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR01	1	10:26	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR02	1	10:33	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV01	1	10:40	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB01	1	10:47	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR03	1	10:55	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV02	1	11:01	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB02	1	11:08	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	11:15																								
ZZZZZZ	1	11:22																								
ZZZZZZ	1	11:29																								
ZZZZZZ	1	11:36																								
ZZZZZZ	1	11:42																								
ZZZZZZ	1	11:49																								
ZZZZZZ	1	11:56																								
ZZZZZZ	1	12:03																								
ZZZZZZ	1	12:09																								
ZZZZZZ	1	12:16																								
CCV03	1	12:23	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB03	1	12:30	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	5	12:37																								
ZZZZZZ	5	12:43																								
ZZZZZZ	5	12:50																								
ZZZZZZ	5	12:57																								
ZZZZZZ	5	13:04																								
ZZZZZZ	25	13:11																								
CCV04	1	13:18	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL02	1	13:24	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB04	1	13:31	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	13:48																								
ZZZZZZ	1	13:54																								

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Metals
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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	19:02																								
ZZZZZZ	1	19:09																								
ZZZZZZ	1	19:16																								
ZZZZZZ	5	19:23																								
ZZZZZZ	1	19:30																								
CCV10	1	19:37	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB10	1	19:44	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:51																								
ZZZZZZ	1	19:58																								
ZZZZZZ	1	20:05																								
ZZZZZZ	1	20:12																								
ZZZZZZ	1	20:19																								
ZZZZZZ	1	20:26																								
ZZZZZZ	1	20:34																								
ZZZZZZ	1	20:41																								
ZZZZZZ	1	20:48																								
ZZZZZZ	1	20:55																								
CCV11	1	21:02	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB11	1	21:09	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	21:15																								
ZZZZZZ	1	21:22																								
ZZZZZZ	1	21:28																								
ZZZZZZ	1	21:35																								
ZZZZZZ	1	21:43																								
ZZZZZZ	1	21:50																								
ZZZZZZ	5	21:57																								
ZZZZZZ	1	22:04																								
ZZZZZZ	1	22:11																								
CCV12	1	22:18	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB12	1	22:25	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	22:32																								
ZZZZZZ	1	22:39																								
ZZZZZZ	1	22:46																								
ZZZZZZ	1	22:53																								
ZZZZZZ	1	23:00																								
ZZZZZZ	1	23:07																								
ZZZZZZ	1	23:14																								
ZZZZZZ	1	23:21																								
ZZZZZZ	1	23:28																								
ZZZZZZ	1	23:35																								

Samp No.	D/F	Run Time																								
CCV13	1	23:42	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB13	1	23:49	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202021601	1	23:56	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202021606	1	00:02	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113001	1	00:09	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202021602	1	00:16	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202021604	1	00:23	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202021605	1	00:30	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202021603	5	00:37	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113002	1	00:44	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113003	1	00:51	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113004	1	00:58	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCV14	1	01:05	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB14	1	01:12	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113005	1	01:19	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113006	1	01:26	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113007	1	01:33	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113008	1	01:40	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113009	1	01:47	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113010	1	01:54	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113011	1	02:01	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113012	1	02:08	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113013	1	02:15	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
245113014	1	02:23	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCV15	1	02:30	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB15	1	02:36	X	X		X			X	X	X	X	X	X	X	X	X			X		X	X		X	X

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 03-FEB-10

End Date: 03-FEB-10

Client Sdg: 10-1325-1

Method AV

Data File: 020310S2-7

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	09:21															X									
S0.2	1	09:22															X									
S0.5	1	09:24															X									
S2.0	1	09:26															X									
S5.0	1	09:27															X									
S10.0	1	09:29															X									
ICV01	1	09:31															X									
ICB01	1	09:32															X									
CRDL01	1	09:34															X									
CCV01	1	09:36															X									
CCB01	1	09:37															X									
ZZZZZZ	1	09:39																								
ZZZZZZ	10	09:41																								
ZZZZZZ	1	09:42																								
ZZZZZZ	1	09:44																								
ZZZZZZ	1	09:46																								
ZZZZZZ	1	09:47																								
ZZZZZZ	5	09:49																								
ZZZZZZ	1	09:51																								
ZZZZZZ	1	09:52																								
ZZZZZZ	1	09:54																								
CCV02	1	09:56															X									
CCB02	1	09:57															X									
ZZZZZZ	1	09:59																								
ZZZZZZ	1	10:01																								
ZZZZZZ	1	10:02																								
ZZZZZZ	1	10:04																								
ZZZZZZ	1	10:06																								
ZZZZZZ	1	10:07																								
ZZZZZZ	1	10:09																								
ZZZZZZ	1	10:11																								
ZZZZZZ	1	10:12																								
ZZZZZZ	1	10:14																								
CCV03	1	10:16															X									
CCB03	1	10:17															X									
ZZZZZZ	1	10:19																								
ZZZZZZ	1	10:21																								
ZZZZZZ	1	10:22																								
ZZZZZZ	1	10:24																								
ZZZZZZ	1	10:26																								

Samp No.	D/F	Run Time
ZZZZZZ	1	10:28
1202025224	1	10:29
1202025225	10	10:31
245113001	1	10:33
245113002	1	10:34
CCV04	1	10:36
CCB04	1	10:38
245113003	1	10:39
245113004	1	10:41
245113005	1	10:43
245113006	1	10:44
ZZZZZZ	1	10:46
245113008	1	10:48
245113009	1	10:49
245113010	1	10:51
245113011	1	10:53
245113012	1	10:54
CCV05	1	10:56
CCB05	1	10:58
245113013	1	10:59
245113014	1	11:01
ZZZZZZ	1	11:03
ZZZZZZ	1	11:04
ZZZZZZ	1	11:06
1202025226	1	11:08
1202025227	1	11:09
1202025229	1	11:11
1202025228	5	11:13
ZZZZZZ	1	11:14
CCV06	1	11:16
CCB06	1	11:18
ZZZZZZ	1	11:19
ZZZZZZ	1	11:21
ZZZZZZ	10	11:23
ZZZZZZ	1	11:25
ZZZZZZ	1	11:26
ZZZZZZ	1	11:28
ZZZZZZ	1	11:30
ZZZZZZ	5	11:31
ZZZZZZ	1	11:33

Metals
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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	11:35																								
CCV07	1	11:36															X									
CCB07	1	11:38															X									
ZZZZZZ	1	11:40																								
ZZZZZZ	1	11:41																								
ZZZZZZ	1	11:43																								
ZZZZZZ	1	11:45																								
ZZZZZZ	1	11:46																								
ZZZZZZ	1	11:48																								
ZZZZZZ	1	11:50																								
ZZZZZZ	1	11:51																								
ZZZZZZ	1	11:53																								
ZZZZZZ	1	11:55																								
CCV08	1	11:57															X									
CCB08	1	11:58															X									
ZZZZZZ	1	12:00																								
ZZZZZZ	1	12:02																								
ZZZZZZ	1	12:03																								
ZZZZZZ	1	12:05																								
ZZZZZZ	1	12:07																								
ZZZZZZ	1	12:08																								
ZZZZZZ	1	12:10																								
ZZZZZZ	1	12:12																								
ZZZZZZ	1	12:13																								
ZZZZZZ	1	12:15																								
CCV09	1	12:17															X									
CCB09	1	12:18															X									
ZZZZZZ	1	12:20																								
ZZZZZZ	5	12:22																								
ZZZZZZ	1	12:24																								
ZZZZZZ	1	12:25																								
ZZZZZZ	1	12:27																								
ZZZZZZ	1	12:29																								
ZZZZZZ	1	12:30																								
ZZZZZZ	1	12:32																								
ZZZZZZ	1	12:34																								
ZZZZZZ	100	12:35																								
CCV10	1	12:37															X									
CCB10	1	12:39															X									
ZZZZZZ	1	12:40																								

Samp No.	D/F	Run Time
ZZZZZZ	1	12:42
ZZZZZZ	1	12:44
ZZZZZZ	1	12:46
ZZZZZZ	5	12:47
ZZZZZZ	1	12:49
ZZZZZZ	1	12:51
ZZZZZZ	1	12:52
ZZZZZZ	1	12:54
ZZZZZZ	1	12:56
CCV11	1	12:57
CCB11	1	12:59
ZZZZZZ	1	13:01
ZZZZZZ	1	13:02
ZZZZZZ	1	13:04
ZZZZZZ	1	13:06
ZZZZZZ	1	13:08
ZZZZZZ	1	13:09
ZZZZZZ	1	13:11
ZZZZZZ	1	13:13
ZZZZZZ	1	13:14
ZZZZZZ	1	13:16
CCV12	1	13:18
CCB12	1	13:19
ZZZZZZ	1	13:21
ZZZZZZ	1	13:23
CCV13	1	13:25
CCB13	1	13:26
245113007	2	13:31
ZZZZZZ	10	13:32
ZZZZZZ	20	13:34
CCV14	1	13:36
CCB14	1	13:37

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS4

Start Date: 13-FEB-10

End Date: 13-FEB-10

Client Sdg: 10-1325-1

Method MS

Data File: 100213-2

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	17:54																						X		
S10	1	17:56																						X		
S100	1	17:57																						X		
ICV01	1	17:59																						X		
ICB01	1	18:01																						X		
CRDL01	1	18:03																						X		
ICSA01	1	18:04																						X		
ICSAB01	1	18:06																						X		
CCV01	1	18:08																						X		
CCB01	1	18:09																						X		
ZZZZZZ	2	18:11																								
ZZZZZZ	40	18:13																								
ZZZZZZ	2	18:14																								
ZZZZZZ	2	18:16																								
ZZZZZZ	2	18:18																								
ZZZZZZ	2	18:20																								
CCV02	1	18:21																						X		
CCB02	1	18:23																						X		
ZZZZZZ	2	18:25																								
ZZZZZZ	2	18:26																								
ZZZZZZ	2	18:28																								
ZZZZZZ	2	18:30																								
ZZZZZZ	2	18:32																								
ZZZZZZ	10	18:33																								
ZZZZZZ	2	18:35																								
CCV03	1	18:37																						X		
CCB03	1	18:38																						X		
1202021617	2	18:40																						X		
1202021622	40	18:42																						X		
245113001	2	18:44																						X		
1202021618	2	18:45																						X		
1202021620	2	18:47																						X		
1202021621	2	18:49																						X		
1202021619	10	18:51																						X		
CCV04	1	18:52																						X		
CCB04	1	18:54																						X		
245113002	2	18:56																						X		
245113003	2	18:57																						X		
245113004	2	18:59																						X		
245113005	2	19:01																						X		

Samp No.	D/F	Run Time
245113006	2	19:03
245113007	2	19:04
CCV05	1	19:06
CCB05	1	19:08
245113008	2	19:10
245113009	2	19:11
245113010	2	19:13
245113011	2	19:15
245113012	2	19:17
245113013	2	19:18
245113014	2	19:20
CCV06	1	19:22
CCB06	1	19:23

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1325-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

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

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1325-1

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. 10-1325-1

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

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1325-1**Contract: **LANL01004**Instrument: **OPTIMA3**Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1325-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-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	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: GELGEL Job No: **10-1325-1**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Iron	Lead	Magnesium	Manganese	Molybdenum
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	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: **10-1325-1**

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: GEL

GEL Job No: 10-1325-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Silicon	Silver	Strontium	Sulfur	Thallium
Parmname	Wavelength					
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: 10-1325-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Tin	Titanium	Uranium	Vanadium	Zinc
Parmname	Wavelength					
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. 10-1325-1

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-NOV-09
Antimony	1000	250	ug/L	01-NOV-09
Arsenic	1000	1000	ug/L	01-NOV-09
Barium	1000	1000	ug/L	01-NOV-09
Beryllium	1000	1000	ug/L	01-NOV-09
Cadmium	1000	1000	ug/L	01-NOV-09
Calcium	500	50000	ug/L	01-NOV-09
Chromium	1000	1000	ug/L	01-NOV-09
Cobalt	1000	1000	ug/L	01-NOV-09
Copper	1000	1000	ug/L	01-NOV-09
Iron	500	50000	ug/L	01-NOV-09
Lead	1000	5000	ug/L	01-NOV-09
Magnesium	1	50000	ug/L	01-NOV-09
Manganese	1000	1000	ug/L	01-NOV-09
Nickel	1000	1000	ug/L	01-NOV-09
Potassium	1	50000	ug/L	01-NOV-09
Selenium	1000	500	ug/L	01-NOV-09
Silver	1000	250	ug/L	01-NOV-09
Sodium	1	50000	ug/L	01-NOV-09
Thallium	1000	500	ug/L	01-NOV-09
Uranium	1000	5000	ug/L	01-NOV-09
Vanadium	1000	100	ug/L	01-NOV-09
Zinc	1000	2500	ug/L	01-NOV-09

METALS
-12-
Linear Ranges

SDG NO. 10-1325-1

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>
Cadmium	20	10000	ug/L	01-NOV-09
Calcium	20	500000	ug/L	01-NOV-09
Chromium	20	25000	ug/L	01-NOV-09
Cobalt	20	10000	ug/L	01-NOV-09
Copper	20	20000	ug/L	01-NOV-09
Iron	20	500000	ug/L	01-NOV-09
Lead	20	25000	ug/L	01-NOV-09
Magnesium	20	500000	ug/L	01-NOV-09
Manganese	20	10000	ug/L	01-NOV-09
Nickel	20	10000	ug/L	01-NOV-09
Potassium	20	300000	ug/L	01-NOV-09
Selenium	20	10000	ug/L	01-NOV-09
Silver	20	1000	ug/L	01-NOV-09
Sodium	20	500000	ug/L	01-NOV-09
Thallium	20	10000	ug/L	01-NOV-09
Uranium	20	15000	ug/L	01-NOV-09
Vanadium	20	10000	ug/L	01-NOV-09
Zinc	20	15000	ug/L	01-NOV-09
Aluminum	20	500000	ug/L	01-NOV-09
Antimony	20	10000	ug/L	01-NOV-09
Arsenic	20	10000	ug/L	01-NOV-09
Barium	20	15000	ug/L	01-NOV-09
Beryllium	20	3000	ug/L	01-NOV-09

METALS
-12-
Linear Ranges

SDG NO. 10-1325-1

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS4

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Lead	1000	5000	ug/L	01-NOV-09
Magnesium	1	50000	ug/L	01-NOV-09
Manganese	1000	1000	ug/L	01-NOV-09
Nickel	1000	1000	ug/L	01-NOV-09
Potassium	1	50000	ug/L	01-NOV-09
Selenium	1000	500	ug/L	01-NOV-09
Silver	1000	250	ug/L	01-NOV-09
Sodium	1	50000	ug/L	01-NOV-09
Thallium	1000	500	ug/L	01-NOV-09
Uranium	1000	5000	ug/L	01-NOV-09
Vanadium	1000	100	ug/L	01-NOV-09
Zinc	1000	2500	ug/L	01-NOV-09
Iron	500	50000	ug/L	01-NOV-09
Aluminum	1	50000	ug/L	01-NOV-09
Antimony	1000	250	ug/L	01-NOV-09
Arsenic	1000	1000	ug/L	01-NOV-09
Barium	1000	1000	ug/L	01-NOV-09
Beryllium	1000	1000	ug/L	01-NOV-09
Cadmium	1000	1000	ug/L	01-NOV-09
Calcium	500	50000	ug/L	01-NOV-09
Chromium	1000	1000	ug/L	01-NOV-09
Cobalt	1000	1000	ug/L	01-NOV-09
Copper	1000	1000	ug/L	01-NOV-09

Raw Data

2/3/2010 09:18:04 Hg ReAlign... Actual peak offset (nm): -0.009
Drift (nm): 0.000 Slit adjustment: -2

Analysis Begun

Start Time: 2/3/2010 09:19:31 Plasma On Time: 2/1/2010 05:43:14
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\020310.sif
Batch ID:
Results Data Set: 020310
Results Library: C:\pe\Optima3\Results\Results.mdb

Method Loaded

Method Name: General Eng.2AX
IEC File: 011110.iec
Method Description:

Method Last Saved: 2/2/2010 10:13:57
MSF File:

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

Sequence No.: 1 Autosampler Location: 8
Sample ID: S0 Date Collected: 2/3/2010 09:19:32
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: S0

Net	Corrected	Calib.	Analysis
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Repl#	Analyte	Intensity	Intensity	Conc. Units	Time
1	Sc Radial	3976.5	3976.5	0.000 %	09:21:45
1	Y RADIAL	4603.7	4603.7	0.000 %	09:21:25
1	Al 396.153Radial†	-197.3	-196.5	[0.00] ug/L	09:21:25
1	Ca 317.933Radial†	14.5	14.4	[0.00] ug/L	09:21:45
1	Fe 238.204 Radial†	11.0	10.9	[0.00] ug/L	09:21:45
1	K 766.490 Radial†	3040.5	3027.9	[0.00] ug/L	09:21:25
1	Mg 279.077 IEC†	3.5	3.5	[0.00] ug/L	09:21:45
1	Na 589.592 Radial†	-1553.5	-1547.0	[0.00] ug/L	09:21:25
1	Sr 421.552†	-1.7	-1.7	[0.00] ug/L	09:21:25
1	Sc 361.383	863272.1	863272.1	0.0000 %	09:22:42
1	Y 371.029	679326.9	679326.9	0.0000 %	09:22:42
1	Ag 328.068†	420.6	421.3	[0.00] ug/L	09:22:42
1	As 188.979†	-38.7	-38.8	[0.00] ug/L	09:23:02
1	B 249.677†	-612.8	-613.9	[0.00] ug/L	09:23:02
1	Ba 233.527†	-11.2	-11.2	[0.00] ug/L	09:23:02
1	Be 313.107†	-3942.2	-3949.0	[0.00] ug/L	09:22:42
1	Cd 226.502†	-209.8	-210.1	[0.00] ug/L	09:23:02
1	Co 228.616†	-85.5	-85.7	[0.00] ug/L	09:23:02
1	Cr 267.716†	70.9	71.1	[0.00] ug/L	09:22:42
1	Cu 324.752†	6918.4	6930.3	[0.00] ug/L	09:22:42
1	Mn 257.610†	503.4	504.2	[0.00] ug/L	09:23:02
1	Mo 202.031†	1.5	1.5	[0.00] ug/L	09:23:02
1	Ni 231.604†	98.4	98.6	[0.00] ug/L	09:23:02
1	P 214.914†	230.7	231.1	[0.00] ug/L	09:23:02
1	Pb 220.353†	-65.0	-65.1	[0.00] ug/L	09:23:02
1	S 181.975 Axial†	52.7	52.8	[0.00] ug/L	09:23:02
1	Sb 206.836†	33.9	33.9	[0.00] ug/L	09:23:02
1	Se 196.026†	-33.0	-33.0	[0.00] ug/L	09:23:02
1	Si 251.611†	495.7	496.5	[0.00] ug/L	09:23:02
1	Sn 189.927†	16.8	16.8	[0.00] ug/L	09:23:02
1	Ti 334.940†	-1640.8	-1643.6	[0.00] ug/L	09:22:42
1	Tl 190.801†	-37.0	-37.0	[0.00] ug/L	09:23:02
1	U 409.014†	-4301.1	-4308.5	[0.00] ug/L	09:22:42
1	V 292.402†	-1717.8	-1720.8	[0.00] ug/L	09:22:42
1	Zn 213.857†	746.0	747.3	[0.00] ug/L	09:23:02
1	SiO2†	505.5	506.3	[0.00] ug/L	09:23:58
2	Sc Radial	3962.9	3962.9	0.000 %	09:22:10
2	Y RADIAL	4469.0	4469.0	0.000 %	09:21:50
2	Al 396.153Radial†	-195.9	-195.8	[0.00] ug/L	09:21:50
2	Ca 317.933Radial†	16.8	16.8	[0.00] ug/L	09:22:10
2	Fe 238.204 Radial†	14.2	14.2	[0.00] ug/L	09:22:10
2	K 766.490 Radial†	3012.9	3010.6	[0.00] ug/L	09:21:50
2	Mg 279.077 IEC†	1.8	1.8	[0.00] ug/L	09:22:10
2	Na 589.592 Radial†	-1683.4	-1682.2	[0.00] ug/L	09:21:50
2	Sr 421.552†	-0.7	-0.7	[0.00] ug/L	09:21:50
2	Sc 361.383	864968.3	864968.3	0.0000 %	09:23:07
2	Y 371.029	682935.6	682935.6	0.0000 %	09:23:07
2	Ag 328.068†	465.0	464.9	[0.00] ug/L	09:23:07
2	As 188.979†	-37.0	-37.0	[0.00] ug/L	09:23:28
2	B 249.677†	-587.5	-587.4	[0.00] ug/L	09:23:28
2	Ba 233.527†	-24.7	-24.7	[0.00] ug/L	09:23:28
2	Be 313.107†	-3933.8	-3932.9	[0.00] ug/L	09:23:07
2	Cd 226.502†	-178.3	-178.3	[0.00] ug/L	09:23:28
2	Co 228.616†	-91.4	-91.4	[0.00] ug/L	09:23:28
2	Cr 267.716†	66.0	66.0	[0.00] ug/L	09:23:07
2	Cu 324.752†	6794.0	6792.3	[0.00] ug/L	09:23:07
2	Mn 257.610†	493.4	493.3	[0.00] ug/L	09:23:28
2	Mo 202.031†	0.3	0.3	[0.00] ug/L	09:23:28
2	Ni 231.604†	76.2	76.2	[0.00] ug/L	09:23:28
2	P 214.914†	223.2	223.2	[0.00] ug/L	09:23:28
2	Pb 220.353†	-77.7	-77.7	[0.00] ug/L	09:23:28
2	S 181.975 Axial†	51.1	51.1	[0.00] ug/L	09:23:28
2	Sb 206.836†	39.2	39.2	[0.00] ug/L	09:23:28
2	Se 196.026†	-25.3	-25.2	[0.00] ug/L	09:23:28
2	Si 251.611†	483.0	482.8	[0.00] ug/L	09:23:28
2	Sn 189.927†	17.1	17.1	[0.00] ug/L	09:23:28
2	Ti 334.940†	-1676.1	-1675.7	[0.00] ug/L	09:23:07
2	Tl 190.801†	-50.1	-50.1	[0.00] ug/L	09:23:28
2	U 409.014†	-4297.7	-4296.6	[0.00] ug/L	09:23:07
2	V 292.402†	-1743.9	-1743.5	[0.00] ug/L	09:23:07

2	Zn 213.857†	748.0	747.8	[0.00]	ug/L	09:23:28
2	SiO2†	553.3	553.2	[0.00]	ug/L	09:24:03
3	Sc Radial	3940.5	3940.5	0.000	%	09:22:35
3	Y RADIAL	4542.6	4542.6	0.000	%	09:22:15
3	Al 396.153Radial†	-194.2	-195.2	[0.00]	ug/L	09:22:15
3	Ca 317.933Radial†	17.6	17.7	[0.00]	ug/L	09:22:35
3	Fe 238.204 Radial†	10.3	10.3	[0.00]	ug/L	09:22:35
3	K 766.490 Radial†	3038.6	3053.6	[0.00]	ug/L	09:22:15
3	Mg 279.077 IEC†	4.6	4.6	[0.00]	ug/L	09:22:35
3	Na 589.592 Radial†	-1518.7	-1526.2	[0.00]	ug/L	09:22:15
3	Sr 421.552†	3.7	3.7	[0.00]	ug/L	09:22:15
3	Sc 361.383	866043.5	866043.5	0.0000	%	09:23:33
3	Y 371.029	684013.2	684013.2	0.0000	%	09:23:33
3	Ag 328.068†	419.8	419.2	[0.00]	ug/L	09:23:33
3	As 188.979†	-30.6	-30.6	[0.00]	ug/L	09:23:53
3	B 249.677†	-620.1	-619.1	[0.00]	ug/L	09:23:53
3	Ba 233.527†	-18.2	-18.2	[0.00]	ug/L	09:23:53
3	Be 313.107†	-3956.2	-3950.3	[0.00]	ug/L	09:23:33
3	Cd 226.502†	-210.8	-210.5	[0.00]	ug/L	09:23:53
3	Co 228.616†	-82.2	-82.1	[0.00]	ug/L	09:23:53
3	Cr 267.716†	130.3	130.1	[0.00]	ug/L	09:23:33
3	Cu 324.752†	6832.3	6822.2	[0.00]	ug/L	09:23:33
3	Mn 257.610†	480.5	479.8	[0.00]	ug/L	09:23:53
3	Mo 202.031†	6.7	6.7	[0.00]	ug/L	09:23:53
3	Ni 231.604†	74.9	74.8	[0.00]	ug/L	09:23:53
3	P 214.914†	249.4	249.1	[0.00]	ug/L	09:23:53
3	Pb 220.353†	-70.9	-70.8	[0.00]	ug/L	09:23:53
3	S 181.975 Axial†	52.0	51.9	[0.00]	ug/L	09:23:53
3	Sb 206.836†	33.6	33.5	[0.00]	ug/L	09:23:53
3	Se 196.026†	-30.3	-30.3	[0.00]	ug/L	09:23:53
3	Si 251.611†	490.0	489.3	[0.00]	ug/L	09:23:53
3	Sn 189.927†	19.1	19.1	[0.00]	ug/L	09:23:53
3	Ti 334.940†	-1767.1	-1764.5	[0.00]	ug/L	09:23:33
3	Tl 190.801†	-42.6	-42.5	[0.00]	ug/L	09:23:53
3	U 409.014†	-4375.6	-4369.2	[0.00]	ug/L	09:23:33
3	V 292.402†	-1661.7	-1659.2	[0.00]	ug/L	09:23:33
3	Zn 213.857†	741.2	740.1	[0.00]	ug/L	09:23:53
3	SiO2†	538.6	537.8	[0.00]	ug/L	09:24:08

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sc 361.383	864761.3	1397.26	0.16%	0.0000	%
Sc Radial	3960.0	18.16	0.46%	0.000	%
Y 371.029	682091.9	2454.41	0.36%	0.0000	%
Y RADIAL	4538.4	67.41	1.49%	0.000	%
Ag 328.068†	435.1	25.78	5.92%	[0.00]	ug/L
Al 396.153Radial†	-195.8	0.64	0.32%	[0.00]	ug/L
As 188.979†	-35.5	4.29	12.11%	[0.00]	ug/L
B 249.677†	-606.8	17.03	2.81%	[0.00]	ug/L
Ba 233.527†	-18.0	6.75	37.45%	[0.00]	ug/L
Be 313.107†	-3944.1	9.72	0.25%	[0.00]	ug/L
Ca 317.933Radial†	16.3	1.68	10.34%	[0.00]	ug/L
Cd 226.502†	-199.6	18.51	9.27%	[0.00]	ug/L
Co 228.616†	-86.4	4.68	5.41%	[0.00]	ug/L
Cr 267.716†	89.0	35.64	40.02%	[0.00]	ug/L
Cu 324.752†	6848.3	72.58	1.06%	[0.00]	ug/L
Fe 238.204 Radial†	11.8	2.06	17.43%	[0.00]	ug/L
K 766.490 Radial†	3030.7	21.61	0.71%	[0.00]	ug/L
Mg 279.077 IEC†	3.3	1.41	42.90%	[0.00]	ug/L
Mn 257.610†	492.4	12.23	2.48%	[0.00]	ug/L
Mo 202.031†	2.8	3.43	121.56%	[0.00]	ug/L
Na 589.592 Radial†	-1585.1	84.67	5.34%	[0.00]	ug/L
Ni 231.604†	83.2	13.35	16.04%	[0.00]	ug/L
P 214.914†	234.5	13.26	5.66%	[0.00]	ug/L
Pb 220.353†	-71.2	6.32	8.88%	[0.00]	ug/L
S 181.975 Axial†	51.9	0.88	1.70%	[0.00]	ug/L
Sb 206.836†	35.5	3.14	8.83%	[0.00]	ug/L
Se 196.026†	-29.5	3.94	13.35%	[0.00]	ug/L
Si 251.611†	489.5	6.84	1.40%	[0.00]	ug/L

Sn 189.927†	17.6	1.25	7.09%	[0.00]	ug/L
Sr 421.552†	0.4	2.88	656.39%	[0.00]	ug/L
Ti 334.940†	-1694.6	62.63	3.70%	[0.00]	ug/L
Tl 190.801†	-43.2	6.58	15.22%	[0.00]	ug/L
U 409.014†	-4324.8	38.90	0.90%	[0.00]	ug/L
V 292.402†	-1707.8	43.60	2.55%	[0.00]	ug/L
Zn 213.857†	745.1	4.28	0.57%	[0.00]	ug/L
SiO2†	532.4	23.86	4.48%	[0.00]	ug/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 2/3/2010 09:26:19

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	4039.9	4039.9	102 %	09:28:32
1	Y RADIAL	4455.6	4455.6	98.17 %	09:28:32
1	K 766.490 Radial†	8786.2	5581.7	[1000] ug/L	09:28:12
1	Sr 421.552†	14782.4	14489.7	[100] ug/L	09:28:32
1	Sc 361.383	856692.1	856692.1	99.067 %	09:29:29
1	Y 371.029	674426.9	674426.9	98.876 %	09:29:29
1	Ag 328.068†	21866.3	21637.2	[100] ug/L	09:29:29
1	As 188.979†	234.9	272.5	[100] ug/L	09:29:49
1	B 249.677†	3793.4	4435.9	[100] ug/L	09:29:29
1	Ba 233.527†	13069.7	13210.8	[100] ug/L	09:29:29
1	Be 313.107†	279434.2	286010.3	[100] ug/L	09:29:29
1	Cd 226.502†	9014.1	9298.6	[100] ug/L	09:29:49
1	Co 228.616†	5210.4	5345.9	[100] ug/L	09:29:49
1	Cr 267.716†	9271.6	9269.8	[100] ug/L	09:29:29
1	Cu 324.752†	40667.5	34202.3	[100] ug/L	09:29:29
1	Mn 257.610†	97474.0	97899.7	[100] ug/L	09:29:29
1	Mo 202.031†	1458.3	1469.2	[100] ug/L	09:29:49
1	Ni 231.604†	4401.9	4360.2	[100] ug/L	09:29:49
1	P 214.914†	1182.0	958.7	[500] ug/L	09:29:49
1	Pb 220.353†	839.9	919.0	[100] ug/L	09:29:49
1	S 181.975 Axial†	207.9	157.9	[200] ug/L	09:29:49
1	Sb 206.836†	357.9	325.7	[100] ug/L	09:29:49
1	Se 196.026†	142.5	173.4	[100] ug/L	09:29:49
1	Si 251.611†	16687.9	16355.6	[500] ug/L	09:29:29
1	Sn 189.927†	610.5	598.6	[100] ug/L	09:29:49
1	Ti 334.940†	62805.8	65092.0	[100] ug/L	09:29:29
1	Tl 190.801†	291.5	337.4	[100] ug/L	09:29:49
1	U 409.014†	-1347.7	2964.3	[100] ug/L	09:29:29
1	V 292.402†	12146.5	13968.7	[100] ug/L	09:29:29
1	Zn 213.857†	11912.0	11279.2	[100] ug/L	09:29:49
1	SiO2†	16942.4	16569.6	[1069.5] ug/L	09:30:45
2	Sc Radial	4070.6	4070.6	103 %	09:28:57
2	Y RADIAL	4482.4	4482.4	98.77 %	09:28:57
2	K 766.490 Radial†	8654.2	5388.4	[1000] ug/L	09:28:37
2	Sr 421.552†	14957.5	14550.7	[100] ug/L	09:28:57
2	Sc 361.383	853707.7	853707.7	98.722 %	09:29:54
2	Y 371.029	672314.4	672314.4	98.567 %	09:29:54
2	Ag 328.068†	21729.9	21576.1	[100] ug/L	09:29:54
2	As 188.979†	218.4	256.6	[100] ug/L	09:30:14
2	B 249.677†	3777.8	4433.5	[100] ug/L	09:29:54
2	Ba 233.527†	13002.0	13188.4	[100] ug/L	09:29:54
2	Be 313.107†	278896.9	286452.0	[100] ug/L	09:29:54
2	Cd 226.502†	9034.2	9350.8	[100] ug/L	09:30:14
2	Co 228.616†	5200.2	5353.9	[100] ug/L	09:30:14
2	Cr 267.716†	9221.4	9251.7	[100] ug/L	09:29:54
2	Cu 324.752†	40535.4	34211.9	[100] ug/L	09:29:54
2	Mn 257.610†	96966.2	97729.3	[100] ug/L	09:29:54
2	Mo 202.031†	1449.2	1465.2	[100] ug/L	09:30:14
2	Ni 231.604†	4388.2	4361.8	[100] ug/L	09:30:14
2	P 214.914†	1178.7	959.5	[500] ug/L	09:30:14
2	Pb 220.353†	832.1	914.0	[100] ug/L	09:30:14
2	S 181.975 Axial†	209.4	160.2	[200] ug/L	09:30:14
2	Sb 206.836†	348.8	317.7	[100] ug/L	09:30:14
2	Se 196.026†	147.8	179.2	[100] ug/L	09:30:14
2	Si 251.611†	16701.7	16428.4	[500] ug/L	09:29:54
2	Sn 189.927†	612.0	602.3	[100] ug/L	09:30:14
2	Ti 334.940†	62502.7	65006.5	[100] ug/L	09:29:54
2	Tl 190.801†	307.4	354.6	[100] ug/L	09:30:14
2	U 409.014†	-1120.6	3189.7	[100] ug/L	09:29:54

2	V 292.402†	12177.8	14043.3	[100]	ug/L	09:29:54
2	Zn 213.857†	11901.4	11310.4	[100]	ug/L	09:30:14
2	SiO2†	17000.0	16687.7	[1069.5]	ug/L	09:30:50
3	Sc Radial	4079.2	4079.2	103	%	09:29:22
3	Y RADIAL	4489.0	4489.0	98.91	%	09:29:22
3	K 766.490 Radial†	8982.8	5689.6	[1000]	ug/L	09:29:02
3	Sr 421.552†	14968.4	14530.6	[100]	ug/L	09:29:22
3	Sc 361.383	860452.6	860452.6	99.502	%	09:30:20
3	Y 371.029	678086.6	678086.6	99.413	%	09:30:20
3	Ag 328.068†	21994.8	21669.8	[100]	ug/L	09:30:20
3	As 188.979†	222.6	259.2	[100]	ug/L	09:30:40
3	B 249.677†	3785.3	4411.1	[100]	ug/L	09:30:20
3	Ba 233.527†	13197.1	13281.3	[100]	ug/L	09:30:20
3	Be 313.107†	282052.5	287409.0	[100]	ug/L	09:30:20
3	Cd 226.502†	9080.9	9326.0	[100]	ug/L	09:30:40
3	Co 228.616†	5212.4	5324.9	[100]	ug/L	09:30:40
3	Cr 267.716†	9279.0	9236.4	[100]	ug/L	09:30:20
3	Cu 324.752†	40817.7	34173.8	[100]	ug/L	09:30:20
3	Mn 257.610†	97878.5	97876.2	[100]	ug/L	09:30:20
3	Mo 202.031†	1450.8	1455.2	[100]	ug/L	09:30:40
3	Ni 231.604†	4407.2	4346.0	[100]	ug/L	09:30:40
3	P 214.914†	1194.0	965.5	[500]	ug/L	09:30:40
3	Pb 220.353†	805.0	880.2	[100]	ug/L	09:30:40
3	S 181.975 Axial†	217.8	167.0	[200]	ug/L	09:30:40
3	Sb 206.836†	364.0	330.3	[100]	ug/L	09:30:40
3	Se 196.026†	147.7	178.0	[100]	ug/L	09:30:40
3	Si 251.611†	16784.8	16379.3	[500]	ug/L	09:30:20
3	Sn 189.927†	620.3	605.8	[100]	ug/L	09:30:40
3	Ti 334.940†	63111.2	65121.8	[100]	ug/L	09:30:20
3	Tl 190.801†	305.8	350.5	[100]	ug/L	09:30:40
3	U 409.014†	-1155.6	3163.4	[100]	ug/L	09:30:20
3	V 292.402†	12332.0	14101.6	[100]	ug/L	09:30:20
3	Zn 213.857†	11942.2	11256.9	[100]	ug/L	09:30:40
3	SiO2†	16700.0	16251.2	[1069.5]	ug/L	09:30:55

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	856950.8	3379.89	0.39%	99.097	%
Sc Radial	4063.2	20.67	0.51%	103	%
Y 371.029	674942.6	2920.46	0.43%	98.952	%
Y RADIAL	4475.7	17.71	0.40%	98.62	%
Ag 328.068†	21627.7	47.58	0.22%	[100]	ug/L
As 188.979†	262.8	8.53	3.25%	[100]	ug/L
B 249.677†	4426.8	13.72	0.31%	[100]	ug/L
Ba 233.527†	13226.8	48.46	0.37%	[100]	ug/L
Be 313.107†	286623.8	714.98	0.25%	[100]	ug/L
Cd 226.502†	9325.1	26.09	0.28%	[100]	ug/L
Co 228.616†	5341.6	14.98	0.28%	[100]	ug/L
Cr 267.716†	9252.7	16.73	0.18%	[100]	ug/L
Cu 324.752†	34196.0	19.84	0.06%	[100]	ug/L
K 766.490 Radial†	5553.2	152.64	2.75%	[1000]	ug/L
Mn 257.610†	97835.1	92.36	0.09%	[100]	ug/L
Mo 202.031†	1463.2	7.19	0.49%	[100]	ug/L
Ni 231.604†	4356.0	8.67	0.20%	[100]	ug/L
P 214.914†	961.2	3.71	0.39%	[500]	ug/L
Pb 220.353†	904.4	21.13	2.34%	[100]	ug/L
S 181.975 Axial†	161.7	4.73	2.92%	[200]	ug/L
Sb 206.836†	324.6	6.34	1.95%	[100]	ug/L
Se 196.026†	176.8	3.07	1.74%	[100]	ug/L
Si 251.611†	16387.7	37.13	0.23%	[500]	ug/L
Sn 189.927†	602.2	3.59	0.60%	[100]	ug/L
Sr 421.552†	14523.7	31.08	0.21%	[100]	ug/L
Ti 334.940†	65073.4	59.84	0.09%	[100]	ug/L
Tl 190.801†	347.5	8.97	2.58%	[100]	ug/L
U 409.014†	3105.8	123.21	3.97%	[100]	ug/L
V 292.402†	14037.9	66.58	0.47%	[100]	ug/L
Zn 213.857†	11282.2	26.88	0.24%	[100]	ug/L
SiO2†	16502.8	225.79	1.37%	[1069.5]	ug/L

Sequence No.: 3

Sample ID: S0.5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 2/3/2010 09:33:06

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	3903.2	3903.2	98.6 %	09:35:19
1	Y RADIAL	4509.8	4509.8	99.37 %	09:34:59
1	Al 396.153Radial†	5657.4	5935.6	[5000] ug/L	09:34:59
1	Ca 317.933Radial†	2567.3	2588.4	[5000] ug/L	09:35:19
1	K 766.490 Radial†	31694.7	29125.3	[5000] ug/L	09:34:59
1	Mg 279.077 IEC†	122.7	121.2	[5000] ug/L	09:35:19
1	Sr 421.552†	74572.2	75657.3	[500] ug/L	09:34:59
1	Sc 361.383	867484.8	867484.8	100.31 %	09:36:18
1	Y 371.029	673017.9	673017.9	98.670 %	09:36:18
1	Ag 328.068†	107636.9	106863.8	[500] ug/L	09:36:18
1	As 188.979†	1236.6	1268.2	[500] ug/L	09:36:38
1	B 249.677†	22035.5	22573.1	[500] ug/L	09:36:18
1	Ba 233.527†	64394.7	64210.6	[500] ug/L	09:36:18
1	Be 313.107†	1420758.4	1420241.9	[500] ug/L	09:36:18
1	Cd 226.502†	46302.6	46356.8	[500] ug/L	09:36:18
1	Co 228.616†	25732.4	25738.0	[500] ug/L	09:36:38
1	Cr 267.716†	45529.5	45297.5	[500] ug/L	09:36:18
1	Cu 324.752†	176306.4	168904.6	[500] ug/L	09:36:18
1	Mn 257.610†	476034.9	474047.9	[500] ug/L	09:36:18
1	Mo 202.031†	7152.2	7127.0	[500] ug/L	09:36:38
1	Ni 231.604†	21257.9	21108.0	[500] ug/L	09:36:38
1	P 214.914†	4969.7	4719.6	[2500] ug/L	09:36:38
1	Pb 220.353†	4374.4	4431.8	[500] ug/L	09:36:38
1	S 181.975 Axial†	855.7	801.1	[1000] ug/L	09:36:38
1	Sb 206.836†	1593.4	1552.9	[500] ug/L	09:36:38
1	Se 196.026†	871.1	897.8	[500] ug/L	09:36:38
1	Si 251.611†	82838.7	82089.1	[2500] ug/L	09:36:18
1	Sn 189.927†	2995.9	2968.8	[500] ug/L	09:36:38
1	Ti 334.940†	321176.0	321862.2	[500] ug/L	09:36:18
1	Tl 190.801†	1656.8	1694.8	[500] ug/L	09:36:38
1	U 409.014†	10047.1	14340.3	[500] ug/L	09:36:18
1	V 292.402†	67895.9	69390.5	[500] ug/L	09:36:18
1	Zn 213.857†	57637.0	56711.0	[500] ug/L	09:36:18
1	SiO2†	82349.6	81558.6	[5347.5] ug/L	09:37:38
2	Sc Radial	3915.5	3915.5	98.9 %	09:35:44
2	Y RADIAL	4405.6	4405.6	97.07 %	09:35:24
2	Al 396.153Radial†	5536.9	5795.6	[5000] ug/L	09:35:24
2	Ca 317.933Radial†	2579.4	2592.4	[5000] ug/L	09:35:44
2	K 766.490 Radial†	31032.4	28354.4	[5000] ug/L	09:35:24
2	Mg 279.077 IEC†	122.7	120.8	[5000] ug/L	09:35:44
2	Sr 421.552†	72752.8	73579.4	[500] ug/L	09:35:24
2	Sc 361.383	867077.4	867077.4	100.27 %	09:36:45
2	Y 371.029	673163.8	673163.8	98.691 %	09:36:45
2	Ag 328.068†	107255.2	106533.6	[500] ug/L	09:36:45
2	As 188.979†	1236.9	1269.0	[500] ug/L	09:37:05
2	B 249.677†	21898.7	22447.0	[500] ug/L	09:36:45
2	Ba 233.527†	64617.8	64463.3	[500] ug/L	09:36:45
2	Be 313.107†	1419150.0	1419303.2	[500] ug/L	09:36:45
2	Cd 226.502†	46275.3	46351.3	[500] ug/L	09:36:45
2	Co 228.616†	25751.6	25769.2	[500] ug/L	09:37:05
2	Cr 267.716†	45439.5	45229.0	[500] ug/L	09:36:45
2	Cu 324.752†	175632.7	168315.2	[500] ug/L	09:36:45
2	Mn 257.610†	475887.2	474123.5	[500] ug/L	09:36:45
2	Mo 202.031†	7184.2	7162.2	[500] ug/L	09:37:05
2	Ni 231.604†	21266.2	21126.2	[500] ug/L	09:37:05
2	P 214.914†	4984.6	4736.8	[2500] ug/L	09:37:05
2	Pb 220.353†	4363.8	4423.3	[500] ug/L	09:37:05
2	S 181.975 Axial†	848.2	794.0	[1000] ug/L	09:37:05
2	Sb 206.836†	1588.9	1549.1	[500] ug/L	09:37:05

2	Se 196.026†	858.5	885.7	[500]	ug/L	09:37:05
2	Si 251.611†	82700.2	81989.7	[2500]	ug/L	09:36:45
2	Sn 189.927†	2994.2	2968.5	[500]	ug/L	09:37:05
2	Ti 334.940†	321137.6	321974.3	[500]	ug/L	09:36:45
2	Tl 190.801†	1648.7	1687.5	[500]	ug/L	09:37:05
2	U 409.014†	10151.3	14449.0	[500]	ug/L	09:36:45
2	V 292.402†	67840.1	69366.7	[500]	ug/L	09:36:45
2	Zn 213.857†	57489.2	56590.5	[500]	ug/L	09:36:45
2	SiO2†	82561.2	81808.2	[5347.5]	ug/L	09:37:43
3	Sc Radial	3920.1	3920.1	99.0	%	09:36:09
3	Y RADIAL	4452.8	4452.8	98.11	%	09:35:49
3	Al 396.153Radial†	5615.7	5868.7	[5000]	ug/L	09:35:49
3	Ca 317.933Radial†	2568.1	2578.0	[5000]	ug/L	09:36:09
3	K 766.490 Radial†	31460.5	28750.3	[5000]	ug/L	09:35:49
3	Mg 279.077 IEC†	117.1	115.0	[5000]	ug/L	09:36:09
3	Sr 421.552†	73552.4	74301.1	[500]	ug/L	09:35:49
3	Sc 361.383	869022.2	869022.2	100.49	%	09:37:12
3	Y 371.029	675326.1	675326.1	99.008	%	09:37:12
3	Ag 328.068†	107373.4	106411.8	[500]	ug/L	09:37:12
3	As 188.979†	1224.6	1254.0	[500]	ug/L	09:37:33
3	B 249.677†	21978.0	22477.0	[500]	ug/L	09:37:12
3	Ba 233.527†	64486.7	64188.5	[500]	ug/L	09:37:12
3	Be 313.107†	1423756.6	1420719.9	[500]	ug/L	09:37:12
3	Cd 226.502†	46376.9	46349.1	[500]	ug/L	09:37:12
3	Co 228.616†	25609.9	25570.7	[500]	ug/L	09:37:33
3	Cr 267.716†	45538.3	45226.0	[500]	ug/L	09:37:12
3	Cu 324.752†	175784.4	168074.3	[500]	ug/L	09:37:12
3	Mn 257.610†	475646.3	472821.7	[500]	ug/L	09:37:12
3	Mo 202.031†	7119.9	7082.2	[500]	ug/L	09:37:33
3	Ni 231.604†	21164.3	20977.3	[500]	ug/L	09:37:33
3	P 214.914†	4942.1	4683.4	[2500]	ug/L	09:37:33
3	Pb 220.353†	4365.2	4415.0	[500]	ug/L	09:37:33
3	S 181.975 Axial†	854.2	798.1	[1000]	ug/L	09:37:33
3	Sb 206.836†	1594.8	1551.4	[500]	ug/L	09:37:33
3	Se 196.026†	861.6	886.9	[500]	ug/L	09:37:33
3	Si 251.611†	82666.6	81771.7	[2500]	ug/L	09:37:12
3	Sn 189.927†	2976.5	2944.2	[500]	ug/L	09:37:33
3	Ti 334.940†	320603.1	320725.8	[500]	ug/L	09:37:12
3	Tl 190.801†	1652.5	1687.6	[500]	ug/L	09:37:33
3	U 409.014†	10136.1	14411.2	[500]	ug/L	09:37:12
3	V 292.402†	67832.2	69207.4	[500]	ug/L	09:37:12
3	Zn 213.857†	57505.8	56478.8	[500]	ug/L	09:37:12
3	SiO2†	82239.9	81304.2	[5347.5]	ug/L	09:37:48

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	867861.5	1025.62	0.12%	100.36	%
Sc Radial	3912.9	8.74	0.22%	98.8	%
Y 371.029	673835.9	1292.59	0.19%	98.790	%
Y RADIAL	4456.1	52.17	1.17%	98.19	%
Ag 328.068†	106603.0	233.88	0.22%	[500]	ug/L
Al 396.153Radial†	5866.7	70.01	1.19%	[5000]	ug/L
As 188.979†	1263.8	8.42	0.67%	[500]	ug/L
B 249.677†	22499.0	65.90	0.29%	[500]	ug/L
Ba 233.527†	64287.5	152.65	0.24%	[500]	ug/L
Be 313.107†	1420088.3	720.69	0.05%	[500]	ug/L
Ca 317.933Radial†	2586.3	7.46	0.29%	[5000]	ug/L
Cd 226.502†	46352.4	3.97	0.01%	[500]	ug/L
Co 228.616†	25692.6	106.72	0.42%	[500]	ug/L
Cr 267.716†	45250.8	40.44	0.09%	[500]	ug/L
Cu 324.752†	168431.4	427.17	0.25%	[500]	ug/L
K 766.490 Radial†	28743.3	385.49	1.34%	[5000]	ug/L
Mg 279.077 IEC†	119.0	3.51	2.95%	[5000]	ug/L
Mn 257.610†	473664.4	730.76	0.15%	[500]	ug/L
Mo 202.031†	7123.8	40.12	0.56%	[500]	ug/L
Ni 231.604†	21070.5	81.22	0.39%	[500]	ug/L
P 214.914†	4713.3	27.27	0.58%	[2500]	ug/L
Pb 220.353†	4423.4	8.44	0.19%	[500]	ug/L
S 181.975 Axial†	797.7	3.59	0.45%	[1000]	ug/L

Sb 206.836†	1551.1	1.90	0.12%	[500]	ug/L
Se 196.026†	890.1	6.69	0.75%	[500]	ug/L
Si 251.611†	81950.2	162.36	0.20%	[2500]	ug/L
Sn 189.927†	2960.5	14.11	0.48%	[500]	ug/L
Sr 421.552†	74512.6	1054.96	1.42%	[500]	ug/L
Ti 334.940†	321520.8	690.75	0.21%	[500]	ug/L
Tl 190.801†	1690.0	4.18	0.25%	[500]	ug/L
U 409.014†	14400.2	55.16	0.38%	[500]	ug/L
V 292.402†	69321.6	99.56	0.14%	[500]	ug/L
Zn 213.857†	56593.4	116.12	0.21%	[500]	ug/L
SiO2†	81557.0	251.98	0.31%	[5347.5]	ug/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 2/3/2010 09:39:59

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	3908.5	3908.5	98.7 %	09:42:12
1	Y RADIAL	4342.7	4342.7	95.69 %	09:41:52
1	Al 396.153Radial†	11235.7	11579.6	[10000] ug/L	09:41:52
1	Ca 317.933Radial†	5207.6	5260.0	[10000] ug/L	09:41:52
1	Fe 238.204 Radial†	858.1	857.6	[10000] ug/L	09:42:12
1	K 766.490 Radial†	59387.7	57139.9	[10000] ug/L	09:41:52
1	Mg 279.077 IEC†	238.2	238.0	[10000] ug/L	09:42:12
1	Na 589.592 Radial†	32818.7	34836.5	[10000] ug/L	09:41:52
1	Sr 421.552†	145679.7	147599.7	[1000] ug/L	09:41:52
1	Sc 361.383	830279.5	830279.5	96.013 %	09:43:15
1	Y 371.029	650946.5	650946.5	95.434 %	09:43:15
1	Ag 328.068†	213849.7	222295.8	[1000] ug/L	09:43:15
1	As 188.979†	2520.7	2660.9	[1000] ug/L	09:43:35
1	B 249.677†	45031.7	47508.7	[1000] ug/L	09:43:15
1	Ba 233.527†	128441.2	133793.4	[1000] ug/L	09:43:15
1	Be 313.107†	2823002.0	2944186.4	[1000] ug/L	09:43:10
1	Cd 226.502†	92562.5	96606.3	[1000] ug/L	09:43:15
1	Co 228.616†	52145.8	54397.9	[1000] ug/L	09:43:15
1	Cr 267.716†	90807.7	94490.0	[1000] ug/L	09:43:15
1	Cu 324.752†	344357.5	351810.5	[1000] ug/L	09:43:15
1	Mn 257.610†	943402.0	982089.4	[1000] ug/L	09:43:10
1	Mo 202.031†	14216.0	14803.5	[1000] ug/L	09:43:35
1	Ni 231.604†	42820.3	44515.4	[1000] ug/L	09:43:15
1	P 214.914†	9778.7	9950.3	[5000] ug/L	09:43:35
1	Pb 220.353†	8804.1	9240.9	[1000] ug/L	09:43:35
1	S 181.975 Axial†	1650.1	1666.7	[2000] ug/L	09:43:35
1	Sb 206.836†	3193.6	3290.6	[1000] ug/L	09:43:35
1	Se 196.026†	1766.9	1869.8	[1000] ug/L	09:43:35
1	Si 251.611†	163058.9	169341.2	[5000] ug/L	09:43:15
1	Sn 189.927†	6004.0	6235.7	[1000] ug/L	09:43:35
1	Ti 334.940†	626074.2	653769.9	[1000] ug/L	09:43:15
1	Tl 190.801†	3353.7	3536.2	[1000] ug/L	09:43:35
1	U 409.014†	25945.2	31347.4	[1000] ug/L	09:43:15
1	V 292.402†	137958.3	145395.6	[1000] ug/L	09:43:15
1	Zn 213.857†	113952.1	117939.5	[1000] ug/L	09:43:15
1	SiO2†	163273.3	169521.7	[10695] ug/L	09:44:44
2	Sc Radial	3901.9	3901.9	98.5 %	09:42:37
2	Y RADIAL	4421.2	4421.2	97.42 %	09:42:17
2	Al 396.153Radial†	11297.1	11661.2	[10000] ug/L	09:42:17
2	Ca 317.933Radial†	5234.0	5295.8	[10000] ug/L	09:42:17
2	Fe 238.204 Radial†	858.7	859.7	[10000] ug/L	09:42:37
2	K 766.490 Radial†	59811.4	57671.9	[10000] ug/L	09:42:17
2	Mg 279.077 IEC†	236.5	236.8	[10000] ug/L	09:42:37
2	Na 589.592 Radial†	33010.2	35087.2	[10000] ug/L	09:42:17
2	Sr 421.552†	146371.5	148551.9	[1000] ug/L	09:42:17
2	Sc 361.383	834448.1	834448.1	96.495 %	09:43:47
2	Y 371.029	655857.4	655857.4	96.154 %	09:43:47
2	Ag 328.068†	214788.4	222155.9	[1000] ug/L	09:43:47
2	As 188.979†	2501.4	2627.7	[1000] ug/L	09:44:07
2	B 249.677†	45317.1	47570.2	[1000] ug/L	09:43:47
2	Ba 233.527†	128888.1	133588.2	[1000] ug/L	09:43:47
2	Be 313.107†	2842938.8	2950158.8	[1000] ug/L	09:43:41
2	Cd 226.502†	92992.8	96570.6	[1000] ug/L	09:43:47
2	Co 228.616†	52260.4	54245.3	[1000] ug/L	09:43:47
2	Cr 267.716†	91199.0	94423.0	[1000] ug/L	09:43:47
2	Cu 324.752†	345234.3	350927.4	[1000] ug/L	09:43:47
2	Mn 257.610†	947498.1	981425.6	[1000] ug/L	09:43:41
2	Mo 202.031†	14229.4	14743.5	[1000] ug/L	09:44:07
2	Ni 231.604†	42944.9	44421.7	[1000] ug/L	09:43:47

2	P 214.914†	9767.3	9887.6	[5000]	ug/L	09:44:07
2	Pb 220.353†	8779.3	9169.4	[1000]	ug/L	09:44:07
2	S 181.975 Axial†	1659.8	1668.2	[2000]	ug/L	09:44:07
2	Sb 206.836†	3185.2	3265.3	[1000]	ug/L	09:44:07
2	Se 196.026†	1751.5	1844.6	[1000]	ug/L	09:44:07
2	Si 251.611†	163238.2	168678.6	[5000]	ug/L	09:43:47
2	Sn 189.927†	5974.1	6173.4	[1000]	ug/L	09:44:07
2	Ti 334.940†	628409.6	652932.5	[1000]	ug/L	09:43:47
2	Tl 190.801†	3350.5	3515.4	[1000]	ug/L	09:44:07
2	U 409.014†	26097.6	31370.4	[1000]	ug/L	09:43:47
2	V 292.402†	138653.2	145397.9	[1000]	ug/L	09:43:47
2	Zn 213.857†	114270.3	117676.3	[1000]	ug/L	09:43:47
2	SiO2†	163893.4	169314.8	[10695]	ug/L	09:44:49
3	Sc Radial	3922.2	3922.2	99.0	%	09:43:02
3	Y RADIAL	4388.5	4388.5	96.70	%	09:42:42
3	Al 396.153Radial†	11308.0	11612.9	[10000]	ug/L	09:42:42
3	Ca 317.933Radial†	5208.8	5242.8	[10000]	ug/L	09:42:42
3	Fe 238.204 Radial†	861.7	858.2	[10000]	ug/L	09:43:02
3	K 766.490 Radial†	59672.5	57217.5	[10000]	ug/L	09:42:42
3	Mg 279.077 IEC†	240.0	239.0	[10000]	ug/L	09:43:02
3	Na 589.592 Radial†	32906.3	34808.9	[10000]	ug/L	09:42:42
3	Sr 421.552†	145860.2	147266.8	[1000]	ug/L	09:42:42
3	Sc 361.383	833919.0	833919.0	96.433	%	09:44:18
3	Y 371.029	655331.5	655331.5	96.077	%	09:44:18
3	Ag 328.068†	214454.7	221951.1	[1000]	ug/L	09:44:18
3	As 188.979†	2519.4	2648.0	[1000]	ug/L	09:44:38
3	B 249.677†	45460.0	47748.1	[1000]	ug/L	09:44:18
3	Ba 233.527†	129116.1	133909.4	[1000]	ug/L	09:44:18
3	Be 313.107†	2865737.4	2975670.0	[1000]	ug/L	09:44:13
3	Cd 226.502†	93211.4	96858.4	[1000]	ug/L	09:44:18
3	Co 228.616†	52497.3	54525.3	[1000]	ug/L	09:44:18
3	Cr 267.716†	91454.2	94747.5	[1000]	ug/L	09:44:18
3	Cu 324.752†	345382.5	351308.1	[1000]	ug/L	09:44:18
3	Mn 257.610†	954054.1	988847.1	[1000]	ug/L	09:44:13
3	Mo 202.031†	14283.5	14808.9	[1000]	ug/L	09:44:38
3	Ni 231.604†	43005.8	44513.2	[1000]	ug/L	09:44:18
3	P 214.914†	9851.2	9981.1	[5000]	ug/L	09:44:38
3	Pb 220.353†	8837.6	9235.6	[1000]	ug/L	09:44:38
3	S 181.975 Axial†	1658.2	1667.6	[2000]	ug/L	09:44:38
3	Sb 206.836†	3214.7	3298.1	[1000]	ug/L	09:44:38
3	Se 196.026†	1778.5	1873.7	[1000]	ug/L	09:44:38
3	Si 251.611†	163793.6	169361.9	[5000]	ug/L	09:44:18
3	Sn 189.927†	6044.1	6250.0	[1000]	ug/L	09:44:38
3	Ti 334.940†	628527.0	653467.5	[1000]	ug/L	09:44:18
3	Tl 190.801†	3368.7	3536.5	[1000]	ug/L	09:44:38
3	U 409.014†	25940.9	31225.1	[1000]	ug/L	09:44:18
3	V 292.402†	138714.5	145552.6	[1000]	ug/L	09:44:18
3	Zn 213.857†	114515.3	118005.5	[1000]	ug/L	09:44:18
3	SiO2†	161836.0	167289.1	[10695]	ug/L	09:44:55

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	832882.2	2269.50	0.27%	96.314 %
Sc Radial	3910.8	10.35	0.26%	98.8 %
Y 371.029	654045.2	2696.35	0.41%	95.888 %
Y RADIAL	4384.1	39.44	0.90%	96.60 %
Ag 328.068†	222134.3	173.37	0.08%	[1000] ug/L
Al 396.153Radial†	11617.9	41.00	0.35%	[10000] ug/L
As 188.979†	2645.5	16.71	0.63%	[1000] ug/L
B 249.677†	47609.0	124.36	0.26%	[1000] ug/L
Ba 233.527†	133763.7	162.63	0.12%	[1000] ug/L
Be 313.107†	2956671.7	16721.79	0.57%	[1000] ug/L
Ca 317.933Radial†	5266.2	27.02	0.51%	[10000] ug/L
Cd 226.502†	96678.4	156.86	0.16%	[1000] ug/L
Co 228.616†	54389.5	140.18	0.26%	[1000] ug/L
Cr 267.716†	94553.5	171.36	0.18%	[1000] ug/L
Cu 324.752†	351348.7	442.93	0.13%	[1000] ug/L
Fe 238.204 Radial†	858.5	1.07	0.12%	[10000] ug/L
K 766.490 Radial†	57343.1	287.36	0.50%	[10000] ug/L

Mg 279.077 IEC†	237.9	1.12	0.47%	[10000]	ug/L
Mn 257.610†	984120.7	4106.62	0.42%	[1000]	ug/L
Mo 202.031†	14785.3	36.30	0.25%	[1000]	ug/L
Na 589.592 Radial†	34910.8	153.31	0.44%	[10000]	ug/L
Ni 231.604†	44483.5	53.47	0.12%	[1000]	ug/L
P 214.914†	9939.7	47.63	0.48%	[5000]	ug/L
Pb 220.353†	9215.3	39.83	0.43%	[1000]	ug/L
S 181.975 Axial†	1667.5	0.72	0.04%	[2000]	ug/L
Sb 206.836†	3284.7	17.16	0.52%	[1000]	ug/L
Se 196.026†	1862.7	15.81	0.85%	[1000]	ug/L
Si 251.611†	169127.2	388.67	0.23%	[5000]	ug/L
Sn 189.927†	6219.7	40.71	0.65%	[1000]	ug/L
Sr 421.552†	147806.1	666.94	0.45%	[1000]	ug/L
Ti 334.940†	653390.0	424.01	0.06%	[1000]	ug/L
Tl 190.801†	3529.4	12.09	0.34%	[1000]	ug/L
U 409.014†	31314.3	78.14	0.25%	[1000]	ug/L
V 292.402†	145448.7	90.01	0.06%	[1000]	ug/L
Zn 213.857†	117873.8	174.17	0.15%	[1000]	ug/L
SiO2†	168708.5	1233.62	0.73%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 2/3/2010 09:47:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3963.6	3963.6	100 %	09:49:19
1	Y RADIAL	4342.9	4342.9	95.69 %	09:49:19
1	Al 396.153Radial†	55232.8	55378.5	[50000] ug/L	09:48:59
1	Ca 317.933Radial†	25150.4	25111.3	[50000] ug/L	09:48:59
1	Fe 238.204 Radial†	1681.4	1668.0	[20000] ug/L	09:49:19
1	Mg 279.077 IEC†	1152.2	1147.9	[50000] ug/L	09:49:19
1	Na 589.592 Radial†	68030.0	69553.4	[20000] ug/L	09:48:59
1	Sc 361.383	838418.4	838418.4	96.954 %	09:50:16
1	Y 371.029	648046.0	648046.0	95.009 %	09:50:16
2	Sc Radial	3939.5	3939.5	99.5 %	09:49:44
2	Y RADIAL	4303.3	4303.3	94.82 %	09:49:44
2	Al 396.153Radial†	54973.3	55454.9	[50000] ug/L	09:49:24
2	Ca 317.933Radial†	25017.3	25131.0	[50000] ug/L	09:49:24
2	Fe 238.204 Radial†	1679.9	1676.8	[20000] ug/L	09:49:44
2	Mg 279.077 IEC†	1150.4	1153.1	[50000] ug/L	09:49:44
2	Na 589.592 Radial†	67719.1	69656.2	[20000] ug/L	09:49:24
2	Sc 361.383	834438.6	834438.6	96.494 %	09:50:22
2	Y 371.029	646216.3	646216.3	94.740 %	09:50:22
3	Sc Radial	3948.4	3948.4	99.7 %	09:50:09
3	Y RADIAL	4304.5	4304.5	94.85 %	09:50:09
3	Al 396.153Radial†	55398.5	55756.3	[50000] ug/L	09:49:49
3	Ca 317.933Radial†	25204.3	25261.7	[50000] ug/L	09:49:49
3	Fe 238.204 Radial†	1671.5	1664.6	[20000] ug/L	09:50:09
3	Mg 279.077 IEC†	1139.7	1139.7	[50000] ug/L	09:50:09
3	Na 589.592 Radial†	68206.1	69990.6	[20000] ug/L	09:49:49
3	Sc 361.383	847301.7	847301.7	97.981 %	09:50:28
3	Y 371.029	655484.6	655484.6	96.099 %	09:50:28

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	840052.9	6585.47	0.78%	97.143 %
Sc Radial	3950.5	12.17	0.31%	99.8 %
Y 371.029	649915.7	4908.88	0.76%	95.283 %
Y RADIAL	4316.9	22.55	0.52%	95.12 %
Al 396.153Radial†	55529.9	199.73	0.36%	[50000] ug/L
Ca 317.933Radial†	25168.0	81.74	0.32%	[50000] ug/L
Fe 238.204 Radial†	1669.8	6.34	0.38%	[20000] ug/L
Mg 279.077 IEC†	1146.9	6.74	0.59%	[50000] ug/L
Na 589.592 Radial†	69733.4	228.55	0.33%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	220.3	0.00000	0.999868	
Al 396.153Radial	3	Lin Thru 0	0.0	1.113	0.00000	0.999947	
As 188.979	3	Lin Thru 0	0.0	2.622	0.00000	0.999839	
B 249.677	3	Lin Thru 0	0.0	47.06	0.00000	0.999742	
Ba 233.527	3	Lin Thru 0	0.0	132.7	0.00000	0.999879	
Be 313.107	3	Lin Thru 0	0.0	2933	0.00000	0.999873	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5044	0.00000	0.999958	
Cd 226.502	3	Lin Thru 0	0.0	95.86	0.00000	0.999861	
Co 228.616	3	Lin Thru 0	0.0	53.79	0.00000	0.999752	
Cr 267.716	3	Lin Thru 0	0.0	93.73	0.00000	0.999851	
Cu 324.752	3	Lin Thru 0	0.0	348.4	0.00000	0.999861	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0840	0.00000	0.999937	
K 766.490 Radial	3	Lin Thru 0	0.0	5.736	0.00000	0.999995	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0230	0.00000	0.999969
Mn 257.610	3	Lin Thru 0	0.0	976.8	0.00000	0.999887
Mo 202.031	3	Lin Thru 0	0.0	14.68	0.00000	0.999893
Na 589.592 Radia	2	Lin Thru 0	0.0	3.488	0.00000	1.000000
Ni 231.604	3	Lin Thru 0	0.0	44.01	0.00000	0.999775
P 214.914	3	Lin Thru 0	0.0	1.967	0.00000	0.999782
Pb 220.353	3	Lin Thru 0	0.0	9.141	0.00000	0.999871
S 181.975 Axial	3	Lin Thru 0	0.0	0.8264	0.00000	0.999847
Sb 206.836	3	Lin Thru 0	0.0	3.248	0.00000	0.999750
Se 196.026	3	Lin Thru 0	0.0	1.846	0.00000	0.999835
Si 251.611	3	Lin Thru 0	0.0	33.61	0.00000	0.999921
Sn 189.927	3	Lin Thru 0	0.0	6.159	0.00000	0.999811
Sr 421.552	3	Lin Thru 0	0.0	148.0	0.00000	0.999993
Ti 334.940	3	Lin Thru 0	0.0	651.3	0.00000	0.999980
Tl 190.801	3	Lin Thru 0	0.0	3.499	0.00000	0.999855
U 409.014	3	Lin Thru 0	0.0	30.81	0.00000	0.999472
V 292.402	3	Lin Thru 0	0.0	144.1	0.00000	0.999820
Zn 213.857	3	Lin Thru 0	0.0	116.9	0.00000	0.999868
SiO2	3	Lin Thru 0	0.0	15.67	0.00000	0.999911

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 2/3/2010 09:52:40

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	3903.6	3903.6	98.6 %		09:54:52
1	Y RADIAL	4382.8	4382.8	96.57 %		09:54:32
1	Al 396.153Radial†	5548.7	5824.7	5207.1 ug/L	5207.1 ppb	09:54:32
1	Ca 317.933Radial†	2558.3	2579.0	5113.1 ug/L	5113.1 ppb	09:54:52
1	Fe 238.204 Radial†	430.8	425.2	5078.6 ug/L	5078.6 ppb	09:54:52
1	K 766.490 Radial†	16778.8	13990.6	2435.7 ug/L	2435.7 ppb	09:54:32
1	Mg 279.077 IEC†	126.1	124.7	5425.1 ug/L	5425.1 ppb	09:54:52
1	Na 589.592 Radial†	6641.4	8322.5	2386.3 ug/L	2386.3 ppb	09:54:32
1	Sr 421.552†	75260.7	76348.1	515.73 ug/L	515.73 ppb	09:54:32
1	Sc 361.383	862764.3	862764.3	99.769 %		09:55:50
1	Y 371.029	674326.6	674326.6	98.862 %		09:55:50
1	Ag 328.068†	54888.3	54580.2	250.98 ug/L	250.98 ppb	09:55:50
1	As 188.979†	1183.8	1222.0	470.24 ug/L	470.24 ppb	09:56:10
1	B 249.677†	22653.4	23312.7	493.12 ug/L	493.12 ppb	09:55:50
1	Ba 233.527†	65419.8	65589.2	495.43 ug/L	495.43 ppb	09:55:50
1	Be 313.107†	737126.6	742776.8	254.38 ug/L	254.38 ppb	09:55:50
1	Cd 226.502†	45902.5	46208.3	481.91 ug/L	481.91 ppb	09:55:50
1	Co 228.616†	26142.4	26289.3	488.93 ug/L	488.93 ppb	09:56:10
1	Cr 267.716†	44374.0	44387.6	474.16 ug/L	474.16 ppb	09:55:50
1	Cu 324.752†	177955.0	171518.6	492.30 ug/L	492.30 ppb	09:55:50
1	Mn 257.610†	487535.0	488171.0	500.06 ug/L	500.06 ppb	09:55:50
1	Mo 202.031†	7724.4	7739.4	527.76 ug/L	527.76 ppb	09:56:10
1	Ni 231.604†	21525.0	21491.7	488.03 ug/L	488.03 ppb	09:56:10
1	P 214.914†	5036.5	4813.7	2351.5 ug/L	2351.5 ppb	09:56:10
1	Pb 220.353†	4372.7	4454.0	489.02 ug/L	489.02 ppb	09:56:10
1	S 181.975 Axial†	2048.9	2001.7	2421.3 ug/L	2421.3 ppb	09:56:10
1	Sb 206.836†	1616.3	1584.5	506.74 ug/L	506.74 ppb	09:56:10
1	Se 196.026†	4522.5	4562.5	2489.3 ug/L	2489.3 ppb	09:56:10
1	Si 251.611†	160241.1	160122.4	4757.7 ug/L	4757.7 ppb	09:55:50
1	Sn 189.927†	3244.4	3234.2	525.99 ug/L	525.99 ppb	09:56:10
1	Ti 334.940†	317530.6	319960.2	491.11 ug/L	491.11 ppb	09:55:50
1	Tl 190.801†	1772.2	1819.5	523.35 ug/L	523.35 ppb	09:56:10
1	U 409.014†	10824.0	15173.9	490.81 ug/L	490.81 ppb	09:55:50
1	V 292.402†	69582.3	71451.2	503.05 ug/L	503.05 ppb	09:55:50
1	Zn 213.857†	58553.0	57943.4	491.38 ug/L	491.38 ppb	09:55:50
1	SiO2†	160294.0	160132.6	10206 ug/L	10206 ppb	09:57:08
2	Sc Radial	3914.5	3914.5	98.9 %		09:55:17
2	Y RADIAL	4433.0	4433.0	97.68 %		09:54:57
2	Al 396.153Radial†	5628.1	5889.4	5265.3 ug/L	5265.3 ppb	09:54:57
2	Ca 317.933Radial†	2557.9	2571.3	5098.0 ug/L	5098.0 ppb	09:55:17
2	Fe 238.204 Radial†	427.6	420.8	5026.4 ug/L	5026.4 ppb	09:55:17
2	K 766.490 Radial†	17080.3	14248.2	2480.6 ug/L	2480.6 ppb	09:54:57
2	Mg 279.077 IEC†	120.8	118.9	5174.2 ug/L	5174.2 ppb	09:55:17
2	Na 589.592 Radial†	6786.5	8450.6	2423.1 ug/L	2423.1 ppb	09:54:57
2	Sr 421.552†	76114.4	76999.2	520.13 ug/L	520.13 ppb	09:54:57
2	Sc 361.383	867750.1	867750.1	100.35 %		09:56:16
2	Y 371.029	677592.2	677592.2	99.340 %		09:56:16
2	Ag 328.068†	55130.6	54505.6	250.63 ug/L	250.63 ppb	09:56:16
2	As 188.979†	1184.8	1216.2	468.02 ug/L	468.02 ppb	09:56:36
2	B 249.677†	22964.8	23492.5	496.95 ug/L	496.95 ppb	09:56:16
2	Ba 233.527†	65764.9	65556.4	495.18 ug/L	495.18 ppb	09:56:16
2	Be 313.107†	743112.1	744496.7	254.96 ug/L	254.96 ppb	09:56:16
2	Cd 226.502†	46311.0	46351.1	483.40 ug/L	483.40 ppb	09:56:16
2	Co 228.616†	26195.0	26191.2	487.10 ug/L	487.10 ppb	09:56:36
2	Cr 267.716†	44670.0	44427.1	474.58 ug/L	474.58 ppb	09:56:16
2	Cu 324.752†	179498.6	172032.1	493.77 ug/L	493.77 ppb	09:56:16
2	Mn 257.610†	491524.6	489339.2	501.26 ug/L	501.26 ppb	09:56:16
2	Mo 202.031†	7735.5	7706.0	525.48 ug/L	525.48 ppb	09:56:36
2	Ni 231.604†	21537.2	21379.8	485.49 ug/L	485.49 ppb	09:56:36

2	P 214.914†	4984.9	4733.2	2310.4 ug/L	2310.4 ppb	09:56:36
2	Pb 220.353†	4385.1	4441.2	487.63 ug/L	487.63 ppb	09:56:36
2	S 181.975 Axial†	2047.6	1988.6	2405.4 ug/L	2405.4 ppb	09:56:36
2	Sb 206.836†	1610.4	1569.3	501.97 ug/L	501.97 ppb	09:56:36
2	Se 196.026†	4545.8	4559.7	2487.6 ug/L	2487.6 ppb	09:56:36
2	Si 251.611†	161529.6	160483.7	4768.5 ug/L	4768.5 ppb	09:56:16
2	Sn 189.927†	3240.0	3211.2	522.26 ug/L	522.26 ppb	09:56:36
2	Ti 334.940†	319693.1	320286.6	491.62 ug/L	491.62 ppb	09:56:16
2	Tl 190.801†	1774.6	1811.7	521.14 ug/L	521.14 ppb	09:56:36
2	U 409.014†	11029.0	15315.8	495.42 ug/L	495.42 ppb	09:56:16
2	V 292.402†	70202.0	71668.0	504.54 ug/L	504.54 ppb	09:56:16
2	Zn 213.857†	59087.6	58139.0	493.08 ug/L	493.08 ppb	09:56:16
2	SiO2†	160276.4	159192.0	10146 ug/L	10146 ppb	09:57:13
3	Sc Radial	3898.4	3898.4	98.4 %		09:55:42
3	Y RADIAL	4458.8	4458.8	98.25 %		09:55:22
3	Al 396.153Radial†	5675.7	5961.3	5329.8 ug/L	5329.8 ppb	09:55:22
3	Ca 317.933Radial†	2533.1	2556.8	5069.3 ug/L	5069.3 ppb	09:55:42
3	Fe 238.204 Radial†	426.2	421.1	5029.9 ug/L	5029.9 ppb	09:55:42
3	K 766.490 Radial†	17083.3	14322.7	2493.6 ug/L	2493.6 ppb	09:55:22
3	Mg 279.077 IEC†	126.0	124.7	5428.7 ug/L	5428.7 ppb	09:55:42
3	Na 589.592 Radial†	6801.6	8494.3	2435.6 ug/L	2435.6 ppb	09:55:22
3	Sr 421.552†	76646.2	77857.7	525.93 ug/L	525.93 ppb	09:55:22
3	Sc 361.383	865032.5	865032.5	100.03 %		09:56:42
3	Y 371.029	675848.4	675848.4	99.085 %		09:56:42
3	Ag 328.068†	54854.8	54402.4	250.16 ug/L	250.16 ppb	09:56:42
3	As 188.979†	1181.6	1216.7	468.19 ug/L	468.19 ppb	09:57:02
3	B 249.677†	22844.4	23444.1	495.92 ug/L	495.92 ppb	09:56:42
3	Ba 233.527†	65789.7	65787.1	496.92 ug/L	496.92 ppb	09:56:42
3	Be 313.107†	740175.5	743887.5	254.76 ug/L	254.76 ppb	09:56:42
3	Cd 226.502†	46345.8	46530.9	485.28 ug/L	485.28 ppb	09:56:42
3	Co 228.616†	26198.9	26277.1	488.70 ug/L	488.70 ppb	09:57:02
3	Cr 267.716†	44677.9	44574.8	476.15 ug/L	476.15 ppb	09:56:42
3	Cu 324.752†	177941.0	171036.9	490.91 ug/L	490.91 ppb	09:56:42
3	Mn 257.610†	490501.3	489855.1	501.78 ug/L	501.78 ppb	09:56:42
3	Mo 202.031†	7731.1	7725.8	526.83 ug/L	526.83 ppb	09:57:02
3	Ni 231.604†	21582.5	21492.5	488.05 ug/L	488.05 ppb	09:57:02
3	P 214.914†	5019.4	4783.4	2336.4 ug/L	2336.4 ppb	09:57:02
3	Pb 220.353†	4358.1	4427.9	486.20 ug/L	486.20 ppb	09:57:02
3	S 181.975 Axial†	2055.7	2003.1	2422.9 ug/L	2422.9 ppb	09:57:02
3	Sb 206.836†	1617.9	1581.9	505.90 ug/L	505.90 ppb	09:57:02
3	Se 196.026†	4552.2	4580.3	2498.8 ug/L	2498.8 ppb	09:57:02
3	Si 251.611†	160886.7	160346.7	4764.4 ug/L	4764.4 ppb	09:56:42
3	Sn 189.927†	3248.7	3230.0	525.30 ug/L	525.30 ppb	09:57:02
3	Ti 334.940†	318578.7	320173.4	491.43 ug/L	491.43 ppb	09:56:42
3	Tl 190.801†	1784.3	1826.9	525.48 ug/L	525.48 ppb	09:57:02
3	U 409.014†	10944.3	15265.7	493.79 ug/L	493.79 ppb	09:56:42
3	V 292.402†	69831.1	71517.0	503.51 ug/L	503.51 ppb	09:56:42
3	Zn 213.857†	59019.4	58255.8	494.06 ug/L	494.06 ppb	09:56:42
3	SiO2†	161442.0	160859.0	10252 ug/L	10252 ppb	09:57:18

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	865182.3	100.05 %	0.289			0.29%
Sc Radial	3905.5	98.6 %	0.21			0.21%
Y 371.029	675922.4	99.096 %	0.2396			0.24%
Y RADIAL	4424.9	97.50 %	0.851			0.87%
Ag 328.068†	54496.1	250.59 ug/L	0.413	250.59 ppb	0.413	0.16%
QC value within limits for Ag 328.068 Recovery = 100.23%						
Al 396.153Radial†	5891.8	5267.4 ug/L	61.39	5267.4 ppb	61.39	1.17%
QC value within limits for Al 396.153Radial Recovery = 105.35%						
As 188.979†	1218.3	468.82 ug/L	1.234	468.82 ppb	1.234	0.26%
QC value within limits for As 188.979 Recovery = 93.76%						
B 249.677†	23416.4	495.33 ug/L	1.984	495.33 ppb	1.984	0.40%
QC value within limits for B 249.677 Recovery = 99.07%						
Ba 233.527†	65644.2	495.85 ug/L	0.940	495.85 ppb	0.940	0.19%
QC value within limits for Ba 233.527 Recovery = 99.17%						
Be 313.107†	743720.3	254.70 ug/L	0.298	254.70 ppb	0.298	0.12%
QC value within limits for Be 313.107 Recovery = 101.88%						
Ca 317.933Radial†	2569.0	5093.5 ug/L	22.28	5093.5 ppb	22.28	0.44%

QC value within limits for Ca 317.933 Radial Recovery = 101.87%

Cd 226.502†	46363.4	483.53 ug/L	1.689	483.53 ppb	1.689	0.35%
QC value within limits for Cd 226.502 Recovery = 96.71%						
Co 228.616†	26252.5	488.25 ug/L	0.997	488.25 ppb	0.997	0.20%
QC value within limits for Co 228.616 Recovery = 97.65%						
Cr 267.716†	44463.2	474.96 ug/L	1.052	474.96 ppb	1.052	0.22%
QC value within limits for Cr 267.716 Recovery = 94.99%						
Cu 324.752†	171529.2	492.33 ug/L	1.428	492.33 ppb	1.428	0.29%
QC value within limits for Cu 324.752 Recovery = 98.47%						
Fe 238.204 Radial†	422.4	5045.0 ug/L	29.16	5045.0 ppb	29.16	0.58%
QC value within limits for Fe 238.204 Radial Recovery = 100.90%						
K 766.490 Radial†	14187.2	2470.0 ug/L	30.38	2470.0 ppb	30.38	1.23%
QC value within limits for K 766.490 Radial Recovery = 98.80%						
Mg 279.077 IEC†	122.8	5342.7 ug/L	145.93	5342.7 ppb	145.93	2.73%
QC value within limits for Mg 279.077 IEC Recovery = 106.85%						
Mn 257.610†	489121.8	501.03 ug/L	0.882	501.03 ppb	0.882	0.18%
QC value within limits for Mn 257.610 Recovery = 100.21%						
Mo 202.031†	7723.8	526.69 ug/L	1.147	526.69 ppb	1.147	0.22%
QC value within limits for Mo 202.031 Recovery = 105.34%						
Na 589.592 Radial†	8422.5	2415.0 ug/L	25.59	2415.0 ppb	25.59	1.06%
QC value within limits for Na 589.592 Radial Recovery = 96.60%						
Ni 231.604†	21454.7	487.19 ug/L	1.472	487.19 ppb	1.472	0.30%
QC value within limits for Ni 231.604 Recovery = 97.44%						
P 214.914†	4776.8	2332.8 ug/L	20.82	2332.8 ppb	20.82	0.89%
QC value within limits for P 214.914 Recovery = 93.31%						
Pb 220.353†	4441.0	487.62 ug/L	1.413	487.62 ppb	1.413	0.29%
QC value within limits for Pb 220.353 Recovery = 97.52%						
S 181.975 Axial†	1997.8	2416.5 ug/L	9.67	2416.5 ppb	9.67	0.40%
QC value within limits for S 181.975 Axial Recovery = 96.66%						
Sb 206.836†	1578.6	504.87 ug/L	2.547	504.87 ppb	2.547	0.50%
QC value within limits for Sb 206.836 Recovery = 100.97%						
Se 196.026†	4567.5	2491.9 ug/L	6.03	2491.9 ppb	6.03	0.24%
QC value within limits for Se 196.026 Recovery = 99.67%						
Si 251.611†	160317.6	4763.5 ug/L	5.44	4763.5 ppb	5.44	0.11%
QC value within limits for Si 251.611 Recovery = 95.27%						
Sn 189.927†	3225.2	524.52 ug/L	1.988	524.52 ppb	1.988	0.38%
QC value within limits for Sn 189.927 Recovery = 104.90%						
Sr 421.552†	77068.3	520.60 ug/L	5.115	520.60 ppb	5.115	0.98%
QC value within limits for Sr 421.552 Recovery = 104.12%						
Ti 334.940†	320140.1	491.39 ug/L	0.261	491.39 ppb	0.261	0.05%
QC value within limits for Ti 334.940 Recovery = 98.28%						
Tl 190.801†	1819.4	523.32 ug/L	2.172	523.32 ppb	2.172	0.42%
QC value within limits for Tl 190.801 Recovery = 104.66%						
U 409.014†	15251.8	493.34 ug/L	2.338	493.34 ppb	2.338	0.47%
QC value within limits for U 409.014 Recovery = 98.67%						
V 292.402†	71545.4	503.70 ug/L	0.760	503.70 ppb	0.760	0.15%
QC value within limits for V 292.402 Recovery = 100.74%						
Zn 213.857†	58112.7	492.84 ug/L	1.355	492.84 ppb	1.355	0.27%
QC value within limits for Zn 213.857 Recovery = 98.57%						
SiO2†	160061.2	10201 ug/L	53.3	10201 ppb	53.3	0.52%
QC value within limits for SiO2 Recovery = 95.39%						

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 2/3/2010 09:59:29

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	3871.2	3871.2	97.8 %		10:01:42
1	Y RADIAL	4359.2	4359.2	96.05 %		10:01:22
1	Al 396.153Radial†	-191.8	-0.4	-0.3652 ug/L	-0.3652 ppb	10:01:22
1	Ca 317.933Radial†	15.1	-0.8	-1.6401 ug/L	-1.6401 ppb	10:01:42
1	Fe 238.204 Radial†	9.6	-2.0	-23.697 ug/L	-23.697 ppb	10:01:42
1	K 766.490 Radial†	2904.2	-60.0	-10.448 ug/L	-10.448 ppb	10:01:22
1	Mg 279.077 IEC†	3.6	0.4	16.341 ug/L	16.341 ppb	10:01:42
1	Na 589.592 Radial†	-1599.0	-50.5	-14.490 ug/L	-14.490 ppb	10:01:22
1	Sr 421.552†	14.5	14.4	0.0974 ug/L	0.0974 ppb	10:01:22
1	Sc 361.383	862383.7	862383.7	99.725 %		10:02:39
1	Y 371.029	680146.2	680146.2	99.715 %		10:02:39
1	Ag 328.068†	346.5	-87.7	-0.4043 ug/L	-0.4043 ppb	10:02:39
1	As 188.979†	-31.1	4.2	1.6136 ug/L	1.6136 ppb	10:02:59
1	B 249.677†	-462.8	142.8	3.0385 ug/L	3.0385 ppb	10:02:39
1	Ba 233.527†	-6.8	11.2	0.0835 ug/L	0.0835 ppb	10:02:59
1	Be 313.107†	-3843.6	89.9	0.0304 ug/L	0.0304 ppb	10:02:39
1	Cd 226.502†	-206.2	-7.2	-0.0728 ug/L	-0.0728 ppb	10:02:59
1	Co 228.616†	-106.3	-20.3	-0.3762 ug/L	-0.3762 ppb	10:02:59
1	Cr 267.716†	98.9	10.2	0.1090 ug/L	0.1090 ppb	10:02:39
1	Cu 324.752†	6990.1	161.1	0.4627 ug/L	0.4627 ppb	10:02:39
1	Mn 257.610†	485.0	-6.1	-0.0092 ug/L	-0.0092 ppb	10:02:59
1	Mo 202.031†	1.6	-1.2	-0.0853 ug/L	-0.0853 ppb	10:02:59
1	Ni 231.604†	85.2	2.2	0.0505 ug/L	0.0505 ppb	10:02:59
1	P 214.914†	232.7	-1.2	-0.6671 ug/L	-0.6671 ppb	10:02:59
1	Pb 220.353†	-68.7	2.3	0.2571 ug/L	0.2571 ppb	10:02:59
1	S 181.975 Axial†	51.6	-0.2	-0.2709 ug/L	-0.2709 ppb	10:02:59
1	Sb 206.836†	38.9	3.5	1.0719 ug/L	1.0719 ppb	10:02:59
1	Se 196.026†	-26.0	3.4	1.7849 ug/L	1.7849 ppb	10:02:59
1	Si 251.611†	556.2	68.2	2.0295 ug/L	2.0295 ppb	10:02:59
1	Sn 189.927†	17.0	-0.6	-0.0925 ug/L	-0.0925 ppb	10:02:59
1	Ti 334.940†	-1757.9	-68.2	-0.1050 ug/L	-0.1050 ppb	10:02:39
1	Tl 190.801†	-39.5	3.6	1.0437 ug/L	1.0437 ppb	10:02:59
1	U 409.014†	-4402.0	-89.4	-2.8988 ug/L	-2.8988 ppb	10:02:39
1	V 292.402†	-1731.6	-28.5	-0.2009 ug/L	-0.2009 ppb	10:02:39
1	Zn 213.857†	735.7	-7.4	-0.0619 ug/L	-0.0619 ppb	10:02:59
1	SiO2†	598.0	67.2	4.2911 ug/L	4.2911 ppb	10:03:55
2	Sc Radial	3860.3	3860.3	97.5 %		10:02:07
2	Y RADIAL	4475.3	4475.3	98.61 %		10:01:47
2	Al 396.153Radial†	-191.0	-0.1	-0.1055 ug/L	-0.1055 ppb	10:01:47
2	Ca 317.933Radial†	15.9	0.0	0.0257 ug/L	0.0257 ppb	10:02:07
2	Fe 238.204 Radial†	11.5	-0.0	-0.3554 ug/L	-0.3554 ppb	10:02:07
2	K 766.490 Radial†	3066.6	115.1	20.081 ug/L	20.081 ppb	10:01:47
2	Mg 279.077 IEC†	3.7	0.4	19.540 ug/L	19.540 ppb	10:02:07
2	Na 589.592 Radial†	-1650.8	-108.3	-31.056 ug/L	-31.056 ppb	10:01:47
2	Sr 421.552†	33.6	34.0	0.2296 ug/L	0.2296 ppb	10:01:47
2	Sc 361.383	858722.8	858722.8	99.302 %		10:03:05
2	Y 371.029	678390.8	678390.8	99.457 %		10:03:05
2	Ag 328.068†	379.2	-53.2	-0.2410 ug/L	-0.2410 ppb	10:03:05
2	As 188.979†	-25.6	9.6	3.6753 ug/L	3.6753 ppb	10:03:25
2	B 249.677†	-478.9	124.5	2.6461 ug/L	2.6461 ppb	10:03:05
2	Ba 233.527†	-11.9	6.0	0.0435 ug/L	0.0435 ppb	10:03:25
2	Be 313.107†	-3942.6	-26.2	-0.0094 ug/L	-0.0094 ppb	10:03:05
2	Cd 226.502†	-197.3	0.9	0.0092 ug/L	0.0092 ppb	10:03:25
2	Co 228.616†	-93.0	-7.3	-0.1349 ug/L	-0.1349 ppb	10:03:25
2	Cr 267.716†	19.4	-69.5	-0.7404 ug/L	-0.7404 ppb	10:03:05
2	Cu 324.752†	6909.8	110.1	0.3186 ug/L	0.3186 ppb	10:03:05
2	Mn 257.610†	469.6	-19.6	-0.0209 ug/L	-0.0209 ppb	10:03:25
2	Mo 202.031†	0.6	-2.3	-0.1540 ug/L	-0.1540 ppb	10:03:25
2	Ni 231.604†	108.7	26.3	0.5970 ug/L	0.5970 ppb	10:03:25

2	P 214.914†	223.5	-9.4	-4.8608 ug/L	-4.8608 ppb	10:03:25
2	Pb 220.353†	-77.6	-7.0	-0.7643 ug/L	-0.7643 ppb	10:03:25
2	S 181.975 Axial†	48.5	-3.0	-3.6821 ug/L	-3.6821 ppb	10:03:25
2	Sb 206.836†	45.8	10.6	3.2366 ug/L	3.2366 ppb	10:03:25
2	Se 196.026†	-26.5	2.9	1.5467 ug/L	1.5467 ppb	10:03:25
2	Si 251.611†	577.7	92.3	2.7468 ug/L	2.7468 ppb	10:03:25
2	Sn 189.927†	11.0	-6.6	-1.0708 ug/L	-1.0708 ppb	10:03:25
2	Ti 334.940†	-1815.3	-133.4	-0.2040 ug/L	-0.2040 ppb	10:03:05
2	Tl 190.801†	-44.4	-1.5	-0.4277 ug/L	-0.4277 ppb	10:03:25
2	U 409.014†	-4444.5	-150.9	-4.8970 ug/L	-4.8970 ppb	10:03:05
2	V 292.402†	-1813.9	-118.8	-0.8354 ug/L	-0.8354 ppb	10:03:05
2	Zn 213.857†	708.4	-31.7	-0.2757 ug/L	-0.2757 ppb	10:03:25
2	SiO2†	585.6	57.3	3.6602 ug/L	3.6602 ppb	10:04:00
3	Sc Radial	3874.6	3874.6	97.8 %		10:02:32
3	Y RADIAL	4437.9	4437.9	97.78 %		10:02:12
3	Al 396.153Radial†	-210.1	-18.9	-17.032 ug/L	-17.032 ppb	10:02:12
3	Ca 317.933Radial†	11.4	-4.7	-9.2457 ug/L	-9.2457 ppb	10:02:32
3	Fe 238.204 Radial†	9.7	-1.9	-22.657 ug/L	-22.657 ppb	10:02:32
3	K 766.490 Radial†	3040.4	76.7	13.394 ug/L	13.394 ppb	10:02:12
3	Mg 279.077 IEC†	5.8	2.7	116.50 ug/L	116.50 ppb	10:02:32
3	Na 589.592 Radial†	-1695.6	-147.8	-42.381 ug/L	-42.381 ppb	10:02:12
3	Sr 421.552†	25.0	25.2	0.1700 ug/L	0.1700 ppb	10:02:12
3	Sc 361.383	850264.2	850264.2	98.324 %		10:03:30
3	Y 371.029	670890.9	670890.9	98.358 %		10:03:30
3	Ag 328.068†	453.6	26.2	0.1153 ug/L	0.1153 ppb	10:03:30
3	As 188.979†	-32.5	2.4	0.9138 ug/L	0.9138 ppb	10:03:50
3	B 249.677†	-463.0	135.9	2.8908 ug/L	2.8908 ppb	10:03:30
3	Ba 233.527†	-6.6	11.3	0.0823 ug/L	0.0823 ppb	10:03:50
3	Be 313.107†	-3985.6	-109.5	-0.0376 ug/L	-0.0376 ppb	10:03:30
3	Cd 226.502†	-190.6	5.7	0.0604 ug/L	0.0604 ppb	10:03:50
3	Co 228.616†	-88.3	-3.4	-0.0614 ug/L	-0.0614 ppb	10:03:50
3	Cr 267.716†	81.9	-5.7	-0.0591 ug/L	-0.0591 ppb	10:03:30
3	Cu 324.752†	6901.9	171.3	0.4956 ug/L	0.4956 ppb	10:03:30
3	Mn 257.610†	474.9	-9.4	-0.0167 ug/L	-0.0167 ppb	10:03:50
3	Mo 202.031†	7.8	5.2	0.3495 ug/L	0.3495 ppb	10:03:50
3	Ni 231.604†	91.3	9.7	0.2205 ug/L	0.2205 ppb	10:03:50
3	P 214.914†	235.6	5.1	2.5035 ug/L	2.5035 ppb	10:03:50
3	Pb 220.353†	-62.3	7.8	0.8516 ug/L	0.8516 ppb	10:03:50
3	S 181.975 Axial†	48.5	-2.6	-3.1059 ug/L	-3.1059 ppb	10:03:50
3	Sb 206.836†	47.8	13.1	4.0200 ug/L	4.0200 ppb	10:03:50
3	Se 196.026†	-23.7	5.4	2.8569 ug/L	2.8569 ppb	10:03:50
3	Si 251.611†	575.9	96.2	2.8585 ug/L	2.8585 ppb	10:03:50
3	Sn 189.927†	11.4	-6.0	-0.9811 ug/L	-0.9811 ppb	10:03:50
3	Ti 334.940†	-1750.6	-85.8	-0.1384 ug/L	-0.1384 ppb	10:03:30
3	Tl 190.801†	-36.1	6.5	1.8711 ug/L	1.8711 ppb	10:03:50
3	U 409.014†	-4537.5	-290.1	-9.4121 ug/L	-9.4121 ppb	10:03:30
3	V 292.402†	-1813.6	-136.7	-0.9565 ug/L	-0.9565 ppb	10:03:30
3	Zn 213.857†	719.0	-13.8	-0.1183 ug/L	-0.1183 ppb	10:03:50
3	SiO2†	539.5	16.3	1.0293 ug/L	1.0293 ppb	10:04:05

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	857123.6	99.117 %		0.7188				0.73%
Sc Radial	3868.7	97.7 %		0.19				0.19%
Y 371.029	676475.9	99.177 %		0.7207				0.73%
Y RADIAL	4424.1	97.48 %		1.305				1.34%
Ag 328.068†	-38.2	-0.1767 ug/L		0.26571	-0.1767 ppb		0.26571	150.38%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-6.5	-5.8342 ug/L		9.69844	-5.8342 ppb		9.69844	166.23%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	5.4	2.0676 ug/L		1.43565	2.0676 ppb		1.43565	69.44%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	134.4	2.8585 ug/L		0.19821	2.8585 ppb		0.19821	6.93%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	9.5	0.0698 ug/L		0.02279	0.0698 ppb		0.02279	32.66%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-15.3	-0.0055 ug/L		0.03420	-0.0055 ppb		0.03420	617.20%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-1.8	-3.6200 ug/L		4.94262	-3.6200 ppb		4.94262	136.54%

QC value within limits for Ca 317.933 Radial	Recovery = Not calculated		
Cd 226.502†	-0.2 -0.0011 ug/L	0.06723 -0.0011 ppb	0.06723 >999.9%
QC value within limits for Cd 226.502	Recovery = Not calculated		
Co 228.616†	-10.3 -0.1908 ug/L	0.16465 -0.1908 ppb	0.16465 86.28%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-21.7 -0.2302 ug/L	0.44981 -0.2302 ppb	0.44981 195.41%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	147.5 0.4257 ug/L	0.09412 0.4257 ppb	0.09412 22.11%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	-1.3 -15.570 ug/L	13.1864 -15.570 ppb	13.1864 84.69%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	44.0 7.6758 ug/L	16.04799 7.6758 ppb	16.04799 209.07%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	1.2 50.795 ug/L	56.9284 50.795 ppb	56.9284 112.08%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	-11.7 -0.0156 ug/L	0.00589 -0.0156 ppb	0.00589 37.76%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	0.6 0.0367 ug/L	0.27306 0.0367 ppb	0.27306 743.20%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-102.2 -29.309 ug/L	14.0270 -29.309 ppb	14.0270 47.86%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	12.7 0.2893 ug/L	0.27965 0.2893 ppb	0.27965 96.66%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-1.8 -1.0081 ug/L	3.69400 -1.0081 ppb	3.69400 366.42%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	1.0 0.1148 ug/L	0.81729 0.1148 ppb	0.81729 711.67%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-1.9 -2.3530 ug/L	1.82602 -2.3530 ppb	1.82602 77.60%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	9.1 2.7762 ug/L	1.52702 2.7762 ppb	1.52702 55.00%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	3.9 2.0629 ug/L	0.69792 2.0629 ppb	0.69792 33.83%
QC value within limits for Se 196.026	Recovery = Not calculated		
Si 251.611†	85.5 2.5449 ug/L	0.44985 2.5449 ppb	0.44985 17.68%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	-4.4 -0.7148 ug/L	0.54078 -0.7148 ppb	0.54078 75.66%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	24.5 0.1657 ug/L	0.06621 0.1657 ppb	0.06621 39.97%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-95.8 -0.1491 ug/L	0.05039 -0.1491 ppb	0.05039 33.78%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	2.9 0.8291 ug/L	1.16433 0.8291 ppb	1.16433 140.44%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-176.8 -5.7360 ug/L	3.33672 -5.7360 ppb	3.33672 58.17%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-94.7 -0.6643 ug/L	0.40584 -0.6643 ppb	0.40584 61.09%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	-17.7 -0.1520 ug/L	0.11081 -0.1520 ppb	0.11081 72.90%
QC value within limits for Zn 213.857	Recovery = Not calculated		
SiO2†	46.9 2.9935 ug/L	1.73009 2.9935 ppb	1.73009 57.79%
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: 2/3/2010 10:06:16

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	4004.9	4004.9	101 %		10:08:30
1	Y RADIAL	4483.5	4483.5	98.79 %		10:08:10
1	Al 396.153Radial†	52.4	247.6	221.93 ug/L	221.93 ppb	10:08:10
1	Ca 317.933Radial†	125.7	108.0	214.07 ug/L	214.07 ppb	10:08:30
1	Fe 238.204 Radial†	18.6	6.6	78.430 ug/L	78.430 ppb	10:08:30
1	K 766.490 Radial†	3823.1	749.5	130.48 ug/L	130.48 ppb	10:08:10
1	Mg 279.077 IEC†	11.1	7.6	332.77 ug/L	332.77 ppb	10:08:30
1	Na 589.592 Radial†	-592.2	999.6	286.62 ug/L	286.62 ppb	10:08:10
1	Sr 421.552†	776.9	767.7	5.1846 ug/L	5.1846 ppb	10:08:10
1	Sc 361.383	850123.6	850123.6	98.307 %		10:09:27
1	Y 371.029	679692.2	679692.2	99.648 %		10:09:27
1	Ag 328.068†	1642.5	1235.7	5.6109 ug/L	5.6109 ppb	10:09:27
1	As 188.979†	44.9	81.1	30.978 ug/L	30.978 ppb	10:09:47
1	B 249.677†	1849.5	2488.1	52.840 ug/L	52.840 ppb	10:09:27
1	Ba 233.527†	666.2	695.7	5.2535 ug/L	5.2535 ppb	10:09:47
1	Be 313.107†	10890.5	15022.1	5.1335 ug/L	5.1335 ppb	10:09:27
1	Cd 226.502†	265.1	469.3	4.9001 ug/L	4.9001 ppb	10:09:47
1	Co 228.616†	180.6	270.1	5.0353 ug/L	5.0353 ppb	10:09:47
1	Cr 267.716†	609.1	530.5	5.6490 ug/L	5.6490 ppb	10:09:27
1	Cu 324.752†	10314.6	3643.9	10.437 ug/L	10.437 ppb	10:09:27
1	Mn 257.610†	10698.6	10390.3	10.632 ug/L	10.632 ppb	10:09:27
1	Mo 202.031†	160.4	160.4	10.936 ug/L	10.936 ppb	10:09:47
1	Ni 231.604†	300.9	222.9	5.0607 ug/L	5.0607 ppb	10:09:47
1	P 214.914†	529.3	304.0	152.53 ug/L	152.53 ppb	10:09:47
1	Pb 220.353†	3.1	74.3	8.1950 ug/L	8.1950 ppb	10:09:47
1	S 181.975 Axial†	128.5	78.8	95.279 ug/L	95.279 ppb	10:09:47
1	Sb 206.836†	66.5	32.1	10.241 ug/L	10.241 ppb	10:09:47
1	Se 196.026†	28.5	58.5	31.951 ug/L	31.951 ppb	10:09:47
1	Si 251.611†	3930.3	3508.4	104.25 ug/L	104.25 ppb	10:09:27
1	Sn 189.927†	74.4	58.0	9.4518 ug/L	9.4518 ppb	10:09:47
1	Ti 334.940†	1575.6	3297.4	5.0413 ug/L	5.0413 ppb	10:09:27
1	Tl 190.801†	34.9	78.7	22.553 ug/L	22.553 ppb	10:09:47
1	U 409.014†	-2814.7	1461.6	47.411 ug/L	47.411 ppb	10:09:27
1	V 292.402†	-1063.9	625.6	4.5753 ug/L	4.5753 ppb	10:09:27
1	Zn 213.857†	1916.7	1204.6	10.250 ug/L	10.250 ppb	10:09:47
1	SiO2†	3953.7	3489.4	222.41 ug/L	222.41 ppb	10:10:43
2	Sc Radial	3965.4	3965.4	100 %		10:08:55
2	Y RADIAL	4521.9	4521.9	99.64 %		10:08:35
2	Al 396.153Radial†	51.3	247.0	221.41 ug/L	221.41 ppb	10:08:35
2	Ca 317.933Radial†	129.4	113.0	223.98 ug/L	223.98 ppb	10:08:55
2	Fe 238.204 Radial†	19.7	7.9	93.778 ug/L	93.778 ppb	10:08:55
2	K 766.490 Radial†	4077.0	1040.7	181.22 ug/L	181.22 ppb	10:08:35
2	Mg 279.077 IEC†	9.3	6.0	261.67 ug/L	261.67 ppb	10:08:55
2	Na 589.592 Radial†	-474.5	1111.3	318.64 ug/L	318.64 ppb	10:08:35
2	Sr 421.552†	772.0	770.5	5.2037 ug/L	5.2037 ppb	10:08:35
2	Sc 361.383	846713.3	846713.3	97.913 %		10:09:52
2	Y 371.029	676878.1	676878.1	99.236 %		10:09:52
2	Ag 328.068†	1475.3	1071.7	4.8684 ug/L	4.8684 ppb	10:09:52
2	As 188.979†	53.6	90.2	34.453 ug/L	34.453 ppb	10:10:12
2	B 249.677†	1806.5	2451.8	52.064 ug/L	52.064 ppb	10:09:52
2	Ba 233.527†	665.8	698.0	5.2728 ug/L	5.2728 ppb	10:10:12
2	Be 313.107†	10849.5	15024.8	5.1343 ug/L	5.1343 ppb	10:09:52
2	Cd 226.502†	290.6	496.4	5.1824 ug/L	5.1824 ppb	10:10:12
2	Co 228.616†	184.5	274.8	5.1213 ug/L	5.1213 ppb	10:10:12
2	Cr 267.716†	565.0	488.0	5.1934 ug/L	5.1934 ppb	10:09:52
2	Cu 324.752†	10358.6	3731.1	10.684 ug/L	10.684 ppb	10:09:52
2	Mn 257.610†	10620.8	10354.8	10.600 ug/L	10.600 ppb	10:09:52
2	Mo 202.031†	149.6	150.0	10.228 ug/L	10.228 ppb	10:10:12
2	Ni 231.604†	306.4	229.7	5.2168 ug/L	5.2168 ppb	10:10:12

2	P 214.914†	535.2	312.2	156.66 ug/L	156.66 ppb	10:10:12
2	Pb 220.353†	22.4	94.0	10.351 ug/L	10.351 ppb	10:10:12
2	S 181.975 Axial†	136.0	87.0	105.21 ug/L	105.21 ppb	10:10:12
2	Sb 206.836†	82.5	48.7	15.356 ug/L	15.356 ppb	10:10:12
2	Se 196.026†	26.8	56.9	31.140 ug/L	31.140 ppb	10:10:12
2	Si 251.611†	3911.4	3505.2	104.17 ug/L	104.17 ppb	10:09:52
2	Sn 189.927†	82.2	66.3	10.806 ug/L	10.806 ppb	10:10:12
2	Ti 334.940†	1520.7	3247.7	4.9693 ug/L	4.9693 ppb	10:09:52
2	Tl 190.801†	27.6	71.4	20.475 ug/L	20.475 ppb	10:10:12
2	U 409.014†	-2601.0	1668.4	54.122 ug/L	54.122 ppb	10:09:52
2	V 292.402†	-979.1	707.9	5.1463 ug/L	5.1463 ppb	10:09:52
2	Zn 213.857†	1905.1	1200.6	10.213 ug/L	10.213 ppb	10:10:12
2	SiO2†	3884.6	3434.9	218.95 ug/L	218.95 ppb	10:10:48
3	Sc Radial	3993.1	3993.1	101 %		10:09:20
3	Y RADIAL	4538.1	4538.1	99.99 %		10:09:00
3	Al 396.153Radial†	43.3	238.7	213.96 ug/L	213.96 ppb	10:09:00
3	Ca 317.933Radial†	126.0	108.7	215.53 ug/L	215.53 ppb	10:09:20
3	Fe 238.204 Radial†	22.4	10.4	123.47 ug/L	123.47 ppb	10:09:20
3	K 766.490 Radial†	4013.1	949.0	165.26 ug/L	165.26 ppb	10:09:00
3	Mg 279.077 IEC†	11.0	7.6	330.34 ug/L	330.34 ppb	10:09:20
3	Na 589.592 Radial†	-529.4	1060.1	303.98 ug/L	303.98 ppb	10:09:00
3	Sr 421.552†	775.5	768.7	5.1911 ug/L	5.1911 ppb	10:09:00
3	Sc 361.383	848117.2	848117.2	98.075 %		10:10:18
3	Y 371.029	675528.3	675528.3	99.038 %		10:10:18
3	Ag 328.068†	1494.8	1089.0	4.9597 ug/L	4.9597 ppb	10:10:18
3	As 188.979†	53.5	90.0	34.389 ug/L	34.389 ppb	10:10:38
3	B 249.677†	1854.3	2497.5	53.032 ug/L	53.032 ppb	10:10:18
3	Ba 233.527†	654.4	685.3	5.1775 ug/L	5.1775 ppb	10:10:38
3	Be 313.107†	10818.4	14974.8	5.1173 ug/L	5.1173 ppb	10:10:18
3	Cd 226.502†	278.2	483.3	5.0421 ug/L	5.0421 ppb	10:10:38
3	Co 228.616†	169.9	259.7	4.8408 ug/L	4.8408 ppb	10:10:38
3	Cr 267.716†	534.0	455.4	4.8475 ug/L	4.8475 ppb	10:10:18
3	Cu 324.752†	10327.5	3681.9	10.547 ug/L	10.547 ppb	10:10:18
3	Mn 257.610†	10695.9	10413.3	10.660 ug/L	10.660 ppb	10:10:18
3	Mo 202.031†	157.3	157.6	10.749 ug/L	10.749 ppb	10:10:38
3	Ni 231.604†	306.9	229.7	5.2161 ug/L	5.2161 ppb	10:10:38
3	P 214.914†	522.2	298.0	149.47 ug/L	149.47 ppb	10:10:38
3	Pb 220.353†	31.9	103.7	11.408 ug/L	11.408 ppb	10:10:38
3	S 181.975 Axial†	138.2	89.0	107.67 ug/L	107.67 ppb	10:10:38
3	Sb 206.836†	76.7	42.6	13.503 ug/L	13.503 ppb	10:10:38
3	Se 196.026†	33.6	63.7	34.938 ug/L	34.938 ppb	10:10:38
3	Si 251.611†	3897.5	3484.5	103.54 ug/L	103.54 ppb	10:10:18
3	Sn 189.927†	83.0	67.0	10.920 ug/L	10.920 ppb	10:10:38
3	Ti 334.940†	1547.4	3272.4	5.0024 ug/L	5.0024 ppb	10:10:18
3	Tl 190.801†	35.0	78.9	22.617 ug/L	22.617 ppb	10:10:38
3	U 409.014†	-2726.8	1544.5	50.099 ug/L	50.099 ppb	10:10:18
3	V 292.402†	-1011.8	676.2	4.9229 ug/L	4.9229 ppb	10:10:18
3	Zn 213.857†	1899.9	1192.1	10.138 ug/L	10.138 ppb	10:10:38
3	SiO2†	3890.4	3434.3	218.90 ug/L	218.90 ppb	10:10:53

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	848318.0	98.099 %	0.1982			0.20%
Sc Radial	3987.8	101 %	0.5			0.51%
Y 371.029	677366.2	99.307 %	0.3115			0.31%
Y RADIAL	4514.5	99.47 %	0.618			0.62%
Ag 328.068†	1132.1	5.1464 ug/L	0.40493	5.1464 ppb	0.40493	7.87%
QC value within limits for Ag 328.068 Recovery = 102.93%						
Al 396.153Radial†	244.5	219.10 ug/L	4.461	219.10 ppb	4.461	2.04%
QC value within limits for Al 396.153Radial Recovery = 109.55%						
As 188.979†	87.1	33.273 ug/L	1.9878	33.273 ppb	1.9878	5.97%
QC value within limits for As 188.979 Recovery = 110.91%						
B 249.677†	2479.1	52.645 ug/L	0.5122	52.645 ppb	0.5122	0.97%
QC value within limits for B 249.677 Recovery = 105.29%						
Ba 233.527†	693.0	5.2346 ug/L	0.05036	5.2346 ppb	0.05036	0.96%
QC value within limits for Ba 233.527 Recovery = 104.69%						
Be 313.107†	15007.2	5.1284 ug/L	0.00959	5.1284 ppb	0.00959	0.19%
QC value within limits for Be 313.107 Recovery = 102.57%						
Ca 317.933Radial†	109.9	217.86 ug/L	5.352	217.86 ppb	5.352	2.46%

QC value within limits for Ca 317.933 Radial Recovery = 108.93%							
Cd 226.502†	483.0	5.0415 ug/L	0.14112	5.0415 ppb	0.14112	2.80%	
QC value within limits for Cd 226.502 Recovery = 100.83%							
Co 228.616†	268.2	4.9991 ug/L	0.14374	4.9991 ppb	0.14374	2.88%	
QC value within limits for Co 228.616 Recovery = 99.98%							
Cr 267.716†	491.3	5.2300 ug/L	0.40199	5.2300 ppb	0.40199	7.69%	
QC value within limits for Cr 267.716 Recovery = 104.60%							
Cu 324.752†	3685.6	10.556 ug/L	0.1239	10.556 ppb	0.1239	1.17%	
QC value within limits for Cu 324.752 Recovery = 105.56%							
Fe 238.204 Radial†	8.3	98.560 ug/L	22.8997	98.560 ppb	22.8997	23.23%	
QC value within limits for Fe 238.204 Radial Recovery = 98.56%							
K 766.490 Radial†	913.1	158.98 ug/L	25.947	158.98 ppb	25.947	16.32%	
QC value within limits for K 766.490 Radial Recovery = 105.99%							
Mg 279.077 IEC†	7.1	308.26 ug/L	40.368	308.26 ppb	40.368	13.10%	
QC value within limits for Mg 279.077 IEC Recovery = 102.75%							
Mn 257.610†	10386.2	10.630 ug/L	0.0301	10.630 ppb	0.0301	0.28%	
QC value within limits for Mn 257.610 Recovery = 106.30%							
Mo 202.031†	156.0	10.638 ug/L	0.3670	10.638 ppb	0.3670	3.45%	
QC value within limits for Mo 202.031 Recovery = 106.38%							
Na 589.592 Radial†	1057.0	303.08 ug/L	16.030	303.08 ppb	16.030	5.29%	
QC value within limits for Na 589.592 Radial Recovery = 101.03%							
Ni 231.604†	227.4	5.1645 ug/L	0.08993	5.1645 ppb	0.08993	1.74%	
QC value within limits for Ni 231.604 Recovery = 103.29%							
P 214.914†	304.7	152.88 ug/L	3.609	152.88 ppb	3.609	2.36%	
QC value within limits for P 214.914 Recovery = 101.92%							
Pb 220.353†	90.7	9.9846 ug/L	1.63750	9.9846 ppb	1.63750	16.40%	
QC value within limits for Pb 220.353 Recovery = 99.85%							
S 181.975 Axial†	84.9	102.72 ug/L	6.560	102.72 ppb	6.560	6.39%	
QC value within limits for S 181.975 Axial Recovery = 102.72%							
Sb 206.836†	41.1	13.033 ug/L	2.5898	13.033 ppb	2.5898	19.87%	
QC value greater than the upper limit for Sb 206.836 Recovery = 130.33%							
Se 196.026†	59.7	32.676 ug/L	2.0000	32.676 ppb	2.0000	6.12%	
QC value within limits for Se 196.026 Recovery = 108.92%							
Si 251.611†	3499.4	103.99 ug/L	0.388	103.99 ppb	0.388	0.37%	
QC value within limits for Si 251.611 Recovery = 103.99%							
Sn 189.927†	63.8	10.393 ug/L	0.8167	10.393 ppb	0.8167	7.86%	
QC value within limits for Sn 189.927 Recovery = 103.93%							
Sr 421.552†	769.0	5.1931 ug/L	0.00968	5.1931 ppb	0.00968	0.19%	
QC value within limits for Sr 421.552 Recovery = 103.86%							
Ti 334.940†	3272.5	5.0043 ug/L	0.03601	5.0043 ppb	0.03601	0.72%	
QC value within limits for Ti 334.940 Recovery = 100.09%							
Tl 190.801†	76.4	21.881 ug/L	1.2188	21.881 ppb	1.2188	5.57%	
QC value within limits for Tl 190.801 Recovery = 109.41%							
U 409.014†	1558.1	50.544 ug/L	3.3772	50.544 ppb	3.3772	6.68%	
QC value within limits for U 409.014 Recovery = 101.09%							
V 292.402†	669.9	4.8815 ug/L	0.28774	4.8815 ppb	0.28774	5.89%	
QC value within limits for V 292.402 Recovery = 97.63%							
Zn 213.857†	1199.1	10.201 ug/L	0.0572	10.201 ppb	0.0572	0.56%	
QC value within limits for Zn 213.857 Recovery = 102.01%							
SiO2†	3452.9	220.09 ug/L	2.011	220.09 ppb	2.011	0.91%	
QC value within limits for SiO2 Recovery = 103.33%							
QC Failed. Continue with analysis.							

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 2/3/2010 10:13:05

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	3654.5	3654.5	92.3 %		10:15:19
1	Y RADIAL	4018.7	4018.7	88.55 %		10:15:19
1	Al 396.153Radial†	544410.4	590113.1	530130 ug/L	530130 ppb	10:14:59
1	Ca 317.933Radial†	226696.6	245629.8	486990 ug/L	486990 ppb	10:14:59
1	Fe 238.204 Radial†	14367.2	15556.4	185280 ug/L	185280 ppb	10:15:19
1	K 766.490 Radial†	2691.7	-114.0	-182.77 ug/L	-182.77 ppb	10:14:59
1	Mg 279.077 IEC†	10378.0	11242.2	489050 ug/L	489050 ppb	10:15:19
1	Na 589.592 Radial†	-1387.8	81.3	23.319 ug/L	23.319 ppb	10:15:19
1	Sr 421.552†	526.1	569.7	0.2121 ug/L	0.2121 ppb	10:15:19
1	Sc 361.383	738717.5	738717.5	85.424 %		10:16:16
1	Y 371.029	571954.7	571954.7	83.853 %		10:16:16
1	Ag 328.068†	-9889.5	-12012.0	1.4427 ug/L	1.4427 ppb	10:16:16
1	As 188.979†	-115.3	-99.5	5.2983 ug/L	5.2983 ppb	10:16:36
1	B 249.677†	87.8	709.5	-15.016 ug/L	-15.016 ppb	10:16:16
1	Ba 233.527†	-649.0	-741.7	0.0828 ug/L	0.0828 ppb	10:16:36
1	Be 313.107†	-4122.3	-881.5	-0.3495 ug/L	-0.3495 ppb	10:16:16
1	Cd 226.502†	1189.3	1591.8	-2.5250 ug/L	-2.5250 ppb	10:16:36
1	Co 228.616†	-15.7	68.0	-1.4181 ug/L	-1.4181 ppb	10:16:36
1	Cr 267.716†	-130.9	-242.3	1.0262 ug/L	1.0262 ppb	10:16:36
1	Cu 324.752†	3630.2	-2598.7	2.3316 ug/L	2.3316 ppb	10:16:16
1	Mn 257.610†	645.9	263.6	-1.4344 ug/L	-1.4344 ppb	10:16:16
1	Mo 202.031†	-262.6	-310.2	-0.9560 ug/L	-0.9560 ppb	10:16:36
1	Ni 231.604†	205.7	157.6	3.5793 ug/L	3.5793 ppb	10:16:36
1	P 214.914†	218.2	21.0	-5.5597 ug/L	-5.5597 ppb	10:16:36
1	Pb 220.353†	-923.1	-1009.4	-5.7291 ug/L	-5.7291 ppb	10:16:36
1	S 181.975 Axial†	81.8	43.8	-46.381 ug/L	-46.381 ppb	10:16:36
1	Sb 206.836†	100.8	82.4	7.6346 ug/L	7.6346 ppb	10:16:36
1	Se 196.026†	-969.0	-1104.8	-34.653 ug/L	-34.653 ppb	10:16:36
1	Si 251.611†	388.2	-35.1	-0.7850 ug/L	-0.7850 ppb	10:16:36
1	Sn 189.927†	-348.4	-425.5	8.0398 ug/L	8.0398 ppb	10:16:36
1	Ti 334.940†	-13450.4	-14050.7	3.7734 ug/L	3.7734 ppb	10:16:16
1	Tl 190.801†	-95.4	-68.4	-19.773 ug/L	-19.773 ppb	10:16:36
1	U 409.014†	-2916.7	910.5	8.4309 ug/L	8.4309 ppb	10:16:16
1	V 292.402†	451.0	2235.8	-2.2338 ug/L	-2.2338 ppb	10:16:36
1	Zn 213.857†	3164.6	2959.4	7.3295 ug/L	7.3295 ppb	10:16:36
1	SiO2†	338.7	-135.9	-8.0992 ug/L	-8.0992 ppb	10:17:32
2	Sc Radial	3594.7	3594.7	90.8 %		10:15:44
2	Y RADIAL	3974.6	3974.6	87.58 %		10:15:44
2	Al 396.153Radial†	538841.8	593798.1	533440 ug/L	533440 ppb	10:15:24
2	Ca 317.933Radial†	224082.7	246839.1	489390 ug/L	489390 ppb	10:15:24
2	Fe 238.204 Radial†	14194.6	15625.3	186100 ug/L	186100 ppb	10:15:44
2	K 766.490 Radial†	2637.4	-125.3	-185.52 ug/L	-185.52 ppb	10:15:24
2	Mg 279.077 IEC†	10255.6	11294.6	491330 ug/L	491330 ppb	10:15:44
2	Na 589.592 Radial†	-1420.9	19.9	5.6973 ug/L	5.6973 ppb	10:15:44
2	Sr 421.552†	516.8	568.8	0.1884 ug/L	0.1884 ppb	10:15:44
2	Sc 361.383	745645.9	745645.9	86.226 %		10:16:41
2	Y 371.029	578706.3	578706.3	84.843 %		10:16:41
2	Ag 328.068†	-9669.9	-11649.8	3.3203 ug/L	3.3203 ppb	10:16:41
2	As 188.979†	-91.4	-70.5	16.557 ug/L	16.557 ppb	10:17:01
2	B 249.677†	94.4	716.2	-15.007 ug/L	-15.007 ppb	10:16:41
2	Ba 233.527†	-660.6	-748.1	0.0590 ug/L	0.0590 ppb	10:17:01
2	Be 313.107†	-4258.2	-994.3	-0.3880 ug/L	-0.3880 ppb	10:16:41
2	Cd 226.502†	1201.5	1593.0	-2.5940 ug/L	-2.5940 ppb	10:17:01
2	Co 228.616†	-19.4	63.9	-1.5111 ug/L	-1.5111 ppb	10:17:01
2	Cr 267.716†	-148.6	-261.4	0.8330 ug/L	0.8330 ppb	10:17:01
2	Cu 324.752†	3705.2	-2551.2	2.5044 ug/L	2.5044 ppb	10:16:41
2	Mn 257.610†	727.6	351.4	-1.3567 ug/L	-1.3567 ppb	10:16:41
2	Mo 202.031†	-291.4	-340.8	-2.9484 ug/L	-2.9484 ppb	10:17:01
2	Ni 231.604†	234.2	188.4	4.2804 ug/L	4.2804 ppb	10:17:01

2	P 214.914†	226.4	28.1	-1.8387 ug/L	-1.8387 ppb	10:17:01
2	Pb 220.353†	-939.9	-1018.9	-6.0986 ug/L	-6.0986 ppb	10:17:01
2	S 181.975 Axial†	71.2	30.6	-62.890 ug/L	-62.890 ppb	10:17:01
2	Sb 206.836†	84.5	62.5	1.2922 ug/L	1.2922 ppb	10:17:01
2	Se 196.026†	-984.3	-1112.1	-36.132 ug/L	-36.132 ppb	10:17:01
2	Si 251.611†	408.2	-16.2	-0.1957 ug/L	-0.1957 ppb	10:17:01
2	Sn 189.927†	-368.3	-444.7	5.2936 ug/L	5.2936 ppb	10:17:01
2	Ti 334.940†	-13567.3	-14040.1	3.9195 ug/L	3.9195 ppb	10:16:41
2	Tl 190.801†	-80.5	-50.2	-14.550 ug/L	-14.550 ppb	10:17:01
2	U 409.014†	-2603.6	1305.2	21.149 ug/L	21.149 ppb	10:16:41
2	V 292.402†	431.0	2207.7	-2.5094 ug/L	-2.5094 ppb	10:17:01
2	Zn 213.857†	3170.3	2931.6	7.0074 ug/L	7.0074 ppb	10:17:01
2	SiO2†	838.2	439.7	28.698 ug/L	28.698 ppb	10:17:37
3	Sc Radial	3620.7	3620.7	91.4 %		10:16:09
3	Y RADIAL	3997.8	3997.8	88.09 %		10:16:09
3	Al 396.153Radial†	531228.5	581210.4	522130 ug/L	522130 ppb	10:15:49
3	Ca 317.933Radial†	220886.0	241570.9	478950 ug/L	478950 ppb	10:15:49
3	Fe 238.204 Radial†	14237.6	15560.1	185320 ug/L	185320 ppb	10:16:09
3	K 766.490 Radial†	2644.2	-138.8	-184.39 ug/L	-184.39 ppb	10:15:49
3	Mg 279.077 IEC†	10294.4	11255.9	489650 ug/L	489650 ppb	10:16:09
3	Na 589.592 Radial†	-1388.9	66.1	18.944 ug/L	18.944 ppb	10:16:09
3	Sr 421.552†	502.8	549.5	0.1357 ug/L	0.1357 ppb	10:16:09
3	Sc 361.383	737054.4	737054.4	85.232 %		10:17:07
3	Y 371.029	570823.1	570823.1	83.687 %		10:17:07
3	Ag 328.068†	-9809.7	-11944.6	1.8749 ug/L	1.8749 ppb	10:17:07
3	As 188.979†	-102.2	-84.4	11.081 ug/L	11.081 ppb	10:17:27
3	B 249.677†	179.0	816.8	-12.743 ug/L	-12.743 ppb	10:17:07
3	Ba 233.527†	-639.4	-732.2	0.1563 ug/L	0.1563 ppb	10:17:27
3	Be 313.107†	-4286.8	-1085.5	-0.4184 ug/L	-0.4184 ppb	10:17:07
3	Cd 226.502†	1218.3	1629.0	-2.1411 ug/L	-2.1411 ppb	10:17:27
3	Co 228.616†	-38.5	41.2	-1.9167 ug/L	-1.9167 ppb	10:17:27
3	Cr 267.716†	-127.0	-238.1	1.0724 ug/L	1.0724 ppb	10:17:27
3	Cu 324.752†	3810.1	-2378.0	2.9682 ug/L	2.9682 ppb	10:17:07
3	Mn 257.610†	668.2	291.6	-1.4259 ug/L	-1.4259 ppb	10:17:07
3	Mo 202.031†	-263.2	-311.7	-1.1500 ug/L	-1.1500 ppb	10:17:27
3	Ni 231.604†	226.6	182.7	4.1510 ug/L	4.1510 ppb	10:17:27
3	P 214.914†	193.1	-7.9	-22.433 ug/L	-22.433 ppb	10:17:27
3	Pb 220.353†	-918.8	-1006.8	-7.3114 ug/L	-7.3114 ppb	10:17:27
3	S 181.975 Axial†	72.4	33.0	-57.875 ug/L	-57.875 ppb	10:17:27
3	Sb 206.836†	91.5	71.8	4.5179 ug/L	4.5179 ppb	10:17:27
3	Se 196.026†	-972.4	-1111.3	-37.960 ug/L	-37.960 ppb	10:17:27
3	Si 251.611†	406.6	-12.5	-0.1102 ug/L	-0.1102 ppb	10:17:27
3	Sn 189.927†	-364.0	-444.7	3.6901 ug/L	3.6901 ppb	10:17:27
3	Ti 334.940†	-13243.2	-13843.2	2.9644 ug/L	2.9644 ppb	10:17:07
3	Tl 190.801†	-93.6	-66.6	-19.252 ug/L	-19.252 ppb	10:17:27
3	U 409.014†	-2948.7	865.1	6.9546 ug/L	6.9546 ppb	10:17:07
3	V 292.402†	455.1	2241.8	-2.1921 ug/L	-2.1921 ppb	10:17:27
3	Zn 213.857†	3147.0	2947.2	7.2156 ug/L	7.2156 ppb	10:17:27
3	SiO2†	620.2	195.2	13.039 ug/L	13.039 ppb	10:17:42

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	740472.6	85.627 %	0.5269			0.62%
Sc Radial	3623.3	91.5 %	0.76			0.83%
Y 371.029	573828.1	84.128 %	0.6249			0.74%
Y RADIAL	3997.0	88.07 %	0.486			0.55%
Ag 328.068†	-11868.8	2.2126 ug/L	0.98330	2.2126 ppb	0.98330	44.44%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	588373.8	528570 ug/L	5813.8	528570 ppb	5813.8	1.10%
QC value within limits for Al 396.153Radial Recovery = 105.71%						
As 188.979†	-84.8	10.979 ug/L	5.6301	10.979 ppb	5.6301	51.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	747.5	-14.255 ug/L	1.3097	-14.255 ppb	1.3097	9.19%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-740.7	0.0994 ug/L	0.05073	0.0994 ppb	0.05073	51.04%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-987.1	-0.3853 ug/L	0.03449	-0.3853 ppb	0.03449	8.95%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	244679.9	485110 ug/L	5471.2	485110 ppb	5471.2	1.13%

QC value within limits for Ca 317.933 Radial Recovery = 97.02%

Cd 226.502†	1604.6	-2.4200 ug/L	0.24404	-2.4200 ppb	0.24404	10.08%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	57.7	-1.6153 ug/L	0.26512	-1.6153 ppb	0.26512	16.41%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-247.3	0.9772 ug/L	0.12700	0.9772 ppb	0.12700	13.00%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2509.3	2.6014 ug/L	0.32923	2.6014 ppb	0.32923	12.66%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	15580.6	185570 ug/L	461.6	185570 ppb	461.6	0.25%
QC value within limits for Fe 238.204 Radial Recovery = 92.78%						
K 766.490 Radial†	-126.0	-184.23 ug/L	1.386	-184.23 ppb	1.386	0.75%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	11264.2	490010 ug/L	1182.0	490010 ppb	1182.0	0.24%
QC value within limits for Mg 279.077 IEC Recovery = 98.00%						
Mn 257.610†	302.2	-1.4057 ug/L	0.04263	-1.4057 ppb	0.04263	3.03%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-320.9	-1.6848 ug/L	1.09861	-1.6848 ppb	1.09861	65.21%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	55.8	15.987 ug/L	9.1754	15.987 ppb	9.1754	57.39%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	176.2	4.0036 ug/L	0.37310	4.0036 ppb	0.37310	9.32%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	13.7	-9.9439 ug/L	10.97496	-9.9439 ppb	10.97496	110.37%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-1011.7	-6.3797 ug/L	0.82775	-6.3797 ppb	0.82775	12.97%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	35.8	-55.715 ug/L	8.4636	-55.715 ppb	8.4636	15.19%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	72.2	4.4816 ug/L	3.17136	4.4816 ppb	3.17136	70.76%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1109.4	-36.249 ug/L	1.6565	-36.249 ppb	1.6565	4.57%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-21.3	-0.3636 ug/L	0.36739	-0.3636 ppb	0.36739	101.03%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-438.3	5.6745 ug/L	2.19973	5.6745 ppb	2.19973	38.77%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	562.7	0.1787 ug/L	0.03912	0.1787 ppb	0.03912	21.89%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-13978.0	3.5524 ug/L	0.51444	3.5524 ppb	0.51444	14.48%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-61.8	-17.858 ug/L	2.8770	-17.858 ppb	2.8770	16.11%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	1026.9	12.178 ug/L	7.8037	12.178 ppb	7.8037	64.08%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	2228.4	-2.3118 ug/L	0.17243	-2.3118 ppb	0.17243	7.46%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2946.1	7.1842 ug/L	0.16334	7.1842 ppb	0.16334	2.27%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	166.3	11.212 ug/L	18.4663	11.212 ppb	18.4663	164.69%
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: 2/3/2010 10:19:54

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	3635.2	3635.2	91.8 %		10:22:06
1	Y RADIAL	4009.8	4009.8	88.35 %		10:22:06
1	Al 396.153Radial†	535703.1	583765.1	524410 ug/L	524410 ppb	10:21:46
1	Ca 317.933Radial†	223942.1	243935.6	483640 ug/L	483640 ppb	10:21:46
1	Fe 238.204 Radial†	14602.9	15895.9	189340 ug/L	189340 ppb	10:22:06
1	K 766.490 Radial†	31121.9	30872.0	5217.8 ug/L	5217.8 ppb	10:21:46
1	Mg 279.077 IEC†	10461.7	11393.2	495620 ug/L	495620 ppb	10:22:06
1	Na 589.592 Radial†	15613.6	18593.8	5331.5 ug/L	5331.5 ppb	10:21:46
1	Sr 421.552†	67406.8	73429.3	492.44 ug/L	492.44 ppb	10:21:46
1	Sc 361.383	756509.8	756509.8	87.482 %		10:23:05
1	Y 371.029	584077.3	584077.3	85.630 %		10:23:05
1	Ag 328.068†	41460.3	46957.9	272.11 ug/L	272.11 ppb	10:23:05
1	As 188.979†	1058.5	1245.4	522.38 ug/L	522.38 ppb	10:23:25
1	B 249.677†	21229.9	24874.5	496.51 ug/L	496.51 ppb	10:23:05
1	Ba 233.527†	55750.8	63746.4	487.19 ug/L	487.19 ppb	10:23:05
1	Be 313.107†	618441.7	710880.6	243.47 ug/L	243.47 ppb	10:23:05
1	Cd 226.502†	40508.8	46505.0	465.95 ug/L	465.95 ppb	10:23:05
1	Co 228.616†	20718.4	23769.5	439.28 ug/L	439.28 ppb	10:23:25
1	Cr 267.716†	39283.6	44815.8	482.31 ug/L	482.31 ppb	10:23:05
1	Cu 324.752†	170367.4	187897.5	549.04 ug/L	549.04 ppb	10:23:05
1	Mn 257.610†	407636.0	465473.6	474.97 ug/L	474.97 ppb	10:23:05
1	Mo 202.031†	5883.7	6722.8	478.49 ug/L	478.49 ppb	10:23:25
1	Ni 231.604†	17354.2	19754.3	448.58 ug/L	448.58 ppb	10:23:25
1	P 214.914†	4481.1	4887.8	2359.8 ug/L	2359.8 ppb	10:23:25
1	Pb 220.353†	2740.6	3203.9	454.41 ug/L	454.41 ppb	10:23:25
1	S 181.975 Axial†	1942.9	2169.0	2526.3 ug/L	2526.3 ppb	10:23:25
1	Sb 206.836†	1531.1	1714.7	527.55 ug/L	527.55 ppb	10:23:25
1	Se 196.026†	3015.5	3476.5	2461.6 ug/L	2461.6 ppb	10:23:25
1	Si 251.611†	149993.4	170966.9	5081.2 ug/L	5081.2 ppb	10:23:05
1	Sn 189.927†	2198.6	2495.6	481.88 ug/L	481.88 ppb	10:23:25
1	Ti 334.940†	271244.7	311752.6	502.61 ug/L	502.61 ppb	10:23:05
1	Tl 190.801†	1287.0	1514.3	436.10 ug/L	436.10 ppb	10:23:25
1	U 409.014†	10692.3	16547.0	514.35 ug/L	514.35 ppb	10:23:05
1	V 292.402†	62964.6	73682.2	500.29 ug/L	500.29 ppb	10:23:05
1	Zn 213.857†	53507.2	60418.7	494.87 ug/L	494.87 ppb	10:23:05
1	SiO2†	149301.8	170133.4	10846 ug/L	10846 ppb	10:24:22
2	Sc Radial	3633.2	3633.2	91.7 %		10:22:32
2	Y RADIAL	3984.6	3984.6	87.80 %		10:22:32
2	Al 396.153Radial†	534658.8	582939.5	523660 ug/L	523660 ppb	10:22:12
2	Ca 317.933Radial†	223663.7	243762.8	483290 ug/L	483290 ppb	10:22:12
2	Fe 238.204 Radial†	14491.4	15782.8	187990 ug/L	187990 ppb	10:22:32
2	K 766.490 Radial†	31046.7	30808.2	5206.8 ug/L	5206.8 ppb	10:22:12
2	Mg 279.077 IEC†	10377.4	11307.3	491890 ug/L	491890 ppb	10:22:32
2	Na 589.592 Radial†	15650.1	18642.7	5345.5 ug/L	5345.5 ppb	10:22:12
2	Sr 421.552†	67385.0	73444.8	492.55 ug/L	492.55 ppb	10:22:12
2	Sc 361.383	762643.1	762643.1	88.191 %		10:23:31
2	Y 371.029	589854.1	589854.1	86.477 %		10:23:31
2	Ag 328.068†	41792.7	46953.6	271.63 ug/L	271.63 ppb	10:23:31
2	As 188.979†	1051.3	1227.5	515.25 ug/L	515.25 ppb	10:23:51
2	B 249.677†	21392.5	24863.8	496.52 ug/L	496.52 ppb	10:23:31
2	Ba 233.527†	56013.0	63531.2	485.52 ug/L	485.52 ppb	10:23:31
2	Be 313.107†	622382.1	709663.4	243.06 ug/L	243.06 ppb	10:23:31
2	Cd 226.502†	40722.4	46374.8	464.73 ug/L	464.73 ppb	10:23:31
2	Co 228.616†	20630.7	23479.6	433.90 ug/L	433.90 ppb	10:23:51
2	Cr 267.716†	39391.3	44576.7	479.73 ug/L	479.73 ppb	10:23:31
2	Cu 324.752†	171443.2	187551.3	547.97 ug/L	547.97 ppb	10:23:31
2	Mn 257.610†	409625.7	463982.3	473.46 ug/L	473.46 ppb	10:23:31
2	Mo 202.031†	5880.9	6665.5	474.48 ug/L	474.48 ppb	10:23:51
2	Ni 231.604†	17241.2	19466.6	442.05 ug/L	442.05 ppb	10:23:51

2	P 214.914†	4459.3	4821.9	2327.4 ug/L	2327.4 ppb	10:23:51
2	Pb 220.353†	2684.6	3115.2	444.66 ug/L	444.66 ppb	10:23:51
2	S 181.975 Axial†	1915.5	2120.1	2467.2 ug/L	2467.2 ppb	10:23:51
2	Sb 206.836†	1509.5	1676.0	515.57 ug/L	515.57 ppb	10:23:51
2	Se 196.026†	2999.8	3430.9	2432.8 ug/L	2432.8 ppb	10:23:51
2	Si 251.611†	150708.8	170399.2	5064.4 ug/L	5064.4 ppb	10:23:31
2	Sn 189.927†	2209.3	2487.5	480.49 ug/L	480.49 ppb	10:23:51
2	Ti 334.940†	273315.3	311607.0	502.65 ug/L	502.65 ppb	10:23:31
2	Tl 190.801†	1305.8	1523.9	438.84 ug/L	438.84 ppb	10:23:51
2	U 409.014†	10895.2	16678.9	518.79 ug/L	518.79 ppb	10:23:31
2	V 292.402†	63274.2	73454.5	498.79 ug/L	498.79 ppb	10:23:31
2	Zn 213.857†	53925.5	60401.1	494.89 ug/L	494.89 ppb	10:23:31
2	SiO2†	149959.9	169507.1	10806 ug/L	10806 ppb	10:24:28
3	Sc Radial	3637.5	3637.5	91.9 %		10:22:57
3	Y RADIAL	4009.7	4009.7	88.35 %		10:22:57
3	Al 396.153Radial†	535171.9	582806.7	523550 ug/L	523550 ppb	10:22:37
3	Ca 317.933Radial†	223578.5	243380.8	482540 ug/L	482540 ppb	10:22:37
3	Fe 238.204 Radial†	14536.7	15813.5	188350 ug/L	188350 ppb	10:22:57
3	K 766.490 Radial†	31082.8	30807.3	5206.9 ug/L	5206.9 ppb	10:22:37
3	Mg 279.077 IEC†	10430.4	11351.7	493820 ug/L	493820 ppb	10:22:57
3	Na 589.592 Radial†	15631.7	18602.4	5334.0 ug/L	5334.0 ppb	10:22:37
3	Sr 421.552†	67420.3	73396.2	492.22 ug/L	492.22 ppb	10:22:37
3	Sc 361.383	751352.9	751352.9	86.886 %		10:23:57
3	Y 371.029	579303.8	579303.8	84.930 %		10:23:57
3	Ag 328.068†	41361.7	47169.7	272.75 ug/L	272.75 ppb	10:23:57
3	As 188.979†	1046.3	1239.7	519.97 ug/L	519.97 ppb	10:24:17
3	B 249.677†	21107.8	24900.5	497.22 ug/L	497.22 ppb	10:23:57
3	Ba 233.527†	55547.2	63949.5	488.69 ug/L	488.69 ppb	10:23:57
3	Be 313.107†	611843.6	708138.7	242.54 ug/L	242.54 ppb	10:23:57
3	Cd 226.502†	40330.1	46617.1	467.23 ug/L	467.23 ppb	10:23:57
3	Co 228.616†	20694.8	23904.9	441.82 ug/L	441.82 ppb	10:24:17
3	Cr 267.716†	39104.8	44918.2	483.38 ug/L	483.38 ppb	10:23:57
3	Cu 324.752†	169312.5	188020.1	549.34 ug/L	549.34 ppb	10:23:57
3	Mn 257.610†	409275.0	470558.1	480.15 ug/L	480.15 ppb	10:23:57
3	Mo 202.031†	5880.5	6765.3	481.30 ug/L	481.30 ppb	10:24:17
3	Ni 231.604†	17347.2	19882.4	451.49 ug/L	451.49 ppb	10:24:17
3	P 214.914†	4471.5	4912.0	2372.6 ug/L	2372.6 ppb	10:24:17
3	Pb 220.353†	2724.3	3206.7	454.61 ug/L	454.61 ppb	10:24:17
3	S 181.975 Axial†	1923.2	2161.6	2517.5 ug/L	2517.5 ppb	10:24:17
3	Sb 206.836†	1528.3	1723.4	530.40 ug/L	530.40 ppb	10:24:17
3	Se 196.026†	3025.7	3511.9	2477.8 ug/L	2477.8 ppb	10:24:17
3	Si 251.611†	150146.4	172319.7	5121.4 ug/L	5121.4 ppb	10:23:57
3	Sn 189.927†	2210.3	2526.2	486.67 ug/L	486.67 ppb	10:24:17
3	Ti 334.940†	269790.5	312207.0	503.31 ug/L	503.31 ppb	10:23:57
3	Tl 190.801†	1297.5	1536.6	442.49 ug/L	442.49 ppb	10:24:17
3	U 409.014†	10585.1	16507.6	513.18 ug/L	513.18 ppb	10:23:57
3	V 292.402†	62518.9	73663.3	500.31 ug/L	500.31 ppb	10:23:57
3	Zn 213.857†	53458.4	60782.2	498.06 ug/L	498.06 ppb	10:23:57
3	SiO2†	148472.2	170350.0	10860 ug/L	10860 ppb	10:24:33

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	756835.3	87.520 %	0.6536			0.75%
Sc Radial	3635.3	91.8 %	0.05			0.06%
Y 371.029	584411.7	85.679 %	0.7745			0.90%
Y RADIAL	4001.3	88.17 %	0.320			0.36%
Ag 328.068†	47027.1	272.16 ug/L	0.564	272.16 ppb	0.564	0.21%
QC value within limits for Ag 328.068 Recovery = 108.86%						
Al 396.153Radial†	583170.5	523870 ug/L	466.5	523870 ppb	466.5	0.09%
QC value within limits for Al 396.153Radial Recovery = 104.77%						
As 188.979†	1237.5	519.20 ug/L	3.628	519.20 ppb	3.628	0.70%
QC value within limits for As 188.979 Recovery = 103.84%						
B 249.677†	24879.6	496.75 ug/L	0.405	496.75 ppb	0.405	0.08%
QC value within limits for B 249.677 Recovery = 99.35%						
Ba 233.527†	63742.3	487.13 ug/L	1.584	487.13 ppb	1.584	0.33%
QC value within limits for Ba 233.527 Recovery = 97.43%						
Be 313.107†	709560.9	243.02 ug/L	0.468	243.02 ppb	0.468	0.19%
QC value within limits for Be 313.107 Recovery = 97.21%						
Ca 317.933Radial†	243693.1	483150 ug/L	562.8	483150 ppb	562.8	0.12%

QC value within limits for Ca 317.933 Radial Recovery = 96.63%							
Cd	226.502†	46499.0	465.97 ug/L	1.248	465.97 ppb	1.248	0.27%
QC value within limits for Cd 226.502 Recovery = 93.19%							
Co	228.616†	23718.0	438.33 ug/L	4.042	438.33 ppb	4.042	0.92%
QC value within limits for Co 228.616 Recovery = 87.67%							
Cr	267.716†	44770.2	481.81 ug/L	1.878	481.81 ppb	1.878	0.39%
QC value within limits for Cr 267.716 Recovery = 96.36%							
Cu	324.752†	187823.0	548.78 ug/L	0.719	548.78 ppb	0.719	0.13%
QC value within limits for Cu 324.752 Recovery = 109.76%							
Fe	238.204 Radial†	15830.7	188560 ug/L	696.5	188560 ppb	696.5	0.37%
QC value within limits for Fe 238.204 Radial Recovery = 94.28%							
K	766.490 Radial†	30829.2	5210.5 ug/L	6.33	5210.5 ppb	6.33	0.12%
QC value within limits for K 766.490 Radial Recovery = 104.21%							
Mg	279.077 IEC†	11350.7	493770 ug/L	1867.6	493770 ppb	1867.6	0.38%
QC value within limits for Mg 279.077 IEC Recovery = 98.75%							
Mn	257.610†	466671.3	476.19 ug/L	3.509	476.19 ppb	3.509	0.74%
QC value within limits for Mn 257.610 Recovery = 95.24%							
Mo	202.031†	6717.9	478.09 ug/L	3.427	478.09 ppb	3.427	0.72%
QC value within limits for Mo 202.031 Recovery = 95.62%							
Na	589.592 Radial†	18613.0	5337.0 ug/L	7.48	5337.0 ppb	7.48	0.14%
QC value within limits for Na 589.592 Radial Recovery = 106.74%							
Ni	231.604†	19701.1	447.37 ug/L	4.836	447.37 ppb	4.836	1.08%
QC value within limits for Ni 231.604 Recovery = 89.47%							
P	214.914†	4873.9	2353.3 ug/L	23.32	2353.3 ppb	23.32	0.99%
QC value within limits for P 214.914 Recovery = 94.13%							
Pb	220.353†	3175.3	451.23 ug/L	5.687	451.23 ppb	5.687	1.26%
QC value within limits for Pb 220.353 Recovery = 90.25%							
S	181.975 Axial†	2150.2	2503.7 ug/L	31.88	2503.7 ppb	31.88	1.27%
QC value within limits for S 181.975 Axial Recovery = 100.15%							
Sb	206.836†	1704.7	524.50 ug/L	7.869	524.50 ppb	7.869	1.50%
QC value within limits for Sb 206.836 Recovery = 104.90%							
Se	196.026†	3473.1	2457.4 ug/L	22.81	2457.4 ppb	22.81	0.93%
QC value within limits for Se 196.026 Recovery = 98.30%							
Si	251.611†	171228.6	5089.0 ug/L	29.32	5089.0 ppb	29.32	0.58%
QC value within limits for Si 251.611 Recovery = 101.78%							
Sn	189.927†	2503.1	483.02 ug/L	3.244	483.02 ppb	3.244	0.67%
QC value within limits for Sn 189.927 Recovery = 96.60%							
Sr	421.552†	73423.4	492.40 ug/L	0.165	492.40 ppb	0.165	0.03%
QC value within limits for Sr 421.552 Recovery = 98.48%							
Ti	334.940†	311855.5	502.86 ug/L	0.393	502.86 ppb	0.393	0.08%
QC value within limits for Ti 334.940 Recovery = 100.57%							
Tl	190.801†	1524.9	439.14 ug/L	3.202	439.14 ppb	3.202	0.73%
QC value within limits for Tl 190.801 Recovery = 87.83%							
U	409.014†	16577.8	515.44 ug/L	2.959	515.44 ppb	2.959	0.57%
QC value within limits for U 409.014 Recovery = 103.09%							
V	292.402†	73600.0	499.80 ug/L	0.872	499.80 ppb	0.872	0.17%
QC value within limits for V 292.402 Recovery = 99.96%							
Zn	213.857†	60534.0	495.94 ug/L	1.833	495.94 ppb	1.833	0.37%
QC value within limits for Zn 213.857 Recovery = 99.19%							
SiO2†		169996.8	10837 ug/L	27.8	10837 ppb	27.8	0.26%
QC value within limits for SiO2 Recovery = 101.33%							

All analyte(s) passed QC.

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

Autosampler Location: 15
 Date Collected: 2/3/2010 10:26:43
 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	3435.1	3435.1	86.7 %		10:28:56
1	Y RADIAL	3790.6	3790.6	83.52 %		10:28:56
1	Al 396.153Radial†	508107.0	585948.9	526390 ug/L	526390 ppb	10:28:36
1	Ca 317.933Radial†	214631.9	247414.5	490530 ug/L	490530 ppb	10:28:36
1	Fe 238.204 Radial†	32845.6	37853.1	450840 ug/L	450840 ppb	10:28:56
1	K 766.490 Radial†	3868.1	1428.5	-119.73 ug/L	-119.73 ppb	10:28:36
1	Mg 279.077 IEC†	9864.2	11368.3	494260 ug/L	494260 ppb	10:28:56
1	Na 589.592 Radial†	1586653.0	1830701.8	524920 ug/L	524920 ppb	10:28:36
1	Sr 421.552†	721.4	831.2	1.9524 ug/L	1.9524 ppb	10:28:56
1	Sc 361.383	727358.3	727358.3	84.111 %		10:29:55
1	Y 371.029	565376.7	565376.7	82.889 %		10:29:55
1	Ag 328.068†	-23518.6	-28396.6	5.3235 ug/L	5.3235 ppb	10:29:55
1	As 188.979†	-213.9	-218.8	22.139 ug/L	22.139 ppb	10:30:15
1	B 249.677†	1027.8	1828.8	-34.374 ug/L	-34.374 ppb	10:29:55
1	Ba 233.527†	-1767.1	-2082.9	-1.9113 ug/L	-1.9113 ppb	10:30:15
1	Be 313.107†	-9311.0	-7125.9	-2.4577 ug/L	-2.4577 ppb	10:29:55
1	Cd 226.502†	3109.1	3896.0	-3.1956 ug/L	-3.1956 ppb	10:30:15
1	Co 228.616†	211.4	337.7	-0.3167 ug/L	-0.3167 ppb	10:30:15
1	Cr 267.716†	-79.5	-183.6	1.2936 ug/L	1.2936 ppb	10:30:15
1	Cu 324.752†	486.4	-6270.1	-1.8860 ug/L	-1.8860 ppb	10:29:55
1	Mn 257.610†	-23327.7	-28226.9	-4.5988 ug/L	-4.5988 ppb	10:29:55
1	Mo 202.031†	-544.8	-650.5	-3.4843 ug/L	-3.4843 ppb	10:30:15
1	Ni 231.604†	305.3	279.8	6.3542 ug/L	6.3542 ppb	10:30:15
1	P 214.914†	583.6	459.4	4.4997 ug/L	4.4997 ppb	10:30:15
1	Pb 220.353†	-636.6	-685.6	3.5306 ug/L	3.5306 ppb	10:30:15
1	S 181.975 Axial†	101.3	68.5	-15.792 ug/L	-15.792 ppb	10:30:15
1	Sb 206.836†	65.6	42.4	-8.1387 ug/L	-8.1387 ppb	10:30:15
1	Se 196.026†	-2246.6	-2641.5	-47.636 ug/L	-47.636 ppb	10:30:15
1	Si 251.611†	-505.0	-1089.9	-31.883 ug/L	-31.883 ppb	10:30:15
1	Sn 189.927†	-386.7	-477.4	4.6122 ug/L	4.6122 ppb	10:30:15
1	Ti 334.940†	-8180.5	-8031.3	6.9048 ug/L	6.9048 ppb	10:29:55
1	Tl 190.801†	-119.5	-98.8	-28.567 ug/L	-28.567 ppb	10:30:15
1	U 409.014†	359290.7	431488.0	13952 ug/L	13952 ppb	10:29:55
1	V 292.402†	2166.1	4283.1	-0.1875 ug/L	-0.1875 ppb	10:30:15
1	Zn 213.857†	5821.8	6176.5	9.0845 ug/L	9.0845 ppb	10:30:15
1	SiO2†	-461.5	-1081.1	-67.795 ug/L	-67.795 ppb	10:31:12
2	Sc Radial	3434.1	3434.1	86.7 %		10:29:22
2	Y RADIAL	3790.9	3790.9	83.53 %		10:29:22
2	Al 396.153Radial†	503932.0	581296.8	522210 ug/L	522210 ppb	10:29:02
2	Ca 317.933Radial†	212435.5	244950.4	485650 ug/L	485650 ppb	10:29:22
2	Fe 238.204 Radial†	32680.1	37672.7	448690 ug/L	448690 ppb	10:29:02
2	K 766.490 Radial†	4132.5	1734.6	-62.946 ug/L	-62.946 ppb	10:29:02
2	Mg 279.077 IEC†	9820.3	11320.8	492190 ug/L	492190 ppb	10:29:22
2	Na 589.592 Radial†	1572322.8	1814683.8	520330 ug/L	520330 ppb	10:29:02
2	Sr 421.552†	701.4	808.4	1.8348 ug/L	1.8348 ppb	10:29:22
2	Sc 361.383	713039.0	713039.0	82.455 %		10:30:20
2	Y 371.029	554942.6	554942.6	81.359 %		10:30:20
2	Ag 328.068†	-23023.8	-28358.0	4.7941 ug/L	4.7941 ppb	10:30:20
2	As 188.979†	-221.8	-233.5	16.042 ug/L	16.042 ppb	10:30:41
2	B 249.677†	966.6	1779.1	-35.080 ug/L	-35.080 ppb	10:30:20
2	Ba 233.527†	-1723.1	-2071.8	-1.8924 ug/L	-1.8924 ppb	10:30:41
2	Be 313.107†	-9209.5	-7225.1	-2.4905 ug/L	-2.4905 ppb	10:30:20
2	Cd 226.502†	3055.0	3904.7	-2.8727 ug/L	-2.8727 ppb	10:30:41
2	Co 228.616†	195.7	323.8	-0.5428 ug/L	-0.5428 ppb	10:30:41
2	Cr 267.716†	-142.7	-262.1	0.3920 ug/L	0.3920 ppb	10:30:41
2	Cu 324.752†	341.0	-6434.8	-2.5042 ug/L	-2.5042 ppb	10:30:20
2	Mn 257.610†	-23015.9	-28405.7	-4.9094 ug/L	-4.9094 ppb	10:30:20
2	Mo 202.031†	-520.8	-634.4	-2.6140 ug/L	-2.6140 ppb	10:30:41
2	Ni 231.604†	258.4	230.2	5.2262 ug/L	5.2262 ppb	10:30:41

2	P 214.914†	579.1	467.9	9.5741 ug/L	9.5741 ppb	10:30:41
2	Pb 220.353†	-646.5	-712.9	-0.2282 ug/L	-0.2282 ppb	10:30:41
2	S 181.975 Axial†	92.0	59.6	-25.745 ug/L	-25.745 ppb	10:30:41
2	Sb 206.836†	93.1	77.3	2.7024 ug/L	2.7024 ppb	10:30:41
2	Se 196.026†	-2256.4	-2707.0	-89.689 ug/L	-89.689 ppb	10:30:41
2	Si 251.611†	-512.3	-1110.8	-32.519 ug/L	-32.519 ppb	10:30:41
2	Sn 189.927†	-399.9	-502.6	-0.2511 ug/L	-0.2511 ppb	10:30:41
2	Ti 334.940†	-7794.5	-7758.4	6.8125 ug/L	6.8125 ppb	10:30:20
2	Tl 190.801†	-117.8	-99.7	-28.802 ug/L	-28.802 ppb	10:30:41
2	U 409.014†	353671.8	433251.7	14009 ug/L	14009 ppb	10:30:20
2	V 292.402†	2151.8	4317.5	0.4490 ug/L	0.4490 ppb	10:30:41
2	Zn 213.857†	5705.0	6173.8	9.2780 ug/L	9.2780 ppb	10:30:41
2	SiO2†	-582.1	-1238.3	-77.859 ug/L	-77.859 ppb	10:31:17
3	Sc Radial	3476.5	3476.5	87.8 %		10:29:48
3	Y RADIAL	3845.9	3845.9	84.74 %		10:29:48
3	Al 396.153Radial†	498024.1	567483.1	509800 ug/L	509800 ppb	10:29:28
3	Ca 317.933Radial†	209646.1	238786.5	473430 ug/L	473430 ppb	10:29:28
3	Fe 238.204 Radial†	33000.5	37578.3	447570 ug/L	447570 ppb	10:29:48
3	K 766.490 Radial†	5041.8	2712.3	117.19 ug/L	117.19 ppb	10:29:28
3	Mg 279.077 IEC†	9915.1	11290.8	490890 ug/L	490890 ppb	10:29:48
3	Na 589.592 Radial†	1547872.4	1764729.5	506010 ug/L	506010 ppb	10:29:28
3	Sr 421.552†	731.8	833.2	2.0934 ug/L	2.0934 ppb	10:29:48
3	Sc 361.383	722382.2	722382.2	83.535 %		10:30:46
3	Y 371.029	561027.5	561027.5	82.251 %		10:30:46
3	Ag 328.068†	-23480.8	-28544.0	3.7123 ug/L	3.7123 ppb	10:30:46
3	As 188.979†	-213.6	-220.3	20.842 ug/L	20.842 ppb	10:31:06
3	B 249.677†	1077.7	1896.9	-32.396 ug/L	-32.396 ppb	10:30:46
3	Ba 233.527†	-1800.8	-2137.7	-2.4235 ug/L	-2.4235 ppb	10:31:06
3	Be 313.107†	-9379.6	-7284.2	-2.5098 ug/L	-2.5098 ppb	10:30:46
3	Cd 226.502†	3092.8	3902.0	-2.7791 ug/L	-2.7791 ppb	10:31:06
3	Co 228.616†	209.2	336.8	-0.2916 ug/L	-0.2916 ppb	10:31:06
3	Cr 267.716†	-46.5	-144.7	1.6107 ug/L	1.6107 ppb	10:31:06
3	Cu 324.752†	572.0	-6163.6	-1.8014 ug/L	-1.8014 ppb	10:30:46
3	Mn 257.610†	-23200.8	-28266.1	-4.8240 ug/L	-4.8240 ppb	10:30:46
3	Mo 202.031†	-554.9	-667.1	-5.0704 ug/L	-5.0704 ppb	10:31:06
3	Ni 231.604†	259.1	226.9	5.1528 ug/L	5.1528 ppb	10:31:06
3	P 214.914†	602.6	486.9	16.874 ug/L	16.874 ppb	10:31:06
3	Pb 220.353†	-667.1	-727.4	-4.5957 ug/L	-4.5957 ppb	10:31:06
3	S 181.975 Axial†	89.8	55.5	-28.341 ug/L	-28.341 ppb	10:31:06
3	Sb 206.836†	75.1	54.4	-4.0894 ug/L	-4.0894 ppb	10:31:06
3	Se 196.026†	-2217.9	-2625.5	-48.828 ug/L	-48.828 ppb	10:31:06
3	Si 251.611†	-508.5	-1098.2	-32.116 ug/L	-32.116 ppb	10:31:06
3	Sn 189.927†	-411.1	-509.8	-3.3000 ug/L	-3.3000 ppb	10:31:06
3	Ti 334.940†	-7688.6	-7509.4	5.6494 ug/L	5.6494 ppb	10:30:46
3	Tl 190.801†	-127.1	-109.0	-31.452 ug/L	-31.452 ppb	10:31:06
3	U 409.014†	359052.8	434145.7	14038 ug/L	14038 ppb	10:30:46
3	V 292.402†	2157.9	4291.1	0.4273 ug/L	0.4273 ppb	10:31:06
3	Zn 213.857†	5684.5	6059.9	8.4113 ug/L	8.4113 ppb	10:31:06
3	SiO2†	-596.4	-1246.3	-78.309 ug/L	-78.309 ppb	10:31:22

Mean Data: LRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	720926.5	83.367 %	0.8407			1.01%
Sc Radial	3448.6	87.1 %	0.61			0.70%
Y 371.029	560448.9	82.166 %	0.7684			0.94%
Y RADIAL	3809.1	83.93 %	0.701			0.83%
Ag 328.068†	-28432.9	4.6100 ug/L	0.82121	4.6100 ppb	0.82121	17.81%
Al 396.153Radial†	578243.0	519470 ug/L	8628.0	519470 ppb	8628.0	1.66%
QC value within limits for Al 396.153Radial Recovery = 103.89%						
As 188.979†	-224.2	19.675 ug/L	3.2121	19.675 ppb	3.2121	16.33%
B 249.677†	1834.9	-33.950 ug/L	1.3911	-33.950 ppb	1.3911	4.10%
Ba 233.527†	-2097.4	-2.0757 ug/L	0.30134	-2.0757 ppb	0.30134	14.52%
Be 313.107†	-7211.7	-2.4860 ug/L	0.02637	-2.4860 ppb	0.02637	1.06%
Ca 317.933Radial†	243717.1	483200 ug/L	8811.3	483200 ppb	8811.3	1.82%
QC value within limits for Ca 317.933Radial Recovery = 96.64%						
Cd 226.502†	3900.9	-2.9491 ug/L	0.21850	-2.9491 ppb	0.21850	7.41%
Co 228.616†	332.8	-0.3837 ug/L	0.13838	-0.3837 ppb	0.13838	36.06%
Cr 267.716†	-196.8	1.0988 ug/L	0.63230	1.0988 ppb	0.63230	57.55%
Cu 324.752†	-6289.5	-2.0639 ug/L	0.38369	-2.0639 ppb	0.38369	18.59%

Fe 238.204 Radial†	37701.4	449030 ug/L	1662.7	449030 ppb	1662.7	0.37%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 89.81%						
K 766.490 Radial†	1958.5	-21.828 ug/L	123.6939	-21.828 ppb	123.6939	566.67%
Mg 279.077 IEC†	11326.6	492450 ug/L	1700.8	492450 ppb	1700.8	0.35%
QC value within limits for Mg 279.077 IEC Recovery = 98.49%						
Mn 257.610†	-28299.6	-4.7774 ug/L	0.16048	-4.7774 ppb	0.16048	3.36%
Mo 202.031†	-650.7	-3.7229 ug/L	1.24547	-3.7229 ppb	1.24547	33.45%
Na 589.592 Radial†	1803371.7	517090 ug/L	9866.6	517090 ppb	9866.6	1.91%
QC value within limits for Na 589.592 Radial Recovery = 103.42%						
Ni 231.604†	245.6	5.5777 ug/L	0.67343	5.5777 ppb	0.67343	12.07%
P 214.914†	471.4	10.316 ug/L	6.2206	10.316 ppb	6.2206	60.30%
Pb 220.353†	-708.6	-0.4311 ug/L	4.06694	-0.4311 ppb	4.06694	943.32%
S 181.975 Axial†	61.2	-23.293 ug/L	6.6239	-23.293 ppb	6.6239	28.44%
Sb 206.836†	58.0	-3.1752 ug/L	5.47806	-3.1752 ppb	5.47806	172.53%
Se 196.026†	-2658.0	-62.051 ug/L	23.9424	-62.051 ppb	23.9424	38.59%
Si 251.611†	-1099.6	-32.173 ug/L	0.3219	-32.173 ppb	0.3219	1.00%
Sn 189.927†	-496.6	0.3537 ug/L	3.99062	0.3537 ppb	3.99062	>999.9%
Sr 421.552†	824.3	1.9602 ug/L	0.12947	1.9602 ppb	0.12947	6.61%
Ti 334.940†	-7766.4	6.4556 ug/L	0.69968	6.4556 ppb	0.69968	10.84%
Tl 190.801†	-102.5	-29.607 ug/L	1.6024	-29.607 ppb	1.6024	5.41%
U 409.014†	432961.8	14000 ug/L	44.1	14000 ppb	44.1	0.31%
QC value within limits for U 409.014 Recovery = 93.33%						
V 292.402†	4297.2	0.2296 ug/L	0.36138	0.2296 ppb	0.36138	157.39%
Zn 213.857†	6136.7	8.9246 ug/L	0.45491	8.9246 ppb	0.45491	5.10%
SiO2†	-1188.6	-74.654 ug/L	5.9444	-74.654 ppb	5.9444	7.96%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 2/3/2010 10:33:32

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	3681.1	3681.1	93.0 %		10:35:50
1	Y RADIAL	4203.3	4203.3	92.62 %		10:35:30
1	Al 396.153Radial†	335.8	557.1	49.406 ug/L	49.406 ppb	10:35:30
1	Ca 317.933Radial†	22.8	8.2	16.270 ug/L	16.270 ppb	10:35:50
1	Fe 238.204 Radial†	-13.8	-26.7	-51.984 ug/L	-51.984 ppb	10:35:50
1	K 766.490 Radial†	1612478.0	1731629.5	301890 ug/L	301890 ppb	10:35:25
1	Mg 279.077 IEC†	-5.8	-9.5	-315.33 ug/L	-315.33 ppb	10:35:50
1	Na 589.592 Radial†	-906.6	609.8	174.84 ug/L	174.84 ppb	10:35:30
1	Sr 421.552†	1339734.1	1441249.2	9736.4 ug/L	9736.4 ppb	10:35:25
1	Sc 361.383	818697.2	818697.2	94.673 %		10:37:07
1	Y 371.029	633729.0	633729.0	92.910 %		10:37:07
1	Ag 328.068†	-7192.9	-8032.7	3.1376 ug/L	3.1376 ppb	10:37:12
1	As 188.979†	22945.7	24272.2	9319.7 ug/L	9319.7 ppb	10:37:12
1	B 249.677†	212570.4	225137.5	4758.3 ug/L	4758.3 ppb	10:37:07
1	Ba 233.527†	1700727.3	1796437.0	13557 ug/L	13557 ppb	10:37:07
1	Be 313.107†	7785059.2	8227030.7	2827.4 ug/L	2827.4 ppb	10:37:01
1	Cd 226.502†	845095.5	892844.5	9319.8 ug/L	9319.8 ppb	10:37:07
1	Co 228.616†	451930.8	477445.2	8874.0 ug/L	8874.0 ppb	10:37:12
1	Cr 267.716†	2074519.1	2191153.1	23390 ug/L	23390 ppb	10:37:07
1	Cu 324.752†	6561400.3	6923730.1	19873 ug/L	19873 ppb	10:37:01
1	Mn 257.610†	8509810.6	8988123.9	9201.8 ug/L	9201.8 ppb	10:37:01
1	Mo 202.031†	129241.7	136510.7	9300.7 ug/L	9300.7 ppb	10:37:12
1	Ni 231.604†	393355.6	415404.6	9433.2 ug/L	9433.2 ppb	10:37:07
1	P 214.914†	31725.0	33275.6	13061 ug/L	13061 ppb	10:37:12
1	Pb 220.353†	200192.4	211527.4	23153 ug/L	23153 ppb	10:37:12
1	S 181.975 Axial†	38632.3	40754.1	49315 ug/L	49315 ppb	10:37:12
1	Sb 206.836†	30780.0	32476.3	10343 ug/L	10343 ppb	10:37:12
1	Se 196.026†	16770.1	17743.1	9641.3 ug/L	9641.3 ppb	10:37:12
1	Si 251.611†	1484546.6	1567585.3	46526 ug/L	46526 ppb	10:37:07
1	Sn 189.927†	56753.0	59928.6	9730.4 ug/L	9730.4 ppb	10:37:12
1	Ti 334.940†	6051658.9	6393850.9	9808.4 ug/L	9808.4 ppb	10:37:01
1	Tl 190.801†	30415.0	32169.6	9261.1 ug/L	9261.1 ppb	10:37:12
1	U 409.014†	-3078.2	1073.4	-17.441 ug/L	-17.441 ppb	10:37:12
1	V 292.402†	1338401.7	1415414.9	9937.8 ug/L	9937.8 ppb	10:37:07
1	Zn 213.857†	1503303.7	1587142.2	13490 ug/L	13490 ppb	10:37:07
1	SiO2†	1494830.6	1578450.0	100490 ug/L	100490 ppb	10:37:58
2	Sc Radial	3636.4	3636.4	91.8 %		10:36:20
2	Y RADIAL	4159.5	4159.5	91.65 %		10:36:00
2	Al 396.153Radial†	324.1	548.8	40.652 ug/L	40.652 ppb	10:36:00
2	Ca 317.933Radial†	27.0	13.1	25.935 ug/L	25.935 ppb	10:36:20
2	Fe 238.204 Radial†	-13.9	-27.0	-54.753 ug/L	-54.753 ppb	10:36:20
2	K 766.490 Radial†	1628555.1	1770434.6	308650 ug/L	308650 ppb	10:35:55
2	Mg 279.077 IEC†	-2.7	-6.2	-172.92 ug/L	-172.92 ppb	10:36:20
2	Na 589.592 Radial†	-957.0	543.0	155.68 ug/L	155.68 ppb	10:36:00
2	Sr 421.552†	1350764.4	1470956.2	9937.0 ug/L	9937.0 ppb	10:35:55
2	Sc 361.383	824807.5	824807.5	95.380 %		10:37:27
2	Y 371.029	638362.5	638362.5	93.589 %		10:37:27
2	Ag 328.068†	-7260.1	-8046.9	2.9027 ug/L	2.9027 ppb	10:37:32
2	As 188.979†	23315.3	24480.2	9397.7 ug/L	9397.7 ppb	10:37:32
2	B 249.677†	213881.0	224848.3	4752.0 ug/L	4752.0 ppb	10:37:27
2	Ba 233.527†	1706322.2	1788994.7	13501 ug/L	13501 ppb	10:37:27
2	Be 313.107†	7718805.9	8096650.3	2782.6 ug/L	2782.6 ppb	10:37:20
2	Cd 226.502†	847990.7	889267.2	9282.5 ug/L	9282.5 ppb	10:37:27
2	Co 228.616†	457395.4	479638.1	8915.2 ug/L	8915.2 ppb	10:37:32
2	Cr 267.716†	2079956.1	2180620.5	23278 ug/L	23278 ppb	10:37:27
2	Cu 324.752†	6513891.7	6822577.5	19583 ug/L	19583 ppb	10:37:20
2	Mn 257.610†	8449590.8	8858398.1	9069.0 ug/L	9069.0 ppb	10:37:20
2	Mo 202.031†	130592.4	136915.5	9328.3 ug/L	9328.3 ppb	10:37:32
2	Ni 231.604†	394630.3	413663.0	9393.6 ug/L	9393.6 ppb	10:37:27

2	P 214.914†	32292.8	33622.6	13295 ug/L	13295 ppb	10:37:32
2	Pb 220.353†	202532.3	212414.2	23250 ug/L	23250 ppb	10:37:32
2	S 181.975 Axial†	39236.0	41084.7	49715 ug/L	49715 ppb	10:37:32
2	Sb 206.836†	31259.8	32738.5	10425 ug/L	10425 ppb	10:37:32
2	Se 196.026†	16960.1	17811.2	9678.3 ug/L	9678.3 ppb	10:37:32
2	Si 251.611†	1491687.6	1563455.6	46403 ug/L	46403 ppb	10:37:27
2	Sn 189.927†	57280.8	60037.8	9748.2 ug/L	9748.2 ppb	10:37:32
2	Ti 334.940†	6006797.3	6299462.2	9663.5 ug/L	9663.5 ppb	10:37:20
2	Tl 190.801†	30687.6	32217.3	9272.9 ug/L	9272.9 ppb	10:37:32
2	U 409.014†	-3130.4	1042.7	-18.186 ug/L	-18.186 ppb	10:37:32
2	V 292.402†	1342614.6	1409358.9	9896.4 ug/L	9896.4 ppb	10:37:27
2	Zn 213.857†	1509235.3	1581597.8	13443 ug/L	13443 ppb	10:37:27
2	SiO2†	1493274.7	1565076.8	99636 ug/L	99636 ppb	10:38:04
3	Sc Radial	3676.3	3676.3	92.8 %		10:36:51
3	Y RADIAL	4110.0	4110.0	90.56 %		10:36:31
3	Al 396.153Radial†	314.1	534.2	26.765 ug/L	26.765 ppb	10:36:31
3	Ca 317.933Radial†	25.9	11.6	22.959 ug/L	22.959 ppb	10:36:51
3	Fe 238.204 Radial†	-15.9	-29.0	-78.086 ug/L	-78.086 ppb	10:36:51
3	K 766.490 Radial†	1568571.6	1686565.7	294030 ug/L	294030 ppb	10:36:26
3	Mg 279.077 IEC†	-0.2	-3.6	-56.886 ug/L	-56.886 ppb	10:36:51
3	Na 589.592 Radial†	-959.0	552.2	158.33 ug/L	158.33 ppb	10:36:31
3	Sr 421.552†	1301534.5	1401955.4	9470.9 ug/L	9470.9 ppb	10:36:26
3	Sc 361.383	822396.0	822396.0	95.101 %		10:37:47
3	Y 371.029	636753.9	636753.9	93.353 %		10:37:47
3	Ag 328.068†	-7393.7	-8209.7	1.9242 ug/L	1.9242 ppb	10:37:52
3	As 188.979†	23240.6	24473.3	9395.6 ug/L	9395.6 ppb	10:37:52
3	B 249.677†	211878.3	223399.9	4721.2 ug/L	4721.2 ppb	10:37:47
3	Ba 233.527†	1691803.9	1778974.3	13425 ug/L	13425 ppb	10:37:47
3	Be 313.107†	7753170.1	8156514.5	2803.2 ug/L	2803.2 ppb	10:37:40
3	Cd 226.502†	840458.3	883953.7	9227.0 ug/L	9227.0 ppb	10:37:47
3	Co 228.616†	456507.1	480110.2	8923.9 ug/L	8923.9 ppb	10:37:52
3	Cr 267.716†	2062925.6	2169107.0	23155 ug/L	23155 ppb	10:37:47
3	Cu 324.752†	6524887.8	6854165.5	19673 ug/L	19673 ppb	10:37:40
3	Mn 257.610†	8497068.2	8934297.5	9146.7 ug/L	9146.7 ppb	10:37:40
3	Mo 202.031†	130426.8	137142.8	9343.8 ug/L	9343.8 ppb	10:37:52
3	Ni 231.604†	391183.0	411251.4	9338.8 ug/L	9338.8 ppb	10:37:47
3	P 214.914†	32156.9	33579.0	13255 ug/L	13255 ppb	10:37:52
3	Pb 220.353†	202500.7	213003.6	23314 ug/L	23314 ppb	10:37:52
3	S 181.975 Axial†	39080.0	41041.2	49662 ug/L	49662 ppb	10:37:52
3	Sb 206.836†	31109.5	32676.6	10406 ug/L	10406 ppb	10:37:52
3	Se 196.026†	16981.2	17885.5	9718.5 ug/L	9718.5 ppb	10:37:52
3	Si 251.611†	1478379.4	1554047.8	46123 ug/L	46123 ppb	10:37:47
3	Sn 189.927†	57322.8	60258.1	9783.9 ug/L	9783.9 ppb	10:37:52
3	Ti 334.940†	6028257.8	6340494.7	9726.5 ug/L	9726.5 ppb	10:37:40
3	Tl 190.801†	30731.3	32357.6	9313.9 ug/L	9313.9 ppb	10:37:52
3	U 409.014†	-3436.1	711.6	-28.653 ug/L	-28.653 ppb	10:37:52
3	V 292.402†	1330546.7	1400796.9	9837.1 ug/L	9837.1 ppb	10:37:47
3	Zn 213.857†	1496429.2	1572771.8	13367 ug/L	13367 ppb	10:37:47
3	SiO2†	1491497.8	1567799.1	99809 ug/L	99809 ppb	10:38:10

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	821966.9	95.051 %	0.3559			0.37%
Sc Radial	3664.6	92.5 %	0.62			0.67%
Y 371.029	636281.8	93.284 %	0.3449			0.37%
Y RADIAL	4157.6	91.61 %	1.030			1.12%
Ag 328.068†	-8096.5	2.6548 ug/L	0.64353	2.6548 ppb	0.64353	24.24%
Al 396.153Radial†	546.7	38.941 ug/L	11.4168	38.941 ppb	11.4168	29.32%
As 188.979†	24408.5	9371.0 ug/L	44.44	9371.0 ppb	44.44	0.47%
QC value within limits for As 188.979 Recovery = 93.71%						
B 249.677†	224461.9	4743.9 ug/L	19.84	4743.9 ppb	19.84	0.42%
QC value within limits for B 249.677 Recovery = 94.88%						
Ba 233.527†	1788135.3	13494 ug/L	66.1	13494 ppb	66.1	0.49%
QC value less than the lower limit for Ba 233.527 Recovery = 89.96%						
Be 313.107†	8160065.2	2804.4 ug/L	22.42	2804.4 ppb	22.42	0.80%
QC value within limits for Be 313.107 Recovery = 93.48%						
Ca 317.933Radial†	11.0	21.721 ug/L	4.9497	21.721 ppb	4.9497	22.79%
Cd 226.502†	888688.4	9276.4 ug/L	46.70	9276.4 ppb	46.70	0.50%
QC value within limits for Cd 226.502 Recovery = 92.76%						

Co 228.616†	479064.5	8904.4 ug/L	26.63	8904.4 ppb	26.63	0.30%
QC value less than the lower limit for Co 228.616 Recovery = 89.04%						
Cr 267.716†	2180293.5	23274 ug/L	117.7	23274 ppb	117.7	0.51%
QC value within limits for Cr 267.716 Recovery = 93.10%						
Cu 324.752†	6866824.4	19710 ug/L	148.5	19710 ppb	148.5	0.75%
QC value within limits for Cu 324.752 Recovery = 98.55%						
Fe 238.204 Radial†	-27.5	-61.608 ug/L	14.3373	-61.608 ppb	14.3373	23.27%
K 766.490 Radial†	1729543.3	301520 ug/L	7317.9	301520 ppb	7317.9	2.43%
QC value within limits for K 766.490 Radial Recovery = 100.51%						
Mg 279.077 IEC†	-6.4	-181.71 ug/L	129.447	-181.71 ppb	129.447	71.24%
Mn 257.610†	8926939.8	9139.2 ug/L	66.73	9139.2 ppb	66.73	0.73%
QC value within limits for Mn 257.610 Recovery = 91.39%						
Mo 202.031†	136856.3	9324.3 ug/L	21.81	9324.3 ppb	21.81	0.23%
QC value within limits for Mo 202.031 Recovery = 93.24%						
Na 589.592 Radial†	568.3	162.95 ug/L	10.383	162.95 ppb	10.383	6.37%
Ni 231.604†	413439.7	9388.6 ug/L	47.40	9388.6 ppb	47.40	0.50%
QC value within limits for Ni 231.604 Recovery = 93.89%						
P 214.914†	33492.4	13204 ug/L	125.3	13204 ppb	125.3	0.95%
QC value less than the lower limit for P 214.914 Recovery = 88.02%						
Pb 220.353†	212315.1	23239 ug/L	81.4	23239 ppb	81.4	0.35%
QC value within limits for Pb 220.353 Recovery = 92.96%						
S 181.975 Axial†	40960.0	49564 ug/L	217.4	49564 ppb	217.4	0.44%
QC value within limits for S 181.975 Axial Recovery = 99.13%						
Sb 206.836†	32630.5	10391 ug/L	42.9	10391 ppb	42.9	0.41%
QC value within limits for Sb 206.836 Recovery = 103.91%						
Se 196.026†	17813.3	9679.4 ug/L	38.60	9679.4 ppb	38.60	0.40%
QC value within limits for Se 196.026 Recovery = 96.79%						
Si 251.611†	1561696.2	46351 ug/L	206.7	46351 ppb	206.7	0.45%
QC value within limits for Si 251.611 Recovery = 92.70%						
Sn 189.927†	60074.8	9754.2 ug/L	27.25	9754.2 ppb	27.25	0.28%
QC value within limits for Sn 189.927 Recovery = 97.54%						
Sr 421.552†	1438053.6	9714.8 ug/L	233.82	9714.8 ppb	233.82	2.41%
QC value within limits for Sr 421.552 Recovery = 97.15%						
Ti 334.940†	6344602.6	9732.8 ug/L	72.65	9732.8 ppb	72.65	0.75%
QC value within limits for Ti 334.940 Recovery = 97.33%						
Tl 190.801†	32248.2	9282.6 ug/L	27.72	9282.6 ppb	27.72	0.30%
QC value within limits for Tl 190.801 Recovery = 92.83%						
U 409.014†	942.6	-21.427 ug/L	6.2693	-21.427 ppb	6.2693	29.26%
V 292.402†	1408523.6	9890.4 ug/L	50.61	9890.4 ppb	50.61	0.51%
QC value within limits for V 292.402 Recovery = 98.90%						
Zn 213.857†	1580503.9	13433 ug/L	61.6	13433 ppb	61.6	0.46%
QC value less than the lower limit for Zn 213.857 Recovery = 89.55%						
SiO2†	1570427.0	99978 ug/L	450.0	99978 ppb	450.0	0.45%
QC value within limits for SiO2 Recovery = 93.44%						
QC Failed. Continue with analysis.						

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 10:40:20

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	3768.2	3768.2	95.2 %		10:42:33
1	Y RADIAL	4215.1	4215.1	92.88 %		10:42:12
1	Al 396.153Radial†	5175.2	5634.4	5038.1 ug/L	5038.1 ppb	10:42:12
1	Ca 317.933Radial†	2476.2	2586.0	5127.1 ug/L	5127.1 ppb	10:42:33
1	Fe 238.204 Radial†	422.2	431.9	5157.7 ug/L	5157.7 ppb	10:42:33
1	K 766.490 Radial†	30642.0	29171.2	5079.5 ug/L	5079.5 ppb	10:42:12
1	Mg 279.077 IEC†	114.8	117.3	5104.4 ug/L	5104.4 ppb	10:42:33
1	Na 589.592 Radial†	32034.7	35250.6	10108 ug/L	10108 ppb	10:42:12
1	Sr 421.552†	69058.9	72574.1	490.24 ug/L	490.24 ppb	10:42:12
1	Sc 361.383	846055.9	846055.9	97.837 %		10:43:31
1	Y 371.029	660817.6	660817.6	96.881 %		10:43:31
1	Ag 328.068†	103617.6	105473.4	481.96 ug/L	481.96 ppb	10:43:31
1	As 188.979†	1208.9	1271.0	489.02 ug/L	489.02 ppb	10:43:51
1	B 249.677†	21783.5	22871.9	483.78 ug/L	483.78 ppb	10:43:31
1	Ba 233.527†	62137.2	63529.0	479.87 ug/L	479.87 ppb	10:43:31
1	Be 313.107†	1364528.7	1398641.1	478.00 ug/L	478.00 ppb	10:43:31
1	Cd 226.502†	43827.8	44996.4	469.24 ug/L	469.24 ppb	10:43:51
1	Co 228.616†	24941.3	25579.1	475.63 ug/L	475.63 ppb	10:43:51
1	Cr 267.716†	43995.2	44878.9	479.39 ug/L	479.39 ppb	10:43:31
1	Cu 324.752†	169448.1	166346.1	477.48 ug/L	477.48 ppb	10:43:31
1	Mn 257.610†	456825.0	466432.5	477.82 ug/L	477.82 ppb	10:43:31
1	Mo 202.031†	6994.8	7146.6	487.37 ug/L	487.37 ppb	10:43:51
1	Ni 231.604†	20702.4	21076.9	478.61 ug/L	478.61 ppb	10:43:51
1	P 214.914†	4767.6	4638.6	2265.0 ug/L	2265.0 ppb	10:43:51
1	Pb 220.353†	4235.6	4400.4	483.03 ug/L	483.03 ppb	10:43:51
1	S 181.975 Axial†	832.3	798.8	965.63 ug/L	965.63 ppb	10:43:51
1	Sb 206.836†	1583.3	1582.8	504.74 ug/L	504.74 ppb	10:43:51
1	Se 196.026†	837.9	885.9	497.31 ug/L	497.31 ppb	10:43:51
1	Si 251.611†	79359.5	80624.5	2392.9 ug/L	2392.9 ppb	10:43:31
1	Sn 189.927†	2946.5	2994.0	487.00 ug/L	487.00 ppb	10:43:51
1	Ti 334.940†	308976.4	317502.2	487.38 ug/L	487.38 ppb	10:43:31
1	Tl 190.801†	1615.4	1694.3	487.54 ug/L	487.54 ppb	10:43:51
1	U 409.014†	9508.9	14043.9	454.11 ug/L	454.11 ppb	10:43:31
1	V 292.402†	65606.4	68764.7	483.75 ug/L	483.75 ppb	10:43:31
1	Zn 213.857†	55184.6	55659.6	471.92 ug/L	471.92 ppb	10:43:31
1	SiO2†	80455.2	81701.5	5201.3 ug/L	5201.3 ppb	10:44:52
2	Sc Radial	3781.3	3781.3	95.5 %		10:42:58
2	Y RADIAL	4206.7	4206.7	92.69 %		10:42:38
2	Al 396.153Radial†	5229.1	5672.1	5072.1 ug/L	5072.1 ppb	10:42:38
2	Ca 317.933Radial†	2489.7	2591.1	5137.1 ug/L	5137.1 ppb	10:42:58
2	Fe 238.204 Radial†	426.2	434.5	5189.3 ug/L	5189.3 ppb	10:42:58
2	K 766.490 Radial†	30875.9	29304.1	5102.6 ug/L	5102.6 ppb	10:42:38
2	Mg 279.077 IEC†	113.9	116.0	5045.7 ug/L	5045.7 ppb	10:42:58
2	Na 589.592 Radial†	32368.4	35483.0	10174 ug/L	10174 ppb	10:42:38
2	Sr 421.552†	69769.1	73065.5	493.56 ug/L	493.56 ppb	10:42:38
2	Sc 361.383	853506.1	853506.1	98.698 %		10:43:59
2	Y 371.029	666207.9	666207.9	97.671 %		10:43:59
2	Ag 328.068†	104691.0	105636.5	482.72 ug/L	482.72 ppb	10:43:59
2	As 188.979†	1219.3	1270.9	488.98 ug/L	488.98 ppb	10:44:19
2	B 249.677†	22155.6	23054.5	487.66 ug/L	487.66 ppb	10:43:59
2	Ba 233.527†	62800.4	63646.6	480.76 ug/L	480.76 ppb	10:43:59
2	Be 313.107†	1386900.4	1409133.6	481.58 ug/L	481.58 ppb	10:43:59
2	Cd 226.502†	43866.0	44644.1	465.56 ug/L	465.56 ppb	10:44:19
2	Co 228.616†	24968.8	25384.4	472.00 ug/L	472.00 ppb	10:44:19
2	Cr 267.716†	44653.4	45153.2	482.31 ug/L	482.31 ppb	10:43:59
2	Cu 324.752†	171078.7	166486.4	477.88 ug/L	477.88 ppb	10:43:59
2	Mn 257.610†	462773.9	468384.0	479.83 ug/L	479.83 ppb	10:43:59
2	Mo 202.031†	6995.1	7084.5	483.14 ug/L	483.14 ppb	10:44:19
2	Ni 231.604†	20706.9	20896.7	474.52 ug/L	474.52 ppb	10:44:19

2	P 214.914†	4782.0	4610.6	2250.6 ug/L	2250.6 ppb	10:44:19
2	Pb 220.353†	4256.3	4383.6	481.18 ug/L	481.18 ppb	10:44:19
2	S 181.975 Axial†	833.8	792.9	958.52 ug/L	958.52 ppb	10:44:19
2	Sb 206.836†	1583.1	1568.4	500.14 ug/L	500.14 ppb	10:44:19
2	Se 196.026†	833.1	873.5	490.69 ug/L	490.69 ppb	10:44:19
2	Si 251.611†	80409.5	80980.3	2403.5 ug/L	2403.5 ppb	10:43:59
2	Sn 189.927†	2937.8	2958.9	481.30 ug/L	481.30 ppb	10:44:19
2	Ti 334.940†	312554.6	318370.9	488.71 ug/L	488.71 ppb	10:43:59
2	Tl 190.801†	1626.3	1691.0	486.62 ug/L	486.62 ppb	10:44:19
2	U 409.014†	9647.3	14099.3	455.90 ug/L	455.90 ppb	10:43:59
2	V 292.402†	66403.3	68986.8	485.23 ug/L	485.23 ppb	10:43:59
2	Zn 213.857†	55996.8	55990.2	474.77 ug/L	474.77 ppb	10:43:59
2	SiO2†	79930.8	80452.4	5121.7 ug/L	5121.7 ppb	10:44:57
3	Sc Radial	3767.1	3767.1	95.1 %		10:43:23
3	Y RADIAL	4204.9	4204.9	92.65 %		10:43:03
3	Al 396.153Radial†	5206.6	5669.0	5069.4 ug/L	5069.4 ppb	10:43:03
3	Ca 317.933Radial†	2467.5	2577.6	5110.4 ug/L	5110.4 ppb	10:43:23
3	Fe 238.204 Radial†	425.8	435.8	5204.4 ug/L	5204.4 ppb	10:43:23
3	K 766.490 Radial†	30757.3	29301.3	5102.1 ug/L	5102.1 ppb	10:43:03
3	Mg 279.077 IEC†	117.3	120.0	5222.2 ug/L	5222.2 ppb	10:43:23
3	Na 589.592 Radial†	32541.4	35792.6	10263 ug/L	10263 ppb	10:43:03
3	Sr 421.552†	69437.4	72992.1	493.06 ug/L	493.06 ppb	10:43:03
3	Sc 361.383	859098.2	859098.2	99.345 %		10:44:26
3	Y 371.029	669990.6	669990.6	98.226 %		10:44:26
3	Ag 328.068†	105082.6	105340.2	481.37 ug/L	481.37 ppb	10:44:26
3	As 188.979†	1223.8	1267.3	487.61 ug/L	487.61 ppb	10:44:46
3	B 249.677†	22149.2	22902.0	484.42 ug/L	484.42 ppb	10:44:26
3	Ba 233.527†	63127.5	63561.6	480.12 ug/L	480.12 ppb	10:44:26
3	Be 313.107†	1388010.7	1401104.3	478.84 ug/L	478.84 ppb	10:44:26
3	Cd 226.502†	44198.2	44689.1	466.03 ug/L	466.03 ppb	10:44:46
3	Co 228.616†	25157.1	25409.4	472.46 ug/L	472.46 ppb	10:44:46
3	Cr 267.716†	44718.9	44924.7	479.87 ug/L	479.87 ppb	10:44:26
3	Cu 324.752†	171613.3	165896.2	476.19 ug/L	476.19 ppb	10:44:26
3	Mn 257.610†	464956.1	467528.6	478.94 ug/L	478.94 ppb	10:44:26
3	Mo 202.031†	7030.5	7074.0	482.43 ug/L	482.43 ppb	10:44:46
3	Ni 231.604†	20826.5	20880.6	474.15 ug/L	474.15 ppb	10:44:46
3	P 214.914†	4847.1	4644.6	2268.2 ug/L	2268.2 ppb	10:44:46
3	Pb 220.353†	4299.8	4399.4	482.90 ug/L	482.90 ppb	10:44:46
3	S 181.975 Axial†	833.2	786.8	951.13 ug/L	951.13 ppb	10:44:46
3	Sb 206.836†	1593.5	1568.5	500.16 ug/L	500.16 ppb	10:44:46
3	Se 196.026†	831.7	866.7	487.02 ug/L	487.02 ppb	10:44:46
3	Si 251.611†	80699.7	80742.1	2396.4 ug/L	2396.4 ppb	10:44:26
3	Sn 189.927†	2967.5	2969.4	483.00 ug/L	483.00 ppb	10:44:46
3	Ti 334.940†	313813.0	317576.2	487.48 ug/L	487.48 ppb	10:44:26
3	Tl 190.801†	1634.6	1688.5	485.90 ug/L	485.90 ppb	10:44:46
3	U 409.014†	9812.9	14202.3	459.25 ug/L	459.25 ppb	10:44:26
3	V 292.402†	66604.0	68750.8	483.59 ug/L	483.59 ppb	10:44:26
3	Zn 213.857†	56165.1	55790.3	473.06 ug/L	473.06 ppb	10:44:26
3	SiO2†	79908.3	79902.6	5086.6 ug/L	5086.6 ppb	10:45:02

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852886.7	98.627 %	0.7566			0.77%
Sc Radial	3772.2	95.3 %	0.20			0.21%
Y 371.029	665672.0	97.593 %	0.6758			0.69%
Y RADIAL	4208.9	92.74 %	0.120			0.13%
Ag 328.068†	105483.3	482.02 ug/L	0.676	482.02 ppb	0.676	0.14%
QC value within limits for Ag 328.068 Recovery = 96.40%						
Al 396.153Radial†	5658.5	5059.9 ug/L	18.90	5059.9 ppb	18.90	0.37%
QC value within limits for Al 396.153Radial Recovery = 101.20%						
As 188.979†	1269.7	488.54 ug/L	0.803	488.54 ppb	0.803	0.16%
QC value within limits for As 188.979 Recovery = 97.71%						
B 249.677†	22942.8	485.29 ug/L	2.083	485.29 ppb	2.083	0.43%
QC value within limits for B 249.677 Recovery = 97.06%						
Ba 233.527†	63579.1	480.25 ug/L	0.460	480.25 ppb	0.460	0.10%
QC value within limits for Ba 233.527 Recovery = 96.05%						
Be 313.107†	1402959.7	479.47 ug/L	1.872	479.47 ppb	1.872	0.39%
QC value within limits for Be 313.107 Recovery = 95.89%						
Ca 317.933Radial†	2584.9	5124.9 ug/L	13.48	5124.9 ppb	13.48	0.26%

QC value within limits for Ca 317.933 Radial Recovery = 102.50%							
Cd 226.502†	44776.5	466.95 ug/L	2.003	466.95 ppb	2.003	0.43%	
QC value within limits for Cd 226.502 Recovery = 93.39%							
Co 228.616†	25457.6	473.36 ug/L	1.978	473.36 ppb	1.978	0.42%	
QC value within limits for Co 228.616 Recovery = 94.67%							
Cr 267.716†	44985.6	480.52 ug/L	1.569	480.52 ppb	1.569	0.33%	
QC value within limits for Cr 267.716 Recovery = 96.10%							
Cu 324.752†	166242.9	477.18 ug/L	0.885	477.18 ppb	0.885	0.19%	
QC value within limits for Cu 324.752 Recovery = 95.44%							
Fe 238.204 Radial†	434.1	5183.8 ug/L	23.83	5183.8 ppb	23.83	0.46%	
QC value within limits for Fe 238.204 Radial Recovery = 103.68%							
K 766.490 Radial†	29258.9	5094.7 ug/L	13.22	5094.7 ppb	13.22	0.26%	
QC value within limits for K 766.490 Radial Recovery = 101.89%							
Mg 279.077 IEC†	117.8	5124.1 ug/L	89.89	5124.1 ppb	89.89	1.75%	
QC value within limits for Mg 279.077 IEC Recovery = 102.48%							
Mn 257.610†	467448.4	478.86 ug/L	1.004	478.86 ppb	1.004	0.21%	
QC value within limits for Mn 257.610 Recovery = 95.77%							
Mo 202.031†	7101.7	484.32 ug/L	2.672	484.32 ppb	2.672	0.55%	
QC value within limits for Mo 202.031 Recovery = 96.86%							
Na 589.592 Radial†	35508.7	10182 ug/L	78.0	10182 ppb	78.0	0.77%	
QC value within limits for Na 589.592 Radial Recovery = 101.82%							
Ni 231.604†	20951.4	475.76 ug/L	2.475	475.76 ppb	2.475	0.52%	
QC value within limits for Ni 231.604 Recovery = 95.15%							
P 214.914†	4631.3	2261.3 ug/L	9.38	2261.3 ppb	9.38	0.41%	
QC value within limits for P 214.914 Recovery = 90.45%							
Pb 220.353†	4394.5	482.37 ug/L	1.033	482.37 ppb	1.033	0.21%	
QC value within limits for Pb 220.353 Recovery = 96.47%							
S 181.975 Axial†	792.8	958.43 ug/L	7.252	958.43 ppb	7.252	0.76%	
QC value within limits for S 181.975 Axial Recovery = 95.84%							
Sb 206.836†	1573.2	501.68 ug/L	2.651	501.68 ppb	2.651	0.53%	
QC value within limits for Sb 206.836 Recovery = 100.34%							
Se 196.026†	875.4	491.68 ug/L	5.216	491.68 ppb	5.216	1.06%	
QC value within limits for Se 196.026 Recovery = 98.34%							
Si 251.611†	80782.3	2397.6 ug/L	5.42	2397.6 ppb	5.42	0.23%	
QC value within limits for Si 251.611 Recovery = 95.90%							
Sn 189.927†	2974.1	483.76 ug/L	2.926	483.76 ppb	2.926	0.60%	
QC value within limits for Sn 189.927 Recovery = 96.75%							
Sr 421.552†	72877.2	492.28 ug/L	1.790	492.28 ppb	1.790	0.36%	
QC value within limits for Sr 421.552 Recovery = 98.46%							
Ti 334.940†	317816.4	487.85 ug/L	0.746	487.85 ppb	0.746	0.15%	
QC value within limits for Ti 334.940 Recovery = 97.57%							
Tl 190.801†	1691.3	486.68 ug/L	0.820	486.68 ppb	0.820	0.17%	
QC value within limits for Tl 190.801 Recovery = 97.34%							
U 409.014†	14115.2	456.42 ug/L	2.606	456.42 ppb	2.606	0.57%	
QC value within limits for U 409.014 Recovery = 91.28%							
V 292.402†	68834.1	484.19 ug/L	0.903	484.19 ppb	0.903	0.19%	
QC value within limits for V 292.402 Recovery = 96.84%							
Zn 213.857†	55813.3	473.25 ug/L	1.435	473.25 ppb	1.435	0.30%	
QC value within limits for Zn 213.857 Recovery = 94.65%							
SiO2†	80685.5	5136.5 ug/L	58.76	5136.5 ppb	58.76	1.14%	
QC value within limits for SiO2 Recovery = 96.05%							
All analyte(s) passed QC.							

Sequence No.: 14
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 2/3/2010 10:47:13
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3799.7	3799.7	96.0 %		10:49:26
1	Y RADIAL	4276.6	4276.6	94.23 %		10:49:06
1	Al 396.153Radial†	-175.5	12.9	11.568 ug/L	11.568 ppb	10:49:06
1	Ca 317.933Radial†	25.2	10.0	19.858 ug/L	19.858 ppb	10:49:26
1	Fe 238.204 Radial†	13.6	2.3	27.884 ug/L	27.884 ppb	10:49:26
1	K 766.490 Radial†	3464.6	580.0	101.12 ug/L	101.12 ppb	10:49:06
1	Mg 279.077 IEC†	0.1	-3.2	-141.15 ug/L	-141.15 ppb	10:49:26
1	Na 589.592 Radial†	-1503.1	18.7	5.3546 ug/L	5.3546 ppb	10:49:06
1	Sr 421.552†	50.0	51.6	0.3487 ug/L	0.3487 ppb	10:49:06
1	Sc 361.383	846318.2	846318.2	97.867 %		10:50:23
1	Y 371.029	669637.7	669637.7	98.174 %		10:50:23
1	Ag 328.068†	424.5	-1.3	0.0026 ug/L	0.0026 ppb	10:50:23
1	As 188.979†	-18.8	16.2	6.1902 ug/L	6.1902 ppb	10:50:43
1	B 249.677†	59.0	667.1	14.171 ug/L	14.171 ppb	10:50:23
1	Ba 233.527†	-4.9	13.0	0.0977 ug/L	0.0977 ppb	10:50:43
1	Be 313.107†	-3720.1	142.9	0.0483 ug/L	0.0483 ppb	10:50:23
1	Cd 226.502†	-163.2	32.9	0.3396 ug/L	0.3396 ppb	10:50:43
1	Co 228.616†	-106.1	-22.1	-0.4100 ug/L	-0.4100 ppb	10:50:43
1	Cr 267.716†	112.8	26.2	0.2799 ug/L	0.2799 ppb	10:50:23
1	Cu 324.752†	7072.7	378.5	1.0890 ug/L	1.0890 ppb	10:50:23
1	Mn 257.610†	514.4	33.2	0.0425 ug/L	0.0425 ppb	10:50:43
1	Mo 202.031†	5.7	3.0	0.2078 ug/L	0.2078 ppb	10:50:43
1	Ni 231.604†	65.8	-15.9	-0.3620 ug/L	-0.3620 ppb	10:50:43
1	P 214.914†	231.7	2.2	0.9340 ug/L	0.9340 ppb	10:50:43
1	Pb 220.353†	-67.2	2.5	0.2786 ug/L	0.2786 ppb	10:50:43
1	S 181.975 Axial†	56.5	5.8	6.9843 ug/L	6.9843 ppb	10:50:43
1	Sb 206.836†	45.6	11.1	3.4619 ug/L	3.4619 ppb	10:50:43
1	Se 196.026†	-28.8	0.0	0.1081 ug/L	0.1081 ppb	10:50:43
1	Si 251.611†	524.7	46.5	1.3825 ug/L	1.3825 ppb	10:50:43
1	Sn 189.927†	38.8	22.0	3.5705 ug/L	3.5705 ppb	10:50:43
1	Ti 334.940†	-1779.8	-124.0	-0.1754 ug/L	-0.1754 ppb	10:50:23
1	Tl 190.801†	-38.7	3.7	1.0583 ug/L	1.0583 ppb	10:50:43
1	U 409.014†	-4290.5	-59.3	-1.9267 ug/L	-1.9267 ppb	10:50:23
1	V 292.402†	-1742.6	-72.7	-0.5122 ug/L	-0.5122 ppb	10:50:23
1	Zn 213.857†	755.1	26.5	0.2245 ug/L	0.2245 ppb	10:50:43
1	SiO2†	562.2	42.0	2.6741 ug/L	2.6741 ppb	10:51:39
2	Sc Radial	3779.9	3779.9	95.5 %		10:49:51
2	Y RADIAL	4230.4	4230.4	93.21 %		10:49:31
2	Al 396.153Radial†	-205.4	-19.3	-17.447 ug/L	-17.447 ppb	10:49:31
2	Ca 317.933Radial†	17.6	2.2	4.3100 ug/L	4.3100 ppb	10:49:51
2	Fe 238.204 Radial†	11.7	0.5	5.6111 ug/L	5.6111 ppb	10:49:51
2	K 766.490 Radial†	3517.2	654.1	114.04 ug/L	114.04 ppb	10:49:31
2	Mg 279.077 IEC†	-0.9	-4.2	-182.81 ug/L	-182.81 ppb	10:49:51
2	Na 589.592 Radial†	-1555.6	-44.7	-12.804 ug/L	-12.804 ppb	10:49:31
2	Sr 421.552†	15.4	15.7	0.1058 ug/L	0.1058 ppb	10:49:31
2	Sc 361.383	843558.7	843558.7	97.548 %		10:50:48
2	Y 371.029	669377.1	669377.1	98.136 %		10:50:48
2	Ag 328.068†	495.3	72.7	0.3377 ug/L	0.3377 ppb	10:50:48
2	As 188.979†	-21.6	13.3	5.0676 ug/L	5.0676 ppb	10:51:08
2	B 249.677†	54.5	662.7	14.080 ug/L	14.080 ppb	10:50:48
2	Ba 233.527†	-10.7	7.1	0.0515 ug/L	0.0515 ppb	10:51:08
2	Be 313.107†	-3695.5	155.7	0.0528 ug/L	0.0528 ppb	10:50:48
2	Cd 226.502†	-168.9	26.5	0.2733 ug/L	0.2733 ppb	10:51:08
2	Co 228.616†	-93.5	-9.4	-0.1714 ug/L	-0.1714 ppb	10:51:08
2	Cr 267.716†	111.9	25.6	0.2770 ug/L	0.2770 ppb	10:50:48
2	Cu 324.752†	6896.7	221.7	0.6435 ug/L	0.6435 ppb	10:50:48
2	Mn 257.610†	497.8	17.9	0.0263 ug/L	0.0263 ppb	10:51:08
2	Mo 202.031†	24.7	22.5	1.5317 ug/L	1.5317 ppb	10:51:08
2	Ni 231.604†	86.2	5.1	0.1166 ug/L	0.1166 ppb	10:51:08

2	P 214.914†	216.7	-12.3	-6.3761 ug/L	-6.3761 ppb	10:51:08
2	Pb 220.353†	-54.9	14.9	1.6283 ug/L	1.6283 ppb	10:51:08
2	S 181.975 Axial†	59.7	9.3	11.240 ug/L	11.240 ppb	10:51:08
2	Sb 206.836†	47.0	12.7	3.9785 ug/L	3.9785 ppb	10:51:08
2	Se 196.026†	-31.4	-2.7	-1.4437 ug/L	-1.4437 ppb	10:51:08
2	Si 251.611†	558.9	83.4	2.4622 ug/L	2.4622 ppb	10:51:08
2	Sn 189.927†	36.3	19.5	3.1726 ug/L	3.1726 ppb	10:51:08
2	Ti 334.940†	-1733.9	-82.9	-0.1065 ug/L	-0.1065 ppb	10:50:48
2	Tl 190.801†	-32.7	9.7	2.7696 ug/L	2.7696 ppb	10:51:08
2	U 409.014†	-4587.3	-377.8	-12.262 ug/L	-12.262 ppb	10:50:48
2	V 292.402†	-1801.7	-139.1	-0.9720 ug/L	-0.9720 ppb	10:50:48
2	Zn 213.857†	756.2	30.1	0.2553 ug/L	0.2553 ppb	10:51:08
2	SiO2†	575.8	57.8	3.6478 ug/L	3.6478 ppb	10:51:44
3	Sc Radial	3808.5	3808.5	96.2 %		10:50:16
3	Y RADIAL	4353.6	4353.6	95.93 %		10:49:56
3	Al 396.153Radial†	-198.6	-10.7	-9.6435 ug/L	-9.6435 ppb	10:49:56
3	Ca 317.933Radial†	17.7	2.1	4.1399 ug/L	4.1399 ppb	10:50:16
3	Fe 238.204 Radial†	11.0	-0.4	-4.4499 ug/L	-4.4499 ppb	10:50:16
3	K 766.490 Radial†	3583.8	695.7	121.29 ug/L	121.29 ppb	10:49:56
3	Mg 279.077 IEC†	2.0	-1.2	-50.756 ug/L	-50.756 ppb	10:50:16
3	Na 589.592 Radial†	-1503.4	21.9	6.2798 ug/L	6.2798 ppb	10:49:56
3	Sr 421.552†	11.8	11.8	0.0800 ug/L	0.0800 ppb	10:49:56
3	Sc 361.383	844240.3	844240.3	97.627 %		10:51:14
3	Y 371.029	668545.8	668545.8	98.014 %		10:51:14
3	Ag 328.068†	420.4	-4.5	-0.0204 ug/L	-0.0204 ppb	10:51:14
3	As 188.979†	-27.7	7.1	2.6987 ug/L	2.6987 ppb	10:51:34
3	B 249.677†	-44.6	561.1	11.923 ug/L	11.923 ppb	10:51:14
3	Ba 233.527†	-15.6	2.1	0.0144 ug/L	0.0144 ppb	10:51:34
3	Be 313.107†	-3756.8	96.0	0.0321 ug/L	0.0321 ppb	10:51:14
3	Cd 226.502†	-181.3	13.9	0.1445 ug/L	0.1445 ppb	10:51:34
3	Co 228.616†	-90.7	-6.6	-0.1195 ug/L	-0.1195 ppb	10:51:34
3	Cr 267.716†	51.0	-36.8	-0.3916 ug/L	-0.3916 ppb	10:51:14
3	Cu 324.752†	6863.5	182.1	0.5247 ug/L	0.5247 ppb	10:51:14
3	Mn 257.610†	522.8	43.0	0.0457 ug/L	0.0457 ppb	10:51:34
3	Mo 202.031†	12.6	10.1	0.6900 ug/L	0.6900 ppb	10:51:34
3	Ni 231.604†	94.0	13.1	0.2970 ug/L	0.2970 ppb	10:51:34
3	P 214.914†	236.9	8.1	4.0548 ug/L	4.0548 ppb	10:51:34
3	Pb 220.353†	-86.9	-17.8	-1.9493 ug/L	-1.9493 ppb	10:51:34
3	S 181.975 Axial†	58.0	7.5	9.0694 ug/L	9.0694 ppb	10:51:34
3	Sb 206.836†	52.1	17.8	5.5209 ug/L	5.5209 ppb	10:51:34
3	Se 196.026†	-29.9	-1.1	-0.6279 ug/L	-0.6279 ppb	10:51:34
3	Si 251.611†	525.1	48.4	1.4302 ug/L	1.4302 ppb	10:51:34
3	Sn 189.927†	26.7	9.7	1.5824 ug/L	1.5824 ppb	10:51:34
3	Ti 334.940†	-1837.5	-187.6	-0.2813 ug/L	-0.2813 ppb	10:51:14
3	Tl 190.801†	-31.9	10.5	3.0023 ug/L	3.0023 ppb	10:51:34
3	U 409.014†	-4352.0	-133.0	-4.3140 ug/L	-4.3140 ppb	10:51:14
3	V 292.402†	-1737.6	-72.0	-0.4980 ug/L	-0.4980 ppb	10:51:14
3	Zn 213.857†	751.3	24.5	0.2077 ug/L	0.2077 ppb	10:51:34
3	SiO2†	572.3	53.8	3.4152 ug/L	3.4152 ppb	10:51:49

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	844705.7	97.681 %	0.1662			0.17%
Sc Radial	3796.0	95.9 %	0.37			0.39%
Y 371.029	669186.9	98.108 %	0.0836			0.09%
Y RADIAL	4286.9	94.46 %	1.371			1.45%
Ag 328.068†	22.3	0.1067 ug/L	0.20045	0.1067 ppb	0.20045	187.95%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-5.7	-5.1743 ug/L	15.01463	-5.1743 ppb	15.01463	290.18%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	12.2	4.6522 ug/L	1.78246	4.6522 ppb	1.78246	38.31%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	630.3	13.391 ug/L	1.2721	13.391 ppb	1.2721	9.50%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.4	0.0545 ug/L	0.04173	0.0545 ppb	0.04173	76.53%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	131.5	0.0444 ug/L	0.01091	0.0444 ppb	0.01091	24.58%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.8	9.4361 ug/L	9.02635	9.4361 ppb	9.02635	95.66%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	24.4	0.2525 ug/L	0.09921	0.2525 ppb	0.09921	39.30%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-12.7	-0.2336 ug/L	0.15493	-0.2336 ppb	0.15493	66.32%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	5.0	0.0551 ug/L	0.38685	0.0551 ppb	0.38685	701.84%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	260.8	0.7524 ug/L	0.29751	0.7524 ppb	0.29751	39.54%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.8	9.6817 ug/L	16.54687	9.6817 ppb	16.54687	170.91%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	643.3	112.15 ug/L	10.218	112.15 ppb	10.218	9.11%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-2.9	-124.90 ug/L	67.507	-124.90 ppb	67.507	54.05%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	31.4	0.0382 ug/L	0.01039	0.0382 ppb	0.01039	27.22%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	11.9	0.8099 ug/L	0.67004	0.8099 ppb	0.67004	82.73%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-1.4	-0.3898 ug/L	10.76079	-0.3898 ppb	10.76079	>999.9%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	0.8	0.0172 ug/L	0.34057	0.0172 ppb	0.34057	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.7	-0.4625 ug/L	5.35380	-0.4625 ppb	5.35380	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-0.1	-0.0141 ug/L	1.80665	-0.0141 ppb	1.80665	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	7.5	9.0978 ug/L	2.12777	9.0978 ppb	2.12777	23.39%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	13.8	4.3204 ug/L	1.07125	4.3204 ppb	1.07125	24.79%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.3	-0.6545 ug/L	0.77625	-0.6545 ppb	0.77625	118.61%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	59.4	1.7583 ug/L	0.61009	1.7583 ppb	0.61009	34.70%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	17.1	2.7752 ug/L	1.05193	2.7752 ppb	1.05193	37.90%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	26.4	0.1781 ug/L	0.14825	0.1781 ppb	0.14825	83.22%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-131.5	-0.1878 ug/L	0.08806	-0.1878 ppb	0.08806	46.90%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	8.0	2.2767 ug/L	1.06159	2.2767 ppb	1.06159	46.63%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-190.0	-6.1678 ug/L	5.41148	-6.1678 ppb	5.41148	87.74%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-94.6	-0.6607 ug/L	0.26965	-0.6607 ppb	0.26965	40.81%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	27.0	0.2292 ug/L	0.02413	0.2292 ppb	0.02413	10.53%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	51.2	3.2457 ug/L	0.50853	3.2457 ppb	0.50853	15.67%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

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Analysis Begun

Start Time: 2/3/2010 10:55:09

Plasma On Time: 2/1/2010 05:43:14

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\020310.sif

Batch ID:

Results Data Set: 020310

Results Library: C:\pe\Optima3\Results\Results.mdb

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Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 2/3/2010 09:24:10

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: LR2

Date Collected: 2/3/2010 10:55:10

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3807.2	3807.2	96.1 %		10:57:24
1	Y RADIAL	4358.4	4358.4	96.03 %		10:57:04
1	Al 396.153Radial†	-190.2	-2.0	-1.8506 ug/L	-1.8506 ppb	10:57:04

1	Ca 317.933Radial†	15.9	0.3	0.5032 ug/L	0.5032 ppb	10:57:24
1	Fe 238.204 Radial†	-0.5	-12.3	8.0270 ug/L	8.0270 ppb	10:57:24
1	K 766.490 Radial†	3370.9	475.5	82.906 ug/L	82.906 ppb	10:57:04
1	Mg 279.077 IEC†	4.7	1.6	67.725 ug/L	67.725 ppb	10:57:24
1	Na 589.592 Radial†	-1552.0	-29.1	-8.3522 ug/L	-8.3522 ppb	10:57:04
1	Sr 421.552†	45.7	47.1	0.3180 ug/L	0.3180 ppb	10:57:04
1	Sc 361.383	853204.5	853204.5	98.664 %		10:58:21
1	Y 371.029	672977.2	672977.2	98.664 %		10:58:21
1	Ag 328.068†	473.9	45.2	0.1504 ug/L	0.1504 ppb	10:58:21
1	As 188.979†	-20.1	15.1	5.7330 ug/L	5.7330 ppb	10:58:41
1	B 249.677†	447.2	1060.0	7.7845 ug/L	7.7845 ppb	10:58:21
1	Ba 233.527†	3.6	21.7	0.1559 ug/L	0.1559 ppb	10:58:41
1	Be 313.107†	-3770.0	123.0	0.0421 ug/L	0.0421 ppb	10:58:21
1	Cd 226.502†	-190.7	6.4	0.0837 ug/L	0.0837 ppb	10:58:41
1	Co 228.616†	274224.4	278025.2	5169.1 ug/L	5169.1 ppb	10:58:21
1	Cr 267.716†	141.1	54.0	0.5712 ug/L	0.5712 ppb	10:58:21
1	Cu 324.752†	6301.8	-461.1	-1.3310 ug/L	-1.3310 ppb	10:58:21
1	Mn 257.610†	518.0	32.6	0.0161 ug/L	0.0161 ppb	10:58:41
1	Mo 202.031†	16.5	13.9	0.9363 ug/L	0.9363 ppb	10:58:41
1	Ni 231.604†	218.4	138.2	0.0192 ug/L	0.0192 ppb	10:58:41
1	P 214.914†	18645.9	18664.0	9488.7 ug/L	9488.7 ppb	10:58:21
1	Pb 220.353†	-51.3	19.2	2.1201 ug/L	2.1201 ppb	10:58:41
1	S 181.975 Axial†	56.4	5.2	6.3300 ug/L	6.3300 ppb	10:58:41
1	Sb 206.836†	58.5	23.7	7.3287 ug/L	7.3287 ppb	10:58:41
1	Se 196.026†	-28.9	0.3	-0.3088 ug/L	-0.3088 ppb	10:58:41
1	Si 251.611†	495.7	12.8	0.3699 ug/L	0.3699 ppb	10:58:41
1	Sn 189.927†	17.5	0.1	0.0082 ug/L	0.0082 ppb	10:58:41
1	Ti 334.940†	-1642.4	29.9	0.0405 ug/L	0.0405 ppb	10:58:21
1	Tl 190.801†	44.9	88.7	2.7110 ug/L	2.7110 ppb	10:58:41
1	U 409.014†	-4283.1	-16.4	-0.5152 ug/L	-0.5152 ppb	10:58:21
1	V 292.402†	-1881.5	-199.1	-1.3475 ug/L	-1.3475 ppb	10:58:21
1	Zn 213.857†	1577.2	853.4	7.2964 ug/L	7.2964 ppb	10:58:41
1	SiO2†	515.9	-9.6	-0.6363 ug/L	-0.6363 ppb	10:59:38
2	Sc Radial	3818.3	3818.3	96.4 %		10:57:49
2	Y RADIAL	4267.6	4267.6	94.03 %		10:57:29
2	Al 396.153Radial†	-196.8	-8.3	-7.4955 ug/L	-7.4955 ppb	10:57:29
2	Ca 317.933Radial†	28.8	13.6	27.029 ug/L	27.029 ppb	10:57:49
2	Fe 238.204 Radial†	1.2	-10.6	28.048 ug/L	28.048 ppb	10:57:49
2	K 766.490 Radial†	3445.3	542.5	94.568 ug/L	94.568 ppb	10:57:29
2	Mg 279.077 IEC†	1.2	-2.1	-89.081 ug/L	-89.081 ppb	10:57:49
2	Na 589.592 Radial†	-1564.6	-37.6	-10.770 ug/L	-10.770 ppb	10:57:29
2	Sr 421.552†	-10.8	-11.7	-0.0791 ug/L	-0.0791 ppb	10:57:29
2	Sc 361.383	852267.2	852267.2	98.555 %		10:58:47
2	Y 371.029	672878.0	672878.0	98.649 %		10:58:47
2	Ag 328.068†	536.7	109.4	0.4559 ug/L	0.4559 ppb	10:58:47
2	As 188.979†	-34.9	0.0	-0.0219 ug/L	-0.0219 ppb	10:59:07
2	B 249.677†	423.0	1036.0	7.2826 ug/L	7.2826 ppb	10:58:47
2	Ba 233.527†	16.5	34.8	0.2580 ug/L	0.2580 ppb	10:59:07
2	Be 313.107†	-3842.9	44.9	0.0156 ug/L	0.0156 ppb	10:58:47
2	Cd 226.502†	-202.5	-5.9	-0.0469 ug/L	-0.0469 ppb	10:59:07
2	Co 228.616†	273698.1	277796.9	5164.9 ug/L	5164.9 ppb	10:58:47
2	Cr 267.716†	76.1	-11.9	-0.1277 ug/L	-0.1277 ppb	10:58:47
2	Cu 324.752†	6405.0	-349.4	-1.0079 ug/L	-1.0079 ppb	10:58:47
2	Mn 257.610†	535.1	50.5	0.0429 ug/L	0.0429 ppb	10:59:07
2	Mo 202.031†	15.5	12.9	0.8705 ug/L	0.8705 ppb	10:59:07
2	Ni 231.604†	223.3	143.4	0.1396 ug/L	0.1396 ppb	10:59:07
2	P 214.914†	18641.2	18680.0	9496.8 ug/L	9496.8 ppb	10:58:47
2	Pb 220.353†	-41.5	29.1	3.1993 ug/L	3.1993 ppb	10:59:07
2	S 181.975 Axial†	58.6	7.5	9.0857 ug/L	9.0857 ppb	10:59:07
2	Sb 206.836†	49.3	14.5	4.5064 ug/L	4.5064 ppb	10:59:07
2	Se 196.026†	-30.4	-1.3	-1.1184 ug/L	-1.1184 ppb	10:59:07
2	Si 251.611†	526.4	44.6	1.3150 ug/L	1.3150 ppb	10:59:07
2	Sn 189.927†	25.5	8.3	1.3459 ug/L	1.3459 ppb	10:59:07
2	Ti 334.940†	-1580.3	91.1	0.1522 ug/L	0.1522 ppb	10:58:47
2	Tl 190.801†	59.9	104.0	7.0933 ug/L	7.0933 ppb	10:59:07
2	U 409.014†	-4357.1	-96.2	-3.1084 ug/L	-3.1084 ppb	10:58:47
2	V 292.402†	-1687.5	-4.4	-0.0072 ug/L	-0.0072 ppb	10:58:47
2	Zn 213.857†	1590.8	869.0	7.4266 ug/L	7.4266 ppb	10:59:07
2	SiO2†	542.8	18.3	1.1464 ug/L	1.1464 ppb	10:59:43
3	Sc Radial	3791.9	3791.9	95.8 %		10:58:15
3	Y RADIAL	4336.7	4336.7	95.56 %		10:57:55

3	Al 396.153Radial†	-182.1	5.6	5.0572 ug/L	5.0572 ppb	10:57:55
3	Ca 317.933Radial†	19.1	3.7	7.3750 ug/L	7.3750 ppb	10:58:15
3	Fe 238.204 Radial†	-0.5	-12.3	7.2395 ug/L	7.2395 ppb	10:58:15
3	K 766.490 Radial†	3454.5	577.0	100.60 ug/L	100.60 ppb	10:57:55
3	Mg 279.077 IEC†	2.7	-0.5	-22.652 ug/L	-22.652 ppb	10:58:15
3	Na 589.592 Radial†	-1536.6	-19.6	-5.6229 ug/L	-5.6229 ppb	10:57:55
3	Sr 421.552†	32.3	33.3	0.2251 ug/L	0.2251 ppb	10:57:55
3	Sc 361.383	855259.8	855259.8	98.901 %		10:59:12
3	Y 371.029	676778.3	676778.3	99.221 %		10:59:12
3	Ag 328.068†	445.7	15.5	0.0172 ug/L	0.0172 ppb	10:59:12
3	As 188.979†	-20.6	14.6	5.5287 ug/L	5.5287 ppb	10:59:32
3	B 249.677†	353.7	964.4	5.8169 ug/L	5.8169 ppb	10:59:12
3	Ba 233.527†	2.8	20.9	0.1532 ug/L	0.1532 ppb	10:59:32
3	Be 313.107†	-3819.5	82.1	0.0284 ug/L	0.0284 ppb	10:59:12
3	Cd 226.502†	-203.7	-6.3	-0.0478 ug/L	-0.0478 ppb	10:59:32
3	Co 228.616†	273699.5	276826.6	5146.8 ug/L	5146.8 ppb	10:59:12
3	Cr 267.716†	110.6	22.7	0.2381 ug/L	0.2381 ppb	10:59:12
3	Cu 324.752†	6294.6	-483.8	-1.3988 ug/L	-1.3988 ppb	10:59:12
3	Mn 257.610†	493.7	6.8	-0.0066 ug/L	-0.0066 ppb	10:59:32
3	Mo 202.031†	1.1	-1.8	-0.1306 ug/L	-0.1306 ppb	10:59:32
3	Ni 231.604†	235.1	154.5	0.4023 ug/L	0.4023 ppb	10:59:32
3	P 214.914†	18609.9	18582.2	9447.2 ug/L	9447.2 ppb	10:59:12
3	Pb 220.353†	-54.1	16.4	1.8142 ug/L	1.8142 ppb	10:59:32
3	S 181.975 Axial†	68.6	17.5	21.135 ug/L	21.135 ppb	10:59:32
3	Sb 206.836†	57.8	22.9	7.0776 ug/L	7.0776 ppb	10:59:32
3	Se 196.026†	-28.2	1.0	0.0990 ug/L	0.0990 ppb	10:59:32
3	Si 251.611†	525.5	41.7	1.2435 ug/L	1.2435 ppb	10:59:32
3	Sn 189.927†	26.1	8.8	1.4218 ug/L	1.4218 ppb	10:59:32
3	Ti 334.940†	-1550.9	126.5	0.1950 ug/L	0.1950 ppb	10:59:12
3	Tl 190.801†	49.1	92.9	4.0104 ug/L	4.0104 ppb	10:59:32
3	U 409.014†	-4141.6	137.1	4.4663 ug/L	4.4663 ppb	10:59:12
3	V 292.402†	-1679.8	9.4	0.0924 ug/L	0.0924 ppb	10:59:12
3	Zn 213.857†	1616.0	888.9	7.5970 ug/L	7.5970 ppb	10:59:32
3	SiO2†	542.2	15.8	1.0123 ug/L	1.0123 ppb	10:59:48

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	853577.2	98.707 %		0.1770				0.18%
Sc Radial	3805.8	96.1 %		0.34				0.35%
Y 371.029	674211.1	98.845 %		0.3260				0.33%
Y RADIAL	4320.9	95.21 %		1.046				1.10%
Ag 328.068†	56.7	0.2078 ug/L		0.22490	0.2078 ppb		0.22490	108.21%
Al 396.153Radial†	-1.6	-1.4297 ug/L		6.28692	-1.4297 ppb		6.28692	439.75%
As 188.979†	9.9	3.7466 ug/L		3.26526	3.7466 ppb		3.26526	87.15%
B 249.677†	1020.1	6.9613 ug/L		1.02240	6.9613 ppb		1.02240	14.69%
Ba 233.527†	25.8	0.1890 ug/L		0.05976	0.1890 ppb		0.05976	31.62%
Be 313.107†	83.4	0.0287 ug/L		0.01322	0.0287 ppb		0.01322	46.04%
Ca 317.933Radial†	5.9	11.636 ug/L		13.7666	11.636 ppb		13.7666	118.31%
Cd 226.502†	-1.9	-0.0036 ug/L		0.07567	-0.0036 ppb		0.07567	>999.9%
Co 228.616†	277549.6	5160.3 ug/L		11.83	5160.3 ppb		11.83	0.23%
Cr 267.716†	21.6	0.2272 ug/L		0.34956	0.2272 ppb		0.34956	153.86%
Cu 324.752†	-431.4	-1.2459 ug/L		0.20888	-1.2459 ppb		0.20888	16.76%
Fe 238.204 Radial†	-11.7	14.438 ug/L		11.7930	14.438 ppb		11.7930	81.68%
K 766.490 Radial†	531.7	92.690 ug/L		8.9936	92.690 ppb		8.9936	9.70%
Mg 279.077 IEC†	-0.3	-14.669 ug/L		78.7071	-14.669 ppb		78.7071	536.54%
Mn 257.610†	30.0	0.0175 ug/L		0.02478	0.0175 ppb		0.02478	141.98%
Mo 202.031†	8.4	0.5587 ug/L		0.59786	0.5587 ppb		0.59786	107.00%
Na 589.592 Radial†	-28.8	-8.2483 ug/L		2.57510	-8.2483 ppb		2.57510	31.22%
Ni 231.604†	145.3	0.1870 ug/L		0.19592	0.1870 ppb		0.19592	104.77%
P 214.914†	18642.1	9477.5 ug/L		26.62	9477.5 ppb		26.62	0.28%
Pb 220.353†	21.6	2.3779 ug/L		0.72766	2.3779 ppb		0.72766	30.60%
S 181.975 Axial†	10.1	12.183 ug/L		7.8734	12.183 ppb		7.8734	64.62%
Sb 206.836†	20.4	6.3042 ug/L		1.56204	6.3042 ppb		1.56204	24.78%
Se 196.026†	-0.0	-0.4427 ug/L		0.61964	-0.4427 ppb		0.61964	139.96%
Si 251.611†	33.0	0.9762 ug/L		0.52623	0.9762 ppb		0.52623	53.91%
Sn 189.927†	5.7	0.9253 ug/L		0.79515	0.9253 ppb		0.79515	85.94%
Sr 421.552†	22.9	0.1546 ug/L		0.20768	0.1546 ppb		0.20768	134.30%
Ti 334.940†	82.5	0.1292 ug/L		0.07978	0.1292 ppb		0.07978	61.73%
Tl 190.801†	95.2	4.6049 ug/L		2.25081	4.6049 ppb		2.25081	48.88%

U 409.014†	8.2	0.2809 ug/L	3.84957	0.2809 ppb	3.84957 >999.9%
V 292.402†	-64.7	-0.4208 ug/L	0.80408	-0.4208 ppb	0.80408 191.09%
Zn 213.857†	870.4	7.4400 ug/L	0.15078	7.4400 ppb	0.15078 2.03%
SiO2†	8.2	0.5075 ug/L	0.99276	0.5075 ppb	0.99276 195.63%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 11:01:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3796.8	3796.8	95.9 %		11:04:11
1	Y RADIAL	4220.9	4220.9	93.00 %		11:03:51
1	Al 396.153Radial†	5204.7	5624.2	5029.2 ug/L	5029.2 ppb	11:03:51
1	Ca 317.933Radial†	2481.9	2572.2	5099.8 ug/L	5099.8 ppb	11:04:11
1	Fe 238.204 Radial†	423.2	429.6	5130.5 ug/L	5130.5 ppb	11:04:11
1	K 766.490 Radial†	30512.1	28792.7	5013.4 ug/L	5013.4 ppb	11:03:51
1	Mg 279.077 IEC†	119.2	121.1	5268.6 ug/L	5268.6 ppb	11:04:11
1	Na 589.592 Radial†	32734.9	35726.9	10244 ug/L	10244 ppb	11:03:51
1	Sr 421.552†	69913.6	72917.7	492.56 ug/L	492.56 ppb	11:03:51
1	Sc 361.383	861273.8	861273.8	99.597 %		11:05:10
1	Y 371.029	671762.9	671762.9	98.486 %		11:05:10
1	Ag 328.068†	105674.3	105667.0	482.83 ug/L	482.83 ppb	11:05:10
1	As 188.979†	1213.6	1254.0	482.52 ug/L	482.52 ppb	11:05:30
1	B 249.677†	21616.6	22311.0	471.87 ug/L	471.87 ppb	11:05:10
1	Ba 233.527†	63545.8	63821.1	482.07 ug/L	482.07 ppb	11:05:10
1	Be 313.107†	1398182.2	1407787.8	481.12 ug/L	481.12 ppb	11:05:10
1	Cd 226.502†	45556.3	45940.4	479.09 ug/L	479.09 ppb	11:05:10
1	Co 228.616†	25202.4	25390.9	472.12 ug/L	472.12 ppb	11:05:30
1	Cr 267.716†	45041.5	45134.9	482.12 ug/L	482.12 ppb	11:05:10
1	Cu 324.752†	172092.7	165941.2	476.31 ug/L	476.31 ppb	11:05:10
1	Mn 257.610†	467257.8	468657.4	480.09 ug/L	480.09 ppb	11:05:10
1	Mo 202.031†	7044.0	7069.7	482.13 ug/L	482.13 ppb	11:05:30
1	Ni 231.604†	20933.2	20934.7	475.38 ug/L	475.38 ppb	11:05:30
1	P 214.914†	4857.7	4643.0	2267.4 ug/L	2267.4 ppb	11:05:30
1	Pb 220.353†	4311.0	4399.6	482.93 ug/L	482.93 ppb	11:05:30
1	S 181.975 Axial†	837.6	789.0	953.83 ug/L	953.83 ppb	11:05:30
1	Sb 206.836†	1574.7	1545.6	493.08 ug/L	493.08 ppb	11:05:30
1	Se 196.026†	841.9	874.9	491.22 ug/L	491.22 ppb	11:05:30
1	Si 251.611†	81167.7	81006.8	2404.3 ug/L	2404.3 ppb	11:05:10
1	Sn 189.927†	2962.8	2957.2	481.01 ug/L	481.01 ppb	11:05:30
1	Ti 334.940†	315079.4	318049.8	488.20 ug/L	488.20 ppb	11:05:10
1	Tl 190.801†	1629.1	1679.0	483.17 ug/L	483.17 ppb	11:05:30
1	U 409.014†	9736.7	14100.9	455.96 ug/L	455.96 ppb	11:05:10
1	V 292.402†	66871.6	68850.2	484.28 ug/L	484.28 ppb	11:05:10
1	Zn 213.857†	56659.1	56143.4	476.08 ug/L	476.08 ppb	11:05:10
1	SiO2†	80222.8	80015.2	5093.8 ug/L	5093.8 ppb	11:06:30
2	Sc Radial	3797.6	3797.6	95.9 %		11:04:36
2	Y RADIAL	4330.4	4330.4	95.42 %		11:04:16
2	Al 396.153Radial†	5279.1	5700.7	5097.8 ug/L	5097.8 ppb	11:04:16
2	Ca 317.933Radial†	2489.8	2580.0	5115.2 ug/L	5115.2 ppb	11:04:36
2	Fe 238.204 Radial†	426.7	433.1	5173.0 ug/L	5173.0 ppb	11:04:36
2	K 766.490 Radial†	30894.1	29184.7	5081.7 ug/L	5081.7 ppb	11:04:16
2	Mg 279.077 IEC†	120.5	122.3	5322.4 ug/L	5322.4 ppb	11:04:36
2	Na 589.592 Radial†	33099.1	36099.8	10351 ug/L	10351 ppb	11:04:16
2	Sr 421.552†	71030.9	74068.2	500.33 ug/L	500.33 ppb	11:04:16
2	Sc 361.383	859176.8	859176.8	99.354 %		11:05:37
2	Y 371.029	668673.8	668673.8	98.033 %		11:05:37
2	Ag 328.068†	105451.3	105701.6	483.00 ug/L	483.00 ppb	11:05:37
2	As 188.979†	1203.1	1246.3	479.62 ug/L	479.62 ppb	11:05:57
2	B 249.677†	21644.2	22391.7	473.58 ug/L	473.58 ppb	11:05:37
2	Ba 233.527†	63323.3	63752.9	481.56 ug/L	481.56 ppb	11:05:37
2	Be 313.107†	1392391.4	1405385.8	480.30 ug/L	480.30 ppb	11:05:37
2	Cd 226.502†	45373.7	45868.2	478.34 ug/L	478.34 ppb	11:05:37
2	Co 228.616†	25203.2	25453.4	473.28 ug/L	473.28 ppb	11:05:57
2	Cr 267.716†	44779.3	44981.4	480.48 ug/L	480.48 ppb	11:05:37
2	Cu 324.752†	172209.0	166480.1	477.86 ug/L	477.86 ppb	11:05:37
2	Mn 257.610†	466193.0	468730.7	480.17 ug/L	480.17 ppb	11:05:37
2	Mo 202.031†	7057.2	7100.3	484.22 ug/L	484.22 ppb	11:05:57
2	Ni 231.604†	20915.3	20968.1	476.14 ug/L	476.14 ppb	11:05:57

2	P 214.914†	4850.0	4647.0	2269.1 ug/L	2269.1 ppb	11:05:57
2	Pb 220.353†	4302.7	4401.8	483.18 ug/L	483.18 ppb	11:05:57
2	S 181.975 Axial†	832.2	785.7	949.77 ug/L	949.77 ppb	11:05:57
2	Sb 206.836†	1575.4	1550.1	494.50 ug/L	494.50 ppb	11:05:57
2	Se 196.026†	838.7	873.7	490.72 ug/L	490.72 ppb	11:05:57
2	Si 251.611†	80952.5	80989.1	2403.7 ug/L	2403.7 ppb	11:05:37
2	Sn 189.927†	2945.3	2946.8	479.33 ug/L	479.33 ppb	11:05:57
2	Ti 334.940†	314862.4	318603.5	489.04 ug/L	489.04 ppb	11:05:37
2	Tl 190.801†	1625.9	1679.7	483.40 ug/L	483.40 ppb	11:05:57
2	U 409.014†	9825.8	14214.4	459.64 ug/L	459.64 ppb	11:05:37
2	V 292.402†	66763.8	68905.6	484.69 ug/L	484.69 ppb	11:05:37
2	Zn 213.857†	56363.0	55984.3	474.71 ug/L	474.71 ppb	11:05:37
2	SiO2†	81076.0	81070.6	5161.1 ug/L	5161.1 ppb	11:06:35
3	Sc Radial	3849.4	3849.4	97.2 %		11:05:01
3	Y RADIAL	4264.4	4264.4	93.96 %		11:04:41
3	Al 396.153Radial†	5232.9	5579.1	4988.6 ug/L	4988.6 ppb	11:04:41
3	Ca 317.933Radial†	2495.9	2551.4	5058.5 ug/L	5058.5 ppb	11:05:01
3	Fe 238.204 Radial†	427.3	427.7	5108.3 ug/L	5108.3 ppb	11:05:01
3	K 766.490 Radial†	30718.0	28570.0	4974.7 ug/L	4974.7 ppb	11:04:41
3	Mg 279.077 IEC†	117.9	118.0	5133.7 ug/L	5133.7 ppb	11:05:01
3	Na 589.592 Radial†	32743.9	35270.0	10113 ug/L	10113 ppb	11:04:41
3	Sr 421.552†	70293.0	72312.6	488.47 ug/L	488.47 ppb	11:04:41
3	Sc 361.383	861086.6	861086.6	99.575 %		11:06:05
3	Y 371.029	671612.2	671612.2	98.464 %		11:06:05
3	Ag 328.068†	105604.5	105620.0	482.61 ug/L	482.61 ppb	11:06:05
3	As 188.979†	1206.9	1247.5	480.03 ug/L	480.03 ppb	11:06:25
3	B 249.677†	21621.6	22320.6	472.09 ug/L	472.09 ppb	11:06:05
3	Ba 233.527†	63458.5	63747.4	481.52 ug/L	481.52 ppb	11:06:05
3	Be 313.107†	1397657.2	1407565.8	481.04 ug/L	481.04 ppb	11:06:05
3	Cd 226.502†	45453.1	45846.7	478.12 ug/L	478.12 ppb	11:06:05
3	Co 228.616†	25115.3	25308.9	470.59 ug/L	470.59 ppb	11:06:25
3	Cr 267.716†	44941.7	45044.5	481.15 ug/L	481.15 ppb	11:06:05
3	Cu 324.752†	172403.0	166290.4	477.31 ug/L	477.31 ppb	11:06:05
3	Mn 257.610†	466729.6	468229.0	479.66 ug/L	479.66 ppb	11:06:05
3	Mo 202.031†	7038.2	7065.4	481.83 ug/L	481.83 ppb	11:06:25
3	Ni 231.604†	20864.8	20870.7	473.93 ug/L	473.93 ppb	11:06:25
3	P 214.914†	4835.4	4621.6	2256.3 ug/L	2256.3 ppb	11:06:25
3	Pb 220.353†	4305.9	4395.5	482.46 ug/L	482.46 ppb	11:06:25
3	S 181.975 Axial†	828.7	780.3	943.24 ug/L	943.24 ppb	11:06:25
3	Sb 206.836†	1579.5	1550.7	494.63 ug/L	494.63 ppb	11:06:25
3	Se 196.026†	844.5	877.6	492.66 ug/L	492.66 ppb	11:06:25
3	Si 251.611†	80952.3	80808.2	2398.4 ug/L	2398.4 ppb	11:06:05
3	Sn 189.927†	2953.8	2948.8	479.64 ug/L	479.64 ppb	11:06:25
3	Ti 334.940†	314807.3	317845.3	487.89 ug/L	487.89 ppb	11:06:05
3	Tl 190.801†	1629.0	1679.2	483.23 ug/L	483.23 ppb	11:06:25
3	U 409.014†	10036.1	14403.7	465.79 ug/L	465.79 ppb	11:06:05
3	V 292.402†	67030.0	69023.9	485.50 ug/L	485.50 ppb	11:06:05
3	Zn 213.857†	56447.4	55943.2	474.38 ug/L	474.38 ppb	11:06:05
3	SiO2†	80782.5	80594.8	5130.8 ug/L	5130.8 ppb	11:06:40

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	860512.4	99.509 %	0.1342			0.13%
Sc Radial	3814.6	96.3 %	0.76			0.79%
Y 371.029	670683.0	98.327 %	0.2553			0.26%
Y RADIAL	4271.9	94.13 %	1.215			1.29%
Ag 328.068†	105662.9	482.81 ug/L	0.197	482.81 ppb	0.197	0.04%
QC value within limits for Ag 328.068 Recovery = 96.56%						
Al 396.153Radial†	5634.7	5038.5 ug/L	55.18	5038.5 ppb	55.18	1.10%
QC value within limits for Al 396.153Radial Recovery = 100.77%						
As 188.979†	1249.3	480.72 ug/L	1.569	480.72 ppb	1.569	0.33%
QC value within limits for As 188.979 Recovery = 96.14%						
B 249.677†	22341.1	472.51 ug/L	0.929	472.51 ppb	0.929	0.20%
QC value within limits for B 249.677 Recovery = 94.50%						
Ba 233.527†	63773.8	481.72 ug/L	0.308	481.72 ppb	0.308	0.06%
QC value within limits for Ba 233.527 Recovery = 96.34%						
Be 313.107†	1406913.2	480.82 ug/L	0.451	480.82 ppb	0.451	0.09%
QC value within limits for Be 313.107 Recovery = 96.16%						
Ca 317.933Radial†	2567.9	5091.2 ug/L	29.35	5091.2 ppb	29.35	0.58%

QC value within limits for Ca 317.933 Radial Recovery = 101.82%							
Cd	226.502†	45885.1	478.52 ug/L	0.512	478.52 ppb	0.512	0.11%
QC value within limits for Cd 226.502 Recovery = 95.70%							
Co	228.616†	25384.4	472.00 ug/L	1.349	472.00 ppb	1.349	0.29%
QC value within limits for Co 228.616 Recovery = 94.40%							
Cr	267.716†	45053.6	481.25 ug/L	0.823	481.25 ppb	0.823	0.17%
QC value within limits for Cr 267.716 Recovery = 96.25%							
Cu	324.752†	166237.2	477.16 ug/L	0.784	477.16 ppb	0.784	0.16%
QC value within limits for Cu 324.752 Recovery = 95.43%							
Fe	238.204 Radial†	430.2	5137.3 ug/L	32.87	5137.3 ppb	32.87	0.64%
QC value within limits for Fe 238.204 Radial Recovery = 102.75%							
K	766.490 Radial†	28849.1	5023.3 ug/L	54.20	5023.3 ppb	54.20	1.08%
QC value within limits for K 766.490 Radial Recovery = 100.47%							
Mg	279.077 IEC†	120.5	5241.6 ug/L	97.20	5241.6 ppb	97.20	1.85%
QC value within limits for Mg 279.077 IEC Recovery = 104.83%							
Mn	257.610†	468539.0	479.97 ug/L	0.276	479.97 ppb	0.276	0.06%
QC value within limits for Mn 257.610 Recovery = 95.99%							
Mo	202.031†	7078.5	482.73 ug/L	1.299	482.73 ppb	1.299	0.27%
QC value within limits for Mo 202.031 Recovery = 96.55%							
Na	589.592 Radial†	35698.9	10236 ug/L	119.2	10236 ppb	119.2	1.16%
QC value within limits for Na 589.592 Radial Recovery = 102.36%							
Ni	231.604†	20924.5	475.15 ug/L	1.124	475.15 ppb	1.124	0.24%
QC value within limits for Ni 231.604 Recovery = 95.03%							
P	214.914†	4637.2	2264.3 ug/L	6.94	2264.3 ppb	6.94	0.31%
QC value within limits for P 214.914 Recovery = 90.57%							
Pb	220.353†	4399.0	482.86 ug/L	0.365	482.86 ppb	0.365	0.08%
QC value within limits for Pb 220.353 Recovery = 96.57%							
S	181.975 Axial†	785.0	948.95 ug/L	5.340	948.95 ppb	5.340	0.56%
QC value within limits for S 181.975 Axial Recovery = 94.89%							
Sb	206.836†	1548.8	494.07 ug/L	0.857	494.07 ppb	0.857	0.17%
QC value within limits for Sb 206.836 Recovery = 98.81%							
Se	196.026†	875.4	491.53 ug/L	1.007	491.53 ppb	1.007	0.20%
QC value within limits for Se 196.026 Recovery = 98.31%							
Si	251.611†	80934.7	2402.1 ug/L	3.26	2402.1 ppb	3.26	0.14%
QC value within limits for Si 251.611 Recovery = 96.09%							
Sn	189.927†	2950.9	479.99 ug/L	0.895	479.99 ppb	0.895	0.19%
QC value within limits for Sn 189.927 Recovery = 96.00%							
Sr	421.552†	73099.5	493.79 ug/L	6.025	493.79 ppb	6.025	1.22%
QC value within limits for Sr 421.552 Recovery = 98.76%							
Ti	334.940†	318166.2	488.38 ug/L	0.600	488.38 ppb	0.600	0.12%
QC value within limits for Ti 334.940 Recovery = 97.68%							
Tl	190.801†	1679.3	483.27 ug/L	0.116	483.27 ppb	0.116	0.02%
QC value within limits for Tl 190.801 Recovery = 96.65%							
U	409.014†	14239.7	460.47 ug/L	4.968	460.47 ppb	4.968	1.08%
QC value within limits for U 409.014 Recovery = 92.09%							
V	292.402†	68926.6	484.82 ug/L	0.621	484.82 ppb	0.621	0.13%
QC value within limits for V 292.402 Recovery = 96.96%							
Zn	213.857†	56023.6	475.06 ug/L	0.903	475.06 ppb	0.903	0.19%
QC value within limits for Zn 213.857 Recovery = 95.01%							
SiO2†		80560.2	5128.6 ug/L	33.71	5128.6 ppb	33.71	0.66%
QC value within limits for SiO2 Recovery = 95.91%							
All analyte(s) passed QC.							

Sequence No.: 3
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 2/3/2010 11:08:51
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3782.8	3782.8	95.5 %		11:11:03
1	Y RADIAL	4286.7	4286.7	94.45 %		11:10:43
1	Al 396.153Radial†	-189.9	-3.0	-2.6999 ug/L	-2.6999 ppb	11:10:43
1	Ca 317.933Radial†	19.6	4.3	8.4566 ug/L	8.4566 ppb	11:11:03
1	Fe 238.204 Radial†	12.6	1.4	16.098 ug/L	16.098 ppb	11:11:03
1	K 766.490 Radial†	3420.2	549.7	95.846 ug/L	95.846 ppb	11:10:43
1	Mg 279.077 IEC†	1.2	-2.0	-88.997 ug/L	-88.997 ppb	11:11:03
1	Na 589.592 Radial†	-1545.1	-32.3	-9.2727 ug/L	-9.2727 ppb	11:10:43
1	Sr 421.552†	42.4	43.9	0.2968 ug/L	0.2968 ppb	11:10:43
1	Sc 361.383	845981.9	845981.9	97.828 %		11:12:00
1	Y 371.029	667757.4	667757.4	97.898 %		11:12:00
1	Ag 328.068†	435.9	10.4	0.0587 ug/L	0.0587 ppb	11:12:00
1	As 188.979†	-21.9	13.0	4.9761 ug/L	4.9761 ppb	11:12:20
1	B 249.677†	-329.4	270.1	5.7354 ug/L	5.7354 ppb	11:12:00
1	Ba 233.527†	3.7	21.8	0.1637 ug/L	0.1637 ppb	11:12:20
1	Be 313.107†	-3828.3	30.8	0.0103 ug/L	0.0103 ppb	11:12:00
1	Cd 226.502†	-200.7	-5.6	-0.0613 ug/L	-0.0613 ppb	11:12:20
1	Co 228.616†	-81.7	2.9	0.0555 ug/L	0.0555 ppb	11:12:20
1	Cr 267.716†	113.0	26.4	0.2856 ug/L	0.2856 ppb	11:12:00
1	Cu 324.752†	6876.0	180.4	0.5239 ug/L	0.5239 ppb	11:12:00
1	Mn 257.610†	528.0	47.3	0.0536 ug/L	0.0536 ppb	11:12:20
1	Mo 202.031†	13.7	11.1	0.7605 ug/L	0.7605 ppb	11:12:20
1	Ni 231.604†	98.8	17.8	0.4044 ug/L	0.4044 ppb	11:12:20
1	P 214.914†	236.2	7.0	3.4365 ug/L	3.4365 ppb	11:12:20
1	Pb 220.353†	-88.0	-18.8	-2.0592 ug/L	-2.0592 ppb	11:12:20
1	S 181.975 Axial†	57.3	6.6	8.0419 ug/L	8.0419 ppb	11:12:20
1	Sb 206.836†	51.7	17.3	5.3574 ug/L	5.3574 ppb	11:12:20
1	Se 196.026†	-24.2	4.8	2.6583 ug/L	2.6583 ppb	11:12:20
1	Si 251.611†	533.3	55.5	1.6434 ug/L	1.6434 ppb	11:12:20
1	Sn 189.927†	27.0	10.0	1.6257 ug/L	1.6257 ppb	11:12:20
1	Ti 334.940†	-1701.9	-45.1	-0.0568 ug/L	-0.0568 ppb	11:12:00
1	Tl 190.801†	-39.4	2.9	0.8327 ug/L	0.8327 ppb	11:12:20
1	U 409.014†	-4520.9	-296.5	-9.6252 ug/L	-9.6252 ppb	11:12:00
1	V 292.402†	-1727.9	-58.4	-0.4175 ug/L	-0.4175 ppb	11:12:00
1	Zn 213.857†	773.5	45.6	0.3850 ug/L	0.3850 ppb	11:12:20
1	SiO2†	586.9	67.5	4.2868 ug/L	4.2868 ppb	11:13:16
2	Sc Radial	3817.7	3817.7	96.4 %		11:11:28
2	Y RADIAL	4292.9	4292.9	94.59 %		11:11:08
2	Al 396.153Radial†	-178.9	10.2	9.1297 ug/L	9.1297 ppb	11:11:08
2	Ca 317.933Radial†	17.3	1.6	3.2250 ug/L	3.2250 ppb	11:11:28
2	Fe 238.204 Radial†	11.8	0.5	5.3966 ug/L	5.3966 ppb	11:11:28
2	K 766.490 Radial†	3297.5	389.7	67.940 ug/L	67.940 ppb	11:11:08
2	Mg 279.077 IEC†	3.3	0.1	5.1696 ug/L	5.1696 ppb	11:11:28
2	Na 589.592 Radial†	-1530.9	-2.8	-0.8128 ug/L	-0.8128 ppb	11:11:08
2	Sr 421.552†	42.6	43.7	0.2955 ug/L	0.2955 ppb	11:11:08
2	Sc 361.383	842846.9	842846.9	97.466 %		11:12:25
2	Y 371.029	664565.8	664565.8	97.431 %		11:12:25
2	Ag 328.068†	404.1	-20.6	-0.0924 ug/L	-0.0924 ppb	11:12:25
2	As 188.979†	-16.0	19.0	7.2564 ug/L	7.2564 ppb	11:12:45
2	B 249.677†	-280.1	319.4	6.7856 ug/L	6.7856 ppb	11:12:25
2	Ba 233.527†	-12.1	5.6	0.0399 ug/L	0.0399 ppb	11:12:45
2	Be 313.107†	-3870.7	-27.3	-0.0099 ug/L	-0.0099 ppb	11:12:25
2	Cd 226.502†	-206.9	-12.6	-0.1326 ug/L	-0.1326 ppb	11:12:45
2	Co 228.616†	-81.1	3.2	0.0608 ug/L	0.0608 ppb	11:12:45
2	Cr 267.716†	74.7	-12.4	-0.1323 ug/L	-0.1323 ppb	11:12:25
2	Cu 324.752†	6925.3	257.0	0.7402 ug/L	0.7402 ppb	11:12:25
2	Mn 257.610†	487.4	7.7	0.0082 ug/L	0.0082 ppb	11:12:45
2	Mo 202.031†	12.6	10.1	0.6880 ug/L	0.6880 ppb	11:12:45
2	Ni 231.604†	95.0	14.3	0.3245 ug/L	0.3245 ppb	11:12:45

2	P 214.914†	242.2	14.0	6.9695 ug/L	6.9695 ppb	11:12:45
2	Pb 220.353†	-63.4	6.1	0.6751 ug/L	0.6751 ppb	11:12:45
2	S 181.975 Axial†	54.5	4.0	4.8342 ug/L	4.8342 ppb	11:12:45
2	Sb 206.836†	49.9	15.7	4.8445 ug/L	4.8445 ppb	11:12:45
2	Se 196.026†	-22.6	6.3	3.4254 ug/L	3.4254 ppb	11:12:45
2	Si 251.611†	515.0	38.9	1.1479 ug/L	1.1479 ppb	11:12:45
2	Sn 189.927†	16.9	-0.3	-0.0521 ug/L	-0.0521 ppb	11:12:45
2	Ti 334.940†	-1810.9	-163.4	-0.2491 ug/L	-0.2491 ppb	11:12:25
2	Tl 190.801†	-36.4	5.9	1.6784 ug/L	1.6784 ppb	11:12:45
2	U 409.014†	-4330.8	-118.6	-3.8490 ug/L	-3.8490 ppb	11:12:25
2	V 292.402†	-1802.1	-141.1	-0.9775 ug/L	-0.9775 ppb	11:12:25
2	Zn 213.857†	771.9	46.9	0.3978 ug/L	0.3978 ppb	11:12:45
2	SiO2†	556.4	38.4	2.4339 ug/L	2.4339 ppb	11:13:21
3	Sc Radial	3789.5	3789.5	95.7 %		11:11:53
3	Y RADIAL	4319.2	4319.2	95.17 %		11:11:33
3	Al 396.153Radial†	-217.6	-31.6	-28.408 ug/L	-28.408 ppb	11:11:33
3	Ca 317.933Radial†	18.1	2.7	5.3074 ug/L	5.3074 ppb	11:11:53
3	Fe 238.204 Radial†	12.9	1.6	19.220 ug/L	19.220 ppb	11:11:53
3	K 766.490 Radial†	3439.0	563.0	98.165 ug/L	98.165 ppb	11:11:33
3	Mg 279.077 IEC†	1.0	-2.3	-99.269 ug/L	-99.269 ppb	11:11:53
3	Na 589.592 Radial†	-1608.6	-95.8	-27.480 ug/L	-27.480 ppb	11:11:33
3	Sr 421.552†	10.4	10.5	0.0707 ug/L	0.0707 ppb	11:11:33
3	Sc 361.383	852435.4	852435.4	98.575 %		11:12:51
3	Y 371.029	672356.1	672356.1	98.573 %		11:12:51
3	Ag 328.068†	334.8	-95.5	-0.4219 ug/L	-0.4219 ppb	11:12:51
3	As 188.979†	-22.3	12.8	4.8932 ug/L	4.8932 ppb	11:13:11
3	B 249.677†	-298.9	303.6	6.4472 ug/L	6.4472 ppb	11:12:51
3	Ba 233.527†	12.9	31.2	0.2356 ug/L	0.2356 ppb	11:13:11
3	Be 313.107†	-3935.2	-48.0	-0.0168 ug/L	-0.0168 ppb	11:12:51
3	Cd 226.502†	-202.1	-5.4	-0.0598 ug/L	-0.0598 ppb	11:13:11
3	Co 228.616†	-85.0	0.2	0.0049 ug/L	0.0049 ppb	11:13:11
3	Cr 267.716†	57.5	-30.7	-0.3251 ug/L	-0.3251 ppb	11:12:51
3	Cu 324.752†	6928.4	180.3	0.5218 ug/L	0.5218 ppb	11:12:51
3	Mn 257.610†	521.2	36.2	0.0431 ug/L	0.0431 ppb	11:13:11
3	Mo 202.031†	7.4	4.7	0.3193 ug/L	0.3193 ppb	11:13:11
3	Ni 231.604†	89.7	7.8	0.1762 ug/L	0.1762 ppb	11:13:11
3	P 214.914†	237.1	6.1	2.9756 ug/L	2.9756 ppb	11:13:11
3	Pb 220.353†	-81.8	-11.8	-1.2972 ug/L	-1.2972 ppb	11:13:11
3	S 181.975 Axial†	56.8	5.7	6.9408 ug/L	6.9408 ppb	11:13:11
3	Sb 206.836†	42.5	7.5	2.3305 ug/L	2.3305 ppb	11:13:11
3	Se 196.026†	-28.4	0.7	0.4187 ug/L	0.4187 ppb	11:13:11
3	Si 251.611†	545.3	63.6	1.8883 ug/L	1.8883 ppb	11:13:11
3	Sn 189.927†	19.1	1.8	0.2855 ug/L	0.2855 ppb	11:13:11
3	Ti 334.940†	-1787.5	-118.7	-0.1708 ug/L	-0.1708 ppb	11:12:51
3	Tl 190.801†	-36.3	6.4	1.8158 ug/L	1.8158 ppb	11:13:11
3	U 409.014†	-4437.5	-176.9	-5.7412 ug/L	-5.7412 ppb	11:12:51
3	V 292.402†	-1671.5	12.2	0.0736 ug/L	0.0736 ppb	11:12:51
3	Zn 213.857†	767.7	33.7	0.2844 ug/L	0.2844 ppb	11:13:11
3	SiO2†	555.7	31.3	1.9881 ug/L	1.9881 ppb	11:13:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847088.1	97.956 %	0.5654			0.58%
Sc Radial	3796.7	95.9 %	0.47			0.49%
Y 371.029	668226.4	97.967 %	0.5742			0.59%
Y RADIAL	4299.6	94.74 %	0.381			0.40%
Ag 328.068†	-35.2	-0.1519 ug/L	0.24581	-0.1519 ppb	0.24581	161.87%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-8.1	-7.3261 ug/L	19.19170	-7.3261 ppb	19.19170	261.96%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	15.0	5.7086 ug/L	1.34110	5.7086 ppb	1.34110	23.49%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	297.7	6.3227 ug/L	0.53601	6.3227 ppb	0.53601	8.48%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	19.5	0.1464 ug/L	0.09898	0.1464 ppb	0.09898	67.61%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-14.8	-0.0054 ug/L	0.01410	-0.0054 ppb	0.01410	259.60%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.9	5.6630 ug/L	2.63387	5.6630 ppb	2.63387	46.51%

QC value within limits for Ca 317.933Radial Recovery = Not calculated									
Cd	226.502†	-7.9	-0.0846 ug/L	0.04159	-0.0846 ppb	0.04159	49.18%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	2.1	0.0404 ug/L	0.03084	0.0404 ppb	0.03084	76.35%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-5.6	-0.0573 ug/L	0.31219	-0.0573 ppb	0.31219	545.25%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	205.9	0.5953 ug/L	0.12545	0.5953 ppb	0.12545	21.07%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	1.1	13.572 ug/L	7.2498	13.572 ppb	7.2498	53.42%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	500.8	87.317 ug/L	16.8211	87.317 ppb	16.8211	19.26%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-1.4	-61.032 ug/L	57.5619	-61.032 ppb	57.5619	94.31%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	30.4	0.0350 ug/L	0.02379	0.0350 ppb	0.02379	68.06%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	8.6	0.5892 ug/L	0.23659	0.5892 ppb	0.23659	40.15%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-43.7	-12.522 ug/L	13.6275	-12.522 ppb	13.6275	108.83%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	13.3	0.3017 ug/L	0.11580	0.3017 ppb	0.11580	38.38%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	9.0	4.4605 ug/L	2.18501	4.4605 ppb	2.18501	48.99%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-8.2	-0.8938 ug/L	1.41110	-0.8938 ppb	1.41110	157.88%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	5.5	6.6056 ug/L	1.62989	6.6056 ppb	1.62989	24.67%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	13.5	4.1775 ug/L	1.61999	4.1775 ppb	1.61999	38.78%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	3.9	2.1675 ug/L	1.56227	2.1675 ppb	1.56227	72.08%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	52.7	1.5599 ug/L	0.37721	1.5599 ppb	0.37721	24.18%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	3.8	0.6197 ug/L	0.88740	0.6197 ppb	0.88740	143.20%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	32.7	0.2210 ug/L	0.13014	0.2210 ppb	0.13014	58.88%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	-109.1	-0.1589 ug/L	0.09670	-0.1589 ppb	0.09670	60.87%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	5.0	1.4423 ug/L	0.53236	1.4423 ppb	0.53236	36.91%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-197.3	-6.4051 ug/L	2.94479	-6.4051 ppb	2.94479	45.98%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-62.5	-0.4405 ug/L	0.52594	-0.4405 ppb	0.52594	119.40%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	42.1	0.3557 ug/L	0.06209	0.3557 ppb	0.06209	17.46%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		45.7	2.9029 ug/L	1.21901	2.9029 ppb	1.21901	41.99%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 14

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 12:23:30

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	3732.0	3732.0	94.2 %		12:25:43
1	Y RADIAL	4247.3	4247.3	93.59 %		12:25:22
1	Al 396.153Radial†	5288.2	5807.0	5193.4 ug/L	5193.4 ppb	12:25:22
1	Ca 317.933Radial†	2459.9	2593.9	5142.9 ug/L	5142.9 ppb	12:25:43
1	Fe 238.204 Radial†	415.7	429.2	5126.4 ug/L	5126.4 ppb	12:25:43
1	K 766.490 Radial†	30748.4	29596.1	5153.4 ug/L	5153.4 ppb	12:25:22
1	Mg 279.077 IEC†	119.5	123.5	5374.4 ug/L	5374.4 ppb	12:25:43
1	Na 589.592 Radial†	32710.3	36293.8	10407 ug/L	10407 ppb	12:25:22
1	Sr 421.552†	70694.8	75013.3	506.71 ug/L	506.71 ppb	12:25:22
1	Sc 361.383	856294.9	856294.9	99.021 %		12:26:41
1	Y 371.029	665371.4	665371.4	97.549 %		12:26:41
1	Ag 328.068†	105908.2	106520.2	486.70 ug/L	486.70 ppb	12:26:41
1	As 188.979†	1201.6	1248.9	480.65 ug/L	480.65 ppb	12:27:01
1	B 249.677†	21514.8	22334.3	472.37 ug/L	472.37 ppb	12:26:41
1	Ba 233.527†	63628.0	64275.1	485.50 ug/L	485.50 ppb	12:26:41
1	Be 313.107†	1391749.5	1409454.3	481.70 ug/L	481.70 ppb	12:26:41
1	Cd 226.502†	43973.2	44607.6	465.19 ug/L	465.19 ppb	12:27:01
1	Co 228.616†	25047.8	25381.9	471.94 ug/L	471.94 ppb	12:27:01
1	Cr 267.716†	44920.6	45275.6	483.62 ug/L	483.62 ppb	12:26:41
1	Cu 324.752†	173553.0	168420.7	483.42 ug/L	483.42 ppb	12:26:41
1	Mn 257.610†	468366.9	472505.3	484.03 ug/L	484.03 ppb	12:26:41
1	Mo 202.031†	7007.0	7073.5	482.39 ug/L	482.39 ppb	12:27:01
1	Ni 231.604†	20761.4	20883.4	474.22 ug/L	474.22 ppb	12:27:01
1	P 214.914†	4817.3	4630.5	2259.7 ug/L	2259.7 ppb	12:27:01
1	Pb 220.353†	4262.4	4375.7	480.34 ug/L	480.34 ppb	12:27:01
1	S 181.975 Axial†	824.8	781.0	944.13 ug/L	944.13 ppb	12:27:01
1	Sb 206.836†	1560.7	1540.6	491.52 ug/L	491.52 ppb	12:27:01
1	Se 196.026†	830.4	868.1	487.55 ug/L	487.55 ppb	12:27:01
1	Si 251.611†	81399.1	81714.4	2425.3 ug/L	2425.3 ppb	12:26:41
1	Sn 189.927†	2935.9	2947.3	479.41 ug/L	479.41 ppb	12:27:01
1	Ti 334.940†	316758.9	321585.4	493.62 ug/L	493.62 ppb	12:26:41
1	Tl 190.801†	1602.4	1661.5	478.24 ug/L	478.24 ppb	12:27:01
1	U 409.014†	10166.5	14591.8	471.89 ug/L	471.89 ppb	12:26:41
1	V 292.402†	66972.3	69342.3	487.72 ug/L	487.72 ppb	12:26:41
1	Zn 213.857†	56459.9	56273.0	477.19 ug/L	477.19 ppb	12:26:41
1	SiO2†	81364.7	81636.7	5197.3 ug/L	5197.3 ppb	12:28:02
2	Sc Radial	3755.3	3755.3	94.8 %		12:26:08
2	Y RADIAL	4201.9	4201.9	92.59 %		12:25:48
2	Al 396.153Radial†	5248.9	5730.8	5125.0 ug/L	5125.0 ppb	12:25:48
2	Ca 317.933Radial†	2488.2	2607.5	5169.8 ug/L	5169.8 ppb	12:26:08
2	Fe 238.204 Radial†	422.0	433.2	5173.9 ug/L	5173.9 ppb	12:26:08
2	K 766.490 Radial†	30456.8	29085.9	5064.5 ug/L	5064.5 ppb	12:25:48
2	Mg 279.077 IEC†	110.2	112.9	4911.1 ug/L	4911.1 ppb	12:26:08
2	Na 589.592 Radial†	32177.7	35516.3	10184 ug/L	10184 ppb	12:25:48
2	Sr 421.552†	69923.2	73733.2	498.07 ug/L	498.07 ppb	12:25:48
2	Sc 361.383	860689.9	860689.9	99.529 %		12:27:09
2	Y 371.029	670350.1	670350.1	98.279 %		12:27:09
2	Ag 328.068†	106282.6	106350.2	485.95 ug/L	485.95 ppb	12:27:09
2	As 188.979†	1185.9	1227.0	472.28 ug/L	472.28 ppb	12:27:29
2	B 249.677†	21677.4	22386.7	473.48 ug/L	473.48 ppb	12:27:09
2	Ba 233.527†	63874.7	64194.9	484.90 ug/L	484.90 ppb	12:27:09
2	Be 313.107†	1397415.1	1407969.4	481.19 ug/L	481.19 ppb	12:27:09
2	Cd 226.502†	44150.3	44558.8	464.68 ug/L	464.68 ppb	12:27:29
2	Co 228.616†	25192.3	25397.8	472.24 ug/L	472.24 ppb	12:27:29
2	Cr 267.716†	45164.1	45288.7	483.76 ug/L	483.76 ppb	12:27:09
2	Cu 324.752†	174064.1	168039.2	482.33 ug/L	482.33 ppb	12:27:09
2	Mn 257.610†	469411.7	471139.8	482.65 ug/L	482.65 ppb	12:27:09
2	Mo 202.031†	7028.6	7059.1	481.41 ug/L	481.41 ppb	12:27:29
2	Ni 231.604†	20841.1	20856.5	473.60 ug/L	473.60 ppb	12:27:29

2	P 214.914†	4823.4	4611.8	2250.3 ug/L	2250.3 ppb	12:27:29
2	Pb 220.353†	4285.3	4376.8	480.44 ug/L	480.44 ppb	12:27:29
2	S 181.975 Axial†	819.8	771.8	932.91 ug/L	932.91 ppb	12:27:29
2	Sb 206.836†	1576.5	1548.4	493.90 ug/L	493.90 ppb	12:27:29
2	Se 196.026†	843.2	876.7	492.33 ug/L	492.33 ppb	12:27:29
2	Si 251.611†	81661.2	81557.9	2420.7 ug/L	2420.7 ppb	12:27:09
2	Sn 189.927†	2948.9	2945.2	479.07 ug/L	479.07 ppb	12:27:29
2	Ti 334.940†	318085.9	321285.1	493.20 ug/L	493.20 ppb	12:27:09
2	Tl 190.801†	1612.6	1663.5	478.79 ug/L	478.79 ppb	12:27:29
2	U 409.014†	10216.5	14589.6	471.81 ug/L	471.81 ppb	12:27:09
2	V 292.402†	67361.3	69387.8	488.01 ug/L	488.01 ppb	12:27:09
2	Zn 213.857†	56653.4	56176.3	476.36 ug/L	476.36 ppb	12:27:09
2	SiO2†	80230.9	80078.0	5097.8 ug/L	5097.8 ppb	12:28:07
3	Sc Radial	3735.7	3735.7	94.3 %		12:26:33
3	Y RADIAL	4211.1	4211.1	92.79 %		12:26:13
3	Al 396.153Radial†	5222.8	5732.1	5125.9 ug/L	5125.9 ppb	12:26:13
3	Ca 317.933Radial†	2462.7	2594.3	5143.5 ug/L	5143.5 ppb	12:26:33
3	Fe 238.204 Radial†	419.4	432.8	5168.6 ug/L	5168.6 ppb	12:26:33
3	K 766.490 Radial†	30257.7	29043.2	5057.1 ug/L	5057.1 ppb	12:26:13
3	Mg 279.077 IEC†	117.6	121.3	5279.6 ug/L	5279.6 ppb	12:26:33
3	Na 589.592 Radial†	32293.3	35816.9	10270 ug/L	10270 ppb	12:26:13
3	Sr 421.552†	69764.4	73951.7	499.54 ug/L	499.54 ppb	12:26:13
3	Sc 361.383	856829.6	856829.6	99.083 %		12:27:36
3	Y 371.029	666033.4	666033.4	97.646 %		12:27:36
3	Ag 328.068†	106198.7	106746.7	487.75 ug/L	487.75 ppb	12:27:36
3	As 188.979†	1203.1	1249.7	480.94 ug/L	480.94 ppb	12:27:56
3	B 249.677†	21672.4	22479.8	475.44 ug/L	475.44 ppb	12:27:36
3	Ba 233.527†	63803.4	64412.0	486.53 ug/L	486.53 ppb	12:27:36
3	Be 313.107†	1397640.8	1414522.9	483.43 ug/L	483.43 ppb	12:27:36
3	Cd 226.502†	44267.5	44876.9	468.00 ug/L	468.00 ppb	12:27:56
3	Co 228.616†	25261.5	25581.8	475.66 ug/L	475.66 ppb	12:27:56
3	Cr 267.716†	45187.0	45516.3	486.19 ug/L	486.19 ppb	12:27:36
3	Cu 324.752†	173822.8	168583.6	483.89 ug/L	483.89 ppb	12:27:36
3	Mn 257.610†	470073.7	473932.7	485.49 ug/L	485.49 ppb	12:27:36
3	Mo 202.031†	7049.4	7111.9	485.01 ug/L	485.01 ppb	12:27:56
3	Ni 231.604†	20897.7	21007.9	477.04 ug/L	477.04 ppb	12:27:56
3	P 214.914†	4865.0	4675.6	2282.5 ug/L	2282.5 ppb	12:27:56
3	Pb 220.353†	4307.7	4418.8	485.04 ug/L	485.04 ppb	12:27:56
3	S 181.975 Axial†	820.9	776.6	938.71 ug/L	938.71 ppb	12:27:56
3	Sb 206.836†	1573.3	1552.3	495.18 ug/L	495.18 ppb	12:27:56
3	Se 196.026†	848.0	885.4	497.04 ug/L	497.04 ppb	12:27:56
3	Si 251.611†	81471.3	81735.9	2426.0 ug/L	2426.0 ppb	12:27:36
3	Sn 189.927†	2938.1	2947.6	479.47 ug/L	479.47 ppb	12:27:56
3	Ti 334.940†	317471.3	322104.8	494.42 ug/L	494.42 ppb	12:27:36
3	Tl 190.801†	1626.6	1684.9	484.93 ug/L	484.93 ppb	12:27:56
3	U 409.014†	9959.0	14376.0	464.87 ug/L	464.87 ppb	12:27:36
3	V 292.402†	67118.9	69448.1	488.47 ug/L	488.47 ppb	12:27:36
3	Zn 213.857†	56751.5	56531.8	479.38 ug/L	479.38 ppb	12:27:36
3	SiO2†	81593.1	81815.9	5208.7 ug/L	5208.7 ppb	12:28:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	857938.1	99.211 %	0.2773			0.28%
Sc Radial	3741.0	94.5 %	0.32			0.34%
Y 371.029	667251.7	97.824 %	0.3964			0.41%
Y RADIAL	4220.1	92.99 %	0.529			0.57%
Ag 328.068†	106539.0	486.80 ug/L	0.907	486.80 ppb	0.907	0.19%
QC value within limits for Ag 328.068 Recovery = 97.36%						
Al 396.153Radial†	5756.6	5148.1 ug/L	39.24	5148.1 ppb	39.24	0.76%
QC value within limits for Al 396.153Radial Recovery = 102.96%						
As 188.979†	1241.9	477.95 ug/L	4.916	477.95 ppb	4.916	1.03%
QC value within limits for As 188.979 Recovery = 95.59%						
B 249.677†	22400.3	473.76 ug/L	1.557	473.76 ppb	1.557	0.33%
QC value within limits for B 249.677 Recovery = 94.75%						
Ba 233.527†	64294.0	485.64 ug/L	0.828	485.64 ppb	0.828	0.17%
QC value within limits for Ba 233.527 Recovery = 97.13%						
Be 313.107†	1410648.9	482.11 ug/L	1.173	482.11 ppb	1.173	0.24%
QC value within limits for Be 313.107 Recovery = 96.42%						
Ca 317.933Radial†	2598.6	5152.0 ug/L	15.35	5152.0 ppb	15.35	0.30%

QC value within limits for Ca 317.933 Radial Recovery = 103.04%

Cd	226.502†	44681.1	465.96 ug/L	1.787	465.96 ppb	1.787	0.38%
QC value within limits for Cd 226.502 Recovery = 93.19%							
Co	228.616†	25453.8	473.28 ug/L	2.068	473.28 ppb	2.068	0.44%
QC value within limits for Co 228.616 Recovery = 94.66%							
Cr	267.716†	45360.2	484.52 ug/L	1.446	484.52 ppb	1.446	0.30%
QC value within limits for Cr 267.716 Recovery = 96.90%							
Cu	324.752†	168347.8	483.21 ug/L	0.803	483.21 ppb	0.803	0.17%
QC value within limits for Cu 324.752 Recovery = 96.64%							
Fe	238.204 Radial†	431.7	5156.3 ug/L	26.02	5156.3 ppb	26.02	0.50%
QC value within limits for Fe 238.204 Radial Recovery = 103.13%							
K	766.490 Radial†	29241.7	5091.7 ug/L	53.60	5091.7 ppb	53.60	1.05%
QC value within limits for K 766.490 Radial Recovery = 101.83%							
Mg	279.077 IEC†	119.2	5188.4 ug/L	244.75	5188.4 ppb	244.75	4.72%
QC value within limits for Mg 279.077 IEC Recovery = 103.77%							
Mn	257.610†	472525.9	484.06 ug/L	1.422	484.06 ppb	1.422	0.29%
QC value within limits for Mn 257.610 Recovery = 96.81%							
Mo	202.031†	7081.5	482.93 ug/L	1.859	482.93 ppb	1.859	0.38%
QC value within limits for Mo 202.031 Recovery = 96.59%							
Na	589.592 Radial†	35875.7	10287 ug/L	112.4	10287 ppb	112.4	1.09%
QC value within limits for Na 589.592 Radial Recovery = 102.87%							
Ni	231.604†	20915.9	474.95 ug/L	1.834	474.95 ppb	1.834	0.39%
QC value within limits for Ni 231.604 Recovery = 94.99%							
P	214.914†	4639.3	2264.1 ug/L	16.53	2264.1 ppb	16.53	0.73%
QC value within limits for P 214.914 Recovery = 90.57%							
Pb	220.353†	4390.4	481.94 ug/L	2.686	481.94 ppb	2.686	0.56%
QC value within limits for Pb 220.353 Recovery = 96.39%							
S	181.975 Axial†	776.5	938.58 ug/L	5.610	938.58 ppb	5.610	0.60%
QC value within limits for S 181.975 Axial Recovery = 93.86%							
Sb	206.836†	1547.1	493.53 ug/L	1.858	493.53 ppb	1.858	0.38%
QC value within limits for Sb 206.836 Recovery = 98.71%							
Se	196.026†	876.7	492.31 ug/L	4.746	492.31 ppb	4.746	0.96%
QC value within limits for Se 196.026 Recovery = 98.46%							
Si	251.611†	81669.4	2424.0 ug/L	2.87	2424.0 ppb	2.87	0.12%
QC value within limits for Si 251.611 Recovery = 96.96%							
Sn	189.927†	2946.7	479.32 ug/L	0.213	479.32 ppb	0.213	0.04%
QC value within limits for Sn 189.927 Recovery = 95.86%							
Sr	421.552†	74232.7	501.44 ug/L	4.626	501.44 ppb	4.626	0.92%
QC value within limits for Sr 421.552 Recovery = 100.29%							
Ti	334.940†	321658.4	493.74 ug/L	0.624	493.74 ppb	0.624	0.13%
QC value within limits for Ti 334.940 Recovery = 98.75%							
Tl	190.801†	1670.0	480.66 ug/L	3.714	480.66 ppb	3.714	0.77%
QC value within limits for Tl 190.801 Recovery = 96.13%							
U	409.014†	14519.1	469.52 ug/L	4.028	469.52 ppb	4.028	0.86%
QC value within limits for U 409.014 Recovery = 93.90%							
V	292.402†	69392.7	488.07 ug/L	0.378	488.07 ppb	0.378	0.08%
QC value within limits for V 292.402 Recovery = 97.61%							
Zn	213.857†	56327.0	477.64 ug/L	1.559	477.64 ppb	1.559	0.33%
QC value within limits for Zn 213.857 Recovery = 95.53%							
SiO2†		81176.9	5167.9 ug/L	60.97	5167.9 ppb	60.97	1.18%
QC value within limits for SiO2 Recovery = 96.64%							

All analyte(s) passed QC.

Sequence No.: 15

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 12:30:23

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	3798.4	3798.4	95.9 %		12:32:36
1	Y RADIAL	4318.1	4318.1	95.14 %		12:32:16
1	Al 396.153Radial†	-194.2	-6.7	-6.0455 ug/L	-6.0455 ppb	12:32:16
1	Ca 317.933Radial†	19.6	4.2	8.3314 ug/L	8.3314 ppb	12:32:36
1	Fe 238.204 Radial†	12.4	1.1	12.649 ug/L	12.649 ppb	12:32:36
1	K 766.490 Radial†	3166.9	270.9	47.239 ug/L	47.239 ppb	12:32:16
1	Mg 279.077 IEC†	3.7	0.6	25.122 ug/L	25.122 ppb	12:32:36
1	Na 589.592 Radial†	-1595.4	-78.1	-22.407 ug/L	-22.407 ppb	12:32:16
1	Sr 421.552†	5.8	5.6	0.0380 ug/L	0.0380 ppb	12:32:16
1	Sc 361.383	845873.2	845873.2	97.816 %		12:33:32
1	Y 371.029	668680.9	668680.9	98.034 %		12:33:32
1	Ag 328.068†	443.0	17.7	0.0845 ug/L	0.0845 ppb	12:33:32
1	As 188.979†	-38.4	-3.8	-1.4562 ug/L	-1.4562 ppb	12:33:52
1	B 249.677†	-408.9	188.7	4.0086 ug/L	4.0086 ppb	12:33:32
1	Ba 233.527†	-12.3	5.5	0.0413 ug/L	0.0413 ppb	12:33:52
1	Be 313.107†	-3791.6	67.8	0.0229 ug/L	0.0229 ppb	12:33:32
1	Cd 226.502†	-184.4	11.1	0.1147 ug/L	0.1147 ppb	12:33:52
1	Co 228.616†	-92.3	-7.9	-0.1451 ug/L	-0.1451 ppb	12:33:52
1	Cr 267.716†	97.3	10.4	0.1112 ug/L	0.1112 ppb	12:33:32
1	Cu 324.752†	6709.5	11.0	0.0328 ug/L	0.0328 ppb	12:33:32
1	Mn 257.610†	512.6	31.6	0.0326 ug/L	0.0326 ppb	12:33:52
1	Mo 202.031†	16.8	14.3	0.9759 ug/L	0.9759 ppb	12:33:52
1	Ni 231.604†	123.9	43.5	0.9884 ug/L	0.9884 ppb	12:33:52
1	P 214.914†	220.9	-8.6	-4.3893 ug/L	-4.3893 ppb	12:33:52
1	Pb 220.353†	-81.1	-11.8	-1.2867 ug/L	-1.2867 ppb	12:33:52
1	S 181.975 Axial†	58.9	8.3	10.033 ug/L	10.033 ppb	12:33:52
1	Sb 206.836†	41.3	6.6	2.0563 ug/L	2.0563 ppb	12:33:52
1	Se 196.026†	-31.3	-2.5	-1.3200 ug/L	-1.3200 ppb	12:33:52
1	Si 251.611†	534.5	56.8	1.6794 ug/L	1.6794 ppb	12:33:52
1	Sn 189.927†	14.2	-3.1	-0.4994 ug/L	-0.4994 ppb	12:33:52
1	Ti 334.940†	-1731.7	-75.8	-0.1169 ug/L	-0.1169 ppb	12:33:32
1	Tl 190.801†	-31.6	10.9	3.1260 ug/L	3.1260 ppb	12:33:52
1	U 409.014†	-4262.3	-32.7	-1.0627 ug/L	-1.0627 ppb	12:33:32
1	V 292.402†	-1704.5	-34.7	-0.2304 ug/L	-0.2304 ppb	12:33:32
1	Zn 213.857†	763.0	35.0	0.2918 ug/L	0.2918 ppb	12:33:52
1	SiO2†	526.3	5.6	0.3293 ug/L	0.3293 ppb	12:34:49
2	Sc Radial	3808.1	3808.1	96.2 %		12:33:01
2	Y RADIAL	4247.3	4247.3	93.59 %		12:32:41
2	Al 396.153Radial†	-217.8	-30.7	-27.603 ug/L	-27.603 ppb	12:32:41
2	Ca 317.933Radial†	20.2	4.7	9.2828 ug/L	9.2828 ppb	12:33:01
2	Fe 238.204 Radial†	13.8	2.5	29.769 ug/L	29.769 ppb	12:33:01
2	K 766.490 Radial†	3115.8	209.3	36.493 ug/L	36.493 ppb	12:32:41
2	Mg 279.077 IEC†	2.3	-0.9	-40.754 ug/L	-40.754 ppb	12:33:01
2	Na 589.592 Radial†	-1588.0	-66.1	-18.965 ug/L	-18.965 ppb	12:32:41
2	Sr 421.552†	57.6	59.5	0.4016 ug/L	0.4016 ppb	12:32:41
2	Sc 361.383	842255.2	842255.2	97.397 %		12:33:58
2	Y 371.029	666178.7	666178.7	97.667 %		12:33:58
2	Ag 328.068†	535.0	114.2	0.5334 ug/L	0.5334 ppb	12:33:58
2	As 188.979†	-39.6	-5.2	-1.9836 ug/L	-1.9836 ppb	12:34:18
2	B 249.677†	-398.2	198.0	4.2028 ug/L	4.2028 ppb	12:33:58
2	Ba 233.527†	-8.5	9.3	0.0709 ug/L	0.0709 ppb	12:34:18
2	Be 313.107†	-3795.0	47.7	0.0160 ug/L	0.0160 ppb	12:33:58
2	Cd 226.502†	-190.0	4.5	0.0428 ug/L	0.0428 ppb	12:34:18
2	Co 228.616†	-104.7	-21.1	-0.3923 ug/L	-0.3923 ppb	12:34:18
2	Cr 267.716†	87.9	1.2	0.0161 ug/L	0.0161 ppb	12:33:58
2	Cu 324.752†	6791.7	124.9	0.3640 ug/L	0.3640 ppb	12:33:58
2	Mn 257.610†	500.7	21.6	0.0267 ug/L	0.0267 ppb	12:34:18
2	Mo 202.031†	9.4	6.8	0.4661 ug/L	0.4661 ppb	12:34:18
2	Ni 231.604†	97.4	16.8	0.3814 ug/L	0.3814 ppb	12:34:18

2	P 214.914†	232.0	3.7	1.8145 ug/L	1.8145 ppb	12:34:18
2	Pb 220.353†	-86.4	-17.6	-1.9281 ug/L	-1.9281 ppb	12:34:18
2	S 181.975 Axial†	49.9	-0.7	-0.7821 ug/L	-0.7821 ppb	12:34:18
2	Sb 206.836†	50.8	16.6	5.1432 ug/L	5.1432 ppb	12:34:18
2	Se 196.026†	-37.8	-9.3	-4.9191 ug/L	-4.9191 ppb	12:34:18
2	Si 251.611†	520.0	44.3	1.3134 ug/L	1.3134 ppb	12:34:18
2	Sn 189.927†	24.7	7.7	1.2495 ug/L	1.2495 ppb	12:34:18
2	Ti 334.940†	-1722.5	-73.9	-0.1058 ug/L	-0.1058 ppb	12:33:58
2	Tl 190.801†	-38.2	4.0	1.1331 ug/L	1.1331 ppb	12:34:18
2	U 409.014†	-4422.2	-215.6	-6.9990 ug/L	-6.9990 ppb	12:33:58
2	V 292.402†	-1679.1	-16.1	-0.1237 ug/L	-0.1237 ppb	12:33:58
2	Zn 213.857†	781.6	57.4	0.4852 ug/L	0.4852 ppb	12:34:18
2	SiO2†	496.3	-22.9	-1.4723 ug/L	-1.4723 ppb	12:34:54
3	Sc Radial	3803.6	3803.6	96.1 %		12:33:26
3	Y RADIAL	4310.8	4310.8	94.98 %		12:33:06
3	Al 396.153Radial†	-178.0	10.5	9.4156 ug/L	9.4156 ppb	12:33:06
3	Ca 317.933Radial†	15.6	-0.0	-0.0464 ug/L	-0.0464 ppb	12:33:26
3	Fe 238.204 Radial†	11.1	-0.3	-3.6958 ug/L	-3.6958 ppb	12:33:26
3	K 766.490 Radial†	3132.6	230.8	40.229 ug/L	40.229 ppb	12:33:06
3	Mg 279.077 IEC†	5.4	2.3	100.41 ug/L	100.41 ppb	12:33:26
3	Na 589.592 Radial†	-1516.4	6.4	1.8332 ug/L	1.8332 ppb	12:33:06
3	Sr 421.552†	-5.8	-6.5	-0.0438 ug/L	-0.0438 ppb	12:33:06
3	Sc 361.383	854501.6	854501.6	98.814 %		12:34:23
3	Y 371.029	675282.5	675282.5	99.002 %		12:34:23
3	Ag 328.068†	414.8	-15.3	-0.0738 ug/L	-0.0738 ppb	12:34:23
3	As 188.979†	-29.1	6.0	2.2887 ug/L	2.2887 ppb	12:34:43
3	B 249.677†	-370.4	231.9	4.9279 ug/L	4.9279 ppb	12:34:23
3	Ba 233.527†	-22.9	-5.2	-0.0396 ug/L	-0.0396 ppb	12:34:43
3	Be 313.107†	-3817.3	81.0	0.0273 ug/L	0.0273 ppb	12:34:23
3	Cd 226.502†	-209.5	-12.4	-0.1278 ug/L	-0.1278 ppb	12:34:43
3	Co 228.616†	-78.7	6.8	0.1279 ug/L	0.1279 ppb	12:34:43
3	Cr 267.716†	138.0	50.6	0.5384 ug/L	0.5384 ppb	12:34:23
3	Cu 324.752†	6955.9	191.1	0.5471 ug/L	0.5471 ppb	12:34:23
3	Mn 257.610†	497.8	11.3	0.0071 ug/L	0.0071 ppb	12:34:43
3	Mo 202.031†	12.3	9.6	0.6571 ug/L	0.6571 ppb	12:34:43
3	Ni 231.604†	97.0	15.0	0.3399 ug/L	0.3399 ppb	12:34:43
3	P 214.914†	217.7	-14.2	-7.2967 ug/L	-7.2967 ppb	12:34:43
3	Pb 220.353†	-63.7	6.7	0.7417 ug/L	0.7417 ppb	12:34:43
3	S 181.975 Axial†	50.3	-1.0	-1.1773 ug/L	-1.1773 ppb	12:34:43
3	Sb 206.836†	59.6	24.7	7.6371 ug/L	7.6371 ppb	12:34:43
3	Se 196.026†	-34.9	-5.8	-3.1654 ug/L	-3.1654 ppb	12:34:43
3	Si 251.611†	523.8	40.5	1.1983 ug/L	1.1983 ppb	12:34:43
3	Sn 189.927†	21.8	4.4	0.7191 ug/L	0.7191 ppb	12:34:43
3	Ti 334.940†	-1773.6	-100.3	-0.1634 ug/L	-0.1634 ppb	12:34:23
3	Tl 190.801†	-32.5	10.3	2.9426 ug/L	2.9426 ppb	12:34:43
3	U 409.014†	-4205.1	69.1	2.2428 ug/L	2.2428 ppb	12:34:23
3	V 292.402†	-1729.1	-42.0	-0.2755 ug/L	-0.2755 ppb	12:34:23
3	Zn 213.857†	757.4	21.4	0.1807 ug/L	0.1807 ppb	12:34:43
3	SiO2†	545.5	19.6	1.2330 ug/L	1.2330 ppb	12:34:59

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847543.3	98.009 %	0.7276			0.74%
Sc Radial	3803.4	96.0 %	0.12			0.13%
Y 371.029	670047.4	98.234 %	0.6895			0.70%
Y RADIAL	4292.1	94.57 %	0.858			0.91%
Ag 328.068†	38.9	0.1814 ug/L	0.31499	0.1814 ppb	0.31499	173.67%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-9.0	-8.0778 ug/L	18.59300	-8.0778 ppb	18.59300	230.17%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.0	-0.3837 ug/L	2.32931	-0.3837 ppb	2.32931	607.07%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	206.2	4.3798 ug/L	0.48453	4.3798 ppb	0.48453	11.06%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.2	0.0242 ug/L	0.05719	0.0242 ppb	0.05719	236.21%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	65.5	0.0220 ug/L	0.00566	0.0220 ppb	0.00566	25.70%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.0	5.8559 ug/L	5.13367	5.8559 ppb	5.13367	87.67%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	1.1	0.0099 ug/L	0.12455	0.0099 ppb	0.12455	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-7.4	-0.1365 ug/L	0.26019	-0.1365 ppb	0.26019	190.66%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	20.7	0.2219 ug/L	0.27817	0.2219 ppb	0.27817	125.35%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	109.0	0.3146 ug/L	0.26071	0.3146 ppb	0.26071	82.86%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.1	12.907 ug/L	16.7341	12.907 ppb	16.7341	129.65%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	237.0	41.320 ug/L	5.4553	41.320 ppb	5.4553	13.20%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.6	28.260 ug/L	70.6362	28.260 ppb	70.6362	249.95%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	21.5	0.0221 ug/L	0.01335	0.0221 ppb	0.01335	60.29%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	10.3	0.6997 ug/L	0.25754	0.6997 ppb	0.25754	36.81%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-46.0	-13.179 ug/L	13.1148	-13.179 ppb	13.1148	99.51%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	25.1	0.5699 ug/L	0.36303	0.5699 ppb	0.36303	63.70%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-6.3	-3.2905 ug/L	4.65391	-3.2905 ppb	4.65391	141.43%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-7.5	-0.8244 ug/L	1.39366	-0.8244 ppb	1.39366	169.06%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	2.2	2.6913 ug/L	6.36147	2.6913 ppb	6.36147	236.37%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	16.0	4.9455 ug/L	2.79564	4.9455 ppb	2.79564	56.53%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-5.9	-3.1348 ug/L	1.79975	-3.1348 ppb	1.79975	57.41%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	47.2	1.3970 ug/L	0.25123	1.3970 ppb	0.25123	17.98%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	3.0	0.4897 ug/L	0.89670	0.4897 ppb	0.89670	183.09%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	19.5	0.1319 ug/L	0.23713	0.1319 ppb	0.23713	179.76%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-83.3	-0.1287 ug/L	0.03055	-0.1287 ppb	0.03055	23.74%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	8.4	2.4006 ug/L	1.10150	2.4006 ppb	1.10150	45.88%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-59.7	-1.9397 ug/L	4.68289	-1.9397 ppb	4.68289	241.43%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-30.9	-0.2099 ug/L	0.07798	-0.2099 ppb	0.07798	37.15%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	37.9	0.3193 ug/L	0.15410	0.3193 ppb	0.15410	48.27%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	0.8	0.0300 ug/L	1.37726	0.0300 ppb	1.37726	>999.9%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 22

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 13:18:07

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3695.4	3695.4	93.3 %		13:20:19
1	Y RADIAL	4102.7	4102.7	90.40 %		13:19:59
1	Al 396.153Radial†	5102.9	5664.1	5064.3 ug/L	5064.3 ppb	13:19:59
1	Ca 317.933Radial†	2422.0	2579.2	5113.5 ug/L	5113.5 ppb	13:20:19
1	Fe 238.204 Radial†	401.0	417.8	4991.1 ug/L	4991.1 ppb	13:20:19
1	K 766.490 Radial†	29651.0	28743.1	5005.0 ug/L	5005.0 ppb	13:19:59
1	Mg 279.077 IEC†	113.9	118.7	5167.1 ug/L	5167.1 ppb	13:20:19
1	Na 589.592 Radial†	29645.0	33352.5	9563.3 ug/L	9563.3 ppb	13:19:59
1	Sr 421.552†	66144.1	70879.2	478.79 ug/L	478.79 ppb	13:19:59
1	Sc 361.383	833795.4	833795.4	96.419 %		13:21:18
1	Y 371.029	648713.3	648713.3	95.106 %		13:21:18
1	Ag 328.068†	103771.7	107190.5	489.71 ug/L	489.71 ppb	13:21:18
1	As 188.979†	1189.3	1268.9	488.21 ug/L	488.21 ppb	13:21:38
1	B 249.677†	21012.1	22399.3	473.73 ug/L	473.73 ppb	13:21:18
1	Ba 233.527†	62478.1	64816.4	489.58 ug/L	489.58 ppb	13:21:18
1	Be 313.107†	1363191.1	1417762.1	484.54 ug/L	484.54 ppb	13:21:18
1	Cd 226.502†	44779.8	46642.5	486.44 ug/L	486.44 ppb	13:21:18
1	Co 228.616†	25172.7	26194.0	487.07 ug/L	487.07 ppb	13:21:38
1	Cr 267.716†	44181.2	45733.0	488.50 ug/L	488.50 ppb	13:21:18
1	Cu 324.752†	169295.3	168734.4	484.31 ug/L	484.31 ppb	13:21:18
1	Mn 257.610†	459637.3	476215.1	487.82 ug/L	487.82 ppb	13:21:18
1	Mo 202.031†	7021.7	7279.6	496.42 ug/L	496.42 ppb	13:21:38
1	Ni 231.604†	20817.9	21507.9	488.40 ug/L	488.40 ppb	13:21:38
1	P 214.914†	4853.0	4798.8	2345.3 ug/L	2345.3 ppb	13:21:38
1	Pb 220.353†	4274.5	4504.4	494.44 ug/L	494.44 ppb	13:21:38
1	S 181.975 Axial†	820.3	798.9	965.71 ug/L	965.71 ppb	13:21:38
1	Sb 206.836†	1554.6	1576.8	503.17 ug/L	503.17 ppb	13:21:38
1	Se 196.026†	829.5	889.8	498.93 ug/L	498.93 ppb	13:21:38
1	Si 251.611†	79634.5	82102.5	2436.7 ug/L	2436.7 ppb	13:21:18
1	Sn 189.927†	2940.4	3031.9	493.15 ug/L	493.15 ppb	13:21:38
1	Ti 334.940†	310359.8	323580.7	496.69 ug/L	496.69 ppb	13:21:18
1	Tl 190.801†	1620.0	1723.3	495.89 ug/L	495.89 ppb	13:21:38
1	U 409.014†	9853.1	14543.8	470.34 ug/L	470.34 ppb	13:21:18
1	V 292.402†	65566.2	69709.0	490.48 ug/L	490.48 ppb	13:21:18
1	Zn 213.857†	55501.4	56817.6	481.77 ug/L	481.77 ppb	13:21:18
1	SiO2†	80255.2	82703.4	5265.0 ug/L	5265.0 ppb	13:22:38
2	Sc Radial	3673.9	3673.9	92.8 %		13:20:44
2	Y RADIAL	4152.2	4152.2	91.49 %		13:20:24
2	Al 396.153Radial†	5182.2	5781.5	5169.9 ug/L	5169.9 ppb	13:20:24
2	Ca 317.933Radial†	2424.7	2597.3	5149.5 ug/L	5149.5 ppb	13:20:44
2	Fe 238.204 Radial†	408.4	428.4	5116.8 ug/L	5116.8 ppb	13:20:44
2	K 766.490 Radial†	30046.3	29355.3	5111.7 ug/L	5111.7 ppb	13:20:24
2	Mg 279.077 IEC†	110.9	116.3	5059.2 ug/L	5059.2 ppb	13:20:44
2	Na 589.592 Radial†	30175.9	34110.8	9780.7 ug/L	9780.7 ppb	13:20:24
2	Sr 421.552†	67170.2	72400.2	489.06 ug/L	489.06 ppb	13:20:24
2	Sc 361.383	835592.3	835592.3	96.627 %		13:21:45
2	Y 371.029	651285.4	651285.4	95.484 %		13:21:45
2	Ag 328.068†	103908.3	107100.4	489.36 ug/L	489.36 ppb	13:21:45
2	As 188.979†	1187.8	1264.7	486.63 ug/L	486.63 ppb	13:22:06
2	B 249.677†	21029.5	22370.4	473.10 ug/L	473.10 ppb	13:21:45
2	Ba 233.527†	62414.3	64611.1	488.04 ug/L	488.04 ppb	13:21:45
2	Be 313.107†	1364323.7	1415893.8	483.90 ug/L	483.90 ppb	13:21:45
2	Cd 226.502†	44582.6	46338.5	483.26 ug/L	483.26 ppb	13:21:45
2	Co 228.616†	25071.7	26033.3	484.08 ug/L	484.08 ppb	13:22:06
2	Cr 267.716†	44186.0	45639.4	487.51 ug/L	487.51 ppb	13:21:45
2	Cu 324.752†	169306.9	168368.8	483.27 ug/L	483.27 ppb	13:21:45
2	Mn 257.610†	458983.9	474513.8	486.09 ug/L	486.09 ppb	13:21:45
2	Mo 202.031†	7022.9	7265.3	495.45 ug/L	495.45 ppb	13:22:06
2	Ni 231.604†	20741.6	21382.4	485.55 ug/L	485.55 ppb	13:22:06

2	P 214.914†	4805.9	4739.2	2315.1 ug/L	2315.1 ppb	13:22:06
2	Pb 220.353†	4278.2	4498.8	493.83 ug/L	493.83 ppb	13:22:06
2	S 181.975 Axial†	824.3	801.1	968.46 ug/L	968.46 ppb	13:22:06
2	Sb 206.836†	1568.9	1588.2	506.64 ug/L	506.64 ppb	13:22:06
2	Se 196.026†	830.1	888.6	498.68 ug/L	498.68 ppb	13:22:06
2	Si 251.611†	79576.8	81865.2	2429.7 ug/L	2429.7 ppb	13:21:45
2	Sn 189.927†	2938.8	3023.8	491.83 ug/L	491.83 ppb	13:22:06
2	Ti 334.940†	310526.3	323060.8	495.91 ug/L	495.91 ppb	13:21:45
2	Tl 190.801†	1609.8	1709.2	491.85 ug/L	491.85 ppb	13:22:06
2	U 409.014†	9743.0	14407.9	465.91 ug/L	465.91 ppb	13:21:45
2	V 292.402†	65942.9	69952.7	492.13 ug/L	492.13 ppb	13:21:45
2	Zn 213.857†	55303.8	56489.3	478.97 ug/L	478.97 ppb	13:21:45
2	SiO2†	80650.7	82933.6	5279.7 ug/L	5279.7 ppb	13:22:44
3	Sc Radial	3634.5	3634.5	91.8 %		13:21:09
3	Y RADIAL	4092.7	4092.7	90.18 %		13:20:49
3	Al 396.153Radial†	5132.2	5787.6	5175.4 ug/L	5175.4 ppb	13:20:49
3	Ca 317.933Radial†	2418.7	2619.0	5192.5 ug/L	5192.5 ppb	13:21:09
3	Fe 238.204 Radial†	404.9	429.4	5128.6 ug/L	5128.6 ppb	13:21:09
3	K 766.490 Radial†	29662.4	29288.0	5099.9 ug/L	5099.9 ppb	13:20:49
3	Mg 279.077 IEC†	115.1	122.1	5315.6 ug/L	5315.6 ppb	13:21:09
3	Na 589.592 Radial†	29934.3	34200.1	9806.3 ug/L	9806.3 ppb	13:20:49
3	Sr 421.552†	66543.3	72502.0	489.75 ug/L	489.75 ppb	13:20:49
3	Sc 361.383	836391.5	836391.5	96.719 %		13:22:13
3	Y 371.029	652082.4	652082.4	95.600 %		13:22:13
3	Ag 328.068†	104421.3	107528.1	491.30 ug/L	491.30 ppb	13:22:13
3	As 188.979†	1195.2	1271.2	489.15 ug/L	489.15 ppb	13:22:33
3	B 249.677†	21126.1	22449.5	474.78 ug/L	474.78 ppb	13:22:13
3	Ba 233.527†	62693.2	64837.8	489.75 ug/L	489.75 ppb	13:22:13
3	Be 313.107†	1373403.2	1423932.1	486.64 ug/L	486.64 ppb	13:22:13
3	Cd 226.502†	44885.6	46607.8	486.06 ug/L	486.06 ppb	13:22:13
3	Co 228.616†	25079.5	26016.6	483.76 ug/L	483.76 ppb	13:22:33
3	Cr 267.716†	44462.2	45881.3	490.09 ug/L	490.09 ppb	13:22:13
3	Cu 324.752†	169800.9	168712.1	484.26 ug/L	484.26 ppb	13:22:13
3	Mn 257.610†	461693.2	476861.0	488.49 ug/L	488.49 ppb	13:22:13
3	Mo 202.031†	6995.3	7229.7	493.03 ug/L	493.03 ppb	13:22:33
3	Ni 231.604†	20751.9	21372.6	485.32 ug/L	485.32 ppb	13:22:33
3	P 214.914†	4793.8	4722.0	2306.1 ug/L	2306.1 ppb	13:22:33
3	Pb 220.353†	4290.9	4507.6	494.79 ug/L	494.79 ppb	13:22:33
3	S 181.975 Axial†	829.0	805.2	973.37 ug/L	973.37 ppb	13:22:33
3	Sb 206.836†	1578.3	1596.3	509.05 ug/L	509.05 ppb	13:22:33
3	Se 196.026†	839.0	897.0	503.22 ug/L	503.22 ppb	13:22:33
3	Si 251.611†	80088.1	82315.1	2443.1 ug/L	2443.1 ppb	13:22:13
3	Sn 189.927†	2926.2	3007.9	489.25 ug/L	489.25 ppb	13:22:33
3	Ti 334.940†	311598.8	323862.6	497.12 ug/L	497.12 ppb	13:22:13
3	Tl 190.801†	1616.6	1714.6	493.42 ug/L	493.42 ppb	13:22:33
3	U 409.014†	9886.8	14546.9	470.42 ug/L	470.42 ppb	13:22:13
3	V 292.402†	66048.6	69996.7	492.41 ug/L	492.41 ppb	13:22:13
3	Zn 213.857†	55651.0	56793.6	481.57 ug/L	481.57 ppb	13:22:13
3	SiO2†	81363.8	83591.2	5321.7 ug/L	5321.7 ppb	13:22:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835259.7	96.588 %	0.1538			0.16%
Sc Radial	3667.9	92.6 %	0.78			0.84%
Y 371.029	650693.7	95.397 %	0.2581			0.27%
Y RADIAL	4115.9	90.69 %	0.703			0.77%
Ag 328.068†	107273.0	490.12 ug/L	1.034	490.12 ppb	1.034	0.21%
QC value within limits for Ag 328.068 Recovery = 98.02%						
Al 396.153Radial†	5744.4	5136.5 ug/L	62.62	5136.5 ppb	62.62	1.22%
QC value within limits for Al 396.153Radial Recovery = 102.73%						
As 188.979†	1268.3	488.00 ug/L	1.272	488.00 ppb	1.272	0.26%
QC value within limits for As 188.979 Recovery = 97.60%						
B 249.677†	22406.4	473.87 ug/L	0.849	473.87 ppb	0.849	0.18%
QC value within limits for B 249.677 Recovery = 94.77%						
Ba 233.527†	64755.1	489.12 ug/L	0.942	489.12 ppb	0.942	0.19%
QC value within limits for Ba 233.527 Recovery = 97.82%						
Be 313.107†	1419196.0	485.03 ug/L	1.436	485.03 ppb	1.436	0.30%
QC value within limits for Be 313.107 Recovery = 97.01%						
Ca 317.933Radial†	2598.5	5151.8 ug/L	39.55	5151.8 ppb	39.55	0.77%

QC value within limits for Ca 317.933Radial Recovery = 103.04%							
Cd 226.502†	46529.6	485.25 ug/L	1.741	485.25 ppb	1.741	0.36%	
QC value within limits for Cd 226.502 Recovery = 97.05%							
Co 228.616†	26081.3	484.97 ug/L	1.826	484.97 ppb	1.826	0.38%	
QC value within limits for Co 228.616 Recovery = 96.99%							
Cr 267.716†	45751.2	488.70 ug/L	1.301	488.70 ppb	1.301	0.27%	
QC value within limits for Cr 267.716 Recovery = 97.74%							
Cu 324.752†	168605.1	483.95 ug/L	0.585	483.95 ppb	0.585	0.12%	
QC value within limits for Cu 324.752 Recovery = 96.79%							
Fe 238.204 Radial†	425.2	5078.8 ug/L	76.18	5078.8 ppb	76.18	1.50%	
QC value within limits for Fe 238.204 Radial Recovery = 101.58%							
K 766.490 Radial†	29128.8	5072.2 ug/L	58.47	5072.2 ppb	58.47	1.15%	
QC value within limits for K 766.490 Radial Recovery = 101.44%							
Mg 279.077 IEC†	119.0	5180.6 ug/L	128.74	5180.6 ppb	128.74	2.49%	
QC value within limits for Mg 279.077 IEC Recovery = 103.61%							
Mn 257.610†	475863.3	487.47 ug/L	1.235	487.47 ppb	1.235	0.25%	
QC value within limits for Mn 257.610 Recovery = 97.49%							
Mo 202.031†	7258.2	494.97 ug/L	1.745	494.97 ppb	1.745	0.35%	
QC value within limits for Mo 202.031 Recovery = 98.99%							
Na 589.592 Radial†	33887.8	9716.8 ug/L	133.54	9716.8 ppb	133.54	1.37%	
QC value within limits for Na 589.592 Radial Recovery = 97.17%							
Ni 231.604†	21421.0	486.42 ug/L	1.713	486.42 ppb	1.713	0.35%	
QC value within limits for Ni 231.604 Recovery = 97.28%							
P 214.914†	4753.3	2322.1 ug/L	20.51	2322.1 ppb	20.51	0.88%	
QC value within limits for P 214.914 Recovery = 92.89%							
Pb 220.353†	4503.6	494.36 ug/L	0.485	494.36 ppb	0.485	0.10%	
QC value within limits for Pb 220.353 Recovery = 98.87%							
S 181.975 Axial†	801.7	969.18 ug/L	3.881	969.18 ppb	3.881	0.40%	
QC value within limits for S 181.975 Axial Recovery = 96.92%							
Sb 206.836†	1587.1	506.29 ug/L	2.952	506.29 ppb	2.952	0.58%	
QC value within limits for Sb 206.836 Recovery = 101.26%							
Se 196.026†	891.8	500.27 ug/L	2.552	500.27 ppb	2.552	0.51%	
QC value within limits for Se 196.026 Recovery = 100.05%							
Si 251.611†	82094.3	2436.5 ug/L	6.71	2436.5 ppb	6.71	0.28%	
QC value within limits for Si 251.611 Recovery = 97.46%							
Sn 189.927†	3021.2	491.41 ug/L	1.981	491.41 ppb	1.981	0.40%	
QC value within limits for Sn 189.927 Recovery = 98.28%							
Sr 421.552†	71927.1	485.86 ug/L	6.140	485.86 ppb	6.140	1.26%	
QC value within limits for Sr 421.552 Recovery = 97.17%							
Ti 334.940†	323501.4	496.57 ug/L	0.615	496.57 ppb	0.615	0.12%	
QC value within limits for Ti 334.940 Recovery = 99.31%							
Tl 190.801†	1715.7	493.72 ug/L	2.036	493.72 ppb	2.036	0.41%	
QC value within limits for Tl 190.801 Recovery = 98.74%							
U 409.014†	14499.5	468.89 ug/L	2.577	468.89 ppb	2.577	0.55%	
QC value within limits for U 409.014 Recovery = 93.78%							
V 292.402†	69886.2	491.67 ug/L	1.043	491.67 ppb	1.043	0.21%	
QC value within limits for V 292.402 Recovery = 98.33%							
Zn 213.857†	56700.1	480.77 ug/L	1.563	480.77 ppb	1.563	0.33%	
QC value within limits for Zn 213.857 Recovery = 96.15%							
SiO2†	83076.1	5288.8 ug/L	29.45	5288.8 ppb	29.45	0.56%	
QC value within limits for SiO2 Recovery = 98.90%							
All analyte(s) passed QC.							

Sequence No.: 23

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 2/3/2010 13:24:58

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	3728.3	3728.3	94.1 %		13:27:12
1	Y RADIAL	4158.1	4158.1	91.62 %		13:26:52
1	Al 396.153Radial†	45.2	243.8	218.47 ug/L	218.47 ppb	13:26:52
1	Ca 317.933Radial†	118.8	109.9	217.99 ug/L	217.99 ppb	13:27:12
1	Fe 238.204 Radial†	21.0	10.5	125.58 ug/L	125.58 ppb	13:27:12
1	K 766.490 Radial†	3968.2	1184.1	206.24 ug/L	206.24 ppb	13:26:52
1	Mg 279.077 IEC†	6.8	3.9	170.55 ug/L	170.55 ppb	13:27:12
1	Na 589.592 Radial†	-511.6	1041.8	298.71 ug/L	298.71 ppb	13:26:52
1	Sr 421.552†	733.2	778.3	5.2561 ug/L	5.2561 ppb	13:26:52
1	Sc 361.383	832129.5	832129.5	96.226 %		13:28:09
1	Y 371.029	656768.7	656768.7	96.287 %		13:28:09
1	Ag 328.068†	1546.0	1171.5	5.3361 ug/L	5.3361 ppb	13:28:09
1	As 188.979†	37.9	74.9	28.598 ug/L	28.598 ppb	13:28:29
1	B 249.677†	1821.7	2499.9	53.082 ug/L	53.082 ppb	13:28:09
1	Ba 233.527†	653.1	696.7	5.2643 ug/L	5.2643 ppb	13:28:29
1	Be 313.107†	10470.3	14825.0	5.0667 ug/L	5.0667 ppb	13:28:09
1	Cd 226.502†	268.6	478.7	4.9942 ug/L	4.9942 ppb	13:28:29
1	Co 228.616†	171.5	264.6	4.9348 ug/L	4.9348 ppb	13:28:29
1	Cr 267.716†	499.8	430.4	4.5811 ug/L	4.5811 ppb	13:28:09
1	Cu 324.752†	10178.9	3729.8	10.685 ug/L	10.685 ppb	13:28:09
1	Mn 257.610†	10549.1	10470.4	10.725 ug/L	10.725 ppb	13:28:09
1	Mo 202.031†	171.3	175.2	11.950 ug/L	11.950 ppb	13:28:29
1	Ni 231.604†	312.0	241.0	5.4733 ug/L	5.4733 ppb	13:28:29
1	P 214.914†	512.4	298.1	149.47 ug/L	149.47 ppb	13:28:29
1	Pb 220.353†	-8.6	62.2	6.8715 ug/L	6.8715 ppb	13:28:29
1	S 181.975 Axial†	129.1	82.2	99.473 ug/L	99.473 ppb	13:28:29
1	Sb 206.836†	81.5	49.1	15.556 ug/L	15.556 ppb	13:28:29
1	Se 196.026†	41.9	73.1	40.007 ug/L	40.007 ppb	13:28:29
1	Si 251.611†	3879.0	3541.5	105.23 ug/L	105.23 ppb	13:28:09
1	Sn 189.927†	90.9	76.8	12.504 ug/L	12.504 ppb	13:28:29
1	Ti 334.940†	1646.9	3406.1	5.2214 ug/L	5.2214 ppb	13:28:09
1	Tl 190.801†	32.5	77.0	22.080 ug/L	22.080 ppb	13:28:29
1	U 409.014†	-2691.3	1527.9	49.562 ug/L	49.562 ppb	13:28:09
1	V 292.402†	-957.5	712.8	5.1893 ug/L	5.1893 ppb	13:28:09
1	Zn 213.857†	1871.6	1199.9	10.203 ug/L	10.203 ppb	13:28:29
1	SiO2†	3849.1	3467.6	220.99 ug/L	220.99 ppb	13:29:25
2	Sc Radial	3745.4	3745.4	94.6 %		13:27:37
2	Y RADIAL	4151.7	4151.7	91.48 %		13:27:17
2	Al 396.153Radial†	32.9	230.6	206.69 ug/L	206.69 ppb	13:27:17
2	Ca 317.933Radial†	120.7	111.4	220.81 ug/L	220.81 ppb	13:27:37
2	Fe 238.204 Radial†	21.1	10.5	125.68 ug/L	125.68 ppb	13:27:37
2	K 766.490 Radial†	3899.7	1092.3	190.24 ug/L	190.24 ppb	13:27:17
2	Mg 279.077 IEC†	11.9	9.2	401.90 ug/L	401.90 ppb	13:27:37
2	Na 589.592 Radial†	-510.5	1045.4	299.75 ug/L	299.75 ppb	13:27:17
2	Sr 421.552†	699.3	738.9	4.9898 ug/L	4.9898 ppb	13:27:17
2	Sc 361.383	835184.6	835184.6	96.580 %		13:28:34
2	Y 371.029	660612.3	660612.3	96.851 %		13:28:34
2	Ag 328.068†	1533.1	1152.3	5.2494 ug/L	5.2494 ppb	13:28:34
2	As 188.979†	44.8	81.8	31.252 ug/L	31.252 ppb	13:28:54
2	B 249.677†	1754.5	2423.4	51.457 ug/L	51.457 ppb	13:28:34
2	Ba 233.527†	656.9	698.2	5.2764 ug/L	5.2764 ppb	13:28:54
2	Be 313.107†	10542.5	14859.9	5.0781 ug/L	5.0781 ppb	13:28:34
2	Cd 226.502†	265.2	474.2	4.9475 ug/L	4.9475 ppb	13:28:54
2	Co 228.616†	169.0	261.4	4.8705 ug/L	4.8705 ppb	13:28:54
2	Cr 267.716†	605.8	538.2	5.7312 ug/L	5.7312 ppb	13:28:34
2	Cu 324.752†	10275.5	3791.1	10.860 ug/L	10.860 ppb	13:28:34
2	Mn 257.610†	10481.7	10360.4	10.603 ug/L	10.603 ppb	13:28:34
2	Mo 202.031†	145.0	147.4	10.052 ug/L	10.052 ppb	13:28:54
2	Ni 231.604†	311.7	239.5	5.4399 ug/L	5.4399 ppb	13:28:54

2	P 214.914†	527.5	311.7	156.36 ug/L	156.36 ppb	13:28:54
2	Pb 220.353†	18.6	90.5	9.9517 ug/L	9.9517 ppb	13:28:54
2	S 181.975 Axial†	132.1	84.8	102.63 ug/L	102.63 ppb	13:28:54
2	Sb 206.836†	73.1	40.2	12.711 ug/L	12.711 ppb	13:28:54
2	Se 196.026†	19.8	50.0	27.523 ug/L	27.523 ppb	13:28:54
2	Si 251.611†	3869.6	3517.1	104.52 ug/L	104.52 ppb	13:28:34
2	Sn 189.927†	73.2	58.2	9.4821 ug/L	9.4821 ppb	13:28:54
2	Ti 334.940†	1524.8	3273.4	4.9980 ug/L	4.9980 ppb	13:28:34
2	Tl 190.801†	37.4	82.0	23.487 ug/L	23.487 ppb	13:28:54
2	U 409.014†	-2650.0	1581.0	51.281 ug/L	51.281 ppb	13:28:34
2	V 292.402†	-897.4	778.7	5.6275 ug/L	5.6275 ppb	13:28:34
2	Zn 213.857†	1875.0	1196.3	10.172 ug/L	10.172 ppb	13:28:54
2	SiO2†	3828.4	3431.5	218.74 ug/L	218.74 ppb	13:29:30
3	Sc Radial	3762.2	3762.2	95.0 %		13:28:02
3	Y RADIAL	4232.9	4232.9	93.27 %		13:27:42
3	Al 396.153Radial†	41.6	239.6	214.75 ug/L	214.75 ppb	13:27:42
3	Ca 317.933Radial†	118.8	108.8	215.70 ug/L	215.70 ppb	13:28:02
3	Fe 238.204 Radial†	20.9	10.2	121.56 ug/L	121.56 ppb	13:28:02
3	K 766.490 Radial†	4020.6	1201.3	209.22 ug/L	209.22 ppb	13:27:42
3	Mg 279.077 IEC†	6.9	4.0	172.30 ug/L	172.30 ppb	13:28:02
3	Na 589.592 Radial†	-442.7	1119.1	320.89 ug/L	320.89 ppb	13:27:42
3	Sr 421.552†	755.3	794.6	5.3662 ug/L	5.3662 ppb	13:27:42
3	Sc 361.383	836170.7	836170.7	96.694 %		13:29:00
3	Y 371.029	661357.0	661357.0	96.960 %		13:29:00
3	Ag 328.068†	1607.0	1226.8	5.5808 ug/L	5.5808 ppb	13:29:00
3	As 188.979†	42.8	79.8	30.467 ug/L	30.467 ppb	13:29:20
3	B 249.677†	1818.2	2487.2	52.813 ug/L	52.813 ppb	13:29:00
3	Ba 233.527†	646.4	686.6	5.1854 ug/L	5.1854 ppb	13:29:20
3	Be 313.107†	10570.5	14876.0	5.0840 ug/L	5.0840 ppb	13:29:00
3	Cd 226.502†	278.3	487.4	5.0851 ug/L	5.0851 ppb	13:29:20
3	Co 228.616†	169.2	261.3	4.8715 ug/L	4.8715 ppb	13:29:20
3	Cr 267.716†	539.4	468.8	4.9889 ug/L	4.9889 ppb	13:29:00
3	Cu 324.752†	10286.7	3790.2	10.857 ug/L	10.857 ppb	13:29:00
3	Mn 257.610†	10478.8	10344.6	10.596 ug/L	10.596 ppb	13:29:00
3	Mo 202.031†	156.4	159.0	10.843 ug/L	10.843 ppb	13:29:20
3	Ni 231.604†	287.7	214.3	4.8673 ug/L	4.8673 ppb	13:29:20
3	P 214.914†	513.8	296.9	148.83 ug/L	148.83 ppb	13:29:20
3	Pb 220.353†	18.2	90.0	9.9018 ug/L	9.9018 ppb	13:29:20
3	S 181.975 Axial†	132.7	85.3	103.16 ug/L	103.16 ppb	13:29:20
3	Sb 206.836†	78.1	45.2	14.293 ug/L	14.293 ppb	13:29:20
3	Se 196.026†	25.8	56.2	30.874 ug/L	30.874 ppb	13:29:20
3	Si 251.611†	3866.1	3508.8	104.26 ug/L	104.26 ppb	13:29:00
3	Sn 189.927†	77.2	62.2	10.136 ug/L	10.136 ppb	13:29:20
3	Ti 334.940†	1621.5	3371.5	5.1670 ug/L	5.1670 ppb	13:29:00
3	Tl 190.801†	30.7	75.0	21.503 ug/L	21.503 ppb	13:29:20
3	U 409.014†	-2653.7	1580.3	51.262 ug/L	51.262 ppb	13:29:00
3	V 292.402†	-1089.1	581.4	4.2657 ug/L	4.2657 ppb	13:29:00
3	Zn 213.857†	1875.0	1194.0	10.156 ug/L	10.156 ppb	13:29:20
3	SiO2†	3873.5	3473.6	221.40 ug/L	221.40 ppb	13:29:35

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	834494.9	96.500 %	0.2437			0.25%
Sc Radial	3745.3	94.6 %	0.43			0.45%
Y 371.029	659579.3	96.699 %	0.3610			0.37%
Y RADIAL	4180.9	92.12 %	0.995			1.08%
Ag 328.068†	1183.5	5.3888 ug/L	0.17186	5.3888 ppb	0.17186	3.19%
QC value within limits for Ag 328.068 Recovery = 107.78%						
Al 396.153Radial†	238.0	213.30 ug/L	6.025	213.30 ppb	6.025	2.82%
QC value within limits for Al 396.153Radial Recovery = 106.65%						
As 188.979†	78.8	30.106 ug/L	1.3630	30.106 ppb	1.3630	4.53%
QC value within limits for As 188.979 Recovery = 100.35%						
B 249.677†	2470.2	52.451 ug/L	0.8709	52.451 ppb	0.8709	1.66%
QC value within limits for B 249.677 Recovery = 104.90%						
Ba 233.527†	693.8	5.2421 ug/L	0.04940	5.2421 ppb	0.04940	0.94%
QC value within limits for Ba 233.527 Recovery = 104.84%						
Be 313.107†	14853.6	5.0763 ug/L	0.00878	5.0763 ppb	0.00878	0.17%
QC value within limits for Be 313.107 Recovery = 101.53%						
Ca 317.933Radial†	110.0	218.16 ug/L	2.562	218.16 ppb	2.562	1.17%

QC value within limits for Ca 317.933 Radial Recovery = 109.08%							
Cd 226.502†	480.1	5.0089 ug/L	0.06996	5.0089 ppb	0.06996	1.40%	
QC value within limits for Cd 226.502 Recovery = 100.18%							
Co 228.616†	262.4	4.8923 ug/L	0.03684	4.8923 ppb	0.03684	0.75%	
QC value within limits for Co 228.616 Recovery = 97.85%							
Cr 267.716†	479.1	5.1004 ug/L	0.58308	5.1004 ppb	0.58308	11.43%	
QC value within limits for Cr 267.716 Recovery = 102.01%							
Cu 324.752†	3770.4	10.800 ug/L	0.1002	10.800 ppb	0.1002	0.93%	
QC value within limits for Cu 324.752 Recovery = 108.00%							
Fe 238.204 Radial†	10.4	124.27 ug/L	2.353	124.27 ppb	2.353	1.89%	
QC value within limits for Fe 238.204 Radial Recovery = 124.27%							
K 766.490 Radial†	1159.2	201.90 ug/L	10.210	201.90 ppb	10.210	5.06%	
QC value greater than the upper limit for K 766.490 Radial Recovery = 134.60%							
Mg 279.077 IEC†	5.7	248.25 ug/L	133.070	248.25 ppb	133.070	53.60%	
QC value within limits for Mg 279.077 IEC Recovery = 82.75%							
Mn 257.610†	10391.8	10.641 ug/L	0.0726	10.641 ppb	0.0726	0.68%	
QC value within limits for Mn 257.610 Recovery = 106.41%							
Mo 202.031†	160.5	10.948 ug/L	0.9534	10.948 ppb	0.9534	8.71%	
QC value within limits for Mo 202.031 Recovery = 109.48%							
Na 589.592 Radial†	1068.8	306.45 ug/L	12.518	306.45 ppb	12.518	4.08%	
QC value within limits for Na 589.592 Radial Recovery = 102.15%							
Ni 231.604†	231.6	5.2602 ug/L	0.34061	5.2602 ppb	0.34061	6.48%	
QC value within limits for Ni 231.604 Recovery = 105.20%							
P 214.914†	302.2	151.55 ug/L	4.176	151.55 ppb	4.176	2.76%	
QC value within limits for P 214.914 Recovery = 101.04%							
Pb 220.353†	80.9	8.9083 ug/L	1.76413	8.9083 ppb	1.76413	19.80%	
QC value within limits for Pb 220.353 Recovery = 89.08%							
S 181.975 Axial†	84.1	101.75 ug/L	1.993	101.75 ppb	1.993	1.96%	
QC value within limits for S 181.975 Axial Recovery = 101.75%							
Sb 206.836†	44.8	14.187 ug/L	1.4252	14.187 ppb	1.4252	10.05%	
QC value greater than the upper limit for Sb 206.836 Recovery = 141.87%							
Se 196.026†	59.8	32.801 ug/L	6.4613	32.801 ppb	6.4613	19.70%	
QC value within limits for Se 196.026 Recovery = 109.34%							
Si 251.611†	3522.5	104.67 ug/L	0.497	104.67 ppb	0.497	0.47%	
QC value within limits for Si 251.611 Recovery = 104.67%							
Sn 189.927†	65.7	10.707 ug/L	1.5898	10.707 ppb	1.5898	14.85%	
QC value within limits for Sn 189.927 Recovery = 107.07%							
Sr 421.552†	770.6	5.2040 ug/L	0.19351	5.2040 ppb	0.19351	3.72%	
QC value within limits for Sr 421.552 Recovery = 104.08%							
Ti 334.940†	3350.3	5.1288 ug/L	0.11647	5.1288 ppb	0.11647	2.27%	
QC value within limits for Ti 334.940 Recovery = 102.58%							
Tl 190.801†	78.0	22.357 ug/L	1.0207	22.357 ppb	1.0207	4.57%	
QC value within limits for Tl 190.801 Recovery = 111.78%							
U 409.014†	1563.1	50.702 ug/L	0.9872	50.702 ppb	0.9872	1.95%	
QC value within limits for U 409.014 Recovery = 101.40%							
V 292.402†	691.0	5.0275 ug/L	0.69516	5.0275 ppb	0.69516	13.83%	
QC value within limits for V 292.402 Recovery = 100.55%							
Zn 213.857†	1196.8	10.177 ug/L	0.0236	10.177 ppb	0.0236	0.23%	
QC value within limits for Zn 213.857 Recovery = 101.77%							
SiO2†	3457.6	220.38 ug/L	1.434	220.38 ppb	1.434	0.65%	
QC value within limits for SiO2 Recovery = 103.46%							
QC Failed. Continue with analysis.							

Sequence No.: 24

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 13:31:47

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	3749.2	3749.2	94.7 %		13:33:59
1	Y RADIAL	4165.9	4165.9	91.79 %		13:33:39
1	Al 396.153Radial†	-187.9	-2.6	-2.3407 ug/L	-2.3407 ppb	13:33:39
1	Ca 317.933Radial†	19.9	4.7	9.3852 ug/L	9.3852 ppb	13:33:59
1	Fe 238.204 Radial†	14.4	3.3	39.894 ug/L	39.894 ppb	13:33:59
1	K 766.490 Radial†	3060.3	201.6	35.150 ug/L	35.150 ppb	13:33:39
1	Mg 279.077 IEC†	0.5	-2.8	-120.10 ug/L	-120.10 ppb	13:33:59
1	Na 589.592 Radial†	-1513.9	-13.9	-3.9931 ug/L	-3.9931 ppb	13:33:39
1	Sr 421.552†	45.3	47.4	0.3202 ug/L	0.3202 ppb	13:33:39
1	Sc 361.383	839656.2	839656.2	97.097 %		13:34:56
1	Y 371.029	662854.4	662854.4	97.180 %		13:34:56
1	Ag 328.068†	419.3	-3.3	-0.0028 ug/L	-0.0028 ppb	13:34:56
1	As 188.979†	-34.5	-0.1	-0.0325 ug/L	-0.0325 ppb	13:35:16
1	B 249.677†	-506.5	85.2	1.8037 ug/L	1.8037 ppb	13:34:56
1	Ba 233.527†	-3.6	14.4	0.1086 ug/L	0.1086 ppb	13:35:16
1	Be 313.107†	-3760.6	71.0	0.0242 ug/L	0.0242 ppb	13:34:56
1	Cd 226.502†	-196.8	-3.1	-0.0366 ug/L	-0.0366 ppb	13:35:16
1	Co 228.616†	-91.5	-7.8	-0.1459 ug/L	-0.1459 ppb	13:35:16
1	Cr 267.716†	67.9	-19.1	-0.2030 ug/L	-0.2030 ppb	13:34:56
1	Cu 324.752†	6821.3	177.0	0.5104 ug/L	0.5104 ppb	13:34:56
1	Mn 257.610†	515.8	38.8	0.0485 ug/L	0.0485 ppb	13:35:16
1	Mo 202.031†	0.7	-2.1	-0.1413 ug/L	-0.1413 ppb	13:35:16
1	Ni 231.604†	72.5	-8.5	-0.1932 ug/L	-0.1932 ppb	13:35:16
1	P 214.914†	245.0	17.8	8.9395 ug/L	8.9395 ppb	13:35:16
1	Pb 220.353†	-62.0	7.4	0.8014 ug/L	0.8014 ppb	13:35:16
1	S 181.975 Axial†	51.8	1.5	1.7689 ug/L	1.7689 ppb	13:35:16
1	Sb 206.836†	62.3	28.6	8.8110 ug/L	8.8110 ppb	13:35:16
1	Se 196.026†	-22.0	6.8	3.8231 ug/L	3.8231 ppb	13:35:16
1	Si 251.611†	507.7	33.3	0.9931 ug/L	0.9931 ppb	13:35:16
1	Sn 189.927†	19.3	2.2	0.3652 ug/L	0.3652 ppb	13:35:16
1	Ti 334.940†	-1660.1	-15.2	-0.0119 ug/L	-0.0119 ppb	13:34:56
1	Tl 190.801†	-40.1	1.9	0.5423 ug/L	0.5423 ppb	13:35:16
1	U 409.014†	-4216.0	-17.3	-0.5655 ug/L	-0.5655 ppb	13:34:56
1	V 292.402†	-1711.0	-54.4	-0.3885 ug/L	-0.3885 ppb	13:34:56
1	Zn 213.857†	769.5	47.4	0.4023 ug/L	0.4023 ppb	13:35:16
1	SiO2†	577.8	62.7	4.0049 ug/L	4.0049 ppb	13:36:12
2	Sc Radial	3745.5	3745.5	94.6 %		13:34:24
2	Y RADIAL	4201.6	4201.6	92.58 %		13:34:04
2	Al 396.153Radial†	-208.1	-24.2	-21.755 ug/L	-21.755 ppb	13:34:04
2	Ca 317.933Radial†	21.6	6.5	12.971 ug/L	12.971 ppb	13:34:24
2	Fe 238.204 Radial†	12.1	1.0	11.729 ug/L	11.729 ppb	13:34:24
2	K 766.490 Radial†	3164.7	315.2	54.945 ug/L	54.945 ppb	13:34:04
2	Mg 279.077 IEC†	8.2	5.4	234.81 ug/L	234.81 ppb	13:34:24
2	Na 589.592 Radial†	-1494.2	5.4	1.5368 ug/L	1.5368 ppb	13:34:04
2	Sr 421.552†	13.6	13.9	0.0938 ug/L	0.0938 ppb	13:34:04
2	Sc 361.383	834325.7	834325.7	96.480 %		13:35:22
2	Y 371.029	659103.5	659103.5	96.630 %		13:35:22
2	Ag 328.068†	449.5	30.8	0.1460 ug/L	0.1460 ppb	13:35:22
2	As 188.979†	-34.7	-0.5	-0.1910 ug/L	-0.1910 ppb	13:35:42
2	B 249.677†	-504.5	83.9	1.7820 ug/L	1.7820 ppb	13:35:22
2	Ba 233.527†	-5.6	12.2	0.0910 ug/L	0.0910 ppb	13:35:42
2	Be 313.107†	-3806.5	-1.2	-0.0007 ug/L	-0.0007 ppb	13:35:22
2	Cd 226.502†	-173.1	20.2	0.2088 ug/L	0.2088 ppb	13:35:42
2	Co 228.616†	-89.8	-6.7	-0.1227 ug/L	-0.1227 ppb	13:35:42
2	Cr 267.716†	30.5	-57.4	-0.6109 ug/L	-0.6109 ppb	13:35:22
2	Cu 324.752†	6824.8	225.5	0.6515 ug/L	0.6515 ppb	13:35:22
2	Mn 257.610†	510.8	37.0	0.0294 ug/L	0.0294 ppb	13:35:42
2	Mo 202.031†	15.0	12.8	0.8706 ug/L	0.8706 ppb	13:35:42
2	Ni 231.604†	103.3	23.8	0.5419 ug/L	0.5419 ppb	13:35:42

2	P 214.914†	231.7	5.7	2.7259 ug/L	2.7259 ppb	13:35:42
2	Pb 220.353†	-64.8	4.0	0.4337 ug/L	0.4337 ppb	13:35:42
2	S 181.975 Axial†	67.4	17.9	21.686 ug/L	21.686 ppb	13:35:42
2	Sb 206.836†	40.6	6.6	2.0291 ug/L	2.0291 ppb	13:35:42
2	Se 196.026†	-23.8	4.8	2.6622 ug/L	2.6622 ppb	13:35:42
2	Si 251.611†	506.1	35.0	1.0302 ug/L	1.0302 ppb	13:35:42
2	Sn 189.927†	14.4	-2.7	-0.4439 ug/L	-0.4439 ppb	13:35:42
2	Ti 334.940†	-1719.5	-87.7	-0.1489 ug/L	-0.1489 ppb	13:35:22
2	Tl 190.801†	-34.2	7.7	2.2145 ug/L	2.2145 ppb	13:35:42
2	U 409.014†	-4368.1	-202.7	-6.5770 ug/L	-6.5770 ppb	13:35:22
2	V 292.402†	-1741.7	-97.4	-0.6732 ug/L	-0.6732 ppb	13:35:22
2	Zn 213.857†	773.5	56.6	0.4788 ug/L	0.4788 ppb	13:35:42
2	SiO2†	563.5	51.6	3.2707 ug/L	3.2707 ppb	13:36:17
3	Sc Radial	3750.3	3750.3	94.7 %		13:34:49
3	Y RADIAL	4225.8	4225.8	93.11 %		13:34:29
3	Al 396.153Radial†	-188.3	-3.0	-2.6742 ug/L	-2.6742 ppb	13:34:29
3	Ca 317.933Radial†	21.4	6.3	12.459 ug/L	12.459 ppb	13:34:49
3	Fe 238.204 Radial†	10.2	-1.0	-12.267 ug/L	-12.267 ppb	13:34:49
3	K 766.490 Radial†	3327.6	482.9	84.194 ug/L	84.194 ppb	13:34:29
3	Mg 279.077 IEC†	3.7	0.6	27.331 ug/L	27.331 ppb	13:34:49
3	Na 589.592 Radial†	-1564.9	-67.3	-19.286 ug/L	-19.286 ppb	13:34:29
3	Sr 421.552†	21.2	21.9	0.1479 ug/L	0.1479 ppb	13:34:29
3	Sc 361.383	838585.5	838585.5	96.973 %		13:35:47
3	Y 371.029	663061.5	663061.5	97.210 %		13:35:47
3	Ag 328.068†	344.8	-79.6	-0.3624 ug/L	-0.3624 ppb	13:35:47
3	As 188.979†	-25.8	8.9	3.3838 ug/L	3.3838 ppb	13:36:07
3	B 249.677†	-491.4	100.1	2.1294 ug/L	2.1294 ppb	13:35:47
3	Ba 233.527†	-1.5	16.5	0.1235 ug/L	0.1235 ppb	13:36:07
3	Be 313.107†	-3845.9	-21.9	-0.0078 ug/L	-0.0078 ppb	13:35:47
3	Cd 226.502†	-210.4	-17.4	-0.1804 ug/L	-0.1804 ppb	13:36:07
3	Co 228.616†	-89.6	-6.0	-0.1116 ug/L	-0.1116 ppb	13:36:07
3	Cr 267.716†	99.9	14.0	0.1503 ug/L	0.1503 ppb	13:35:47
3	Cu 324.752†	6855.2	220.9	0.6357 ug/L	0.6357 ppb	13:35:47
3	Mn 257.610†	527.9	51.9	0.0508 ug/L	0.0508 ppb	13:36:07
3	Mo 202.031†	4.0	1.4	0.0914 ug/L	0.0914 ppb	13:36:07
3	Ni 231.604†	94.7	14.5	0.3291 ug/L	0.3291 ppb	13:36:07
3	P 214.914†	226.0	-1.4	-0.8293 ug/L	-0.8293 ppb	13:36:07
3	Pb 220.353†	-81.0	-12.4	-1.3553 ug/L	-1.3553 ppb	13:36:07
3	S 181.975 Axial†	49.7	-0.6	-0.7848 ug/L	-0.7848 ppb	13:36:07
3	Sb 206.836†	51.0	17.1	5.2503 ug/L	5.2503 ppb	13:36:07
3	Se 196.026†	-31.1	-2.5	-1.4042 ug/L	-1.4042 ppb	13:36:07
3	Si 251.611†	525.9	52.8	1.5703 ug/L	1.5703 ppb	13:36:07
3	Sn 189.927†	15.2	-1.9	-0.3148 ug/L	-0.3148 ppb	13:36:07
3	Ti 334.940†	-1743.3	-103.1	-0.1571 ug/L	-0.1571 ppb	13:35:47
3	Tl 190.801†	-37.5	4.5	1.2874 ug/L	1.2874 ppb	13:36:07
3	U 409.014†	-4316.9	-126.9	-4.1174 ug/L	-4.1174 ppb	13:35:47
3	V 292.402†	-1666.7	-10.9	-0.0796 ug/L	-0.0796 ppb	13:35:47
3	Zn 213.857†	751.4	29.8	0.2527 ug/L	0.2527 ppb	13:36:07
3	SiO2†	572.7	58.2	3.7091 ug/L	3.7091 ppb	13:36:22

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	837522.5	96.850 %	0.3261			0.34%
Sc Radial	3748.3	94.7 %	0.06			0.07%
Y 371.029	661673.1	97.006 %	0.3266			0.34%
Y RADIAL	4197.8	92.49 %	0.663			0.72%
Ag 328.068†	-17.4	-0.0731 ug/L	0.26137	-0.0731 ppb	0.26137	357.75%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-9.9	-8.9233 ug/L	11.11371	-8.9233 ppb	11.11371	124.55%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.8	1.0534 ug/L	2.01970	1.0534 ppb	2.01970	191.72%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	89.7	1.9050 ug/L	0.19462	1.9050 ppb	0.19462	10.22%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.4	0.1077 ug/L	0.01628	0.1077 ppb	0.01628	15.12%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	16.0	0.0052 ug/L	0.01680	0.0052 ppb	0.01680	322.64%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	5.9	11.605 ug/L	1.9394	11.605 ppb	1.9394	16.71%

QC value within limits for Ca 317.933 Radial	Recovery = Not calculated		
Cd 226.502†	-0.1 -0.0027 ug/L	0.19678 -0.0027 ppb	0.19678 >999.9%
QC value within limits for Cd 226.502	Recovery = Not calculated		
Co 228.616†	-6.9 -0.1267 ug/L	0.01753 -0.1267 ppb	0.01753 13.83%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-20.8 -0.2212 ug/L	0.38092 -0.2212 ppb	0.38092 172.20%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	207.8 0.5992 ug/L	0.07734 0.5992 ppb	0.07734 12.91%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	1.1 13.118 ug/L	26.1083 13.118 ppb	26.1083 199.02%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	333.2 58.096 ug/L	24.6732 58.096 ppb	24.6732 42.47%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	1.1 47.349 ug/L	178.2981 47.349 ppb	178.2981 376.56%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	42.6 0.0429 ug/L	0.01174 0.0429 ppb	0.01174 27.35%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	4.0 0.2736 ug/L	0.52997 0.2736 ppb	0.52997 193.74%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-25.3 -7.2474 ug/L	10.78603 -7.2474 ppb	10.78603 148.83%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	9.9 0.2260 ug/L	0.37823 0.2260 ppb	0.37823 167.39%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	7.4 3.6120 ug/L	4.94434 3.6120 ppb	4.94434 136.89%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-0.3 -0.0400 ug/L	1.15379 -0.0400 ppb	1.15379 >999.9%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	6.2 7.5566 ug/L	12.30264 7.5566 ppb	12.30264 162.81%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	17.4 5.3635 ug/L	3.39237 5.3635 ppb	3.39237 63.25%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	3.0 1.6937 ug/L	2.74494 1.6937 ppb	2.74494 162.07%
QC value within limits for Se 196.026	Recovery = Not calculated		
Si 251.611†	40.4 1.1979 ug/L	0.32304 1.1979 ppb	0.32304 26.97%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	-0.8 -0.1312 ug/L	0.43472 -0.1312 ppb	0.43472 331.44%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	27.7 0.1873 ug/L	0.11825 0.1873 ppb	0.11825 63.13%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-68.7 -0.1060 ug/L	0.08159 -0.1060 ppb	0.08159 76.98%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	4.7 1.3480 ug/L	0.83774 1.3480 ppb	0.83774 62.15%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-115.6 -3.7533 ug/L	3.02225 -3.7533 ppb	3.02225 80.52%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-54.2 -0.3804 ug/L	0.29685 -0.3804 ppb	0.29685 78.03%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	44.6 0.3779 ug/L	0.11497 0.3779 ppb	0.11497 30.42%
QC value within limits for Zn 213.857	Recovery = Not calculated		
SiO2†	57.5 3.6616 ug/L	0.36942 3.6616 ppb	0.36942 10.09%
QC value within limits for SiO2	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 5

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 14:15:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3707.8	3707.8	93.6 %		14:17:26
1	Y RADIAL	4064.2	4064.2	89.55 %		14:17:06
1	Al 396.153Radial†	5148.4	5694.4	5091.8 ug/L	5091.8 ppb	14:17:06
1	Ca 317.933Radial†	2452.2	2602.8	5160.4 ug/L	5160.4 ppb	14:17:26
1	Fe 238.204 Radial†	427.5	444.8	5312.2 ug/L	5312.2 ppb	14:17:26
1	K 766.490 Radial†	30235.5	29261.7	5095.1 ug/L	5095.1 ppb	14:17:06
1	Mg 279.077 IEC†	121.3	126.3	5495.1 ug/L	5495.1 ppb	14:17:26
1	Na 589.592 Radial†	32760.5	36574.3	10487 ug/L	10487 ppb	14:17:06
1	Sr 421.552†	69590.3	74324.1	502.06 ug/L	502.06 ppb	14:17:06
1	Sc 361.383	836465.0	836465.0	96.728 %		14:18:23
1	Y 371.029	651632.7	651632.7	95.534 %		14:18:23
1	Ag 328.068†	105307.1	108434.3	495.47 ug/L	495.47 ppb	14:18:29
1	As 188.979†	1195.3	1271.2	489.10 ug/L	489.10 ppb	14:18:49
1	B 249.677†	21185.2	22508.7	476.00 ug/L	476.00 ppb	14:18:29
1	Ba 233.527†	62900.3	65046.2	491.33 ug/L	491.33 ppb	14:18:29
1	Be 313.107†	1363452.2	1413519.7	483.07 ug/L	483.07 ppb	14:18:23
1	Cd 226.502†	44945.2	46665.3	486.65 ug/L	486.65 ppb	14:18:29
1	Co 228.616†	25354.5	26298.6	489.01 ug/L	489.01 ppb	14:18:29
1	Cr 267.716†	44629.0	46049.7	491.88 ug/L	491.88 ppb	14:18:29
1	Cu 324.752†	170092.3	168997.9	485.08 ug/L	485.08 ppb	14:18:29
1	Mn 257.610†	459423.0	474472.1	486.05 ug/L	486.05 ppb	14:18:23
1	Mo 202.031†	6973.1	7206.1	491.44 ug/L	491.44 ppb	14:18:49
1	Ni 231.604†	20919.6	21544.1	489.22 ug/L	489.22 ppb	14:18:29
1	P 214.914†	4796.5	4724.3	2307.0 ug/L	2307.0 ppb	14:18:49
1	Pb 220.353†	4209.2	4422.7	485.47 ug/L	485.47 ppb	14:18:49
1	S 181.975 Axial†	830.4	806.6	975.07 ug/L	975.07 ppb	14:18:49
1	Sb 206.836†	1563.0	1580.3	504.13 ug/L	504.13 ppb	14:18:49
1	Se 196.026†	844.0	902.0	506.53 ug/L	506.53 ppb	14:18:49
1	Si 251.611†	80523.4	82757.8	2456.3 ug/L	2456.3 ppb	14:18:29
1	Sn 189.927†	2924.0	3005.2	488.82 ug/L	488.82 ppb	14:18:49
1	Ti 334.940†	306482.4	318544.8	488.93 ug/L	488.93 ppb	14:18:29
1	Tl 190.801†	1615.5	1713.4	492.96 ug/L	492.96 ppb	14:18:49
1	U 409.014†	10559.1	15241.0	492.92 ug/L	492.92 ppb	14:18:29
1	V 292.402†	66559.6	70519.1	496.04 ug/L	496.04 ppb	14:18:29
1	Zn 213.857†	55871.9	57016.8	483.44 ug/L	483.44 ppb	14:18:29
1	SiO2†	80188.8	82369.0	5243.8 ug/L	5243.8 ppb	14:19:56
2	Sc Radial	3769.1	3769.1	95.2 %		14:17:51
2	Y RADIAL	4142.4	4142.4	91.27 %		14:17:31
2	Al 396.153Radial†	5060.8	5512.9	4929.1 ug/L	4929.1 ppb	14:17:31
2	Ca 317.933Radial†	2491.0	2600.9	5156.7 ug/L	5156.7 ppb	14:17:51
2	Fe 238.204 Radial†	432.2	442.3	5282.5 ug/L	5282.5 ppb	14:17:51
2	K 766.490 Radial†	29903.3	28387.3	4942.7 ug/L	4942.7 ppb	14:17:31
2	Mg 279.077 IEC†	116.8	119.4	5195.0 ug/L	5195.0 ppb	14:17:51
2	Na 589.592 Radial†	32580.6	35816.0	10270 ug/L	10270 ppb	14:17:31
2	Sr 421.552†	68884.3	72372.9	488.88 ug/L	488.88 ppb	14:17:31
2	Sc 361.383	841097.2	841097.2	97.264 %		14:18:54
2	Y 371.029	655410.2	655410.2	96.088 %		14:18:54
2	Ag 328.068†	104708.5	107219.3	489.93 ug/L	489.93 ppb	14:19:00
2	As 188.979†	1189.7	1258.6	484.27 ug/L	484.27 ppb	14:19:20
2	B 249.677†	21132.1	22333.4	472.29 ug/L	472.29 ppb	14:19:00
2	Ba 233.527†	62504.7	64281.3	485.55 ug/L	485.55 ppb	14:19:00
2	Be 313.107†	1377648.5	1420352.4	485.39 ug/L	485.39 ppb	14:18:54
2	Cd 226.502†	44727.2	46185.2	481.64 ug/L	481.64 ppb	14:19:00
2	Co 228.616†	25198.1	25993.4	483.33 ug/L	483.33 ppb	14:19:00
2	Cr 267.716†	44370.6	45529.9	486.33 ug/L	486.33 ppb	14:19:00
2	Cu 324.752†	169121.8	167031.7	479.43 ug/L	479.43 ppb	14:19:00
2	Mn 257.610†	463725.7	476280.1	487.91 ug/L	487.91 ppb	14:18:54
2	Mo 202.031†	6913.6	7105.3	484.57 ug/L	484.57 ppb	14:19:20
2	Ni 231.604†	20873.9	21378.0	485.45 ug/L	485.45 ppb	14:19:00

2	P 214.914†	4744.6	4643.7	2267.0 ug/L	2267.0 ppb	14:19:20
2	Pb 220.353†	4194.7	4383.9	481.17 ug/L	481.17 ppb	14:19:20
2	S 181.975 Axial†	817.2	788.2	952.87 ug/L	952.87 ppb	14:19:20
2	Sb 206.836†	1550.2	1558.2	497.10 ug/L	497.10 ppb	14:19:20
2	Se 196.026†	842.8	896.1	503.19 ug/L	503.19 ppb	14:19:20
2	Si 251.611†	80016.4	81778.1	2427.2 ug/L	2427.2 ppb	14:19:00
2	Sn 189.927†	2907.0	2971.1	483.28 ug/L	483.28 ppb	14:19:20
2	Ti 334.940†	304561.0	314824.3	483.24 ug/L	483.24 ppb	14:19:00
2	Tl 190.801†	1604.9	1693.3	487.20 ug/L	487.20 ppb	14:19:20
2	U 409.014†	10368.8	14985.3	484.63 ug/L	484.63 ppb	14:19:00
2	V 292.402†	66089.3	69656.5	489.94 ug/L	489.94 ppb	14:19:00
2	Zn 213.857†	55629.7	56449.8	478.62 ug/L	478.62 ppb	14:19:00
2	SiO2†	79898.3	81613.8	5195.8 ug/L	5195.8 ppb	14:20:01
3	Sc Radial	3726.7	3726.7	94.1 %		14:18:16
3	Y RADIAL	4148.7	4148.7	91.41 %		14:17:56
3	Al 396.153Radial†	5125.6	5642.3	5045.1 ug/L	5045.1 ppb	14:17:56
3	Ca 317.933Radial†	2474.0	2612.6	5179.8 ug/L	5179.8 ppb	14:18:16
3	Fe 238.204 Radial†	424.5	439.2	5245.8 ug/L	5245.8 ppb	14:18:16
3	K 766.490 Radial†	30354.6	29223.6	5088.4 ug/L	5088.4 ppb	14:17:56
3	Mg 279.077 IEC†	115.2	119.1	5181.7 ug/L	5181.7 ppb	14:18:16
3	Na 589.592 Radial†	33006.3	36657.1	10511 ug/L	10511 ppb	14:17:56
3	Sr 421.552†	69663.1	74022.6	500.02 ug/L	500.02 ppb	14:17:56
3	Sc 361.383	836412.2	836412.2	96.722 %		14:19:25
3	Y 371.029	651696.8	651696.8	95.544 %		14:19:25
3	Ag 328.068†	105400.3	108537.6	495.92 ug/L	495.92 ppb	14:19:31
3	As 188.979†	1198.1	1274.2	490.25 ug/L	490.25 ppb	14:19:51
3	B 249.677†	21278.4	22606.4	478.08 ug/L	478.08 ppb	14:19:31
3	Ba 233.527†	63085.2	65241.5	492.80 ug/L	492.80 ppb	14:19:31
3	Cd 313.107†	1370020.6	1420399.8	485.42 ug/L	485.42 ppb	14:19:25
3	Ce 226.502†	45231.1	46963.7	489.77 ug/L	489.77 ppb	14:19:31
3	Co 228.616†	25415.6	26363.4	490.21 ug/L	490.21 ppb	14:19:31
3	Cr 267.716†	44787.2	46216.2	493.66 ug/L	493.66 ppb	14:19:31
3	Cu 324.752†	170051.6	168967.0	484.98 ug/L	484.98 ppb	14:19:31
3	Mn 257.610†	462103.1	477273.0	488.93 ug/L	488.93 ppb	14:19:25
3	Mo 202.031†	6934.9	7167.2	488.78 ug/L	488.78 ppb	14:19:51
3	Ni 231.604†	20946.9	21573.7	489.89 ug/L	489.89 ppb	14:19:31
3	P 214.914†	4790.1	4718.0	2303.8 ug/L	2303.8 ppb	14:19:51
3	Pb 220.353†	4222.8	4437.1	487.04 ug/L	487.04 ppb	14:19:51
3	S 181.975 Axial†	828.4	804.5	972.57 ug/L	972.57 ppb	14:19:51
3	Sb 206.836†	1567.6	1585.1	505.60 ug/L	505.60 ppb	14:19:51
3	Se 196.026†	846.3	904.5	507.67 ug/L	507.67 ppb	14:19:51
3	Si 251.611†	80666.0	82910.6	2460.9 ug/L	2460.9 ppb	14:19:31
3	Sn 189.927†	2940.0	3022.0	491.54 ug/L	491.54 ppb	14:19:51
3	Ti 334.940†	306968.9	319067.9	489.76 ug/L	489.76 ppb	14:19:31
3	Tl 190.801†	1623.3	1721.6	495.31 ug/L	495.31 ppb	14:19:51
3	U 409.014†	10517.9	15199.1	491.56 ug/L	491.56 ppb	14:19:31
3	V 292.402†	66652.8	70619.7	496.70 ug/L	496.70 ppb	14:19:31
3	Zn 213.857†	55950.8	57102.1	484.17 ug/L	484.17 ppb	14:19:31
3	SiO2†	80828.7	83035.9	5286.4 ug/L	5286.4 ppb	14:20:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	837991.5	96.904 %	0.3110			0.32%
Sc Radial	3734.5	94.3 %	0.79			0.84%
Y 371.029	652913.2	95.722 %	0.3171			0.33%
Y RADIAL	4118.4	90.75 %	1.037			1.14%
Ag 328.068†	108063.7	493.77 ug/L	3.337	493.77 ppb	3.337	0.68%
QC value within limits for Ag 328.068 Recovery = 98.75%						
Al 396.153Radial†	5616.5	5022.0 ug/L	83.78	5022.0 ppb	83.78	1.67%
QC value within limits for Al 396.153Radial Recovery = 100.44%						
As 188.979†	1268.0	487.87 ug/L	3.174	487.87 ppb	3.174	0.65%
QC value within limits for As 188.979 Recovery = 97.57%						
B 249.677†	22482.8	475.46 ug/L	2.931	475.46 ppb	2.931	0.62%
QC value within limits for B 249.677 Recovery = 95.09%						
Ba 233.527†	64856.3	489.90 ug/L	3.831	489.90 ppb	3.831	0.78%
QC value within limits for Ba 233.527 Recovery = 97.98%						
Be 313.107†	1418090.6	484.63 ug/L	1.347	484.63 ppb	1.347	0.28%
QC value within limits for Be 313.107 Recovery = 96.93%						
Ca 317.933Radial†	2605.4	5165.6 ug/L	12.44	5165.6 ppb	12.44	0.24%

QC value within limits for Ca 317.933 Radial Recovery = 103.31%

Cd 226.502†	46604.7	486.02 ug/L	4.101	486.02 ppb	4.101	0.84%
QC value within limits for Cd 226.502 Recovery = 97.20%						
Co 228.616†	26218.5	487.52 ug/L	3.673	487.52 ppb	3.673	0.75%
QC value within limits for Co 228.616 Recovery = 97.50%						
Cr 267.716†	45931.9	490.62 ug/L	3.822	490.62 ppb	3.822	0.78%
QC value within limits for Cr 267.716 Recovery = 98.12%						
Cu 324.752†	168332.2	483.16 ug/L	3.230	483.16 ppb	3.230	0.67%
QC value within limits for Cu 324.752 Recovery = 96.63%						
Fe 238.204 Radial†	442.1	5280.2 ug/L	33.25	5280.2 ppb	33.25	0.63%
QC value within limits for Fe 238.204 Radial Recovery = 105.60%						
K 766.490 Radial†	28957.5	5042.1 ug/L	86.11	5042.1 ppb	86.11	1.71%
QC value within limits for K 766.490 Radial Recovery = 100.84%						
Mg 279.077 IEC†	121.6	5290.6 ug/L	177.20	5290.6 ppb	177.20	3.35%
QC value within limits for Mg 279.077 IEC Recovery = 105.81%						
Mn 257.610†	476008.4	487.63 ug/L	1.458	487.63 ppb	1.458	0.30%
QC value within limits for Mn 257.610 Recovery = 97.53%						
Mo 202.031†	7159.5	488.26 ug/L	3.466	488.26 ppb	3.466	0.71%
QC value within limits for Mo 202.031 Recovery = 97.65%						
Na 589.592 Radial†	36349.2	10423 ug/L	132.9	10423 ppb	132.9	1.28%
QC value within limits for Na 589.592 Radial Recovery = 104.23%						
Ni 231.604†	21498.6	488.18 ug/L	2.394	488.18 ppb	2.394	0.49%
QC value within limits for Ni 231.604 Recovery = 97.64%						
P 214.914†	4695.3	2292.6 ug/L	22.22	2292.6 ppb	22.22	0.97%
QC value within limits for P 214.914 Recovery = 91.70%						
Pb 220.353†	4414.6	484.56 ug/L	3.037	484.56 ppb	3.037	0.63%
QC value within limits for Pb 220.353 Recovery = 96.91%						
S 181.975 Axial†	799.8	966.84 ug/L	12.158	966.84 ppb	12.158	1.26%
QC value within limits for S 181.975 Axial Recovery = 96.68%						
Sb 206.836†	1574.6	502.28 ug/L	4.541	502.28 ppb	4.541	0.90%
QC value within limits for Sb 206.836 Recovery = 100.46%						
Se 196.026†	900.9	505.80 ug/L	2.328	505.80 ppb	2.328	0.46%
QC value within limits for Se 196.026 Recovery = 101.16%						
Si 251.611†	82482.1	2448.1 ug/L	18.25	2448.1 ppb	18.25	0.75%
QC value within limits for Si 251.611 Recovery = 97.92%						
Sn 189.927†	2999.4	487.88 ug/L	4.208	487.88 ppb	4.208	0.86%
QC value within limits for Sn 189.927 Recovery = 97.58%						
Sr 421.552†	73573.2	496.98 ug/L	7.096	496.98 ppb	7.096	1.43%
QC value within limits for Sr 421.552 Recovery = 99.40%						
Ti 334.940†	317479.0	487.31 ug/L	3.545	487.31 ppb	3.545	0.73%
QC value within limits for Ti 334.940 Recovery = 97.46%						
Tl 190.801†	1709.4	491.82 ug/L	4.172	491.82 ppb	4.172	0.85%
QC value within limits for Tl 190.801 Recovery = 98.36%						
U 409.014†	15141.8	489.71 ug/L	4.444	489.71 ppb	4.444	0.91%
QC value within limits for U 409.014 Recovery = 97.94%						
V 292.402†	70265.1	494.23 ug/L	3.724	494.23 ppb	3.724	0.75%
QC value within limits for V 292.402 Recovery = 98.85%						
Zn 213.857†	56856.2	482.07 ug/L	3.014	482.07 ppb	3.014	0.63%
QC value within limits for Zn 213.857 Recovery = 96.41%						
SiO2†	82339.6	5242.0 ug/L	45.35	5242.0 ppb	45.35	0.87%
QC value within limits for SiO2 Recovery = 98.03%						

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 14:22:16

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	3760.9	3760.9	95.0 %		14:24:29
1	Y RADIAL	4246.7	4246.7	93.57 %		14:24:09
1	Al 396.153Radial†	-175.1	11.5	10.292 ug/L	10.292 ppb	14:24:09
1	Ca 317.933Radial†	17.3	1.9	3.7660 ug/L	3.7660 ppb	14:24:29
1	Fe 238.204 Radial†	11.7	0.5	6.3608 ug/L	6.3608 ppb	14:24:29
1	K 766.490 Radial†	3137.3	272.7	47.531 ug/L	47.531 ppb	14:24:09
1	Mg 279.077 IEC†	0.7	-2.5	-109.72 ug/L	-109.72 ppb	14:24:29
1	Na 589.592 Radial†	-1427.7	81.9	23.471 ug/L	23.471 ppb	14:24:09
1	Sr 421.552†	-4.8	-5.5	-0.0374 ug/L	-0.0374 ppb	14:24:09
1	Sc 361.383	825938.2	825938.2	95.511 %		14:25:26
1	Y 371.029	652987.5	652987.5	95.733 %		14:25:26
1	Ag 328.068†	520.3	109.7	0.5020 ug/L	0.5020 ppb	14:25:26
1	As 188.979†	-26.8	7.4	2.8330 ug/L	2.8330 ppb	14:25:46
1	B 249.677†	-399.3	188.8	4.0100 ug/L	4.0100 ppb	14:25:26
1	Ba 233.527†	-19.8	-2.7	-0.0212 ug/L	-0.0212 ppb	14:25:46
1	Be 313.107†	-3777.4	-10.9	-0.0041 ug/L	-0.0041 ppb	14:25:26
1	Cd 226.502†	-205.0	-15.0	-0.1583 ug/L	-0.1583 ppb	14:25:46
1	Co 228.616†	-83.5	-1.0	-0.0167 ug/L	-0.0167 ppb	14:25:46
1	Cr 267.716†	51.5	-35.1	-0.3731 ug/L	-0.3731 ppb	14:25:26
1	Cu 324.752†	6817.4	289.5	0.8343 ug/L	0.8343 ppb	14:25:26
1	Mn 257.610†	559.7	93.5	0.1009 ug/L	0.1009 ppb	14:25:46
1	Mo 202.031†	13.1	10.9	0.7429 ug/L	0.7429 ppb	14:25:46
1	Ni 231.604†	84.4	5.1	0.1167 ug/L	0.1167 ppb	14:25:46
1	P 214.914†	243.7	20.7	10.354 ug/L	10.354 ppb	14:25:46
1	Pb 220.353†	-70.5	-2.6	-0.2813 ug/L	-0.2813 ppb	14:25:46
1	S 181.975 Axial†	52.7	3.3	3.9336 ug/L	3.9336 ppb	14:25:46
1	Sb 206.836†	53.1	20.1	6.1767 ug/L	6.1767 ppb	14:25:46
1	Se 196.026†	-30.1	-2.0	-1.0666 ug/L	-1.0666 ppb	14:25:46
1	Si 251.611†	513.0	47.6	1.4071 ug/L	1.4071 ppb	14:25:46
1	Sn 189.927†	10.0	-7.1	-1.1597 ug/L	-1.1597 ppb	14:25:46
1	Ti 334.940†	-1734.8	-121.8	-0.1751 ug/L	-0.1751 ppb	14:25:26
1	Tl 190.801†	-38.5	2.9	0.8429 ug/L	0.8429 ppb	14:25:46
1	U 409.014†	-4286.4	-163.2	-5.2948 ug/L	-5.2948 ppb	14:25:26
1	V 292.402†	-1707.7	-80.2	-0.5590 ug/L	-0.5590 ppb	14:25:26
1	Zn 213.857†	766.6	57.6	0.4901 ug/L	0.4901 ppb	14:25:46
1	SiO2†	575.8	70.4	4.4738 ug/L	4.4738 ppb	14:26:42
2	Sc Radial	3696.9	3696.9	93.4 %		14:24:54
2	Y RADIAL	4242.1	4242.1	93.47 %		14:24:34
2	Al 396.153Radial†	-211.5	-30.7	-27.667 ug/L	-27.667 ppb	14:24:34
2	Ca 317.933Radial†	18.7	3.7	7.3638 ug/L	7.3638 ppb	14:24:54
2	Fe 238.204 Radial†	12.0	1.1	12.699 ug/L	12.699 ppb	14:24:54
2	K 766.490 Radial†	3056.4	243.2	42.382 ug/L	42.382 ppb	14:24:34
2	Mg 279.077 IEC†	5.3	2.4	105.24 ug/L	105.24 ppb	14:24:54
2	Na 589.592 Radial†	-1397.8	87.9	25.190 ug/L	25.190 ppb	14:24:34
2	Sr 421.552†	15.6	16.3	0.1100 ug/L	0.1100 ppb	14:24:34
2	Sc 361.383	838678.4	838678.4	96.984 %		14:25:51
2	Y 371.029	663050.5	663050.5	97.208 %		14:25:51
2	Ag 328.068†	408.5	-13.9	-0.0596 ug/L	-0.0596 ppb	14:25:51
2	As 188.979†	-40.1	-5.9	-2.2435 ug/L	-2.2435 ppb	14:26:11
2	B 249.677†	-435.4	157.9	3.3526 ug/L	3.3526 ppb	14:25:51
2	Ba 233.527†	7.7	26.0	0.1946 ug/L	0.1946 ppb	14:26:11
2	Be 313.107†	-3744.3	83.4	0.0281 ug/L	0.0281 ppb	14:25:51
2	Cd 226.502†	-187.2	6.6	0.0670 ug/L	0.0670 ppb	14:26:11
2	Co 228.616†	-92.2	-8.7	-0.1591 ug/L	-0.1591 ppb	14:26:11
2	Cr 267.716†	99.5	13.5	0.1448 ug/L	0.1448 ppb	14:25:51
2	Cu 324.752†	6829.6	193.7	0.5581 ug/L	0.5581 ppb	14:25:51
2	Mn 257.610†	522.3	46.1	0.0441 ug/L	0.0441 ppb	14:26:11
2	Mo 202.031†	18.0	15.7	1.0736 ug/L	1.0736 ppb	14:26:11
2	Ni 231.604†	90.7	10.3	0.2349 ug/L	0.2349 ppb	14:26:11

2	P 214.914†	244.1	17.2	8.6186 ug/L	8.6186 ppb	14:26:11
2	Pb 220.353†	-91.5	-23.2	-2.5418 ug/L	-2.5418 ppb	14:26:11
2	S 181.975 Axial†	55.2	5.0	6.0936 ug/L	6.0936 ppb	14:26:11
2	Sb 206.836†	54.6	20.8	6.4103 ug/L	6.4103 ppb	14:26:11
2	Se 196.026†	-31.8	-3.3	-1.7245 ug/L	-1.7245 ppb	14:26:11
2	Si 251.611†	536.4	63.5	1.8760 ug/L	1.8760 ppb	14:26:11
2	Sn 189.927†	14.8	-2.4	-0.3935 ug/L	-0.3935 ppb	14:26:11
2	Ti 334.940†	-1724.7	-83.8	-0.1351 ug/L	-0.1351 ppb	14:25:51
2	Tl 190.801†	-52.9	-11.3	-3.2346 ug/L	-3.2346 ppb	14:26:11
2	U 409.014†	-4276.2	-84.4	-2.7404 ug/L	-2.7404 ppb	14:25:51
2	V 292.402†	-1752.2	-98.8	-0.6758 ug/L	-0.6758 ppb	14:25:51
2	Zn 213.857†	796.7	76.4	0.6502 ug/L	0.6502 ppb	14:26:11
2	SiO2†	602.6	88.9	5.6449 ug/L	5.6449 ppb	14:26:47
3	Sc Radial	3707.7	3707.7	93.6 %		14:25:19
3	Y RADIAL	4160.6	4160.6	91.68 %		14:24:59
3	Al 396.153Radial†	-183.3	0.1	0.0612 ug/L	0.0612 ppb	14:24:59
3	Ca 317.933Radial†	35.3	21.5	42.551 ug/L	42.551 ppb	14:25:19
3	Fe 238.204 Radial†	15.7	4.9	58.609 ug/L	58.609 ppb	14:25:19
3	K 766.490 Radial†	3017.9	192.6	33.547 ug/L	33.547 ppb	14:24:59
3	Mg 279.077 IEC†	2.2	-1.0	-41.515 ug/L	-41.515 ppb	14:25:19
3	Na 589.592 Radial†	-1373.3	118.3	33.925 ug/L	33.925 ppb	14:24:59
3	Sr 421.552†	5.1	5.0	0.0334 ug/L	0.0334 ppb	14:24:59
3	Sc 361.383	835742.5	835742.5	96.644 %		14:26:17
3	Y 371.029	660420.0	660420.0	96.823 %		14:26:17
3	Ag 328.068†	496.7	78.8	0.3776 ug/L	0.3776 ppb	14:26:17
3	As 188.979†	-21.5	13.2	5.0546 ug/L	5.0546 ppb	14:26:37
3	B 249.677†	-447.3	143.9	3.0484 ug/L	3.0484 ppb	14:26:17
3	Ba 233.527†	-5.0	12.9	0.0981 ug/L	0.0981 ppb	14:26:37
3	Be 313.107†	-3862.3	-52.3	-0.0182 ug/L	-0.0182 ppb	14:26:17
3	Cd 226.502†	-195.0	-2.1	-0.0286 ug/L	-0.0286 ppb	14:26:37
3	Co 228.616†	-80.1	3.5	0.0644 ug/L	0.0644 ppb	14:26:37
3	Cr 267.716†	105.6	20.2	0.2169 ug/L	0.2169 ppb	14:26:17
3	Cu 324.752†	6748.7	134.8	0.3911 ug/L	0.3911 ppb	14:26:17
3	Mn 257.610†	506.0	31.1	0.0393 ug/L	0.0393 ppb	14:26:37
3	Mo 202.031†	4.4	1.7	0.1240 ug/L	0.1240 ppb	14:26:37
3	Ni 231.604†	78.6	-1.9	-0.0437 ug/L	-0.0437 ppb	14:26:37
3	P 214.914†	240.4	14.2	7.1162 ug/L	7.1162 ppb	14:26:37
3	Pb 220.353†	-72.3	-3.6	-0.4037 ug/L	-0.4037 ppb	14:26:37
3	S 181.975 Axial†	55.0	5.0	6.0751 ug/L	6.0751 ppb	14:26:37
3	Sb 206.836†	39.7	5.5	1.6911 ug/L	1.6911 ppb	14:26:37
3	Se 196.026†	-35.9	-7.7	-3.9690 ug/L	-3.9690 ppb	14:26:37
3	Si 251.611†	527.8	56.5	1.6810 ug/L	1.6810 ppb	14:26:37
3	Sn 189.927†	17.6	0.6	0.1002 ug/L	0.1002 ppb	14:26:37
3	Ti 334.940†	-1722.6	-87.8	-0.1249 ug/L	-0.1249 ppb	14:26:17
3	Tl 190.801†	-33.2	8.8	2.5237 ug/L	2.5237 ppb	14:26:37
3	U 409.014†	-4243.6	-66.1	-2.1533 ug/L	-2.1533 ppb	14:26:17
3	V 292.402†	-1692.8	-43.7	-0.3151 ug/L	-0.3151 ppb	14:26:17
3	Zn 213.857†	785.8	68.0	0.5759 ug/L	0.5759 ppb	14:26:37
3	SiO2†	564.5	51.7	3.2967 ug/L	3.2967 ppb	14:26:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	833453.0	96.380 %	0.7715			0.80%
Sc Radial	3721.8	94.0 %	0.86			0.92%
Y 371.029	658819.3	96.588 %	0.7651			0.79%
Y RADIAL	4216.5	92.91 %	1.068			1.15%
Ag 328.068†	58.2	0.2733 ug/L	0.29496	0.2733 ppb	0.29496	107.92%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.4	-5.7714 ug/L	19.63988	-5.7714 ppb	19.63988	340.30%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.9	1.8814 ug/L	3.74099	1.8814 ppb	3.74099	198.84%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	163.5	3.4703 ug/L	0.49146	3.4703 ppb	0.49146	14.16%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	12.1	0.0905 ug/L	0.10811	0.0905 ppb	0.10811	119.47%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	6.7	0.0020 ug/L	0.02373	0.0020 ppb	0.02373	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	9.0	17.894 ug/L	21.4296	17.894 ppb	21.4296	119.76%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd	226.502†	-3.5	-0.0400 ug/L	0.11308	-0.0400 ppb	0.11308 282.90%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co	228.616†	-2.1	-0.0372 ug/L	0.11314	-0.0372 ppb	0.11314 304.55%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr	267.716†	-0.5	-0.0038 ug/L	0.32182	-0.0038 ppb	0.32182 >999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	206.0	0.5945 ug/L	0.22382	0.5945 ppb	0.22382 37.65%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	238.204 Radial†	2.2	25.890 ug/L	28.5123	25.890 ppb	28.5123 110.13%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K	766.490 Radial†	236.1	41.153 ug/L	7.0728	41.153 ppb	7.0728 17.19%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg	279.077 IEC†	-0.4	-15.333 ug/L	109.8451	-15.333 ppb	109.8451 716.38%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn	257.610†	56.9	0.0614 ug/L	0.03423	0.0614 ppb	0.03423 55.72%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo	202.031†	9.5	0.6468 ug/L	0.48204	0.6468 ppb	0.48204 74.53%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592 Radial†	96.0	27.529 ug/L	5.6059	27.529 ppb	5.6059 20.36%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni	231.604†	4.5	0.1026 ug/L	0.13985	0.1026 ppb	0.13985 136.24%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	17.4	8.6962 ug/L	1.62023	8.6962 ppb	1.62023 18.63%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb	220.353†	-9.8	-1.0756 ug/L	1.27125	-1.0756 ppb	1.27125 118.19%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S	181.975 Axial†	4.4	5.3674 ug/L	1.24178	5.3674 ppb	1.24178 23.14%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb	206.836†	15.4	4.7594 ug/L	2.65976	4.7594 ppb	2.65976 55.88%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	-4.3	-2.2534 ug/L	1.52174	-2.2534 ppb	1.52174 67.53%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si	251.611†	55.9	1.6547 ug/L	0.23556	1.6547 ppb	0.23556 14.24%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn	189.927†	-3.0	-0.4843 ug/L	0.63486	-0.4843 ppb	0.63486 131.08%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	421.552†	5.2	0.0353 ug/L	0.07369	0.0353 ppb	0.07369 208.61%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti	334.940†	-97.8	-0.1450 ug/L	0.02652	-0.1450 ppb	0.02652 18.29%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl	190.801†	0.2	0.0440 ug/L	2.96108	0.0440 ppb	2.96108 >999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U	409.014†	-104.6	-3.3962 ug/L	1.67028	-3.3962 ppb	1.67028 49.18%
QC value within limits for U 409.014 Recovery = Not calculated						
V	292.402†	-74.2	-0.5166 ug/L	0.18402	-0.5166 ppb	0.18402 35.62%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn	213.857†	67.3	0.5721 ug/L	0.08013	0.5721 ppb	0.08013 14.01%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†		70.3	4.4718 ug/L	1.17408	4.4718 ppb	1.17408 26.26%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 15:18:06

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	3738.5	3738.5	94.4 %		15:20:18
1	Y RADIAL	4033.4	4033.4	88.87 %		15:19:58
1	Al 396.153Radial†	5134.4	5634.3	5038.0 ug/L	5038.0 ppb	15:19:58
1	Ca 317.933Radial†	2487.6	2618.7	5191.9 ug/L	5191.9 ppb	15:20:18
1	Fe 238.204 Radial†	422.5	435.7	5204.0 ug/L	5204.0 ppb	15:20:18
1	K 766.490 Radial†	30267.0	29029.0	5054.8 ug/L	5054.8 ppb	15:19:58
1	Mg 279.077 IEC†	113.9	117.4	5107.8 ug/L	5107.8 ppb	15:20:18
1	Na 589.592 Radial†	30861.8	34274.9	9827.8 ug/L	9827.8 ppb	15:19:58
1	Sr 421.552†	67399.0	71390.8	482.24 ug/L	482.24 ppb	15:19:58
1	Sc 361.383	849687.2	849687.2	98.257 %		15:21:17
1	Y 371.029	660399.5	660399.5	96.820 %		15:21:17
1	Ag 328.068†	106231.7	107681.2	492.03 ug/L	492.03 ppb	15:21:17
1	As 188.979†	1208.5	1265.4	486.97 ug/L	486.97 ppb	15:21:37
1	B 249.677†	21639.4	22630.1	478.62 ug/L	478.62 ppb	15:21:17
1	Ba 233.527†	63987.3	65140.5	492.03 ug/L	492.03 ppb	15:21:17
1	Be 313.107†	1400612.8	1429404.8	488.51 ug/L	488.51 ppb	15:21:17
1	Cd 226.502†	45894.3	46908.1	489.19 ug/L	489.19 ppb	15:21:17
1	Co 228.616†	25296.4	25831.5	480.30 ug/L	480.30 ppb	15:21:37
1	Cr 267.716†	45147.5	45859.4	489.86 ug/L	489.86 ppb	15:21:17
1	Cu 324.752†	173751.5	169985.7	487.92 ug/L	487.92 ppb	15:21:17
1	Mn 257.610†	471004.8	478868.4	490.56 ug/L	490.56 ppb	15:21:17
1	Mo 202.031†	7043.7	7165.9	488.69 ug/L	488.69 ppb	15:21:37
1	Ni 231.604†	20879.2	21166.4	480.64 ug/L	480.64 ppb	15:21:37
1	P 214.914†	4877.5	4729.6	2309.1 ug/L	2309.1 ppb	15:21:37
1	Pb 220.353†	4309.3	4456.9	489.20 ug/L	489.20 ppb	15:21:37
1	S 181.975 Axial†	829.1	791.8	957.23 ug/L	957.23 ppb	15:21:37
1	Sb 206.836†	1579.0	1571.5	501.27 ug/L	501.27 ppb	15:21:37
1	Se 196.026†	841.6	886.1	497.55 ug/L	497.55 ppb	15:21:37
1	Si 251.611†	82316.5	83287.3	2472.1 ug/L	2472.1 ppb	15:21:17
1	Sn 189.927†	2957.0	2991.9	486.65 ug/L	486.65 ppb	15:21:37
1	Ti 334.940†	317892.0	325226.3	499.23 ug/L	499.23 ppb	15:21:17
1	Tl 190.801†	1623.9	1695.9	488.10 ug/L	488.10 ppb	15:21:37
1	U 409.014†	9895.5	14395.8	465.50 ug/L	465.50 ppb	15:21:17
1	V 292.402†	67209.5	70109.7	493.10 ug/L	493.10 ppb	15:21:17
1	Zn 213.857†	56894.2	57158.4	484.71 ug/L	484.71 ppb	15:21:17
1	SiO2†	79839.0	80722.9	5138.8 ug/L	5138.8 ppb	15:22:38
2	Sc Radial	3659.4	3659.4	92.4 %		15:20:43
2	Y RADIAL	4143.0	4143.0	91.29 %		15:20:23
2	Al 396.153Radial†	5209.4	5833.2	5216.3 ug/L	5216.3 ppb	15:20:23
2	Ca 317.933Radial†	2452.7	2637.9	5229.9 ug/L	5229.9 ppb	15:20:43
2	Fe 238.204 Radial†	414.8	437.1	5220.5 ug/L	5220.5 ppb	15:20:43
2	K 766.490 Radial†	30892.5	30399.8	5293.6 ug/L	5293.6 ppb	15:20:23
2	Mg 279.077 IEC†	115.1	121.3	5279.0 ug/L	5279.0 ppb	15:20:43
2	Na 589.592 Radial†	31301.0	35457.7	10167 ug/L	10167 ppb	15:20:23
2	Sr 421.552†	68805.5	74457.9	502.96 ug/L	502.96 ppb	15:20:23
2	Sc 361.383	837495.5	837495.5	96.847 %		15:21:45
2	Y 371.029	650869.1	650869.1	95.422 %		15:21:45
2	Ag 328.068†	104715.4	107689.4	492.06 ug/L	492.06 ppb	15:21:45
2	As 188.979†	1198.1	1272.6	489.69 ug/L	489.69 ppb	15:22:05
2	B 249.677†	21265.4	22564.5	477.20 ug/L	477.20 ppb	15:21:45
2	Ba 233.527†	62966.6	65034.6	491.23 ug/L	491.23 ppb	15:21:45
2	Be 313.107†	1377902.8	1426706.5	487.59 ug/L	487.59 ppb	15:21:45
2	Cd 226.502†	45243.9	46916.5	489.28 ug/L	489.28 ppb	15:21:45
2	Co 228.616†	25283.6	26193.2	487.04 ug/L	487.04 ppb	15:22:05
2	Cr 267.716†	44555.9	45917.5	490.48 ug/L	490.48 ppb	15:21:45
2	Cu 324.752†	170948.6	169665.8	487.00 ug/L	487.00 ppb	15:21:45
2	Mn 257.610†	463985.3	478598.6	490.28 ug/L	490.28 ppb	15:21:45
2	Mo 202.031†	7029.9	7255.9	494.83 ug/L	494.83 ppb	15:22:05
2	Ni 231.604†	20855.0	21450.8	487.10 ug/L	487.10 ppb	15:22:05

2	P 214.914†	4858.1	4781.7	2335.9 ug/L	2335.9 ppb	15:22:05
2	Pb 220.353†	4270.5	4480.7	491.85 ug/L	491.85 ppb	15:22:05
2	S 181.975 Axial†	820.4	795.1	961.19 ug/L	961.19 ppb	15:22:05
2	Sb 206.836†	1571.3	1586.9	506.26 ug/L	506.26 ppb	15:22:05
2	Se 196.026†	847.7	904.8	507.76 ug/L	507.76 ppb	15:22:05
2	Si 251.611†	80923.1	83068.1	2465.5 ug/L	2465.5 ppb	15:21:45
2	Sn 189.927†	2955.2	3033.8	493.47 ug/L	493.47 ppb	15:22:05
2	Ti 334.940†	312938.8	324821.5	498.60 ug/L	498.60 ppb	15:21:45
2	Tl 190.801†	1640.4	1737.0	499.83 ug/L	499.83 ppb	15:22:05
2	U 409.014†	9727.8	14369.2	464.64 ug/L	464.64 ppb	15:21:45
2	V 292.402†	66115.1	69975.4	492.26 ug/L	492.26 ppb	15:21:45
2	Zn 213.857†	56141.3	57224.0	485.23 ug/L	485.23 ppb	15:21:45
2	SiO2†	80592.5	82683.9	5263.8 ug/L	5263.8 ppb	15:22:43
3	Sc Radial	3713.3	3713.3	93.8 %		15:21:09
3	Y RADIAL	4133.2	4133.2	91.07 %		15:20:49
3	Al 396.153Radial†	5193.7	5734.6	5127.8 ug/L	5127.8 ppb	15:20:49
3	Ca 317.933Radial†	2484.4	2633.2	5220.7 ug/L	5220.7 ppb	15:21:09
3	Fe 238.204 Radial†	418.3	434.3	5187.1 ug/L	5187.1 ppb	15:21:09
3	K 766.490 Radial†	30327.2	29311.3	5104.0 ug/L	5104.0 ppb	15:20:49
3	Mg 279.077 IEC†	119.8	124.5	5417.5 ug/L	5417.5 ppb	15:21:09
3	Na 589.592 Radial†	30552.1	34167.0	9796.8 ug/L	9796.8 ppb	15:20:49
3	Sr 421.552†	67241.5	71708.2	484.39 ug/L	484.39 ppb	15:20:49
3	Sc 361.383	844289.3	844289.3	97.633 %		15:22:12
3	Y 371.029	656121.5	656121.5	96.193 %		15:22:12
3	Ag 328.068†	104977.5	107087.8	489.32 ug/L	489.32 ppb	15:22:12
3	As 188.979†	1206.1	1270.8	489.01 ug/L	489.01 ppb	15:22:32
3	B 249.677†	21360.3	22485.1	475.53 ug/L	475.53 ppb	15:22:12
3	Ba 233.527†	63160.7	64710.2	488.79 ug/L	488.79 ppb	15:22:12
3	Be 313.107†	1384026.8	1421530.3	485.82 ug/L	485.82 ppb	15:22:12
3	Cd 226.502†	45463.6	46765.6	487.70 ug/L	487.70 ppb	15:22:12
3	Co 228.616†	25244.6	25943.2	482.39 ug/L	482.39 ppb	15:22:32
3	Cr 267.716†	44770.1	45766.6	488.86 ug/L	488.86 ppb	15:22:12
3	Cu 324.752†	171543.9	168855.1	484.68 ug/L	484.68 ppb	15:22:12
3	Mn 257.610†	465640.5	476438.8	488.06 ug/L	488.06 ppb	15:22:12
3	Mo 202.031†	7046.0	7214.0	491.97 ug/L	491.97 ppb	15:22:32
3	Ni 231.604†	20883.2	21306.4	483.82 ug/L	483.82 ppb	15:22:32
3	P 214.914†	4863.4	4746.8	2318.6 ug/L	2318.6 ppb	15:22:32
3	Pb 220.353†	4295.1	4470.5	490.71 ug/L	490.71 ppb	15:22:32
3	S 181.975 Axial†	822.2	790.2	955.25 ug/L	955.25 ppb	15:22:32
3	Sb 206.836†	1572.8	1575.4	502.56 ug/L	502.56 ppb	15:22:32
3	Se 196.026†	851.1	901.2	505.72 ug/L	505.72 ppb	15:22:32
3	Si 251.611†	81230.3	82710.4	2454.9 ug/L	2454.9 ppb	15:22:12
3	Sn 189.927†	2944.8	2998.5	487.74 ug/L	487.74 ppb	15:22:32
3	Ti 334.940†	314253.3	323567.8	496.67 ug/L	496.67 ppb	15:22:12
3	Tl 190.801†	1633.7	1716.5	493.96 ug/L	493.96 ppb	15:22:32
3	U 409.014†	9749.5	14310.7	462.75 ug/L	462.75 ppb	15:22:12
3	V 292.402†	66513.9	69834.5	491.24 ug/L	491.24 ppb	15:22:12
3	Zn 213.857†	56246.0	56864.7	482.18 ug/L	482.18 ppb	15:22:12
3	SiO2†	81058.3	82491.3	5251.6 ug/L	5251.6 ppb	15:22:48

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843824.0	97.579 %	0.7065			0.72%
Sc Radial	3703.7	93.5 %	1.02			1.09%
Y 371.029	655796.7	96.145 %	0.6998			0.73%
Y RADIAL	4103.2	90.41 %	1.337			1.48%
Ag 328.068†	107486.1	491.14 ug/L	1.573	491.14 ppb	1.573	0.32%
QC value within limits for Ag 328.068 Recovery = 98.23%						
Al 396.153Radial†	5734.0	5127.4 ug/L	89.19	5127.4 ppb	89.19	1.74%
QC value within limits for Al 396.153Radial Recovery = 102.55%						
As 188.979†	1269.6	488.56 ug/L	1.415	488.56 ppb	1.415	0.29%
QC value within limits for As 188.979 Recovery = 97.71%						
B 249.677†	22559.9	477.12 ug/L	1.543	477.12 ppb	1.543	0.32%
QC value within limits for B 249.677 Recovery = 95.42%						
Ba 233.527†	64961.8	490.68 ug/L	1.692	490.68 ppb	1.692	0.34%
QC value within limits for Ba 233.527 Recovery = 98.14%						
Be 313.107†	1425880.5	487.31 ug/L	1.367	487.31 ppb	1.367	0.28%
QC value within limits for Be 313.107 Recovery = 97.46%						
Ca 317.933Radial†	2629.9	5214.2 ug/L	19.83	5214.2 ppb	19.83	0.38%

QC value within limits for Ca 317.933 Radial Recovery = 104.28%							
Cd 226.502†	46863.4	488.72 ug/L	0.883	488.72 ppb	0.883	0.18%	
QC value within limits for Cd 226.502 Recovery = 97.74%							
Co 228.616†	25989.3	483.25 ug/L	3.450	483.25 ppb	3.450	0.71%	
QC value within limits for Co 228.616 Recovery = 96.65%							
Cr 267.716†	45847.8	489.73 ug/L	0.813	489.73 ppb	0.813	0.17%	
QC value within limits for Cr 267.716 Recovery = 97.95%							
Cu 324.752†	169502.2	486.53 ug/L	1.673	486.53 ppb	1.673	0.34%	
QC value within limits for Cu 324.752 Recovery = 97.31%							
Fe 238.204 Radial†	435.7	5203.9 ug/L	16.73	5203.9 ppb	16.73	0.32%	
QC value within limits for Fe 238.204 Radial Recovery = 104.08%							
K 766.490 Radial†	29580.0	5150.8 ug/L	126.11	5150.8 ppb	126.11	2.45%	
QC value within limits for K 766.490 Radial Recovery = 103.02%							
Mg 279.077 IEC†	121.1	5268.1 ug/L	155.15	5268.1 ppb	155.15	2.95%	
QC value within limits for Mg 279.077 IEC Recovery = 105.36%							
Mn 257.610†	477968.6	489.63 ug/L	1.370	489.63 ppb	1.370	0.28%	
QC value within limits for Mn 257.610 Recovery = 97.93%							
Mo 202.031†	7211.9	491.83 ug/L	3.072	491.83 ppb	3.072	0.62%	
QC value within limits for Mo 202.031 Recovery = 98.37%							
Na 589.592 Radial†	34633.2	9930.5 ug/L	205.32	9930.5 ppb	205.32	2.07%	
QC value within limits for Na 589.592 Radial Recovery = 99.31%							
Ni 231.604†	21307.8	483.85 ug/L	3.229	483.85 ppb	3.229	0.67%	
QC value within limits for Ni 231.604 Recovery = 96.77%							
P 214.914†	4752.7	2321.2 ug/L	13.60	2321.2 ppb	13.60	0.59%	
QC value within limits for P 214.914 Recovery = 92.85%							
Pb 220.353†	4469.3	490.59 ug/L	1.332	490.59 ppb	1.332	0.27%	
QC value within limits for Pb 220.353 Recovery = 98.12%							
S 181.975 Axial†	792.4	957.89 ug/L	3.024	957.89 ppb	3.024	0.32%	
QC value within limits for S 181.975 Axial Recovery = 95.79%							
Sb 206.836†	1577.9	503.36 ug/L	2.590	503.36 ppb	2.590	0.51%	
QC value within limits for Sb 206.836 Recovery = 100.67%							
Se 196.026†	897.4	503.67 ug/L	5.401	503.67 ppb	5.401	1.07%	
QC value within limits for Se 196.026 Recovery = 100.73%							
Si 251.611†	83021.9	2464.1 ug/L	8.68	2464.1 ppb	8.68	0.35%	
QC value within limits for Si 251.611 Recovery = 98.57%							
Sn 189.927†	3008.1	489.29 ug/L	3.664	489.29 ppb	3.664	0.75%	
QC value within limits for Sn 189.927 Recovery = 97.86%							
Sr 421.552†	72519.0	489.86 ug/L	11.394	489.86 ppb	11.394	2.33%	
QC value within limits for Sr 421.552 Recovery = 97.97%							
Ti 334.940†	324538.5	498.17 ug/L	1.337	498.17 ppb	1.337	0.27%	
QC value within limits for Ti 334.940 Recovery = 99.63%							
Tl 190.801†	1716.5	493.96 ug/L	5.865	493.96 ppb	5.865	1.19%	
QC value within limits for Tl 190.801 Recovery = 98.79%							
U 409.014†	14358.6	464.30 ug/L	1.411	464.30 ppb	1.411	0.30%	
QC value within limits for U 409.014 Recovery = 92.86%							
V 292.402†	69973.2	492.20 ug/L	0.930	492.20 ppb	0.930	0.19%	
QC value within limits for V 292.402 Recovery = 98.44%							
Zn 213.857†	57082.4	484.04 ug/L	1.629	484.04 ppb	1.629	0.34%	
QC value within limits for Zn 213.857 Recovery = 96.81%							
SiO2†	81966.0	5218.0 ug/L	68.91	5218.0 ppb	68.91	1.32%	
QC value within limits for SiO2 Recovery = 97.58%							
All analyte(s) passed QC.							

Sequence No.: 15

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 15:24:59

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	3688.3	3688.3	93.1 %		15:27:11
1	Y RADIAL	4131.5	4131.5	91.03 %		15:26:51
1	Al 396.153Radial†	-189.5	-7.6	-6.8599 ug/L	-6.8599 ppb	15:26:51
1	Ca 317.933Radial†	17.2	2.2	4.3716 ug/L	4.3716 ppb	15:27:11
1	Fe 238.204 Radial†	12.1	1.2	14.575 ug/L	14.575 ppb	15:27:11
1	K 766.490 Radial†	3212.9	418.9	73.033 ug/L	73.033 ppb	15:26:51
1	Mg 279.077 IEC†	1.9	-1.3	-56.688 ug/L	-56.688 ppb	15:27:11
1	Na 589.592 Radial†	-1431.9	47.7	13.687 ug/L	13.687 ppb	15:26:51
1	Sr 421.552†	32.8	34.8	0.2353 ug/L	0.2353 ppb	15:26:51
1	Sc 361.383	844138.3	844138.3	97.615 %		15:28:08
1	Y 371.029	665581.2	665581.2	97.579 %		15:28:08
1	Ag 328.068†	416.4	-8.5	-0.0307 ug/L	-0.0307 ppb	15:28:08
1	As 188.979†	-28.0	6.8	2.6006 ug/L	2.6006 ppb	15:28:28
1	B 249.677†	-527.3	66.7	1.4150 ug/L	1.4150 ppb	15:28:08
1	Ba 233.527†	-6.1	11.8	0.0876 ug/L	0.0876 ppb	15:28:28
1	Be 313.107†	-3891.3	-42.3	-0.0145 ug/L	-0.0145 ppb	15:28:08
1	Cd 226.502†	-205.5	-10.9	-0.1167 ug/L	-0.1167 ppb	15:28:28
1	Co 228.616†	-100.1	-16.2	-0.2995 ug/L	-0.2995 ppb	15:28:28
1	Cr 267.716†	91.1	4.3	0.0479 ug/L	0.0479 ppb	15:28:08
1	Cu 324.752†	6803.5	121.4	0.3531 ug/L	0.3531 ppb	15:28:08
1	Mn 257.610†	522.1	42.4	0.0472 ug/L	0.0472 ppb	15:28:28
1	Mo 202.031†	10.9	8.3	0.5674 ug/L	0.5674 ppb	15:28:28
1	Ni 231.604†	95.2	14.3	0.3247 ug/L	0.3247 ppb	15:28:28
1	P 214.914†	223.7	-5.3	-2.7568 ug/L	-2.7568 ppb	15:28:28
1	Pb 220.353†	-77.5	-8.2	-0.8994 ug/L	-0.8994 ppb	15:28:28
1	S 181.975 Axial†	50.4	-0.3	-0.3289 ug/L	-0.3289 ppb	15:28:28
1	Sb 206.836†	41.4	6.8	2.1159 ug/L	2.1159 ppb	15:28:28
1	Se 196.026†	-18.8	10.2	5.5775 ug/L	5.5775 ppb	15:28:28
1	Si 251.611†	648.2	174.5	5.1852 ug/L	5.1852 ppb	15:28:28
1	Sn 189.927†	16.2	-1.0	-0.1687 ug/L	-0.1687 ppb	15:28:28
1	Ti 334.940†	-1687.6	-34.2	-0.0442 ug/L	-0.0442 ppb	15:28:08
1	Tl 190.801†	-38.0	4.3	1.2222 ug/L	1.2222 ppb	15:28:28
1	U 409.014†	-4436.7	-220.3	-7.1516 ug/L	-7.1516 ppb	15:28:08
1	V 292.402†	-1761.9	-97.1	-0.6829 ug/L	-0.6829 ppb	15:28:08
1	Zn 213.857†	759.2	32.7	0.2754 ug/L	0.2754 ppb	15:28:28
1	SiO2†	703.0	187.7	11.965 ug/L	11.965 ppb	15:29:24
2	Sc Radial	3732.0	3732.0	94.2 %		15:27:36
2	Y RADIAL	4196.3	4196.3	92.46 %		15:27:16
2	Al 396.153Radial†	-189.5	-5.3	-4.7578 ug/L	-4.7578 ppb	15:27:16
2	Ca 317.933Radial†	18.3	3.1	6.2164 ug/L	6.2164 ppb	15:27:36
2	Fe 238.204 Radial†	12.5	1.4	16.886 ug/L	16.886 ppb	15:27:36
2	K 766.490 Radial†	3079.3	236.7	41.260 ug/L	41.260 ppb	15:27:16
2	Mg 279.077 IEC†	0.3	-3.0	-130.72 ug/L	-130.72 ppb	15:27:36
2	Na 589.592 Radial†	-1446.3	50.5	14.481 ug/L	14.481 ppb	15:27:16
2	Sr 421.552†	48.9	51.4	0.3474 ug/L	0.3474 ppb	15:27:16
2	Sc 361.383	837468.8	837468.8	96.844 %		15:28:34
2	Y 371.029	660181.4	660181.4	96.788 %		15:28:34
2	Ag 328.068†	430.9	9.8	0.0519 ug/L	0.0519 ppb	15:28:34
2	As 188.979†	-42.2	-8.1	-3.1019 ug/L	-3.1019 ppb	15:28:54
2	B 249.677†	-498.5	92.1	1.9542 ug/L	1.9542 ppb	15:28:34
2	Ba 233.527†	-7.9	9.9	0.0735 ug/L	0.0735 ppb	15:28:54
2	Be 313.107†	-3873.1	-55.3	-0.0194 ug/L	-0.0194 ppb	15:28:34
2	Cd 226.502†	-193.0	0.3	0.0009 ug/L	0.0009 ppb	15:28:54
2	Co 228.616†	-100.4	-17.3	-0.3198 ug/L	-0.3198 ppb	15:28:54
2	Cr 267.716†	65.6	-21.3	-0.2254 ug/L	-0.2254 ppb	15:28:34
2	Cu 324.752†	6846.5	221.3	0.6390 ug/L	0.6390 ppb	15:28:34
2	Mn 257.610†	527.2	51.9	0.0602 ug/L	0.0602 ppb	15:28:54
2	Mo 202.031†	7.2	4.6	0.3138 ug/L	0.3138 ppb	15:28:54
2	Ni 231.604†	93.8	13.7	0.3115 ug/L	0.3115 ppb	15:28:54

2	P 214.914†	249.6	23.2	11.680 ug/L	11.680 ppb	15:28:54
2	Pb 220.353†	-75.8	-7.1	-0.7757 ug/L	-0.7757 ppb	15:28:54
2	S 181.975 Axial†	54.7	4.6	5.5404 ug/L	5.5404 ppb	15:28:54
2	Sb 206.836†	50.7	16.8	5.2016 ug/L	5.2016 ppb	15:28:54
2	Se 196.026†	-31.0	-2.5	-1.3264 ug/L	-1.3264 ppb	15:28:54
2	Si 251.611†	610.0	140.3	4.1716 ug/L	4.1716 ppb	15:28:54
2	Sn 189.927†	26.0	9.2	1.5022 ug/L	1.5022 ppb	15:28:54
2	Ti 334.940†	-1795.0	-158.9	-0.2300 ug/L	-0.2300 ppb	15:28:34
2	Tl 190.801†	-42.4	-0.5	-0.1513 ug/L	-0.1513 ppb	15:28:54
2	U 409.014†	-4346.2	-163.1	-5.2933 ug/L	-5.2933 ppb	15:28:34
2	V 292.402†	-1747.1	-96.2	-0.6784 ug/L	-0.6784 ppb	15:28:34
2	Zn 213.857†	771.0	51.0	0.4318 ug/L	0.4318 ppb	15:28:54
2	SiO2†	634.0	122.3	7.7956 ug/L	7.7956 ppb	15:29:29
3	Sc Radial	3734.3	3734.3	94.3 %		15:28:02
3	Y RADIAL	4224.7	4224.7	93.09 %		15:27:41
3	Al 396.153Radial†	-173.3	12.1	10.839 ug/L	10.839 ppb	15:27:41
3	Ca 317.933Radial†	22.5	7.6	15.106 ug/L	15.106 ppb	15:28:02
3	Fe 238.204 Radial†	11.0	-0.2	-1.9993 ug/L	-1.9993 ppb	15:28:02
3	K 766.490 Radial†	3095.7	252.0	43.936 ug/L	43.936 ppb	15:27:41
3	Mg 279.077 IEC†	-1.1	-4.4	-192.56 ug/L	-192.56 ppb	15:28:02
3	Na 589.592 Radial†	-1475.0	20.9	6.0047 ug/L	6.0047 ppb	15:27:41
3	Sr 421.552†	-1.0	-1.5	-0.0100 ug/L	-0.0100 ppb	15:27:41
3	Sc 361.383	833148.1	833148.1	96.344 %		15:28:59
3	Y 371.029	656553.7	656553.7	96.256 %		15:28:59
3	Ag 328.068†	522.9	107.6	0.4868 ug/L	0.4868 ppb	15:28:59
3	As 188.979†	-25.9	8.6	3.2600 ug/L	3.2600 ppb	15:29:19
3	B 249.677†	-539.5	46.8	0.9952 ug/L	0.9952 ppb	15:28:59
3	Ba 233.527†	-9.5	8.2	0.0591 ug/L	0.0591 ppb	15:29:19
3	Be 313.107†	-3882.0	-85.2	-0.0293 ug/L	-0.0293 ppb	15:28:59
3	Cd 226.502†	-195.6	-3.4	-0.0364 ug/L	-0.0364 ppb	15:29:19
3	Co 228.616†	-85.7	-2.5	-0.0459 ug/L	-0.0459 ppb	15:29:19
3	Cr 267.716†	83.3	-2.6	-0.0271 ug/L	-0.0271 ppb	15:28:59
3	Cu 324.752†	6765.2	173.6	0.5011 ug/L	0.5011 ppb	15:28:59
3	Mn 257.610†	535.7	63.6	0.0728 ug/L	0.0728 ppb	15:29:19
3	Mo 202.031†	8.1	5.5	0.3779 ug/L	0.3779 ppb	15:29:19
3	Ni 231.604†	91.4	11.6	0.2645 ug/L	0.2645 ppb	15:29:19
3	P 214.914†	220.9	-5.2	-2.7316 ug/L	-2.7316 ppb	15:29:19
3	Pb 220.353†	-78.4	-10.2	-1.1155 ug/L	-1.1155 ppb	15:29:19
3	S 181.975 Axial†	47.9	-2.2	-2.6262 ug/L	-2.6262 ppb	15:29:19
3	Sb 206.836†	56.0	22.6	6.9372 ug/L	6.9372 ppb	15:29:19
3	Se 196.026†	-26.3	2.3	1.2201 ug/L	1.2201 ppb	15:29:19
3	Si 251.611†	613.0	146.7	4.3615 ug/L	4.3615 ppb	15:29:19
3	Sn 189.927†	10.5	-6.8	-1.0984 ug/L	-1.0984 ppb	15:29:19
3	Ti 334.940†	-1705.1	-75.2	-0.0954 ug/L	-0.0954 ppb	15:28:59
3	Tl 190.801†	-49.4	-8.1	-2.3045 ug/L	-2.3045 ppb	15:29:19
3	U 409.014†	-4320.4	-159.6	-5.1789 ug/L	-5.1789 ppb	15:28:59
3	V 292.402†	-1808.3	-169.1	-1.1819 ug/L	-1.1819 ppb	15:28:59
3	Zn 213.857†	766.9	50.9	0.4336 ug/L	0.4336 ppb	15:29:19
3	SiO2†	653.0	145.4	9.2691 ug/L	9.2691 ppb	15:29:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838251.7	96.934 %	0.6403			0.66%
Sc Radial	3718.2	93.9 %	0.66			0.70%
Y 371.029	660772.1	96.874 %	0.6660			0.69%
Y RADIAL	4184.2	92.19 %	1.052			1.14%
Ag 328.068†	36.3	0.1693 ug/L	0.27804	0.1693 ppb	0.27804	164.23%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.3	-0.2594 ug/L	9.66920	-0.2594 ppb	9.66920	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.4	0.9196 ug/L	3.49823	0.9196 ppb	3.49823	380.42%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	68.5	1.4548 ug/L	0.48075	1.4548 ppb	0.48075	33.05%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	9.9	0.0734 ug/L	0.01427	0.0734 ppb	0.01427	19.45%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-60.9	-0.0211 ug/L	0.00753	-0.0211 ppb	0.00753	35.73%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.3	8.5647 ug/L	5.73962	8.5647 ppb	5.73962	67.01%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-4.7	-0.0507 ug/L	0.06006	-0.0507 ppb	0.06006	118.35%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-12.0	-0.2217 ug/L	0.15260	-0.2217 ppb	0.15260	68.82%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-6.5	-0.0682 ug/L	0.14120	-0.0682 ppb	0.14120	206.98%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	172.1	0.4977 ug/L	0.14300	0.4977 ppb	0.14300	28.73%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.8	9.8205 ug/L	10.30121	9.8205 ppb	10.30121	104.90%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	302.6	52.743 ug/L	17.6229	52.743 ppb	17.6229	33.41%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-2.9	-126.66 ug/L	68.027	-126.66 ppb	68.027	53.71%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	52.6	0.0600 ug/L	0.01278	0.0600 ppb	0.01278	21.28%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.1	0.4197 ug/L	0.13187	0.4197 ppb	0.13187	31.42%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	39.7	11.391 ug/L	4.6816	11.391 ppb	4.6816	41.10%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	13.2	0.3003 ug/L	0.03164	0.3003 ppb	0.03164	10.54%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	4.3	2.0637 ug/L	8.32756	2.0637 ppb	8.32756	403.52%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-8.5	-0.9302 ug/L	0.17195	-0.9302 ppb	0.17195	18.49%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.7	0.8618 ug/L	4.21150	0.8618 ppb	4.21150	488.70%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	15.4	4.7516 ug/L	2.44192	4.7516 ppb	2.44192	51.39%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.3	1.8237 ug/L	3.49130	1.8237 ppb	3.49130	191.44%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	153.9	4.5727 ug/L	0.53884	4.5727 ppb	0.53884	11.78%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	0.5	0.0784 ug/L	1.31782	0.0784 ppb	1.31782	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	28.3	0.1909 ug/L	0.18281	0.1909 ppb	0.18281	95.76%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-89.4	-0.1232 ug/L	0.09599	-0.1232 ppb	0.09599	77.91%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-1.4	-0.4112 ug/L	1.77766	-0.4112 ppb	1.77766	432.30%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-181.0	-5.8746 ug/L	1.10741	-5.8746 ppb	1.10741	18.85%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-120.8	-0.8477 ug/L	0.28939	-0.8477 ppb	0.28939	34.14%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	44.9	0.3803 ug/L	0.09079	0.3803 ppb	0.09079	23.88%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	151.8	9.6764 ug/L	2.11411	9.6764 ppb	2.11411	21.85%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

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Analysis Begun

Start Time: 2/3/2010 15:55:56

Plasma On Time: 2/1/2010 05:43:14

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\020310.sif

Batch ID:

Results Data Set: 020310

Results Library: C:\pe\Optima3\Results\Results.mdb
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Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/3/2010 15:55:57

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	3606.2	3606.2	91.1 %		15:58:09
1	Y RADIAL	3980.8	3980.8	87.71 %		15:57:49
1	Al 396.153Radial†	5028.1	5717.2	5112.3 ug/L	5112.3 ppb	15:57:49
1	Ca 317.933Radial†	2453.3	2677.7	5308.8 ug/L	5308.8 ppb	15:58:09
1	Fe 238.204 Radial†	412.8	441.5	5272.9 ug/L	5272.9 ppb	15:58:09
1	K 766.490 Radial†	29596.7	29469.2	5131.4 ug/L	5131.4 ppb	15:57:49
1	Mg 279.077 IEC†	116.4	124.5	5418.3 ug/L	5418.3 ppb	15:58:09
1	Na 589.592 Radial†	30151.8	34694.5	9948.1 ug/L	9948.1 ppb	15:57:49
1	Sr 421.552†	66068.2	72548.4	490.06 ug/L	490.06 ppb	15:57:49
1	Sc 361.383	830397.5	830397.5	96.026 %		15:59:06
1	Y 371.029	644498.3	644498.3	94.488 %		15:59:06
1	Ag 328.068†	106088.9	110044.0	502.79 ug/L	502.79 ppb	15:59:12
1	As 188.979†	1181.0	1265.3	486.93 ug/L	486.93 ppb	15:59:32
1	B 249.677†	21615.6	23116.9	488.89 ug/L	488.89 ppb	15:59:12
1	Ba 233.527†	63545.7	66193.4	499.99 ug/L	499.99 ppb	15:59:12
1	Be 313.107†	1385192.5	1446459.0	494.32 ug/L	494.32 ppb	15:59:06
1	Cd 226.502†	45684.1	47774.3	498.23 ug/L	498.23 ppb	15:59:12
1	Co 228.616†	25772.4	26925.3	500.65 ug/L	500.65 ppb	15:59:12
1	Cr 267.716†	44967.9	46739.7	499.25 ug/L	499.25 ppb	15:59:12
1	Cu 324.752†	171940.4	172207.4	494.29 ug/L	494.29 ppb	15:59:12
1	Mn 257.610†	468082.9	486960.8	498.84 ug/L	498.84 ppb	15:59:06
1	Mo 202.031†	6912.5	7195.7	490.73 ug/L	490.73 ppb	15:59:32
1	Ni 231.604†	21269.7	22066.7	501.09 ug/L	501.09 ppb	15:59:12
1	P 214.914†	4789.8	4753.6	2320.1 ug/L	2320.1 ppb	15:59:32
1	Pb 220.353†	4177.3	4421.3	485.32 ug/L	485.32 ppb	15:59:32
1	S 181.975 Axial†	839.6	822.4	994.15 ug/L	994.15 ppb	15:59:32
1	Sb 206.836†	1549.9	1578.5	503.63 ug/L	503.63 ppb	15:59:32
1	Se 196.026†	843.6	908.0	509.64 ug/L	509.64 ppb	15:59:32
1	Si 251.611†	81562.9	84448.6	2506.6 ug/L	2506.6 ppb	15:59:12
1	Sn 189.927†	2929.3	3032.8	493.33 ug/L	493.33 ppb	15:59:32
1	Ti 334.940†	309498.9	324001.2	497.33 ug/L	497.33 ppb	15:59:12
1	Tl 190.801†	1613.8	1723.8	495.99 ug/L	495.99 ppb	15:59:32
1	U 409.014†	10431.1	15187.5	491.17 ug/L	491.17 ppb	15:59:12
1	V 292.402†	66985.3	71465.1	502.58 ug/L	502.58 ppb	15:59:12
1	Zn 213.857†	56690.9	58291.8	494.26 ug/L	494.26 ppb	15:59:12
1	SiO2†	80023.1	82802.2	5271.4 ug/L	5271.4 ppb	16:00:39
2	Sc Radial	3609.9	3609.9	91.2 %		15:58:34
2	Y RADIAL	3960.3	3960.3	87.26 %		15:58:14
2	Al 396.153Radial†	5196.4	5896.3	5272.9 ug/L	5272.9 ppb	15:58:14
2	Ca 317.933Radial†	2479.3	2703.5	5360.0 ug/L	5360.0 ppb	15:58:34
2	Fe 238.204 Radial†	415.8	444.3	5306.4 ug/L	5306.4 ppb	15:58:34
2	K 766.490 Radial†	30181.1	30077.8	5237.4 ug/L	5237.4 ppb	15:58:14
2	Mg 279.077 IEC†	114.3	122.1	5314.3 ug/L	5314.3 ppb	15:58:34
2	Na 589.592 Radial†	30744.0	35311.1	10125 ug/L	10125 ppb	15:58:14
2	Sr 421.552†	67972.7	74565.3	503.69 ug/L	503.69 ppb	15:58:14
2	Sc 361.383	828377.6	828377.6	95.793 %		15:59:37
2	Y 371.029	643271.6	643271.6	94.309 %		15:59:37

2	Ag 328.068†	104838.2	109007.8	498.09 ug/L	498.09 ppb	15:59:43
2	As 188.979†	1203.5	1291.8	497.00 ug/L	497.00 ppb	16:00:03
2	B 249.677†	21362.9	22908.0	484.46 ug/L	484.46 ppb	15:59:43
2	Ba 233.527†	62832.5	65610.2	495.59 ug/L	495.59 ppb	15:59:43
2	Be 313.107†	1375025.9	1439363.3	491.89 ug/L	491.89 ppb	15:59:37
2	Cd 226.502†	45064.1	47243.0	492.68 ug/L	492.68 ppb	15:59:43
2	Co 228.616†	25444.7	26648.6	495.52 ug/L	495.52 ppb	15:59:43
2	Cr 267.716†	44549.8	46417.5	495.81 ug/L	495.81 ppb	15:59:43
2	Cu 324.752†	169610.7	170212.0	488.56 ug/L	488.56 ppb	15:59:43
2	Mn 257.610†	464315.7	484216.7	496.04 ug/L	496.04 ppb	15:59:37
2	Mo 202.031†	6981.8	7285.7	496.86 ug/L	496.86 ppb	16:00:03
2	Ni 231.604†	20967.1	21804.8	495.14 ug/L	495.14 ppb	15:59:43
2	P 214.914†	4840.9	4819.1	2354.6 ug/L	2354.6 ppb	16:00:03
2	Pb 220.353†	4224.3	4481.1	491.90 ug/L	491.90 ppb	16:00:03
2	S 181.975 Axial†	833.1	817.8	988.61 ug/L	988.61 ppb	16:00:03
2	Sb 206.836†	1564.1	1597.2	509.59 ug/L	509.59 ppb	16:00:03
2	Se 196.026†	842.5	909.0	510.30 ug/L	510.30 ppb	16:00:03
2	Si 251.611†	80487.1	83532.7	2479.3 ug/L	2479.3 ppb	15:59:43
2	Sn 189.927†	2950.5	3062.4	498.14 ug/L	498.14 ppb	16:00:03
2	Ti 334.940†	306093.8	321232.5	493.10 ug/L	493.10 ppb	15:59:43
2	Tl 190.801†	1614.6	1728.8	497.39 ug/L	497.39 ppb	16:00:03
2	U 409.014†	10296.1	15073.1	487.46 ug/L	487.46 ppb	15:59:43
2	V 292.402†	66371.6	70994.6	499.40 ug/L	499.40 ppb	15:59:43
2	Zn 213.857†	56009.0	57723.9	489.44 ug/L	489.44 ppb	15:59:43
2	SiO2†	81814.8	84875.8	5403.6 ug/L	5403.6 ppb	16:00:44
3	Sc Radial	3660.0	3660.0	92.4 %		15:58:59
3	Y RADIAL	3969.8	3969.8	87.47 %		15:58:39
3	Al 396.153Radial†	5212.8	5835.8	5218.8 ug/L	5218.8 ppb	15:58:39
3	Ca 317.933Radial†	2449.8	2634.3	5222.8 ug/L	5222.8 ppb	15:58:59
3	Fe 238.204 Radial†	415.2	437.4	5224.7 ug/L	5224.7 ppb	15:58:59
3	K 766.490 Radial†	30237.9	29685.3	5169.1 ug/L	5169.1 ppb	15:58:39
3	Mg 279.077 IEC†	115.5	121.7	5296.1 ug/L	5296.1 ppb	15:58:59
3	Na 589.592 Radial†	30954.7	35076.6	10058 ug/L	10058 ppb	15:58:39
3	Sr 421.552†	68303.5	73900.6	499.20 ug/L	499.20 ppb	15:58:39
3	Sc 361.383	832100.3	832100.3	96.223 %		16:00:08
3	Y 371.029	646912.9	646912.9	94.842 %		16:00:08
3	Ag 328.068†	105904.4	109626.2	500.87 ug/L	500.87 ppb	16:00:14
3	As 188.979†	1204.4	1287.1	495.23 ug/L	495.23 ppb	16:00:34
3	B 249.677†	21494.0	22944.5	485.24 ug/L	485.24 ppb	16:00:14
3	Ba 233.527†	63586.8	66100.7	499.29 ug/L	499.29 ppb	16:00:14
3	Be 313.107†	1380868.9	1439013.8	491.78 ug/L	491.78 ppb	16:00:08
3	Cd 226.502†	45486.8	47471.8	495.08 ug/L	495.08 ppb	16:00:14
3	Co 228.616†	25706.5	26801.9	498.36 ug/L	498.36 ppb	16:00:14
3	Cr 267.716†	44918.9	46593.0	497.68 ug/L	497.68 ppb	16:00:14
3	Cu 324.752†	172044.8	171949.5	493.54 ug/L	493.54 ppb	16:00:14
3	Mn 257.610†	465813.2	483604.5	495.40 ug/L	495.40 ppb	16:00:08
3	Mo 202.031†	6958.9	7229.2	493.01 ug/L	493.01 ppb	16:00:34
3	Ni 231.604†	21200.3	21949.3	498.42 ug/L	498.42 ppb	16:00:14
3	P 214.914†	4777.1	4730.1	2308.4 ug/L	2308.4 ppb	16:00:34
3	Pb 220.353†	4191.3	4427.0	485.97 ug/L	485.97 ppb	16:00:34
3	S 181.975 Axial†	823.5	803.9	971.78 ug/L	971.78 ppb	16:00:34
3	Sb 206.836†	1579.5	1605.9	512.11 ug/L	512.11 ppb	16:00:34
3	Se 196.026†	829.7	891.8	500.71 ug/L	500.71 ppb	16:00:34
3	Si 251.611†	81438.6	84145.6	2497.5 ug/L	2497.5 ppb	16:00:14
3	Sn 189.927†	2936.5	3034.2	493.53 ug/L	493.53 ppb	16:00:34
3	Ti 334.940†	309857.2	323714.1	496.89 ug/L	496.89 ppb	16:00:14
3	Tl 190.801†	1610.2	1716.6	493.94 ug/L	493.94 ppb	16:00:34
3	U 409.014†	10565.1	15304.6	494.98 ug/L	494.98 ppb	16:00:14
3	V 292.402†	67045.5	71385.0	502.07 ug/L	502.07 ppb	16:00:14
3	Zn 213.857†	56469.6	57941.0	491.28 ug/L	491.28 ppb	16:00:14
3	SiO2†	80994.4	83641.1	5324.9 ug/L	5324.9 ppb	16:00:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830291.8	96.014 %	0.2155			0.22%
Sc Radial	3625.4	91.6 %	0.76			0.83%
Y 371.029	644894.3	94.547 %	0.2716			0.29%
Y RADIAL	3970.3	87.48 %	0.226			0.26%
Ag 328.068†	109559.3	500.58 ug/L	2.365	500.58 ppb	2.365	0.47%

QC value within limits for Ag 328.068 Recovery = 100.12%							
Al 396.153Radial†	5816.4	5201.3 ug/L	81.71	5201.3 ppb	81.71	1.57%	
QC value within limits for Al 396.153Radial Recovery = 104.03%							
As 188.979†	1281.4	493.06 ug/L	5.375	493.06 ppb	5.375	1.09%	
QC value within limits for As 188.979 Recovery = 98.61%							
B 249.677†	22989.8	486.20 ug/L	2.364	486.20 ppb	2.364	0.49%	
QC value within limits for B 249.677 Recovery = 97.24%							
Ba 233.527†	65968.1	498.29 ug/L	2.364	498.29 ppb	2.364	0.47%	
QC value within limits for Ba 233.527 Recovery = 99.66%							
Be 313.107†	1441612.0	492.67 ug/L	1.435	492.67 ppb	1.435	0.29%	
QC value within limits for Be 313.107 Recovery = 98.53%							
Ca 317.933Radial†	2671.8	5297.2 ug/L	69.33	5297.2 ppb	69.33	1.31%	
QC value within limits for Ca 317.933Radial Recovery = 105.94%							
Cd 226.502†	47496.3	495.33 ug/L	2.783	495.33 ppb	2.783	0.56%	
QC value within limits for Cd 226.502 Recovery = 99.07%							
Co 228.616†	26791.9	498.18 ug/L	2.566	498.18 ppb	2.566	0.51%	
QC value within limits for Co 228.616 Recovery = 99.64%							
Cr 267.716†	46583.4	497.58 ug/L	1.723	497.58 ppb	1.723	0.35%	
QC value within limits for Cr 267.716 Recovery = 99.52%							
Cu 324.752†	171456.3	492.13 ug/L	3.112	492.13 ppb	3.112	0.63%	
QC value within limits for Cu 324.752 Recovery = 98.43%							
Fe 238.204 Radial†	441.1	5268.0 ug/L	41.08	5268.0 ppb	41.08	0.78%	
QC value within limits for Fe 238.204 Radial Recovery = 105.36%							
K 766.490 Radial†	29744.1	5179.3 ug/L	53.75	5179.3 ppb	53.75	1.04%	
QC value within limits for K 766.490 Radial Recovery = 103.59%							
Mg 279.077 IEC†	122.8	5342.9 ug/L	65.92	5342.9 ppb	65.92	1.23%	
QC value within limits for Mg 279.077 IEC Recovery = 106.86%							
Mn 257.610†	484927.3	496.76 ug/L	1.828	496.76 ppb	1.828	0.37%	
QC value within limits for Mn 257.610 Recovery = 99.35%							
Mo 202.031†	7236.9	493.53 ug/L	3.098	493.53 ppb	3.098	0.63%	
QC value within limits for Mo 202.031 Recovery = 98.71%							
Na 589.592 Radial†	35027.4	10044 ug/L	89.2	10044 ppb	89.2	0.89%	
QC value within limits for Na 589.592 Radial Recovery = 100.44%							
Ni 231.604†	21940.3	498.21 ug/L	2.979	498.21 ppb	2.979	0.60%	
QC value within limits for Ni 231.604 Recovery = 99.64%							
P 214.914†	4767.6	2327.7 ug/L	24.02	2327.7 ppb	24.02	1.03%	
QC value within limits for P 214.914 Recovery = 93.11%							
Pb 220.353†	4443.1	487.73 ug/L	3.628	487.73 ppb	3.628	0.74%	
QC value within limits for Pb 220.353 Recovery = 97.55%							
S 181.975 Axial†	814.7	984.85 ug/L	11.650	984.85 ppb	11.650	1.18%	
QC value within limits for S 181.975 Axial Recovery = 98.48%							
Sb 206.836†	1593.9	508.44 ug/L	4.355	508.44 ppb	4.355	0.86%	
QC value within limits for Sb 206.836 Recovery = 101.69%							
Se 196.026†	902.9	506.88 ug/L	5.361	506.88 ppb	5.361	1.06%	
QC value within limits for Se 196.026 Recovery = 101.38%							
Si 251.611†	84042.3	2494.5 ug/L	13.92	2494.5 ppb	13.92	0.56%	
QC value within limits for Si 251.611 Recovery = 99.78%							
Sn 189.927†	3043.1	495.00 ug/L	2.721	495.00 ppb	2.721	0.55%	
QC value within limits for Sn 189.927 Recovery = 99.00%							
Sr 421.552†	73671.5	497.65 ug/L	6.943	497.65 ppb	6.943	1.40%	
QC value within limits for Sr 421.552 Recovery = 99.53%							
Ti 334.940†	322982.6	495.77 ug/L	2.326	495.77 ppb	2.326	0.47%	
QC value within limits for Ti 334.940 Recovery = 99.15%							
Tl 190.801†	1723.1	495.77 ug/L	1.737	495.77 ppb	1.737	0.35%	
QC value within limits for Tl 190.801 Recovery = 99.15%							
U 409.014†	15188.4	491.20 ug/L	3.759	491.20 ppb	3.759	0.77%	
QC value within limits for U 409.014 Recovery = 98.24%							
V 292.402†	71281.6	501.35 ug/L	1.712	501.35 ppb	1.712	0.34%	
QC value within limits for V 292.402 Recovery = 100.27%							
Zn 213.857†	57985.6	491.66 ug/L	2.430	491.66 ppb	2.430	0.49%	
QC value within limits for Zn 213.857 Recovery = 98.33%							
SiO2†	83773.0	5333.3 ug/L	66.49	5333.3 ppb	66.49	1.25%	
QC value within limits for SiO2 Recovery = 99.73%							
All analyte(s) passed QC.							

Sequence No.: 2
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 2/3/2010 16:02:59
 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	3749.0	3749.0	94.7 %		16:05:12
1	Y RADIAL	4180.4	4180.4	92.11 %		16:04:52
1	Al 396.153Radial†	-188.8	-3.6	-3.2389 ug/L	-3.2389 ppb	16:04:52
1	Ca 317.933Radial†	21.4	6.3	12.482 ug/L	12.482 ppb	16:05:12
1	Fe 238.204 Radial†	10.4	-0.9	-10.373 ug/L	-10.373 ppb	16:05:12
1	K 766.490 Radial†	3123.3	268.4	46.780 ug/L	46.780 ppb	16:04:52
1	Mg 279.077 IEC†	3.8	0.7	30.364 ug/L	30.364 ppb	16:05:12
1	Na 589.592 Radial†	-1471.2	31.1	8.9171 ug/L	8.9171 ppb	16:04:52
1	Sr 421.552†	21.7	22.5	0.1521 ug/L	0.1521 ppb	16:04:52
1	Sc 361.383	833949.0	833949.0	96.437 %		16:06:09
1	Y 371.029	656032.2	656032.2	96.179 %		16:06:09
1	Ag 328.068†	512.8	96.6	0.4384 ug/L	0.4384 ppb	16:06:09
1	As 188.979†	-26.4	8.1	3.0685 ug/L	3.0685 ppb	16:06:29
1	B 249.677†	-449.9	140.3	2.9841 ug/L	2.9841 ppb	16:06:09
1	Ba 233.527†	-24.4	-7.3	-0.0568 ug/L	-0.0568 ppb	16:06:29
1	Be 313.107†	-3880.5	-79.8	-0.0275 ug/L	-0.0275 ppb	16:06:09
1	Cd 226.502†	-206.9	-14.9	-0.1558 ug/L	-0.1558 ppb	16:06:29
1	Co 228.616†	-103.8	-21.3	-0.3929 ug/L	-0.3929 ppb	16:06:29
1	Cr 267.716†	70.8	-15.6	-0.1645 ug/L	-0.1645 ppb	16:06:09
1	Cu 324.752†	6816.1	219.6	0.6341 ug/L	0.6341 ppb	16:06:09
1	Mn 257.610†	537.8	65.2	0.0645 ug/L	0.0645 ppb	16:06:29
1	Mo 202.031†	13.7	11.3	0.7716 ug/L	0.7716 ppb	16:06:29
1	Ni 231.604†	90.8	10.9	0.2480 ug/L	0.2480 ppb	16:06:29
1	P 214.914†	236.4	10.7	5.3214 ug/L	5.3214 ppb	16:06:29
1	Pb 220.353†	-74.9	-6.5	-0.7042 ug/L	-0.7042 ppb	16:06:29
1	S 181.975 Axial†	53.0	3.0	3.6319 ug/L	3.6319 ppb	16:06:29
1	Sb 206.836†	51.9	18.3	5.6293 ug/L	5.6293 ppb	16:06:29
1	Se 196.026†	-31.4	-3.1	-1.6901 ug/L	-1.6901 ppb	16:06:29
1	Si 251.611†	550.5	81.3	2.4085 ug/L	2.4085 ppb	16:06:29
1	Sn 189.927†	11.1	-6.2	-0.9973 ug/L	-0.9973 ppb	16:06:29
1	Ti 334.940†	-1713.2	-81.9	-0.1232 ug/L	-0.1232 ppb	16:06:09
1	Tl 190.801†	-41.6	0.1	0.0388 ug/L	0.0388 ppb	16:06:29
1	U 409.014†	-4396.7	-234.4	-7.6046 ug/L	-7.6046 ppb	16:06:09
1	V 292.402†	-1741.3	-97.8	-0.6800 ug/L	-0.6800 ppb	16:06:09
1	Zn 213.857†	762.4	45.5	0.3880 ug/L	0.3880 ppb	16:06:29
1	SiO2†	562.9	51.3	3.2517 ug/L	3.2517 ppb	16:07:25
2	Sc Radial	3707.2	3707.2	93.6 %		16:05:37
2	Y RADIAL	4165.7	4165.7	91.79 %		16:05:17
2	Al 396.153Radial†	-180.6	2.9	2.5972 ug/L	2.5972 ppb	16:05:17
2	Ca 317.933Radial†	22.1	7.3	14.505 ug/L	14.505 ppb	16:05:37
2	Fe 238.204 Radial†	11.3	0.2	2.9247 ug/L	2.9247 ppb	16:05:37
2	K 766.490 Radial†	3086.9	266.7	46.489 ug/L	46.489 ppb	16:05:17
2	Mg 279.077 IEC†	2.0	-1.1	-49.038 ug/L	-49.038 ppb	16:05:37
2	Na 589.592 Radial†	-1498.8	-15.9	-4.5455 ug/L	-4.5455 ppb	16:05:17
2	Sr 421.552†	-1.2	-1.7	-0.0116 ug/L	-0.0116 ppb	16:05:17
2	Sc 361.383	831066.5	831066.5	96.104 %		16:06:35
2	Y 371.029	655016.9	655016.9	96.031 %		16:06:35
2	Ag 328.068†	339.2	-82.2	-0.3723 ug/L	-0.3723 ppb	16:06:35
2	As 188.979†	-32.4	1.7	0.6458 ug/L	0.6458 ppb	16:06:55
2	B 249.677†	-503.8	82.5	1.7539 ug/L	1.7539 ppb	16:06:35
2	Ba 233.527†	4.4	22.6	0.1699 ug/L	0.1699 ppb	16:06:55
2	Be 313.107†	-3785.5	5.1	0.0014 ug/L	0.0014 ppb	16:06:35
2	Cd 226.502†	-215.2	-24.3	-0.2543 ug/L	-0.2543 ppb	16:06:55
2	Co 228.616†	-91.0	-8.3	-0.1508 ug/L	-0.1508 ppb	16:06:55
2	Cr 267.716†	95.0	9.8	0.1043 ug/L	0.1043 ppb	16:06:35
2	Cu 324.752†	6693.6	116.7	0.3359 ug/L	0.3359 ppb	16:06:35
2	Mn 257.610†	516.2	44.6	0.0480 ug/L	0.0480 ppb	16:06:55
2	Mo 202.031†	16.8	14.7	1.0015 ug/L	1.0015 ppb	16:06:55
2	Ni 231.604†	74.4	-5.8	-0.1317 ug/L	-0.1317 ppb	16:06:55

2	P 214.914†	242.7	18.0	9.0980 ug/L	9.0980 ppb	16:06:55
2	Pb 220.353†	-80.1	-12.2	-1.3266 ug/L	-1.3266 ppb	16:06:55
2	S 181.975 Axial†	55.8	6.2	7.4490 ug/L	7.4490 ppb	16:06:55
2	Sb 206.836†	49.3	15.7	4.8563 ug/L	4.8563 ppb	16:06:55
2	Se 196.026†	-36.5	-8.5	-4.5938 ug/L	-4.5938 ppb	16:06:55
2	Si 251.611†	550.5	83.2	2.4639 ug/L	2.4639 ppb	16:06:55
2	Sn 189.927†	12.5	-4.6	-0.7441 ug/L	-0.7441 ppb	16:06:55
2	Ti 334.940†	-1722.3	-97.5	-0.1431 ug/L	-0.1431 ppb	16:06:35
2	Tl 190.801†	-36.2	5.5	1.5852 ug/L	1.5852 ppb	16:06:55
2	U 409.014†	-4203.1	-48.7	-1.5817 ug/L	-1.5817 ppb	16:06:35
2	V 292.402†	-1679.7	-40.0	-0.2679 ug/L	-0.2679 ppb	16:06:35
2	Zn 213.857†	761.1	46.9	0.4015 ug/L	0.4015 ppb	16:06:55
2	SiO2†	601.1	93.0	5.9082 ug/L	5.9082 ppb	16:07:31
3	Sc Radial	3719.8	3719.8	93.9 %		16:06:03
3	Y RADIAL	4207.1	4207.1	92.70 %		16:05:42
3	Al 396.153Radial†	-170.6	14.2	12.686 ug/L	12.686 ppb	16:05:42
3	Ca 317.933Radial†	15.2	-0.1	-0.1775 ug/L	-0.1775 ppb	16:06:03
3	Fe 238.204 Radial†	14.1	3.1	37.465 ug/L	37.465 ppb	16:06:03
3	K 766.490 Radial†	3027.5	192.3	33.516 ug/L	33.516 ppb	16:05:42
3	Mg 279.077 IEC†	0.6	-2.7	-117.36 ug/L	-117.36 ppb	16:06:03
3	Na 589.592 Radial†	-1452.4	39.0	11.172 ug/L	11.172 ppb	16:05:42
3	Sr 421.552†	43.1	45.5	0.3073 ug/L	0.3073 ppb	16:05:42
3	Sc 361.383	831647.9	831647.9	96.171 %		16:07:00
3	Y 371.029	656254.0	656254.0	96.212 %		16:07:00
3	Ag 328.068†	470.2	53.8	0.2535 ug/L	0.2535 ppb	16:07:00
3	As 188.979†	-22.7	11.9	4.5435 ug/L	4.5435 ppb	16:07:20
3	B 249.677†	-536.9	48.6	1.0254 ug/L	1.0254 ppb	16:07:00
3	Ba 233.527†	-9.8	7.8	0.0587 ug/L	0.0587 ppb	16:07:20
3	Be 313.107†	-3824.8	-33.0	-0.0120 ug/L	-0.0120 ppb	16:07:00
3	Cd 226.502†	-201.0	-9.4	-0.1020 ug/L	-0.1020 ppb	16:07:20
3	Co 228.616†	-79.8	3.4	0.0663 ug/L	0.0663 ppb	16:07:20
3	Cr 267.716†	82.7	-3.1	-0.0334 ug/L	-0.0334 ppb	16:07:00
3	Cu 324.752†	6810.7	233.6	0.6720 ug/L	0.6720 ppb	16:07:00
3	Mn 257.610†	505.3	33.0	0.0423 ug/L	0.0423 ppb	16:07:20
3	Mo 202.031†	14.8	12.6	0.8614 ug/L	0.8614 ppb	16:07:20
3	Ni 231.604†	79.5	-0.5	-0.0116 ug/L	-0.0116 ppb	16:07:20
3	P 214.914†	244.5	19.7	9.8667 ug/L	9.8667 ppb	16:07:20
3	Pb 220.353†	-75.7	-7.5	-0.8203 ug/L	-0.8203 ppb	16:07:20
3	S 181.975 Axial†	50.2	0.2	0.2968 ug/L	0.2968 ppb	16:07:20
3	Sb 206.836†	40.1	6.1	1.8957 ug/L	1.8957 ppb	16:07:20
3	Se 196.026†	-26.7	1.8	1.0785 ug/L	1.0785 ppb	16:07:20
3	Si 251.611†	556.6	89.2	2.6430 ug/L	2.6430 ppb	16:07:20
3	Sn 189.927†	13.5	-3.6	-0.5851 ug/L	-0.5851 ppb	16:07:20
3	Ti 334.940†	-1827.1	-205.3	-0.3061 ug/L	-0.3061 ppb	16:07:00
3	Tl 190.801†	-37.6	4.1	1.1638 ug/L	1.1638 ppb	16:07:20
3	U 409.014†	-4129.2	31.1	1.0066 ug/L	1.0066 ppb	16:07:00
3	V 292.402†	-1729.8	-90.9	-0.6241 ug/L	-0.6241 ppb	16:07:00
3	Zn 213.857†	748.8	33.6	0.2827 ug/L	0.2827 ppb	16:07:20
3	SiO2†	580.7	71.4	4.5317 ug/L	4.5317 ppb	16:07:36

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	832221.1	96.237 %	0.1763			0.18%
Sc Radial	3725.3	94.1 %	0.54			0.58%
Y 371.029	655767.7	96.141 %	0.0967			0.10%
Y RADIAL	4184.4	92.20 %	0.462			0.50%
Ag 328.068†	22.7	0.1065 ug/L	0.42484	0.1065 ppb	0.42484	398.76%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.5	4.0148 ug/L	8.05658	4.0148 ppb	8.05658	200.67%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.2	2.7526 ug/L	1.96794	2.7526 ppb	1.96794	71.49%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	90.5	1.9211 ug/L	0.98999	1.9211 ppb	0.98999	51.53%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.7	0.0573 ug/L	0.11336	0.0573 ppb	0.11336	197.89%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-35.9	-0.0127 ug/L	0.01446	-0.0127 ppb	0.01446	113.95%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.5	8.9366 ug/L	7.95759	8.9366 ppb	7.95759	89.05%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	-16.2	-0.1707 ug/L	0.07723	-0.1707 ppb	0.07723	45.24%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	-8.7	-0.1591 ug/L	0.22972	-0.1591 ppb	0.22972	144.36%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-3.0	-0.0312 ug/L	0.13442	-0.0312 ppb	0.13442	431.04%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	190.0	0.5473 ug/L	0.18407	0.5473 ppb	0.18407	33.63%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	0.8	10.006 ug/L	24.6923	10.006 ppb	24.6923	246.78%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	242.4	42.262 ug/L	7.5751	42.262 ppb	7.5751	17.92%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-1.0	-45.346 ug/L	73.9330	-45.346 ppb	73.9330	163.04%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	47.6	0.0516 ug/L	0.01152	0.0516 ppb	0.01152	22.33%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	12.9	0.8782 ug/L	0.11591	0.8782 ppb	0.11591	13.20%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	18.1	5.1812 ug/L	8.49862	5.1812 ppb	8.49862	164.03%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	1.5	0.0349 ug/L	0.19408	0.0349 ppb	0.19408	555.62%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	16.2	8.0954 ug/L	2.43290	8.0954 ppb	2.43290	30.05%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-8.7	-0.9504 ug/L	0.33096	-0.9504 ppb	0.33096	34.82%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	3.1	3.7925 ug/L	3.57881	3.7925 ppb	3.57881	94.36%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	13.4	4.1271 ug/L	1.97070	4.1271 ppb	1.97070	47.75%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-3.3	-1.7352 ug/L	2.83643	-1.7352 ppb	2.83643	163.47%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	84.6	2.5051 ug/L	0.12257	2.5051 ppb	0.12257	4.89%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-4.8	-0.7755 ug/L	0.20788	-0.7755 ppb	0.20788	26.81%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	22.1	0.1493 ug/L	0.15950	0.1493 ppb	0.15950	106.85%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-128.2	-0.1908 ug/L	0.10034	-0.1908 ppb	0.10034	52.59%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	3.3	0.9293 ug/L	0.79942	0.9293 ppb	0.79942	86.03%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-84.0	-2.7266 ug/L	4.41826	-2.7266 ppb	4.41826	162.05%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-76.2	-0.5240 ug/L	0.22353	-0.5240 ppb	0.22353	42.66%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	42.0	0.3574 ug/L	0.06503	0.3574 ppb	0.06503	18.20%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		71.9	4.5639 ug/L	1.32851	4.5639 ppb	1.32851	29.11%
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: 2/3/2010 17:11:46

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	3648.9	3648.9	92.1 %		17:13:58
1	Y RADIAL	4073.4	4073.4	89.75 %		17:13:38
1	Al 396.153Radial†	5119.7	5752.1	5143.7 ug/L	5143.7 ppb	17:13:38
1	Ca 317.933Radial†	2404.8	2593.6	5142.1 ug/L	5142.1 ppb	17:13:58
1	Fe 238.204 Radial†	398.2	420.4	5021.2 ug/L	5021.2 ppb	17:13:58
1	K 766.490 Radial†	29814.4	29325.8	5106.7 ug/L	5106.7 ppb	17:13:38
1	Mg 279.077 IEC†	111.3	117.5	5114.8 ug/L	5114.8 ppb	17:13:58
1	Na 589.592 Radial†	28996.9	33054.5	9477.8 ug/L	9477.8 ppb	17:13:38
1	Sr 421.552†	65851.6	71465.9	482.75 ug/L	482.75 ppb	17:13:38
1	Sc 361.383	841290.2	841290.2	97.286 %		17:14:57
1	Y 371.029	653188.8	653188.8	95.763 %		17:14:57
1	Ag 328.068†	104262.0	106735.6	487.66 ug/L	487.66 ppb	17:14:57
1	As 188.979†	1184.4	1252.9	482.11 ug/L	482.11 ppb	17:15:17
1	B 249.677†	21148.5	22345.3	472.59 ug/L	472.59 ppb	17:14:57
1	Ba 233.527†	62484.7	64246.0	485.28 ug/L	485.28 ppb	17:14:57
1	Be 313.107†	1367504.2	1409600.1	481.75 ug/L	481.75 ppb	17:14:57
1	Cd 226.502†	44764.4	46212.9	481.95 ug/L	481.95 ppb	17:14:57
1	Co 228.616†	25083.3	25869.5	481.02 ug/L	481.02 ppb	17:15:17
1	Cr 267.716†	44205.0	45349.2	484.41 ug/L	484.41 ppb	17:14:57
1	Cu 324.752†	170082.4	167979.3	482.16 ug/L	482.16 ppb	17:14:57
1	Mn 257.610†	460564.5	472921.3	484.45 ug/L	484.45 ppb	17:14:57
1	Mo 202.031†	6968.5	7160.1	488.28 ug/L	488.28 ppb	17:15:17
1	Ni 231.604†	20724.8	21219.8	481.85 ug/L	481.85 ppb	17:15:17
1	P 214.914†	4830.6	4730.9	2311.1 ug/L	2311.1 ppb	17:15:17
1	Pb 220.353†	4263.6	4453.7	488.89 ug/L	488.89 ppb	17:15:17
1	S 181.975 Axial†	828.1	799.3	966.19 ug/L	966.19 ppb	17:15:17
1	Sb 206.836†	1576.9	1585.4	505.52 ug/L	505.52 ppb	17:15:17
1	Se 196.026†	837.3	890.1	499.17 ug/L	499.17 ppb	17:15:17
1	Si 251.611†	80234.2	81983.1	2433.3 ug/L	2433.3 ppb	17:14:57
1	Sn 189.927†	2920.1	2983.9	485.36 ug/L	485.36 ppb	17:15:17
1	Ti 334.940†	311046.4	321418.9	493.39 ug/L	493.39 ppb	17:14:57
1	Tl 190.801†	1620.9	1709.3	491.87 ug/L	491.87 ppb	17:15:17
1	U 409.014†	9518.1	14108.5	456.21 ug/L	456.21 ppb	17:14:57
1	V 292.402†	65804.1	69347.8	487.82 ug/L	487.82 ppb	17:14:57
1	Zn 213.857†	55648.4	56455.9	478.72 ug/L	478.72 ppb	17:14:57
1	SiO2†	81238.9	82973.0	5282.4 ug/L	5282.4 ppb	17:16:18
2	Sc Radial	3657.3	3657.3	92.4 %		17:14:23
2	Y RADIAL	4063.6	4063.6	89.54 %		17:14:03
2	Al 396.153Radial†	5105.4	5723.7	5118.5 ug/L	5118.5 ppb	17:14:03
2	Ca 317.933Radial†	2404.4	2587.2	5129.4 ug/L	5129.4 ppb	17:14:23
2	Fe 238.204 Radial†	399.5	420.8	5025.7 ug/L	5025.7 ppb	17:14:23
2	K 766.490 Radial†	29466.2	28874.3	5028.0 ug/L	5028.0 ppb	17:14:03
2	Mg 279.077 IEC†	113.5	119.6	5206.4 ug/L	5206.4 ppb	17:14:23
2	Na 589.592 Radial†	28841.0	32813.2	9408.7 ug/L	9408.7 ppb	17:14:03
2	Sr 421.552†	65493.1	70913.4	479.02 ug/L	479.02 ppb	17:14:03
2	Sc 361.383	844660.7	844660.7	97.676 %		17:15:25
2	Y 371.029	656114.6	656114.6	96.192 %		17:15:25
2	Ag 328.068†	104465.7	106516.6	486.65 ug/L	486.65 ppb	17:15:25
2	As 188.979†	1187.2	1250.9	481.36 ug/L	481.36 ppb	17:15:45
2	B 249.677†	21237.2	22349.4	472.70 ug/L	472.70 ppb	17:15:25
2	Ba 233.527†	62682.2	64191.9	484.87 ug/L	484.87 ppb	17:15:25
2	Be 313.107†	1371923.3	1408515.3	481.38 ug/L	481.38 ppb	17:15:25
2	Cd 226.502†	44897.8	46165.8	481.46 ug/L	481.46 ppb	17:15:25
2	Co 228.616†	24915.4	25594.7	475.91 ug/L	475.91 ppb	17:15:45
2	Cr 267.716†	44293.8	45258.9	483.43 ug/L	483.43 ppb	17:15:25
2	Cu 324.752†	170460.2	167668.4	481.26 ug/L	481.26 ppb	17:15:25
2	Mn 257.610†	461113.9	471594.7	483.09 ug/L	483.09 ppb	17:15:25
2	Mo 202.031†	6936.4	7098.7	484.10 ug/L	484.10 ppb	17:15:45
2	Ni 231.604†	20556.4	20962.3	476.01 ug/L	476.01 ppb	17:15:45

2	P 214.914†	4768.0	4647.0	2268.6 ug/L	2268.6 ppb	17:15:45
2	Pb 220.353†	4222.4	4394.1	482.35 ug/L	482.35 ppb	17:15:45
2	S 181.975 Axial†	810.8	778.1	940.62 ug/L	940.62 ppb	17:15:45
2	Sb 206.836†	1546.6	1547.8	493.75 ug/L	493.75 ppb	17:15:45
2	Se 196.026†	832.0	881.3	494.40 ug/L	494.40 ppb	17:15:45
2	Si 251.611†	80378.6	81801.9	2427.9 ug/L	2427.9 ppb	17:15:25
2	Sn 189.927†	2884.1	2935.1	477.42 ug/L	477.42 ppb	17:15:45
2	Ti 334.940†	311927.9	321045.5	492.80 ug/L	492.80 ppb	17:15:25
2	Tl 190.801†	1581.0	1661.9	478.33 ug/L	478.33 ppb	17:15:45
2	U 409.014†	9983.4	14545.7	470.41 ug/L	470.41 ppb	17:15:25
2	V 292.402†	65880.5	69156.1	486.46 ug/L	486.46 ppb	17:15:25
2	Zn 213.857†	55715.7	56296.5	477.39 ug/L	477.39 ppb	17:15:25
2	SiO2†	81344.3	82747.6	5268.1 ug/L	5268.1 ppb	17:16:23
3	Sc Radial	3662.1	3662.1	92.5 %		17:14:49
3	Y RADIAL	4106.5	4106.5	90.48 %		17:14:29
3	Al 396.153Radial†	5158.6	5774.1	5163.6 ug/L	5163.6 ppb	17:14:29
3	Ca 317.933Radial†	2422.8	2603.6	5162.1 ug/L	5162.1 ppb	17:14:49
3	Fe 238.204 Radial†	401.5	422.4	5044.8 ug/L	5044.8 ppb	17:14:49
3	K 766.490 Radial†	29818.3	29213.4	5087.1 ug/L	5087.1 ppb	17:14:29
3	Mg 279.077 IEC†	111.6	117.4	5109.1 ug/L	5109.1 ppb	17:14:49
3	Na 589.592 Radial†	29086.6	33038.0	9473.1 ug/L	9473.1 ppb	17:14:29
3	Sr 421.552†	65982.1	71349.6	481.96 ug/L	481.96 ppb	17:14:29
3	Sc 361.383	848116.7	848116.7	98.075 %		17:15:52
3	Y 371.029	660326.7	660326.7	96.809 %		17:15:52
3	Ag 328.068†	104933.9	106558.1	486.85 ug/L	486.85 ppb	17:15:52
3	As 188.979†	1190.2	1249.0	480.61 ug/L	480.61 ppb	17:16:12
3	B 249.677†	21236.4	22259.9	470.79 ug/L	470.79 ppb	17:15:52
3	Ba 233.527†	62911.2	64163.9	484.66 ug/L	484.66 ppb	17:15:52
3	Be 313.107†	1382098.0	1413166.3	482.96 ug/L	482.96 ppb	17:15:52
3	Cd 226.502†	45121.7	46206.8	481.89 ug/L	481.89 ppb	17:15:52
3	Co 228.616†	25098.3	25677.2	477.45 ug/L	477.45 ppb	17:16:12
3	Cr 267.716†	44417.5	45200.2	482.81 ug/L	482.81 ppb	17:15:52
3	Cu 324.752†	171022.4	167530.5	480.86 ug/L	480.86 ppb	17:15:52
3	Mn 257.610†	462818.4	471408.9	482.91 ug/L	482.91 ppb	17:15:52
3	Mo 202.031†	7014.0	7148.8	487.51 ug/L	487.51 ppb	17:16:12
3	Ni 231.604†	20784.0	21108.7	479.33 ug/L	479.33 ppb	17:16:12
3	P 214.914†	4825.5	4685.8	2288.4 ug/L	2288.4 ppb	17:16:12
3	Pb 220.353†	4271.5	4426.6	485.92 ug/L	485.92 ppb	17:16:12
3	S 181.975 Axial†	833.8	798.3	965.00 ug/L	965.00 ppb	17:16:12
3	Sb 206.836†	1549.5	1544.3	492.84 ug/L	492.84 ppb	17:16:12
3	Se 196.026†	844.6	890.7	499.57 ug/L	499.57 ppb	17:16:12
3	Si 251.611†	80629.9	81722.8	2425.5 ug/L	2425.5 ppb	17:15:52
3	Sn 189.927†	2928.4	2968.3	482.82 ug/L	482.82 ppb	17:16:12
3	Ti 334.940†	313079.7	320918.6	492.62 ug/L	492.62 ppb	17:15:52
3	Tl 190.801†	1609.4	1684.2	484.69 ug/L	484.69 ppb	17:16:12
3	U 409.014†	9972.4	14492.9	468.69 ug/L	468.69 ppb	17:15:52
3	V 292.402†	66320.7	69330.1	487.71 ug/L	487.71 ppb	17:15:52
3	Zn 213.857†	55952.7	56305.7	477.45 ug/L	477.45 ppb	17:15:52
3	SiO2†	80913.5	81969.0	5218.4 ug/L	5218.4 ppb	17:16:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	844689.2	97.679 %	0.3947			0.40%
Sc Radial	3656.1	92.3 %	0.17			0.18%
Y 371.029	656543.4	96.254 %	0.5261			0.55%
Y RADIAL	4081.2	89.92 %	0.495			0.55%
Ag 328.068†	106603.4	487.05 ug/L	0.534	487.05 ppb	0.534	0.11%
QC value within limits for Ag 328.068 Recovery = 97.41%						
Al 396.153Radial†	5750.0	5141.9 ug/L	22.59	5141.9 ppb	22.59	0.44%
QC value within limits for Al 396.153Radial Recovery = 102.84%						
As 188.979†	1250.9	481.36 ug/L	0.746	481.36 ppb	0.746	0.16%
QC value within limits for As 188.979 Recovery = 96.27%						
B 249.677†	22318.2	472.03 ug/L	1.074	472.03 ppb	1.074	0.23%
QC value within limits for B 249.677 Recovery = 94.41%						
Ba 233.527†	64200.6	484.93 ug/L	0.314	484.93 ppb	0.314	0.06%
QC value within limits for Ba 233.527 Recovery = 96.99%						
Be 313.107†	1410427.3	482.03 ug/L	0.829	482.03 ppb	0.829	0.17%
QC value within limits for Be 313.107 Recovery = 96.41%						
Ca 317.933Radial†	2594.8	5144.5 ug/L	16.48	5144.5 ppb	16.48	0.32%

QC value within limits for Ca 317.933 Radial Recovery = 102.89%

Cd	226.502†	46195.2	481.77 ug/L	0.267	481.77 ppb	0.267	0.06%
QC value within limits for Cd 226.502 Recovery = 96.35%							
Co	228.616†	25713.8	478.13 ug/L	2.625	478.13 ppb	2.625	0.55%
QC value within limits for Co 228.616 Recovery = 95.63%							
Cr	267.716†	45269.4	483.55 ug/L	0.804	483.55 ppb	0.804	0.17%
QC value within limits for Cr 267.716 Recovery = 96.71%							
Cu	324.752†	167726.1	481.43 ug/L	0.663	481.43 ppb	0.663	0.14%
QC value within limits for Cu 324.752 Recovery = 96.29%							
Fe	238.204 Radial†	421.2	5030.6 ug/L	12.55	5030.6 ppb	12.55	0.25%
QC value within limits for Fe 238.204 Radial Recovery = 100.61%							
K	766.490 Radial†	29137.9	5073.9 ug/L	40.96	5073.9 ppb	40.96	0.81%
QC value within limits for K 766.490 Radial Recovery = 101.48%							
Mg	279.077 IEC†	118.2	5143.5 ug/L	54.59	5143.5 ppb	54.59	1.06%
QC value within limits for Mg 279.077 IEC Recovery = 102.87%							
Mn	257.610†	471975.0	483.48 ug/L	0.844	483.48 ppb	0.844	0.17%
QC value within limits for Mn 257.610 Recovery = 96.70%							
Mo	202.031†	7135.8	486.63 ug/L	2.227	486.63 ppb	2.227	0.46%
QC value within limits for Mo 202.031 Recovery = 97.33%							
Na	589.592 Radial†	32968.6	9453.2 ug/L	38.65	9453.2 ppb	38.65	0.41%
QC value within limits for Na 589.592 Radial Recovery = 94.53%							
Ni	231.604†	21097.0	479.06 ug/L	2.933	479.06 ppb	2.933	0.61%
QC value within limits for Ni 231.604 Recovery = 95.81%							
P	214.914†	4687.9	2289.3 ug/L	21.29	2289.3 ppb	21.29	0.93%
QC value within limits for P 214.914 Recovery = 91.57%							
Pb	220.353†	4424.8	485.72 ug/L	3.276	485.72 ppb	3.276	0.67%
QC value within limits for Pb 220.353 Recovery = 97.14%							
S	181.975 Axial†	791.9	957.27 ug/L	14.432	957.27 ppb	14.432	1.51%
QC value within limits for S 181.975 Axial Recovery = 95.73%							
Sb	206.836†	1559.2	497.37 ug/L	7.076	497.37 ppb	7.076	1.42%
QC value within limits for Sb 206.836 Recovery = 99.47%							
Se	196.026†	887.4	497.71 ug/L	2.879	497.71 ppb	2.879	0.58%
QC value within limits for Se 196.026 Recovery = 99.54%							
Si	251.611†	81835.9	2428.9 ug/L	3.96	2428.9 ppb	3.96	0.16%
QC value within limits for Si 251.611 Recovery = 97.16%							
Sn	189.927†	2962.4	481.87 ug/L	4.051	481.87 ppb	4.051	0.84%
QC value within limits for Sn 189.927 Recovery = 96.37%							
Sr	421.552†	71242.9	481.24 ug/L	1.968	481.24 ppb	1.968	0.41%
QC value within limits for Sr 421.552 Recovery = 96.25%							
Ti	334.940†	321127.7	492.93 ug/L	0.402	492.93 ppb	0.402	0.08%
QC value within limits for Ti 334.940 Recovery = 98.59%							
Tl	190.801†	1685.1	484.96 ug/L	6.774	484.96 ppb	6.774	1.40%
QC value within limits for Tl 190.801 Recovery = 96.99%							
U	409.014†	14382.4	465.10 ug/L	7.747	465.10 ppb	7.747	1.67%
QC value within limits for U 409.014 Recovery = 93.02%							
V	292.402†	69278.0	487.33 ug/L	0.755	487.33 ppb	0.755	0.15%
QC value within limits for V 292.402 Recovery = 97.47%							
Zn	213.857†	56352.7	477.85 ug/L	0.749	477.85 ppb	0.749	0.16%
QC value within limits for Zn 213.857 Recovery = 95.57%							
SiO2†		82563.2	5256.3 ug/L	33.63	5256.3 ppb	33.63	0.64%
QC value within limits for SiO2 Recovery = 98.29%							

All analyte(s) passed QC.

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

Autosampler Location: 8
 Date Collected: 2/3/2010 17:18:39
 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	3684.5	3684.5	93.0 %		17:20:32
1	Y RADIAL	4029.7	4029.7	88.79 %		17:20:32
1	Al 396.153Radial†	-199.4	-18.5	-16.703 ug/L	-16.703 ppb	17:20:32
1	Ca 317.933Radial†	13.3	-1.9	-3.8508 ug/L	-3.8508 ppb	17:20:52
1	Fe 238.204 Radial†	9.1	-2.1	-24.456 ug/L	-24.456 ppb	17:20:52
1	K 766.490 Radial†	2930.9	119.3	20.797 ug/L	20.797 ppb	17:20:32
1	Mg 279.077 IEC†	2.9	-0.2	-10.095 ug/L	-10.095 ppb	17:20:52
1	Na 589.592 Radial†	-1492.4	-18.8	-5.4000 ug/L	-5.4000 ppb	17:20:32
1	Sr 421.552†	39.5	42.0	0.2838 ug/L	0.2838 ppb	17:20:32
1	Sc 361.383	838370.7	838370.7	96.948 %		17:21:49
1	Y 371.029	660330.8	660330.8	96.810 %		17:21:49
1	Ag 328.068†	436.4	15.0	0.0652 ug/L	0.0652 ppb	17:21:49
1	As 188.979†	-23.0	11.8	4.4827 ug/L	4.4827 ppb	17:22:09
1	B 249.677†	-489.0	102.5	2.1815 ug/L	2.1815 ppb	17:21:49
1	Ba 233.527†	-16.4	1.1	0.0074 ug/L	0.0074 ppb	17:22:09
1	Be 313.107†	-3821.7	2.1	0.0005 ug/L	0.0005 ppb	17:21:49
1	Cd 226.502†	-201.6	-8.3	-0.0859 ug/L	-0.0859 ppb	17:22:09
1	Co 228.616†	-96.3	-13.0	-0.2373 ug/L	-0.2373 ppb	17:22:09
1	Cr 267.716†	19.6	-68.8	-0.7318 ug/L	-0.7318 ppb	17:21:49
1	Cu 324.752†	6671.1	32.8	0.0971 ug/L	0.0971 ppb	17:21:49
1	Mn 257.610†	562.0	87.3	0.0873 ug/L	0.0873 ppb	17:22:09
1	Mo 202.031†	20.5	18.3	1.2460 ug/L	1.2460 ppb	17:22:09
1	Ni 231.604†	89.6	9.3	0.2103 ug/L	0.2103 ppb	17:22:09
1	P 214.914†	252.4	25.9	13.133 ug/L	13.133 ppb	17:22:09
1	Pb 220.353†	-67.8	1.2	0.1328 ug/L	0.1328 ppb	17:22:09
1	S 181.975 Axial†	50.0	-0.4	-0.4776 ug/L	-0.4776 ppb	17:22:09
1	Sb 206.836†	55.5	21.7	6.7084 ug/L	6.7084 ppb	17:22:09
1	Se 196.026†	-26.2	2.5	1.2619 ug/L	1.2619 ppb	17:22:09
1	Si 251.611†	568.8	97.2	2.8758 ug/L	2.8758 ppb	17:22:09
1	Sn 189.927†	12.0	-5.3	-0.8585 ug/L	-0.8585 ppb	17:22:09
1	Ti 334.940†	-1705.8	-64.9	-0.0958 ug/L	-0.0958 ppb	17:21:49
1	Tl 190.801†	-32.4	9.8	2.7934 ug/L	2.7934 ppb	17:22:09
1	U 409.014†	-4415.6	-229.8	-7.4538 ug/L	-7.4538 ppb	17:21:49
1	V 292.402†	-1684.7	-29.9	-0.2007 ug/L	-0.2007 ppb	17:21:49
1	Zn 213.857†	693.9	-29.3	-0.2497 ug/L	-0.2497 ppb	17:22:09
1	SiO2†	564.8	50.1	3.1634 ug/L	3.1634 ppb	17:23:05
2	Sc Radial	3756.2	3756.2	94.9 %		17:20:57
2	Y RADIAL	4131.0	4131.0	91.02 %		17:20:57
2	Al 396.153Radial†	-193.9	-8.6	-7.6976 ug/L	-7.6976 ppb	17:20:57
2	Ca 317.933Radial†	14.9	-0.5	-1.0772 ug/L	-1.0772 ppb	17:21:17
2	Fe 238.204 Radial†	14.4	3.4	40.281 ug/L	40.281 ppb	17:21:17
2	K 766.490 Radial†	3094.9	232.0	40.457 ug/L	40.457 ppb	17:20:57
2	Mg 279.077 IEC†	1.9	-1.2	-54.424 ug/L	-54.424 ppb	17:21:17
2	Na 589.592 Radial†	-1512.6	-9.5	-2.7224 ug/L	-2.7224 ppb	17:20:57
2	Sr 421.552†	-25.7	-27.5	-0.1858 ug/L	-0.1858 ppb	17:20:57
2	Sc 361.383	831264.7	831264.7	96.126 %		17:22:14
2	Y 371.029	655945.8	655945.8	96.167 %		17:22:14
2	Ag 328.068†	493.2	77.9	0.3695 ug/L	0.3695 ppb	17:22:14
2	As 188.979†	-27.4	6.9	2.6543 ug/L	2.6543 ppb	17:22:34
2	B 249.677†	-441.8	147.2	3.1221 ug/L	3.1221 ppb	17:22:14
2	Ba 233.527†	-15.2	2.3	0.0176 ug/L	0.0176 ppb	17:22:34
2	Be 313.107†	-3910.0	-123.4	-0.0426 ug/L	-0.0426 ppb	17:22:14
2	Cd 226.502†	-209.6	-18.4	-0.1969 ug/L	-0.1969 ppb	17:22:34
2	Co 228.616†	-97.8	-15.4	-0.2872 ug/L	-0.2872 ppb	17:22:34
2	Cr 267.716†	67.1	-19.2	-0.2033 ug/L	-0.2033 ppb	17:22:14
2	Cu 324.752†	6812.9	239.2	0.6909 ug/L	0.6909 ppb	17:22:14
2	Mn 257.610†	566.1	96.5	0.1050 ug/L	0.1050 ppb	17:22:34
2	Mo 202.031†	-4.5	-7.5	-0.5059 ug/L	-0.5059 ppb	17:22:34
2	Ni 231.604†	103.2	24.2	0.5495 ug/L	0.5495 ppb	17:22:34

2	P 214.914†	241.4	16.6	8.2820 ug/L	8.2820 ppb	17:22:34
2	Pb 220.353†	-84.2	-16.4	-1.8033 ug/L	-1.8033 ppb	17:22:34
2	S 181.975 Axial†	53.0	3.2	3.8304 ug/L	3.8304 ppb	17:22:34
2	Sb 206.836†	54.3	20.9	6.4378 ug/L	6.4378 ppb	17:22:34
2	Se 196.026†	-22.7	5.8	3.2892 ug/L	3.2892 ppb	17:22:34
2	Si 251.611†	557.9	90.8	2.7081 ug/L	2.7081 ppb	17:22:34
2	Sn 189.927†	21.2	4.4	0.7202 ug/L	0.7202 ppb	17:22:34
2	Ti 334.940†	-1776.9	-153.9	-0.2301 ug/L	-0.2301 ppb	17:22:14
2	Tl 190.801†	-47.6	-6.3	-1.7932 ug/L	-1.7932 ppb	17:22:34
2	U 409.014†	-4280.7	-128.4	-4.1725 ug/L	-4.1725 ppb	17:22:14
2	V 292.402†	-1680.1	-40.0	-0.2992 ug/L	-0.2992 ppb	17:22:14
2	Zn 213.857†	702.8	-13.9	-0.1275 ug/L	-0.1275 ppb	17:22:34
2	SiO2†	600.0	91.7	5.8685 ug/L	5.8685 ppb	17:23:10
3	Sc Radial	3736.9	3736.9	94.4 %		17:21:22
3	Y RADIAL	4133.8	4133.8	91.08 %		17:21:22
3	Al 396.153Radial†	-166.3	19.6	17.586 ug/L	17.586 ppb	17:21:22
3	Ca 317.933Radial†	13.7	-1.8	-3.4973 ug/L	-3.4973 ppb	17:21:42
3	Fe 238.204 Radial†	11.1	-0.0	-0.2153 ug/L	-0.2153 ppb	17:21:42
3	K 766.490 Radial†	3193.5	353.5	61.630 ug/L	61.630 ppb	17:21:22
3	Mg 279.077 IEC†	2.2	-1.0	-43.069 ug/L	-43.069 ppb	17:21:42
3	Na 589.592 Radial†	-1509.8	-14.8	-4.2459 ug/L	-4.2459 ppb	17:21:22
3	Sr 421.552†	44.2	46.3	0.3131 ug/L	0.3131 ppb	17:21:22
3	Sc 361.383	848450.5	848450.5	98.114 %		17:22:39
3	Y 371.029	669395.6	669395.6	98.139 %		17:22:39
3	Ag 328.068†	416.1	-11.0	-0.0525 ug/L	-0.0525 ppb	17:22:39
3	As 188.979†	-44.3	-9.7	-3.6927 ug/L	-3.6927 ppb	17:22:59
3	B 249.677†	-590.8	4.6	0.0989 ug/L	0.0989 ppb	17:22:39
3	Ba 233.527†	-14.3	3.4	0.0253 ug/L	0.0253 ppb	17:22:59
3	Be 313.107†	-3951.9	-83.8	-0.0288 ug/L	-0.0288 ppb	17:22:39
3	Cd 226.502†	-214.4	-18.9	-0.1967 ug/L	-0.1967 ppb	17:22:59
3	Co 228.616†	-92.0	-7.3	-0.1365 ug/L	-0.1365 ppb	17:22:59
3	Cr 267.716†	83.0	-4.4	-0.0483 ug/L	-0.0483 ppb	17:22:39
3	Cu 324.752†	6911.8	196.3	0.5626 ug/L	0.5626 ppb	17:22:39
3	Mn 257.610†	531.3	49.1	0.0520 ug/L	0.0520 ppb	17:22:59
3	Mo 202.031†	0.7	-2.1	-0.1452 ug/L	-0.1452 ppb	17:22:59
3	Ni 231.604†	74.2	-7.6	-0.1715 ug/L	-0.1715 ppb	17:22:59
3	P 214.914†	225.9	-4.2	-2.2562 ug/L	-2.2562 ppb	17:22:59
3	Pb 220.353†	-79.7	-10.1	-1.0980 ug/L	-1.0980 ppb	17:22:59
3	S 181.975 Axial†	51.6	0.7	0.8648 ug/L	0.8648 ppb	17:22:59
3	Sb 206.836†	39.1	4.3	1.3120 ug/L	1.3120 ppb	17:22:59
3	Se 196.026†	-21.1	8.0	4.3262 ug/L	4.3262 ppb	17:22:59
3	Si 251.611†	563.0	84.3	2.5094 ug/L	2.5094 ppb	17:22:59
3	Sn 189.927†	9.9	-7.5	-1.2241 ug/L	-1.2241 ppb	17:22:59
3	Ti 334.940†	-1737.7	-76.5	-0.1152 ug/L	-0.1152 ppb	17:22:39
3	Tl 190.801†	-40.7	1.8	0.5075 ug/L	0.5075 ppb	17:22:59
3	U 409.014†	-4189.1	55.1	1.7896 ug/L	1.7896 ppb	17:22:39
3	V 292.402†	-1715.9	-41.0	-0.2841 ug/L	-0.2841 ppb	17:22:39
3	Zn 213.857†	709.1	-22.4	-0.1913 ug/L	-0.1913 ppb	17:22:59
3	SiO2†	594.7	73.7	4.7092 ug/L	4.7092 ppb	17:23:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	839362.0	97.063 %		0.9986			1.03%
Sc Radial	3725.9	94.1 %		0.94			1.00%
Y 371.029	661890.7	97.038 %		1.0056			1.04%
Y RADIAL	4098.2	90.30 %		1.308			1.45%
Ag 328.068†	27.3	0.1274 ug/L		0.21780	0.1274 ppb	0.21780	170.96%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-2.5	-2.2717 ug/L		17.77694	-2.2717 ppb	17.77694	782.55%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	3.0	1.1481 ug/L		4.29079	1.1481 ppb	4.29079	373.73%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	84.8	1.8009 ug/L		1.54710	1.8009 ppb	1.54710	85.91%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	2.3	0.0168 ug/L		0.00897	0.0168 ppb	0.00897	53.52%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-68.4	-0.0237 ug/L		0.02202	-0.0237 ppb	0.02202	93.04%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-1.4	-2.8084 ug/L		1.50970	-2.8084 ppb	1.50970	53.76%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated

Cd 226.502† -15.2 -0.1598 ug/L 0.06404 -0.1598 ppb 0.06404 40.07%

QC value within limits for Cd 226.502 Recovery = Not calculated

Co 228.616† -11.9 -0.2203 ug/L 0.07678 -0.2203 ppb 0.07678 34.84%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† -30.8 -0.3278 ug/L 0.35837 -0.3278 ppb 0.35837 109.32%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752† 156.1 0.4502 ug/L 0.31248 0.4502 ppb 0.31248 69.41%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 0.4 5.2031 ug/L 32.70720 5.2031 ppb 32.70720 628.60%

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

K 766.490 Radial† 234.9 40.961 ug/L 20.4207 40.961 ppb 20.4207 49.85%

QC value within limits for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† -0.8 -35.863 ug/L 23.0261 -35.863 ppb 23.0261 64.21%

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

Mn 257.610† 77.6 0.0814 ug/L 0.02701 0.0814 ppb 0.02701 33.16%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† 2.9 0.1983 ug/L 0.92511 0.1983 ppb 0.92511 466.55%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† -14.4 -4.1228 ug/L 1.34300 -4.1228 ppb 1.34300 32.58%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† 8.6 0.1961 ug/L 0.36072 0.1961 ppb 0.36072 183.92%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† 12.8 6.3861 ug/L 7.86763 6.3861 ppb 7.86763 123.20%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -8.4 -0.9228 ug/L 0.97989 -0.9228 ppb 0.97989 106.18%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† 1.2 1.4059 ug/L 2.20440 1.4059 ppb 2.20440 156.80%

QC value within limits for S 181.975 Axial Recovery = Not calculated

Sb 206.836† 15.7 4.8194 ug/L 3.04049 4.8194 ppb 3.04049 63.09%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† 5.4 2.9591 ug/L 1.55863 2.9591 ppb 1.55863 52.67%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 251.611† 90.8 2.6978 ug/L 0.18344 2.6978 ppb 0.18344 6.80%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† -2.8 -0.4541 ug/L 1.03329 -0.4541 ppb 1.03329 227.52%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 421.552† 20.3 0.1370 ug/L 0.27998 0.1370 ppb 0.27998 204.32%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† -98.4 -0.1470 ug/L 0.07257 -0.1470 ppb 0.07257 49.36%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† 1.8 0.5026 ug/L 2.29335 0.5026 ppb 2.29335 456.33%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† -101.0 -3.2789 ug/L 4.68609 -3.2789 ppb 4.68609 142.92%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† -37.0 -0.2614 ug/L 0.05303 -0.2614 ppb 0.05303 20.29%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† -21.9 -0.1895 ug/L 0.06115 -0.1895 ppb 0.06115 32.27%

QC value within limits for Zn 213.857 Recovery = Not calculated

SiO2† 71.8 4.5804 ug/L 1.35712 4.5804 ppb 1.35712 29.63%

QC value within limits for SiO2 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 22

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 18:21:46

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	3691.9	3691.9	93.2 %		18:23:58
1	Y RADIAL	4236.7	4236.7	93.35 %		18:23:38
1	Al 396.153Radial†	5209.7	5783.8	5172.5 ug/L	5172.5 ppb	18:23:38
1	Ca 317.933Radial†	2452.2	2614.0	5182.5 ug/L	5182.5 ppb	18:23:58
1	Fe 238.204 Radial†	406.9	424.6	5072.1 ug/L	5072.1 ppb	18:23:58
1	K 766.490 Radial†	30310.0	29480.3	5133.6 ug/L	5133.6 ppb	18:23:38
1	Mg 279.077 IEC†	111.5	116.3	5060.4 ug/L	5060.4 ppb	18:23:58
1	Na 589.592 Radial†	29084.1	32781.3	9399.5 ug/L	9399.5 ppb	18:23:38
1	Sr 421.552†	66602.6	71438.8	482.57 ug/L	482.57 ppb	18:23:38
1	Sc 361.383	854535.8	854535.8	98.818 %		18:24:56
1	Y 371.029	663750.9	663750.9	97.311 %		18:24:56
1	Ag 328.068†	106000.2	106833.5	488.11 ug/L	488.11 ppb	18:25:01
1	As 188.979†	1214.1	1264.1	486.31 ug/L	486.31 ppb	18:25:21
1	B 249.677†	21570.0	22434.9	474.48 ug/L	474.48 ppb	18:25:01
1	Ba 233.527†	63317.8	64093.5	484.13 ug/L	484.13 ppb	18:25:01
1	Be 313.107†	1395358.9	1416000.0	483.90 ug/L	483.90 ppb	18:24:56
1	Cd 226.502†	45420.2	46163.4	481.44 ug/L	481.44 ppb	18:25:01
1	Co 228.616†	25604.5	25997.2	483.41 ug/L	483.41 ppb	18:25:01
1	Cr 267.716†	44822.8	45270.1	483.56 ug/L	483.56 ppb	18:25:01
1	Cu 324.752†	172105.9	167317.1	480.25 ug/L	480.25 ppb	18:25:01
1	Mn 257.610†	466626.9	471718.2	483.23 ug/L	483.23 ppb	18:24:56
1	Mo 202.031†	6993.1	7073.9	482.41 ug/L	482.41 ppb	18:25:21
1	Ni 231.604†	21180.9	21351.2	484.84 ug/L	484.84 ppb	18:25:01
1	P 214.914†	4848.9	4672.4	2281.7 ug/L	2281.7 ppb	18:25:21
1	Pb 220.353†	4236.9	4358.8	478.49 ug/L	478.49 ppb	18:25:21
1	S 181.975 Axial†	827.5	785.5	949.50 ug/L	949.50 ppb	18:25:21
1	Sb 206.836†	1567.7	1550.9	494.81 ug/L	494.81 ppb	18:25:21
1	Se 196.026†	855.7	895.4	502.19 ug/L	502.19 ppb	18:25:21
1	Si 251.611†	81588.4	82075.2	2436.1 ug/L	2436.1 ppb	18:25:01
1	Sn 189.927†	2956.3	2974.0	483.76 ug/L	483.76 ppb	18:25:21
1	Ti 334.940†	308632.3	314020.1	482.03 ug/L	482.03 ppb	18:25:01
1	Tl 190.801†	1619.0	1681.6	483.83 ug/L	483.83 ppb	18:25:21
1	U 409.014†	10244.1	14691.4	475.13 ug/L	475.13 ppb	18:25:01
1	V 292.402†	66905.1	69413.5	488.24 ug/L	488.24 ppb	18:25:01
1	Zn 213.857†	56689.6	56622.9	480.12 ug/L	480.12 ppb	18:25:01
1	SiO2†	81283.2	81723.4	5202.8 ug/L	5202.8 ppb	18:26:29
2	Sc Radial	3690.7	3690.7	93.2 %		18:24:24
2	Y RADIAL	4155.0	4155.0	91.55 %		18:24:04
2	Al 396.153Radial†	5137.2	5707.9	5104.2 ug/L	5104.2 ppb	18:24:04
2	Ca 317.933Radial†	2433.4	2594.7	5144.3 ug/L	5144.3 ppb	18:24:24
2	Fe 238.204 Radial†	402.6	420.2	5019.2 ug/L	5019.2 ppb	18:24:24
2	K 766.490 Radial†	29914.9	29067.1	5061.6 ug/L	5061.6 ppb	18:24:04
2	Mg 279.077 IEC†	112.8	117.7	5124.0 ug/L	5124.0 ppb	18:24:24
2	Na 589.592 Radial†	28656.8	32333.2	9271.0 ug/L	9271.0 ppb	18:24:04
2	Sr 421.552†	65786.6	70586.9	476.81 ug/L	476.81 ppb	18:24:04
2	Sc 361.383	844089.9	844089.9	97.610 %		18:25:27
2	Y 371.029	655981.1	655981.1	96.172 %		18:25:27
2	Ag 328.068†	106157.0	108321.6	494.85 ug/L	494.85 ppb	18:25:32
2	As 188.979†	1197.6	1262.4	485.68 ug/L	485.68 ppb	18:25:52
2	B 249.677†	21624.2	22760.6	481.39 ug/L	481.39 ppb	18:25:32
2	Ba 233.527†	63290.9	64858.9	489.91 ug/L	489.91 ppb	18:25:32
2	Be 313.107†	1377022.3	1414689.0	483.47 ug/L	483.47 ppb	18:25:27
2	Cd 226.502†	45400.7	46712.2	487.17 ug/L	487.17 ppb	18:25:32
2	Co 228.616†	25626.7	26340.6	489.79 ug/L	489.79 ppb	18:25:32
2	Cr 267.716†	44806.5	45814.8	489.37 ug/L	489.37 ppb	18:25:32
2	Cu 324.752†	172115.6	169482.4	486.45 ug/L	486.45 ppb	18:25:32
2	Mn 257.610†	461213.7	472016.2	483.52 ug/L	483.52 ppb	18:25:27
2	Mo 202.031†	6943.8	7111.0	484.94 ug/L	484.94 ppb	18:25:52
2	Ni 231.604†	21174.5	21609.8	490.71 ug/L	490.71 ppb	18:25:32

2	P 214.914†	4807.3	4690.5	2289.7 ug/L	2289.7 ppb	18:25:52
2	Pb 220.353†	4199.0	4373.0	480.04 ug/L	480.04 ppb	18:25:52
2	S 181.975 Axial†	816.2	784.2	948.01 ug/L	948.01 ppb	18:25:52
2	Sb 206.836†	1576.1	1579.1	503.52 ug/L	503.52 ppb	18:25:52
2	Se 196.026†	836.8	886.8	497.35 ug/L	497.35 ppb	18:25:52
2	Si 251.611†	81730.3	83242.3	2470.8 ug/L	2470.8 ppb	18:25:32
2	Sn 189.927†	2904.5	2957.9	481.14 ug/L	481.14 ppb	18:25:52
2	Ti 334.940†	308809.4	318066.6	488.22 ug/L	488.22 ppb	18:25:32
2	Tl 190.801†	1620.6	1703.5	490.11 ug/L	490.11 ppb	18:25:52
2	U 409.014†	10600.1	15184.5	491.12 ug/L	491.12 ppb	18:25:32
2	V 292.402†	66938.3	70285.5	494.36 ug/L	494.36 ppb	18:25:32
2	Zn 213.857†	56550.2	57190.0	484.93 ug/L	484.93 ppb	18:25:32
2	SiO2†	79977.4	81403.6	5182.3 ug/L	5182.3 ppb	18:26:34
3	Sc Radial	3716.5	3716.5	93.9 %		18:24:49
3	Y RADIAL	4216.5	4216.5	92.91 %		18:24:29
3	Al 396.153Radial†	5260.7	5801.2	5188.2 ug/L	5188.2 ppb	18:24:29
3	Ca 317.933Radial†	2452.7	2597.1	5149.2 ug/L	5149.2 ppb	18:24:49
3	Fe 238.204 Radial†	403.7	418.3	4996.8 ug/L	4996.8 ppb	18:24:49
3	K 766.490 Radial†	30258.7	29210.1	5086.5 ug/L	5086.5 ppb	18:24:29
3	Mg 279.077 IEC†	112.0	116.0	5047.8 ug/L	5047.8 ppb	18:24:49
3	Na 589.592 Radial†	29114.9	32607.3	9349.6 ug/L	9349.6 ppb	18:24:29
3	Sr 421.552†	66874.9	71255.2	481.33 ug/L	481.33 ppb	18:24:29
3	Sc 361.383	860390.5	860390.5	99.495 %		18:25:58
3	Y 371.029	669637.3	669637.3	98.174 %		18:25:58
3	Ag 328.068†	105464.8	105565.4	482.30 ug/L	482.30 ppb	18:26:03
3	As 188.979†	1200.4	1241.9	477.79 ug/L	477.79 ppb	18:26:23
3	B 249.677†	21283.2	21998.1	465.23 ug/L	465.23 ppb	18:26:03
3	Ba 233.527†	62969.6	63307.5	478.19 ug/L	478.19 ppb	18:26:03
3	Be 313.107†	1407064.8	1418156.7	484.62 ug/L	484.62 ppb	18:25:58
3	Cd 226.502†	45110.3	45539.1	474.93 ug/L	474.93 ppb	18:26:03
3	Co 228.616†	25432.3	25647.9	476.92 ug/L	476.92 ppb	18:26:03
3	Cr 267.716†	44536.4	44673.6	477.18 ug/L	477.18 ppb	18:26:03
3	Cu 324.752†	170558.1	164576.2	472.38 ug/L	472.38 ppb	18:26:03
3	Mn 257.610†	469234.2	471125.4	482.61 ug/L	482.61 ppb	18:25:58
3	Mo 202.031†	7027.1	7060.0	481.46 ug/L	481.46 ppb	18:26:23
3	Ni 231.604†	20952.7	20975.9	476.32 ug/L	476.32 ppb	18:26:03
3	P 214.914†	4822.3	4612.3	2252.7 ug/L	2252.7 ppb	18:26:23
3	Pb 220.353†	4265.0	4357.8	478.40 ug/L	478.40 ppb	18:26:23
3	S 181.975 Axial†	831.3	783.6	947.27 ug/L	947.27 ppb	18:26:23
3	Sb 206.836†	1578.3	1550.8	494.65 ug/L	494.65 ppb	18:26:23
3	Se 196.026†	860.6	894.5	501.42 ug/L	501.42 ppb	18:26:23
3	Si 251.611†	80841.9	80763.1	2397.0 ug/L	2397.0 ppb	18:26:03
3	Sn 189.927†	2938.9	2936.2	477.61 ug/L	477.61 ppb	18:26:23
3	Ti 334.940†	306909.0	310162.7	476.11 ug/L	476.11 ppb	18:26:03
3	Tl 190.801†	1618.5	1669.9	480.49 ug/L	480.49 ppb	18:26:23
3	U 409.014†	10386.7	14764.2	477.51 ug/L	477.51 ppb	18:26:03
3	V 292.402†	66578.3	68624.3	482.77 ug/L	482.77 ppb	18:26:03
3	Zn 213.857†	56050.2	55589.9	471.36 ug/L	471.36 ppb	18:26:03
3	SiO2†	80820.7	80698.9	5137.5 ug/L	5137.5 ppb	18:26:39

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	853005.4	98.641 %	0.9549			0.97%
Sc Radial	3699.7	93.4 %	0.37			0.39%
Y 371.029	663123.1	97.219 %	1.0042			1.03%
Y RADIAL	4202.7	92.60 %	0.938			1.01%
Ag 328.068†	106906.8	488.42 ug/L	6.283	488.42 ppb	6.283	1.29%
QC value within limits for Ag 328.068 Recovery = 97.68%						
Al 396.153Radial†	5764.3	5155.0 ug/L	44.67	5155.0 ppb	44.67	0.87%
QC value within limits for Al 396.153Radial Recovery = 103.10%						
As 188.979†	1256.1	483.26 ug/L	4.746	483.26 ppb	4.746	0.98%
QC value within limits for As 188.979 Recovery = 96.65%						
B 249.677†	22397.8	473.70 ug/L	8.108	473.70 ppb	8.108	1.71%
QC value within limits for B 249.677 Recovery = 94.74%						
Ba 233.527†	64086.6	484.08 ug/L	5.858	484.08 ppb	5.858	1.21%
QC value within limits for Ba 233.527 Recovery = 96.82%						
Be 313.107†	1416281.9	484.00 ug/L	0.583	484.00 ppb	0.583	0.12%
QC value within limits for Be 313.107 Recovery = 96.80%						
Ca 317.933Radial†	2601.9	5158.7 ug/L	20.81	5158.7 ppb	20.81	0.40%

QC value within limits for Ca 317.933 Radial Recovery = 103.17%

Cd 226.502†	46138.2	481.18 ug/L	6.127	481.18 ppb	6.127	1.27%
QC value within limits for Cd 226.502 Recovery = 96.24%						
Co 228.616†	25995.2	483.37 ug/L	6.432	483.37 ppb	6.432	1.33%
QC value within limits for Co 228.616 Recovery = 96.67%						
Cr 267.716†	45252.8	483.37 ug/L	6.095	483.37 ppb	6.095	1.26%
QC value within limits for Cr 267.716 Recovery = 96.67%						
Cu 324.752†	167125.2	479.69 ug/L	7.054	479.69 ppb	7.054	1.47%
QC value within limits for Cu 324.752 Recovery = 95.94%						
Fe 238.204 Radial†	421.1	5029.4 ug/L	38.64	5029.4 ppb	38.64	0.77%
QC value within limits for Fe 238.204 Radial Recovery = 100.59%						
K 766.490 Radial†	29252.5	5093.9 ug/L	36.55	5093.9 ppb	36.55	0.72%
QC value within limits for K 766.490 Radial Recovery = 101.88%						
Mg 279.077 IEC†	116.7	5077.4 ug/L	40.86	5077.4 ppb	40.86	0.80%
QC value within limits for Mg 279.077 IEC Recovery = 101.55%						
Mn 257.610†	471619.9	483.12 ug/L	0.465	483.12 ppb	0.465	0.10%
QC value within limits for Mn 257.610 Recovery = 96.62%						
Mo 202.031†	7081.6	482.94 ug/L	1.795	482.94 ppb	1.795	0.37%
QC value within limits for Mo 202.031 Recovery = 96.59%						
Na 589.592 Radial†	32573.9	9340.0 ug/L	64.78	9340.0 ppb	64.78	0.69%
QC value within limits for Na 589.592 Radial Recovery = 93.40%						
Ni 231.604†	21312.3	483.95 ug/L	7.238	483.95 ppb	7.238	1.50%
QC value within limits for Ni 231.604 Recovery = 96.79%						
P 214.914†	4658.4	2274.7 ug/L	19.45	2274.7 ppb	19.45	0.86%
QC value within limits for P 214.914 Recovery = 90.99%						
Pb 220.353†	4363.2	478.98 ug/L	0.920	478.98 ppb	0.920	0.19%
QC value within limits for Pb 220.353 Recovery = 95.80%						
S 181.975 Axial†	784.4	948.26 ug/L	1.134	948.26 ppb	1.134	0.12%
QC value within limits for S 181.975 Axial Recovery = 94.83%						
Sb 206.836†	1560.3	497.66 ug/L	5.073	497.66 ppb	5.073	1.02%
QC value within limits for Sb 206.836 Recovery = 99.53%						
Se 196.026†	892.2	500.32 ug/L	2.603	500.32 ppb	2.603	0.52%
QC value within limits for Se 196.026 Recovery = 100.06%						
Si 251.611†	82026.8	2434.6 ug/L	36.88	2434.6 ppb	36.88	1.51%
QC value within limits for Si 251.611 Recovery = 97.39%						
Sn 189.927†	2956.1	480.84 ug/L	3.086	480.84 ppb	3.086	0.64%
QC value within limits for Sn 189.927 Recovery = 96.17%						
Sr 421.552†	71093.6	480.23 ug/L	3.029	480.23 ppb	3.029	0.63%
QC value within limits for Sr 421.552 Recovery = 96.05%						
Ti 334.940†	314083.1	482.12 ug/L	6.060	482.12 ppb	6.060	1.26%
QC value within limits for Ti 334.940 Recovery = 96.42%						
Tl 190.801†	1685.0	484.81 ug/L	4.884	484.81 ppb	4.884	1.01%
QC value within limits for Tl 190.801 Recovery = 96.96%						
U 409.014†	14880.0	481.26 ug/L	8.629	481.26 ppb	8.629	1.79%
QC value within limits for U 409.014 Recovery = 96.25%						
V 292.402†	69441.1	488.46 ug/L	5.797	488.46 ppb	5.797	1.19%
QC value within limits for V 292.402 Recovery = 97.69%						
Zn 213.857†	56467.6	478.81 ug/L	6.883	478.81 ppb	6.883	1.44%
QC value within limits for Zn 213.857 Recovery = 95.76%						
SiO2†	81275.3	5174.2 ug/L	33.43	5174.2 ppb	33.43	0.65%
QC value within limits for SiO2 Recovery = 96.76%						

All analyte(s) passed QC.

Sequence No.: 23

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 18:28:48

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	3773.1	3773.1	95.3 %		18:31:01
1	Y RADIAL	4139.5	4139.5	91.21 %		18:30:41
1	Al 396.153Radial†	-209.1	-23.7	-21.333 ug/L	-21.333 ppb	18:30:41
1	Ca 317.933Radial†	18.4	3.1	6.1138 ug/L	6.1138 ppb	18:31:01
1	Fe 238.204 Radial†	10.5	-0.8	-9.9333 ug/L	-9.9333 ppb	18:31:01
1	K 766.490 Radial†	3037.0	156.7	27.311 ug/L	27.311 ppb	18:30:41
1	Mg 279.077 IEC†	4.0	0.9	40.375 ug/L	40.375 ppb	18:31:01
1	Na 589.592 Radial†	-1408.4	106.9	30.663 ug/L	30.663 ppb	18:30:41
1	Sr 421.552†	7.5	7.5	0.0505 ug/L	0.0505 ppb	18:30:41
1	Sc 361.383	824245.5	824245.5	95.315 %		18:31:58
1	Y 371.029	648674.5	648674.5	95.101 %		18:31:58
1	Ag 328.068†	462.2	49.8	0.2236 ug/L	0.2236 ppb	18:31:58
1	As 188.979†	-34.1	-0.3	-0.1288 ug/L	-0.1288 ppb	18:32:18
1	B 249.677†	-532.4	48.2	1.0260 ug/L	1.0260 ppb	18:31:58
1	Ba 233.527†	-23.8	-6.9	-0.0555 ug/L	-0.0555 ppb	18:32:18
1	Be 313.107†	-3855.9	-101.4	-0.0346 ug/L	-0.0346 ppb	18:31:58
1	Cd 226.502†	-202.8	-13.1	-0.1372 ug/L	-0.1372 ppb	18:32:18
1	Co 228.616†	-75.6	7.1	0.1344 ug/L	0.1344 ppb	18:32:18
1	Cr 267.716†	109.2	25.5	0.2735 ug/L	0.2735 ppb	18:31:58
1	Cu 324.752†	6940.9	433.8	1.2491 ug/L	1.2491 ppb	18:31:58
1	Mn 257.610†	540.1	74.2	0.0733 ug/L	0.0733 ppb	18:32:18
1	Mo 202.031†	16.9	14.9	1.0126 ug/L	1.0126 ppb	18:32:18
1	Ni 231.604†	94.6	16.0	0.3634 ug/L	0.3634 ppb	18:32:18
1	P 214.914†	224.1	0.7	0.0857 ug/L	0.0857 ppb	18:32:18
1	Pb 220.353†	-74.6	-7.1	-0.7782 ug/L	-0.7782 ppb	18:32:18
1	S 181.975 Axial†	52.4	3.1	3.7094 ug/L	3.7094 ppb	18:32:18
1	Sb 206.836†	38.7	5.1	1.5707 ug/L	1.5707 ppb	18:32:18
1	Se 196.026†	-22.8	5.6	3.0258 ug/L	3.0258 ppb	18:32:18
1	Si 251.611†	549.6	87.1	2.5780 ug/L	2.5780 ppb	18:32:18
1	Sn 189.927†	13.5	-3.4	-0.5580 ug/L	-0.5580 ppb	18:32:18
1	Ti 334.940†	-1623.8	-9.1	-0.0129 ug/L	-0.0129 ppb	18:31:58
1	Tl 190.801†	-40.0	1.2	0.3528 ug/L	0.3528 ppb	18:32:18
1	U 409.014†	-4365.2	-255.0	-8.2738 ug/L	-8.2738 ppb	18:31:58
1	V 292.402†	-1824.6	-206.4	-1.4324 ug/L	-1.4324 ppb	18:31:58
1	Zn 213.857†	725.7	16.2	0.1359 ug/L	0.1359 ppb	18:32:18
1	SiO2†	571.4	67.1	4.2555 ug/L	4.2555 ppb	18:33:14
2	Sc Radial	3781.3	3781.3	95.5 %		18:31:26
2	Y RADIAL	4071.5	4071.5	89.71 %		18:31:06
2	Al 396.153Radial†	-191.5	-4.7	-4.2772 ug/L	-4.2772 ppb	18:31:06
2	Ca 317.933Radial†	18.1	2.7	5.3844 ug/L	5.3844 ppb	18:31:26
2	Fe 238.204 Radial†	11.2	-0.0	-0.5662 ug/L	-0.5662 ppb	18:31:26
2	K 766.490 Radial†	3172.6	291.8	50.880 ug/L	50.880 ppb	18:31:06
2	Mg 279.077 IEC†	3.7	0.6	25.911 ug/L	25.911 ppb	18:31:26
2	Na 589.592 Radial†	-1545.6	-33.5	-9.6054 ug/L	-9.6054 ppb	18:31:06
2	Sr 421.552†	-5.1	-5.7	-0.0388 ug/L	-0.0388 ppb	18:31:06
2	Sc 361.383	788892.2	788892.2	91.227 %		18:32:23
2	Y 371.029	622657.4	622657.4	91.286 %		18:32:23
2	Ag 328.068†	466.4	76.2	0.3474 ug/L	0.3474 ppb	18:32:23
2	As 188.979†	-23.6	9.6	3.6672 ug/L	3.6672 ppb	18:32:43
2	B 249.677†	-550.5	3.4	0.0727 ug/L	0.0727 ppb	18:32:23
2	Ba 233.527†	-1.4	16.5	0.1214 ug/L	0.1214 ppb	18:32:43
2	Be 313.107†	-3856.0	-282.7	-0.0967 ug/L	-0.0967 ppb	18:32:23
2	Cd 226.502†	-196.3	-15.6	-0.1642 ug/L	-0.1642 ppb	18:32:43
2	Co 228.616†	-93.4	-16.0	-0.2954 ug/L	-0.2954 ppb	18:32:43
2	Cr 267.716†	71.8	-10.3	-0.1081 ug/L	-0.1081 ppb	18:32:23
2	Cu 324.752†	6775.4	578.7	1.6662 ug/L	1.6662 ppb	18:32:23
2	Mn 257.610†	528.2	86.6	0.0875 ug/L	0.0875 ppb	18:32:43
2	Mo 202.031†	10.6	8.8	0.5962 ug/L	0.5962 ppb	18:32:43
2	Ni 231.604†	92.1	17.8	0.4045 ug/L	0.4045 ppb	18:32:43

2	P 214.914†	234.1	22.1	10.916 ug/L	10.916 ppb	18:32:43
2	Pb 220.353†	-63.5	1.6	0.1725 ug/L	0.1725 ppb	18:32:43
2	S 181.975 Axial†	47.5	0.1	0.1097 ug/L	0.1097 ppb	18:32:43
2	Sb 206.836†	44.3	13.0	4.0009 ug/L	4.0009 ppb	18:32:43
2	Se 196.026†	-25.6	1.4	0.7681 ug/L	0.7681 ppb	18:32:43
2	Si 251.611†	547.9	111.1	3.2977 ug/L	3.2977 ppb	18:32:43
2	Sn 189.927†	14.7	-1.6	-0.2523 ug/L	-0.2523 ppb	18:32:43
2	Ti 334.940†	-1635.0	-97.6	-0.1472 ug/L	-0.1472 ppb	18:32:23
2	Tl 190.801†	-41.4	-2.1	-0.6051 ug/L	-0.6051 ppb	18:32:43
2	U 409.014†	-4203.4	-282.9	-9.1813 ug/L	-9.1813 ppb	18:32:23
2	V 292.402†	-1736.5	-195.7	-1.3668 ug/L	-1.3668 ppb	18:32:23
2	Zn 213.857†	729.1	54.1	0.4578 ug/L	0.4578 ppb	18:32:43
2	SiO2†	571.6	94.1	5.9893 ug/L	5.9893 ppb	18:33:19
3	Sc Radial	3664.3	3664.3	92.5 %		18:31:51
3	Y RADIAL	4046.2	4046.2	89.15 %		18:31:31
3	Al 396.153Radial†	-199.8	-20.1	-18.078 ug/L	-18.078 ppb	18:31:31
3	Ca 317.933Radial†	13.1	-2.1	-4.1067 ug/L	-4.1067 ppb	18:31:51
3	Fe 238.204 Radial†	12.5	1.7	20.298 ug/L	20.298 ppb	18:31:51
3	K 766.490 Radial†	3076.0	293.6	51.186 ug/L	51.186 ppb	18:31:31
3	Mg 279.077 IEC†	2.5	-0.6	-27.044 ug/L	-27.044 ppb	18:31:51
3	Na 589.592 Radial†	-1495.8	-31.4	-9.0000 ug/L	-9.0000 ppb	18:31:31
3	Sr 421.552†	16.0	16.8	0.1136 ug/L	0.1136 ppb	18:31:31
3	Sc 361.383	836096.7	836096.7	96.685 %		18:32:49
3	Y 371.029	659523.2	659523.2	96.691 %		18:32:49
3	Ag 328.068†	541.6	125.1	0.5737 ug/L	0.5737 ppb	18:32:49
3	As 188.979†	-30.6	3.8	1.4652 ug/L	1.4652 ppb	18:33:09
3	B 249.677†	-520.4	68.5	1.4534 ug/L	1.4534 ppb	18:32:49
3	Ba 233.527†	-1.5	16.5	0.1239 ug/L	0.1239 ppb	18:33:09
3	Be 313.107†	-3851.8	-39.8	-0.0139 ug/L	-0.0139 ppb	18:32:49
3	Cd 226.502†	-199.3	-6.5	-0.0699 ug/L	-0.0699 ppb	18:33:09
3	Co 228.616†	-88.7	-5.3	-0.0970 ug/L	-0.0970 ppb	18:33:09
3	Cr 267.716†	132.0	47.4	0.5063 ug/L	0.5063 ppb	18:32:49
3	Cu 324.752†	6836.6	222.7	0.6411 ug/L	0.6411 ppb	18:32:49
3	Mn 257.610†	573.1	100.3	0.1058 ug/L	0.1058 ppb	18:33:09
3	Mo 202.031†	14.2	11.8	0.8087 ug/L	0.8087 ppb	18:33:09
3	Ni 231.604†	83.8	3.5	0.0801 ug/L	0.0801 ppb	18:33:09
3	P 214.914†	237.6	11.3	5.5841 ug/L	5.5841 ppb	18:33:09
3	Pb 220.353†	-90.1	-22.0	-2.4143 ug/L	-2.4143 ppb	18:33:09
3	S 181.975 Axial†	50.2	0.0	0.0227 ug/L	0.0227 ppb	18:33:09
3	Sb 206.836†	33.7	-0.7	-0.2011 ug/L	-0.2011 ppb	18:33:09
3	Se 196.026†	-23.3	5.4	2.9851 ug/L	2.9851 ppb	18:33:09
3	Si 251.611†	535.6	64.4	1.9055 ug/L	1.9055 ppb	18:33:09
3	Sn 189.927†	18.1	1.0	0.1689 ug/L	0.1689 ppb	18:33:09
3	Ti 334.940†	-1731.6	-96.4	-0.1459 ug/L	-0.1459 ppb	18:32:49
3	Tl 190.801†	-46.9	-5.3	-1.5092 ug/L	-1.5092 ppb	18:33:09
3	U 409.014†	-4230.3	-50.5	-1.6432 ug/L	-1.6432 ppb	18:32:49
3	V 292.402†	-1725.1	-76.4	-0.5255 ug/L	-0.5255 ppb	18:32:49
3	Zn 213.857†	731.2	11.2	0.0927 ug/L	0.0927 ppb	18:33:09
3	SiO2†	514.9	0.2	-0.0121 ug/L	-0.0121 ppb	18:33:24

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	816411.5	94.409 %	2.8399			3.01%
Sc Radial	3739.5	94.4 %	1.65			1.75%
Y 371.029	643618.4	94.359 %	2.7776			2.94%
Y RADIAL	4085.7	90.02 %	1.063			1.18%
Ag 328.068†	83.7	0.3816 ug/L	0.17754	0.3816 ppb	0.17754	46.53%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-16.2	-14.563 ug/L	9.0549	-14.563 ppb	9.0549	62.18%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.4	1.6679 ug/L	1.90612	1.6679 ppb	1.90612	114.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	40.0	0.8507 ug/L	0.70685	0.8507 ppb	0.70685	83.09%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	8.7	0.0633 ug/L	0.10284	0.0633 ppb	0.10284	162.53%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-141.3	-0.0484 ug/L	0.04311	-0.0484 ppb	0.04311	89.04%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.2	2.4638 ug/L	5.70190	2.4638 ppb	5.70190	231.42%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-11.7	-0.1238 ug/L	0.04856	-0.1238 ppb	0.04856	39.24%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-4.7	-0.0860 ug/L	0.21512	-0.0860 ppb	0.21512	250.14%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	20.9	0.2239 ug/L	0.31018	0.2239 ppb	0.31018	138.53%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	411.7	1.1855 ug/L	0.51547	1.1855 ppb	0.51547	43.48%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.3	3.2662 ug/L	15.47582	3.2662 ppb	15.47582	473.81%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	247.4	43.126 ug/L	13.6966	43.126 ppb	13.6966	31.76%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.3	13.081 ug/L	35.4937	13.081 ppb	35.4937	271.34%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	87.0	0.0889 ug/L	0.01627	0.0889 ppb	0.01627	18.30%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	11.8	0.8058 ug/L	0.20819	0.8058 ppb	0.20819	25.84%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	14.0	4.0190 ug/L	23.07596	4.0190 ppb	23.07596	574.17%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	12.4	0.2827 ug/L	0.17667	0.2827 ppb	0.17667	62.50%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	11.4	5.5285 ug/L	5.41531	5.5285 ppb	5.41531	97.95%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-9.2	-1.0067 ug/L	1.30848	-1.0067 ppb	1.30848	129.98%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.1	1.2806 ug/L	2.10388	1.2806 ppb	2.10388	164.29%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	5.8	1.7902 ug/L	2.10954	1.7902 ppb	2.10954	117.84%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.1	2.2596 ug/L	1.29191	2.2596 ppb	1.29191	57.17%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	87.5	2.5937 ug/L	0.69624	2.5937 ppb	0.69624	26.84%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.3	-0.2138 ug/L	0.36499	-0.2138 ppb	0.36499	170.73%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	6.2	0.0418 ug/L	0.07659	0.0418 ppb	0.07659	183.38%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-67.7	-0.1020 ug/L	0.07717	-0.1020 ppb	0.07717	75.68%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-2.1	-0.5872 ug/L	0.93115	-0.5872 ppb	0.93115	158.58%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-196.1	-6.3661 ug/L	4.11521	-6.3661 ppb	4.11521	64.64%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-159.5	-1.1082 ug/L	0.50570	-1.1082 ppb	0.50570	45.63%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	27.2	0.2288 ug/L	0.19953	0.2288 ppb	0.19953	87.21%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	53.8	3.4109 ug/L	3.08855	3.4109 ppb	3.08855	90.55%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 33

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 19:37:40

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	3690.7	3690.7	93.2 %		19:39:53
1	Y RADIAL	4024.1	4024.1	88.67 %		19:39:33
1	Al 396.153Radial†	5161.5	5733.9	5127.2 ug/L	5127.2 ppb	19:39:33
1	Ca 317.933Radial†	2470.0	2634.0	5222.2 ug/L	5222.2 ppb	19:39:53
1	Fe 238.204 Radial†	405.4	423.1	5054.2 ug/L	5054.2 ppb	19:39:53
1	K 766.490 Radial†	29498.8	28620.4	4983.8 ug/L	4983.8 ppb	19:39:33
1	Mg 279.077 IEC†	109.1	113.8	4950.1 ug/L	4950.1 ppb	19:39:53
1	Na 589.592 Radial†	27455.0	31043.3	8901.2 ug/L	8901.2 ppb	19:39:33
1	Sr 421.552†	64593.8	69306.2	468.16 ug/L	468.16 ppb	19:39:33
1	Sc 361.383	842055.9	842055.9	97.374 %		19:40:52
1	Y 371.029	654538.4	654538.4	95.960 %		19:40:52
1	Ag 328.068†	105252.0	107654.9	491.85 ug/L	491.85 ppb	19:40:52
1	As 188.979†	1207.3	1275.3	490.70 ug/L	490.70 ppb	19:41:12
1	B 249.677†	21415.8	22600.1	478.00 ug/L	478.00 ppb	19:40:52
1	Ba 233.527†	63051.8	64770.0	489.24 ug/L	489.24 ppb	19:40:52
1	Be 313.107†	1395297.5	1436864.6	491.05 ug/L	491.05 ppb	19:40:52
1	Cd 226.502†	45263.0	46683.1	486.86 ug/L	486.86 ppb	19:40:52
1	Co 228.616†	25200.1	25966.0	482.82 ug/L	482.82 ppb	19:41:12
1	Cr 267.716†	44812.7	45932.0	490.63 ug/L	490.63 ppb	19:40:52
1	Cu 324.752†	172342.7	170141.5	488.36 ug/L	488.36 ppb	19:40:52
1	Mn 257.610†	464729.1	476767.7	488.40 ug/L	488.40 ppb	19:40:52
1	Mo 202.031†	7046.2	7233.4	493.28 ug/L	493.28 ppb	19:41:12
1	Ni 231.604†	20938.1	21419.4	486.39 ug/L	486.39 ppb	19:41:12
1	P 214.914†	4862.9	4759.6	2324.5 ug/L	2324.5 ppb	19:41:12
1	Pb 220.353†	4300.2	4487.4	492.58 ug/L	492.58 ppb	19:41:12
1	S 181.975 Axial†	823.2	793.4	959.14 ug/L	959.14 ppb	19:41:12
1	Sb 206.836†	1571.3	1578.2	503.50 ug/L	503.50 ppb	19:41:12
1	Se 196.026†	844.7	897.0	503.01 ug/L	503.01 ppb	19:41:12
1	Si 251.611†	81108.9	82806.4	2457.7 ug/L	2457.7 ppb	19:40:52
1	Sn 189.927†	2956.9	3019.0	491.06 ug/L	491.06 ppb	19:41:12
1	Ti 334.940†	314649.1	324828.0	498.64 ug/L	498.64 ppb	19:40:52
1	Tl 190.801†	1638.4	1725.8	496.62 ug/L	496.62 ppb	19:41:12
1	U 409.014†	10027.1	14622.3	472.87 ug/L	472.87 ppb	19:40:52
1	V 292.402†	66651.0	70156.0	493.52 ug/L	493.52 ppb	19:40:52
1	Zn 213.857†	56160.9	56930.1	482.73 ug/L	482.73 ppb	19:40:52
1	SiO2†	80692.6	82336.0	5241.6 ug/L	5241.6 ppb	19:42:12
2	Sc Radial	3668.6	3668.6	92.6 %		19:40:18
2	Y RADIAL	4141.0	4141.0	91.24 %		19:39:58
2	Al 396.153Radial†	5202.6	5811.6	5196.9 ug/L	5196.9 ppb	19:39:58
2	Ca 317.933Radial†	2446.9	2625.0	5204.4 ug/L	5204.4 ppb	19:40:18
2	Fe 238.204 Radial†	404.4	424.7	5072.5 ug/L	5072.5 ppb	19:40:18
2	K 766.490 Radial†	29956.5	29304.9	5103.1 ug/L	5103.1 ppb	19:39:58
2	Mg 279.077 IEC†	109.2	114.6	4986.4 ug/L	4986.4 ppb	19:40:18
2	Na 589.592 Radial†	27886.0	31685.8	9085.4 ug/L	9085.4 ppb	19:39:58
2	Sr 421.552†	65558.1	70764.1	478.01 ug/L	478.01 ppb	19:39:58
2	Sc 361.383	846028.4	846028.4	97.834 %		19:41:19
2	Y 371.029	658588.9	658588.9	96.554 %		19:41:19
2	Ag 328.068†	105381.2	107279.4	490.15 ug/L	490.15 ppb	19:41:19
2	As 188.979†	1219.9	1282.3	493.37 ug/L	493.37 ppb	19:41:39
2	B 249.677†	21395.9	22476.4	475.36 ug/L	475.36 ppb	19:41:19
2	Ba 233.527†	63205.0	64622.6	488.12 ug/L	488.12 ppb	19:41:19
2	Be 313.107†	1399865.7	1434805.7	490.35 ug/L	490.35 ppb	19:41:19
2	Cd 226.502†	45200.8	46401.3	483.92 ug/L	483.92 ppb	19:41:19
2	Co 228.616†	25397.7	26046.5	484.32 ug/L	484.32 ppb	19:41:39
2	Cr 267.716†	44727.9	45629.2	487.39 ug/L	487.39 ppb	19:41:19
2	Cu 324.752†	172581.7	169554.7	486.67 ug/L	486.67 ppb	19:41:19
2	Mn 257.610†	465193.2	475001.1	486.59 ug/L	486.59 ppb	19:41:19
2	Mo 202.031†	7104.0	7258.5	494.99 ug/L	494.99 ppb	19:41:39
2	Ni 231.604†	21051.1	21434.1	486.72 ug/L	486.72 ppb	19:41:39

2	P 214.914†	4887.9	4761.7	2325.9 ug/L	2325.9 ppb	19:41:39
2	Pb 220.353†	4326.8	4493.7	493.29 ug/L	493.29 ppb	19:41:39
2	S 181.975 Axial†	830.3	796.7	963.10 ug/L	963.10 ppb	19:41:39
2	Sb 206.836†	1581.0	1580.4	504.21 ug/L	504.21 ppb	19:41:39
2	Se 196.026†	848.8	897.1	503.15 ug/L	503.15 ppb	19:41:39
2	Si 251.611†	81036.2	82341.0	2443.8 ug/L	2443.8 ppb	19:41:19
2	Sn 189.927†	2962.3	3010.3	489.65 ug/L	489.65 ppb	19:41:39
2	Ti 334.940†	315106.6	323778.3	497.02 ug/L	497.02 ppb	19:41:19
2	Tl 190.801†	1626.0	1705.2	490.70 ug/L	490.70 ppb	19:41:39
2	U 409.014†	10001.0	14547.2	470.44 ug/L	470.44 ppb	19:41:19
2	V 292.402†	66771.5	69957.8	492.17 ug/L	492.17 ppb	19:41:19
2	Zn 213.857†	56236.6	56736.7	481.08 ug/L	481.08 ppb	19:41:19
2	SiO2†	81911.8	83193.1	5296.3 ug/L	5296.3 ppb	19:42:17
3	Sc Radial	3669.4	3669.4	92.7 %		19:40:43
3	Y RADIAL	4105.8	4105.8	90.47 %		19:40:23
3	Al 396.153Radial†	5203.2	5811.0	5196.3 ug/L	5196.3 ppb	19:40:23
3	Ca 317.933Radial†	2452.6	2630.5	5215.4 ug/L	5215.4 ppb	19:40:43
3	Fe 238.204 Radial†	400.2	420.0	5017.2 ug/L	5017.2 ppb	19:40:43
3	K 766.490 Radial†	29912.8	29250.5	5093.6 ug/L	5093.6 ppb	19:40:23
3	Mg 279.077 IEC†	112.3	117.9	5130.8 ug/L	5130.8 ppb	19:40:43
3	Na 589.592 Radial†	27937.5	31734.7	9099.4 ug/L	9099.4 ppb	19:40:23
3	Sr 421.552†	65539.6	70728.5	477.77 ug/L	477.77 ppb	19:40:23
3	Sc 361.383	842592.4	842592.4	97.436 %		19:41:46
3	Y 371.029	655910.2	655910.2	96.162 %		19:41:46
3	Ag 328.068†	104921.7	107247.1	489.98 ug/L	489.98 ppb	19:41:46
3	As 188.979†	1207.7	1274.9	490.51 ug/L	490.51 ppb	19:42:06
3	B 249.677†	21355.9	22524.6	476.39 ug/L	476.39 ppb	19:41:46
3	Ba 233.527†	63014.1	64690.0	488.63 ug/L	488.63 ppb	19:41:46
3	Be 313.107†	1393195.1	1433794.7	490.00 ug/L	490.00 ppb	19:41:46
3	Cd 226.502†	45197.4	46586.2	485.85 ug/L	485.85 ppb	19:41:46
3	Co 228.616†	25412.6	26167.6	486.58 ug/L	486.58 ppb	19:42:06
3	Cr 267.716†	44622.7	45707.7	488.23 ug/L	488.23 ppb	19:41:46
3	Cu 324.752†	171534.0	169198.9	485.65 ug/L	485.65 ppb	19:41:46
3	Mn 257.610†	463904.6	475617.6	487.21 ug/L	487.21 ppb	19:41:46
3	Mo 202.031†	7097.3	7281.3	496.54 ug/L	496.54 ppb	19:42:06
3	Ni 231.604†	21076.6	21548.0	489.31 ug/L	489.31 ppb	19:42:06
3	P 214.914†	4894.3	4788.6	2339.8 ug/L	2339.8 ppb	19:42:06
3	Pb 220.353†	4314.5	4499.2	493.89 ug/L	493.89 ppb	19:42:06
3	S 181.975 Axial†	832.6	802.6	970.17 ug/L	970.17 ppb	19:42:06
3	Sb 206.836†	1597.5	1604.0	511.52 ug/L	511.52 ppb	19:42:06
3	Se 196.026†	854.1	906.1	507.82 ug/L	507.82 ppb	19:42:06
3	Si 251.611†	80730.9	82365.4	2444.5 ug/L	2444.5 ppb	19:41:46
3	Sn 189.927†	2955.7	3015.9	490.55 ug/L	490.55 ppb	19:42:06
3	Ti 334.940†	313746.3	323695.7	496.88 ug/L	496.88 ppb	19:41:46
3	Tl 190.801†	1634.5	1720.8	495.15 ug/L	495.15 ppb	19:42:06
3	U 409.014†	10059.3	14648.7	473.74 ug/L	473.74 ppb	19:41:46
3	V 292.402†	66579.9	70039.5	492.77 ug/L	492.77 ppb	19:41:46
3	Zn 213.857†	56233.1	56967.5	483.04 ug/L	483.04 ppb	19:41:46
3	SiO2†	81522.4	83134.9	5292.5 ug/L	5292.5 ppb	19:42:22

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843558.9	97.548 %	0.2493			0.26%
Sc Radial	3676.3	92.8 %	0.32			0.34%
Y 371.029	656345.8	96.225 %	0.3020			0.31%
Y RADIAL	4090.3	90.13 %	1.322			1.47%
Ag 328.068†	107393.8	490.66 ug/L	1.034	490.66 ppb	1.034	0.21%
QC value within limits for Ag 328.068 Recovery = 98.13%						
Al 396.153Radial†	5785.5	5173.4 ug/L	40.09	5173.4 ppb	40.09	0.78%
QC value within limits for Al 396.153Radial Recovery = 103.47%						
As 188.979†	1277.5	491.53 ug/L	1.599	491.53 ppb	1.599	0.33%
QC value within limits for As 188.979 Recovery = 98.31%						
B 249.677†	22533.7	476.58 ug/L	1.328	476.58 ppb	1.328	0.28%
QC value within limits for B 249.677 Recovery = 95.32%						
Ba 233.527†	64694.2	488.66 ug/L	0.557	488.66 ppb	0.557	0.11%
QC value within limits for Ba 233.527 Recovery = 97.73%						
Be 313.107†	1435155.0	490.47 ug/L	0.536	490.47 ppb	0.536	0.11%
QC value within limits for Be 313.107 Recovery = 98.09%						
Ca 317.933Radial†	2629.8	5214.0 ug/L	8.97	5214.0 ppb	8.97	0.17%

QC value within limits for Ca 317.933 Radial Recovery = 104.28%

Cd 226.502†	46556.9	485.54 ug/L	1.495	485.54 ppb	1.495	0.31%
QC value within limits for Cd 226.502 Recovery = 97.11%						
Co 228.616†	26060.0	484.57 ug/L	1.893	484.57 ppb	1.893	0.39%
QC value within limits for Co 228.616 Recovery = 96.91%						
Cr 267.716†	45756.3	488.75 ug/L	1.677	488.75 ppb	1.677	0.34%
QC value within limits for Cr 267.716 Recovery = 97.75%						
Cu 324.752†	169631.7	486.89 ug/L	1.367	486.89 ppb	1.367	0.28%
QC value within limits for Cu 324.752 Recovery = 97.38%						
Fe 238.204 Radial†	422.6	5048.0 ug/L	28.18	5048.0 ppb	28.18	0.56%
QC value within limits for Fe 238.204 Radial Recovery = 100.96%						
K 766.490 Radial†	29058.6	5060.2 ug/L	66.30	5060.2 ppb	66.30	1.31%
QC value within limits for K 766.490 Radial Recovery = 101.20%						
Mg 279.077 IEC†	115.4	5022.5 ug/L	95.60	5022.5 ppb	95.60	1.90%
QC value within limits for Mg 279.077 IEC Recovery = 100.45%						
Mn 257.610†	475795.5	487.40 ug/L	0.919	487.40 ppb	0.919	0.19%
QC value within limits for Mn 257.610 Recovery = 97.48%						
Mo 202.031†	7257.7	494.93 ug/L	1.630	494.93 ppb	1.630	0.33%
QC value within limits for Mo 202.031 Recovery = 98.99%						
Na 589.592 Radial†	31487.9	9028.7 ug/L	110.64	9028.7 ppb	110.64	1.23%
QC value within limits for Na 589.592 Radial Recovery = 90.29%						
Ni 231.604†	21467.2	487.47 ug/L	1.598	487.47 ppb	1.598	0.33%
QC value within limits for Ni 231.604 Recovery = 97.49%						
P 214.914†	4769.9	2330.0 ug/L	8.47	2330.0 ppb	8.47	0.36%
QC value within limits for P 214.914 Recovery = 93.20%						
Pb 220.353†	4493.4	493.25 ug/L	0.660	493.25 ppb	0.660	0.13%
QC value within limits for Pb 220.353 Recovery = 98.65%						
S 181.975 Axial†	797.6	964.14 ug/L	5.587	964.14 ppb	5.587	0.58%
QC value within limits for S 181.975 Axial Recovery = 96.41%						
Sb 206.836†	1587.5	506.41 ug/L	4.442	506.41 ppb	4.442	0.88%
QC value within limits for Sb 206.836 Recovery = 101.28%						
Se 196.026†	900.1	504.66 ug/L	2.737	504.66 ppb	2.737	0.54%
QC value within limits for Se 196.026 Recovery = 100.93%						
Si 251.611†	82504.3	2448.7 ug/L	7.81	2448.7 ppb	7.81	0.32%
QC value within limits for Si 251.611 Recovery = 97.95%						
Sn 189.927†	3015.1	490.42 ug/L	0.716	490.42 ppb	0.716	0.15%
QC value within limits for Sn 189.927 Recovery = 98.08%						
Sr 421.552†	70266.3	474.64 ug/L	5.618	474.64 ppb	5.618	1.18%
QC value within limits for Sr 421.552 Recovery = 94.93%						
Ti 334.940†	324100.7	497.51 ug/L	0.975	497.51 ppb	0.975	0.20%
QC value within limits for Ti 334.940 Recovery = 99.50%						
Tl 190.801†	1717.2	494.16 ug/L	3.081	494.16 ppb	3.081	0.62%
QC value within limits for Tl 190.801 Recovery = 98.83%						
U 409.014†	14606.1	472.35 ug/L	1.709	472.35 ppb	1.709	0.36%
QC value within limits for U 409.014 Recovery = 94.47%						
V 292.402†	70051.1	492.82 ug/L	0.679	492.82 ppb	0.679	0.14%
QC value within limits for V 292.402 Recovery = 98.56%						
Zn 213.857†	56878.1	482.28 ug/L	1.057	482.28 ppb	1.057	0.22%
QC value within limits for Zn 213.857 Recovery = 96.46%						
SiO2†	82888.0	5276.8 ug/L	30.53	5276.8 ppb	30.53	0.58%
QC value within limits for SiO2 Recovery = 98.68%						

All analyte(s) passed QC.

Sequence No.: 34
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 2/3/2010 19:44:32
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3707.5	3707.5	93.6 %		19:46:45
1	Y RADIAL	4162.2	4162.2	91.71 %		19:46:25
1	Al 396.153Radial†	-179.3	4.3	3.8000 ug/L	3.8000 ppb	19:46:25
1	Ca 317.933Radial†	15.7	0.5	0.9405 ug/L	0.9405 ppb	19:46:45
1	Fe 238.204 Radial†	12.1	1.1	13.068 ug/L	13.068 ppb	19:46:45
1	K 766.490 Radial†	3101.2	281.7	49.119 ug/L	49.119 ppb	19:46:25
1	Mg 279.077 IEC†	0.4	-2.9	-125.07 ug/L	-125.07 ppb	19:46:45
1	Na 589.592 Radial†	-1572.8	-94.8	-27.175 ug/L	-27.175 ppb	19:46:25
1	Sr 421.552†	-24.6	-26.7	-0.1807 ug/L	-0.1807 ppb	19:46:25
1	Sc 361.383	851426.8	851426.8	98.458 %		19:47:42
1	Y 371.029	670972.5	670972.5	98.370 %		19:47:42
1	Ag 328.068†	469.0	41.2	0.1916 ug/L	0.1916 ppb	19:47:42
1	As 188.979†	-22.6	12.5	4.7703 ug/L	4.7703 ppb	19:48:02
1	B 249.677†	-402.5	198.0	4.2062 ug/L	4.2062 ppb	19:47:42
1	Ba 233.527†	-17.0	0.8	0.0045 ug/L	0.0045 ppb	19:48:02
1	Be 313.107†	-3841.2	42.7	0.0146 ug/L	0.0146 ppb	19:47:42
1	Cd 226.502†	-212.7	-16.4	-0.1735 ug/L	-0.1735 ppb	19:48:02
1	Co 228.616†	-101.8	-17.0	-0.3149 ug/L	-0.3149 ppb	19:48:02
1	Cr 267.716†	115.1	27.9	0.2982 ug/L	0.2982 ppb	19:47:42
1	Cu 324.752†	6805.7	64.0	0.1867 ug/L	0.1867 ppb	19:47:42
1	Mn 257.610†	549.0	65.1	0.0731 ug/L	0.0731 ppb	19:48:02
1	Mo 202.031†	12.7	10.1	0.6895 ug/L	0.6895 ppb	19:48:02
1	Ni 231.604†	86.4	4.6	0.1047 ug/L	0.1047 ppb	19:48:02
1	P 214.914†	226.6	-4.3	-2.2317 ug/L	-2.2317 ppb	19:48:02
1	Pb 220.353†	-70.4	-0.3	-0.0290 ug/L	-0.0290 ppb	19:48:02
1	S 181.975 Axial†	50.7	-0.4	-0.4930 ug/L	-0.4930 ppb	19:48:02
1	Sb 206.836†	41.2	6.3	1.9556 ug/L	1.9556 ppb	19:48:02
1	Se 196.026†	-21.6	7.6	4.1518 ug/L	4.1518 ppb	19:48:02
1	Si 251.611†	546.8	65.9	1.9508 ug/L	1.9508 ppb	19:48:02
1	Sn 189.927†	20.0	2.7	0.4362 ug/L	0.4362 ppb	19:48:02
1	Ti 334.940†	-1663.9	4.6	0.0191 ug/L	0.0191 ppb	19:47:42
1	Tl 190.801†	-36.4	6.2	1.7886 ug/L	1.7886 ppb	19:48:02
1	U 409.014†	-4379.5	-123.3	-4.0035 ug/L	-4.0035 ppb	19:47:42
1	V 292.402†	-1788.2	-108.3	-0.7544 ug/L	-0.7544 ppb	19:47:42
1	Zn 213.857†	733.8	0.2	-0.0007 ug/L	-0.0007 ppb	19:48:02
1	SiO2†	560.1	36.4	2.3044 ug/L	2.3044 ppb	19:48:58
2	Sc Radial	3742.4	3742.4	94.5 %		19:47:10
2	Y RADIAL	4167.8	4167.8	91.83 %		19:46:50
2	Al 396.153Radial†	-196.6	-12.2	-11.007 ug/L	-11.007 ppb	19:46:50
2	Ca 317.933Radial†	17.8	2.6	5.0906 ug/L	5.0906 ppb	19:47:10
2	Fe 238.204 Radial†	9.4	-1.9	-22.330 ug/L	-22.330 ppb	19:47:10
2	K 766.490 Radial†	3121.7	272.5	47.509 ug/L	47.509 ppb	19:46:50
2	Mg 279.077 IEC†	-0.2	-3.5	-153.94 ug/L	-153.94 ppb	19:47:10
2	Na 589.592 Radial†	-1537.3	-41.5	-11.911 ug/L	-11.911 ppb	19:46:50
2	Sr 421.552†	36.7	38.4	0.2594 ug/L	0.2594 ppb	19:46:50
2	Sc 361.383	845623.0	845623.0	97.787 %		19:48:08
2	Y 371.029	667555.1	667555.1	97.869 %		19:48:08
2	Ag 328.068†	475.4	51.0	0.2229 ug/L	0.2229 ppb	19:48:08
2	As 188.979†	-31.4	3.3	1.2610 ug/L	1.2610 ppb	19:48:28
2	B 249.677†	-484.6	111.3	2.3683 ug/L	2.3683 ppb	19:48:08
2	Ba 233.527†	-12.8	4.9	0.0348 ug/L	0.0348 ppb	19:48:28
2	Be 313.107†	-3812.1	45.8	0.0153 ug/L	0.0153 ppb	19:48:08
2	Cd 226.502†	-183.2	12.3	0.1301 ug/L	0.1301 ppb	19:48:28
2	Co 228.616†	-91.7	-7.4	-0.1370 ug/L	-0.1370 ppb	19:48:28
2	Cr 267.716†	93.7	6.8	0.0722 ug/L	0.0722 ppb	19:48:08
2	Cu 324.752†	6877.2	184.5	0.5297 ug/L	0.5297 ppb	19:48:08
2	Mn 257.610†	565.9	86.3	0.0924 ug/L	0.0924 ppb	19:48:28
2	Mo 202.031†	5.1	2.4	0.1622 ug/L	0.1622 ppb	19:48:28
2	Ni 231.604†	95.3	14.3	0.3249 ug/L	0.3249 ppb	19:48:28

2	P 214.914†	227.1	-2.2	-1.2376 ug/L	-1.2376 ppb	19:48:28
2	Pb 220.353†	-83.7	-14.4	-1.5803 ug/L	-1.5803 ppb	19:48:28
2	S 181.975 Axial†	47.8	-3.0	-3.6752 ug/L	-3.6752 ppb	19:48:28
2	Sb 206.836†	33.7	-1.1	-0.3612 ug/L	-0.3612 ppb	19:48:28
2	Se 196.026†	-24.2	4.8	2.5360 ug/L	2.5360 ppb	19:48:28
2	Si 251.611†	535.0	57.6	1.7106 ug/L	1.7106 ppb	19:48:28
2	Sn 189.927†	5.5	-12.0	-1.9455 ug/L	-1.9455 ppb	19:48:28
2	Ti 334.940†	-1747.2	-92.1	-0.1273 ug/L	-0.1273 ppb	19:48:08
2	Tl 190.801†	-37.6	4.8	1.3743 ug/L	1.3743 ppb	19:48:28
2	U 409.014†	-4296.2	-68.7	-2.2275 ug/L	-2.2275 ppb	19:48:08
2	V 292.402†	-1769.0	-101.2	-0.7042 ug/L	-0.7042 ppb	19:48:08
2	Zn 213.857†	718.0	-10.9	-0.0937 ug/L	-0.0937 ppb	19:48:28
2	SiO2†	540.7	20.5	1.3039 ug/L	1.3039 ppb	19:49:03
3	Sc Radial	3779.1	3779.1	95.4 %		19:47:35
3	Y RADIAL	4087.9	4087.9	90.07 %		19:47:15
3	Al 396.153Radial†	-212.3	-26.7	-23.957 ug/L	-23.957 ppb	19:47:15
3	Ca 317.933Radial†	16.7	1.2	2.4353 ug/L	2.4353 ppb	19:47:35
3	Fe 238.204 Radial†	12.6	1.4	16.523 ug/L	16.523 ppb	19:47:35
3	K 766.490 Radial†	3129.8	248.9	43.386 ug/L	43.386 ppb	19:47:15
3	Mg 279.077 IEC†	1.3	-1.9	-82.355 ug/L	-82.355 ppb	19:47:35
3	Na 589.592 Radial†	-1509.8	3.1	0.8908 ug/L	0.8908 ppb	19:47:15
3	Sr 421.552†	-5.6	-6.3	-0.0427 ug/L	-0.0427 ppb	19:47:15
3	Sc 361.383	854690.8	854690.8	98.835 %		19:48:33
3	Y 371.029	674119.4	674119.4	98.831 %		19:48:33
3	Ag 328.068†	365.4	-65.4	-0.2930 ug/L	-0.2930 ppb	19:48:33
3	As 188.979†	-27.2	7.9	3.0309 ug/L	3.0309 ppb	19:48:53
3	B 249.677†	-443.6	158.0	3.3536 ug/L	3.3536 ppb	19:48:33
3	Ba 233.527†	-5.9	12.1	0.0906 ug/L	0.0906 ppb	19:48:53
3	Be 313.107†	-3860.7	37.9	0.0127 ug/L	0.0127 ppb	19:48:33
3	Cd 226.502†	-213.6	-16.5	-0.1742 ug/L	-0.1742 ppb	19:48:53
3	Co 228.616†	-86.1	-0.7	-0.0133 ug/L	-0.0133 ppb	19:48:53
3	Cr 267.716†	83.2	-4.9	-0.0525 ug/L	-0.0525 ppb	19:48:33
3	Cu 324.752†	6823.0	55.1	0.1591 ug/L	0.1591 ppb	19:48:33
3	Mn 257.610†	526.7	40.5	0.0465 ug/L	0.0465 ppb	19:48:53
3	Mo 202.031†	4.2	1.4	0.0975 ug/L	0.0975 ppb	19:48:53
3	Ni 231.604†	85.9	3.7	0.0841 ug/L	0.0841 ppb	19:48:53
3	P 214.914†	233.0	1.3	0.6196 ug/L	0.6196 ppb	19:48:53
3	Pb 220.353†	-57.9	12.6	1.3764 ug/L	1.3764 ppb	19:48:53
3	S 181.975 Axial†	46.3	-5.0	-6.0923 ug/L	-6.0923 ppb	19:48:53
3	Sb 206.836†	44.8	9.8	3.0277 ug/L	3.0277 ppb	19:48:53
3	Se 196.026†	-25.5	3.7	2.0570 ug/L	2.0570 ppb	19:48:53
3	Si 251.611†	568.7	85.9	2.5545 ug/L	2.5545 ppb	19:48:53
3	Sn 189.927†	22.1	4.7	0.7700 ug/L	0.7700 ppb	19:48:53
3	Ti 334.940†	-1747.2	-73.2	-0.1051 ug/L	-0.1051 ppb	19:48:33
3	Tl 190.801†	-37.7	5.0	1.4400 ug/L	1.4400 ppb	19:48:53
3	U 409.014†	-4282.9	-8.6	-0.2814 ug/L	-0.2814 ppb	19:48:33
3	V 292.402†	-1753.1	-65.9	-0.4606 ug/L	-0.4606 ppb	19:48:33
3	Zn 213.857†	738.6	2.2	0.0162 ug/L	0.0162 ppb	19:48:53
3	SiO2†	543.7	17.6	1.1235 ug/L	1.1235 ppb	19:49:08

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	850580.2	98.360 %	0.5311			0.54%
Sc Radial	3743.0	94.5 %	0.90			0.96%
Y 371.029	670882.4	98.357 %	0.4813			0.49%
Y RADIAL	4139.3	91.21 %	0.983			1.08%
Ag 328.068†	8.9	0.0405 ug/L	0.28922	0.0405 ppb	0.28922	714.18%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-11.5	-10.388 ug/L	13.8890	-10.388 ppb	13.8890	133.70%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.9	3.0207 ug/L	1.75469	3.0207 ppb	1.75469	58.09%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	155.8	3.3094 ug/L	0.91977	3.3094 ppb	0.91977	27.79%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.9	0.0433 ug/L	0.04367	0.0433 ppb	0.04367	100.79%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	42.1	0.0142 ug/L	0.00136	0.0142 ppb	0.00136	9.56%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.4	2.8221 ug/L	2.10193	2.8221 ppb	2.10193	74.48%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-6.9	-0.0725 ug/L	0.17551	-0.0725 ppb	0.17551	242.00%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-8.4	-0.1551 ug/L	0.15158	-0.1551 ppb	0.15158	97.74%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	9.9	0.1060 ug/L	0.17777	0.1060 ppb	0.17777	167.78%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	101.2	0.2918 ug/L	0.20648	0.2918 ppb	0.20648	70.75%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.2	2.4205 ug/L	21.50377	2.4205 ppb	21.50377	888.41%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	267.7	46.671 ug/L	2.9566	46.671 ppb	2.9566	6.33%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-2.8	-120.46 ug/L	36.017	-120.46 ppb	36.017	29.90%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	64.0	0.0707 ug/L	0.02308	0.0707 ppb	0.02308	32.66%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.6	0.3164 ug/L	0.32471	0.3164 ppb	0.32471	102.63%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-44.4	-12.732 ug/L	14.0510	-12.732 ppb	14.0510	110.36%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	7.5	0.1712 ug/L	0.13348	0.1712 ppb	0.13348	77.95%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-1.7	-0.9499 ug/L	1.44729	-0.9499 ppb	1.44729	152.36%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-0.7	-0.0777 ug/L	1.47894	-0.0777 ppb	1.47894	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-2.8	-3.4202 ug/L	2.80836	-3.4202 ppb	2.80836	82.11%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.0	1.5407 ug/L	1.73214	1.5407 ppb	1.73214	112.42%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.4	2.9149 ug/L	1.09759	2.9149 ppb	1.09759	37.65%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	69.8	2.0720 ug/L	0.43478	2.0720 ppb	0.43478	20.98%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-1.5	-0.2465 ug/L	1.48086	-0.2465 ppb	1.48086	600.88%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	1.8	0.0120 ug/L	0.22506	0.0120 ppb	0.22506	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-53.6	-0.0711 ug/L	0.07888	-0.0711 ppb	0.07888	110.92%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	5.4	1.5343 ug/L	0.22269	1.5343 ppb	0.22269	14.51%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-66.9	-2.1708 ug/L	1.86166	-2.1708 ppb	1.86166	85.76%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-91.8	-0.6397 ug/L	0.15717	-0.6397 ppb	0.15717	24.57%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-2.8	-0.0261 ug/L	0.05919	-0.0261 ppb	0.05919	227.15%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	24.8	1.5772 ug/L	0.63614	1.5772 ppb	0.63614	40.33%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 45
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 2/3/2010 21:02:14
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3655.4	3655.4	92.3 %		21:04:26
1	Y RADIAL	3915.8	3915.8	86.28 %		21:04:06
1	Al 396.153Radial†	5200.9	5830.1	5213.0 ug/L	5213.0 ppb	21:04:06
1	Ca 317.933Radial†	2471.8	2661.5	5276.7 ug/L	5276.7 ppb	21:04:26
1	Fe 238.204 Radial†	417.0	439.9	5254.4 ug/L	5254.4 ppb	21:04:26
1	K 766.490 Radial†	29876.8	29335.9	5108.3 ug/L	5108.3 ppb	21:04:06
1	Mg 279.077 IEC†	118.6	125.1	5445.5 ug/L	5445.5 ppb	21:04:26
1	Na 589.592 Radial†	29201.7	33220.3	9525.4 ug/L	9525.4 ppb	21:04:06
1	Sr 421.552†	66993.1	72575.6	490.24 ug/L	490.24 ppb	21:04:06
1	Sc 361.383	827805.1	827805.1	95.726 %		21:05:25
1	Y 371.029	646253.1	646253.1	94.746 %		21:05:25
1	Ag 328.068†	104081.2	108292.6	494.83 ug/L	494.83 ppb	21:05:25
1	As 188.979†	1221.2	1311.2	504.44 ug/L	504.44 ppb	21:05:45
1	B 249.677†	20950.1	22492.1	475.65 ug/L	475.65 ppb	21:05:25
1	Ba 233.527†	62451.9	65258.0	492.93 ug/L	492.93 ppb	21:05:25
1	Be 313.107†	1383557.7	1449268.8	495.29 ug/L	495.29 ppb	21:05:25
1	Cd 226.502†	44469.8	46654.8	486.55 ug/L	486.55 ppb	21:05:45
1	Co 228.616†	25228.4	26441.1	491.67 ug/L	491.67 ppb	21:05:45
1	Cr 267.716†	44460.0	46355.8	495.16 ug/L	495.16 ppb	21:05:25
1	Cu 324.752†	170199.3	170949.3	490.68 ug/L	490.68 ppb	21:05:25
1	Mn 257.610†	459433.3	479451.6	491.15 ug/L	491.15 ppb	21:05:25
1	Mo 202.031†	7097.2	7411.2	505.41 ug/L	505.41 ppb	21:05:45
1	Ni 231.604†	21002.5	21856.9	496.32 ug/L	496.32 ppb	21:05:45
1	P 214.914†	4857.2	4839.6	2364.6 ug/L	2364.6 ppb	21:05:45
1	Pb 220.353†	4313.0	4576.8	502.38 ug/L	502.38 ppb	21:05:45
1	S 181.975 Axial†	827.8	812.9	982.63 ug/L	982.63 ppb	21:05:45
1	Sb 206.836†	1554.9	1588.8	507.13 ug/L	507.13 ppb	21:05:45
1	Se 196.026†	844.4	911.7	511.61 ug/L	511.61 ppb	21:05:45
1	Si 251.611†	80114.7	83201.8	2469.3 ug/L	2469.3 ppb	21:05:25
1	Sn 189.927†	2950.4	3064.4	498.45 ug/L	498.45 ppb	21:05:45
1	Ti 334.940†	311142.1	326727.2	501.52 ug/L	501.52 ppb	21:05:25
1	Tl 190.801†	1629.4	1745.4	502.21 ug/L	502.21 ppb	21:05:45
1	U 409.014†	9853.3	14617.9	472.70 ug/L	472.70 ppb	21:05:25
1	V 292.402†	66300.9	70968.6	499.31 ug/L	499.31 ppb	21:05:25
1	Zn 213.857†	55316.3	57040.7	483.59 ug/L	483.59 ppb	21:05:25
1	SiO2†	81291.3	84388.0	5372.3 ug/L	5372.3 ppb	21:06:45
2	Sc Radial	3697.6	3697.6	93.4 %		21:04:51
2	Y RADIAL	4320.7	4320.7	95.20 %		21:04:31
2	Al 396.153Radial†	5149.5	5710.8	5106.5 ug/L	5106.5 ppb	21:04:31
2	Ca 317.933Radial†	2496.5	2657.4	5268.6 ug/L	5268.6 ppb	21:04:51
2	Fe 238.204 Radial†	423.7	441.9	5277.7 ug/L	5277.7 ppb	21:04:51
2	K 766.490 Radial†	29822.3	28907.7	5033.7 ug/L	5033.7 ppb	21:04:31
2	Mg 279.077 IEC†	116.9	121.9	5306.1 ug/L	5306.1 ppb	21:04:51
2	Na 589.592 Radial†	29354.1	33022.1	9468.6 ug/L	9468.6 ppb	21:04:31
2	Sr 421.552†	66700.9	71433.5	482.53 ug/L	482.53 ppb	21:04:31
2	Sc 361.383	852579.6	852579.6	98.591 %		21:05:53
2	Y 371.029	664482.8	664482.8	97.418 %		21:05:53
2	Ag 328.068†	105961.0	107039.9	489.13 ug/L	489.13 ppb	21:05:53
2	As 188.979†	1221.1	1274.0	490.24 ug/L	490.24 ppb	21:06:13
2	B 249.677†	21606.9	22522.4	476.32 ug/L	476.32 ppb	21:05:53
2	Ba 233.527†	63472.1	64397.0	486.43 ug/L	486.43 ppb	21:05:53
2	Be 313.107†	1410251.6	1434345.4	490.19 ug/L	490.19 ppb	21:05:53
2	Cd 226.502†	44643.3	45480.8	474.29 ug/L	474.29 ppb	21:06:13
2	Co 228.616†	25324.3	25772.5	479.22 ug/L	479.22 ppb	21:06:13
2	Cr 267.716†	45172.6	45729.0	488.46 ug/L	488.46 ppb	21:05:53
2	Cu 324.752†	173231.1	168857.9	484.69 ug/L	484.69 ppb	21:05:53
2	Mn 257.610†	467359.0	473544.2	485.11 ug/L	485.11 ppb	21:05:53
2	Mo 202.031†	7104.0	7202.7	491.21 ug/L	491.21 ppb	21:06:13
2	Ni 231.604†	21090.0	21308.1	483.86 ug/L	483.86 ppb	21:06:13

2	P 214.914†	4864.2	4699.2	2294.3 ug/L	2294.3 ppb	21:06:13
2	Pb 220.353†	4326.1	4459.1	489.46 ug/L	489.46 ppb	21:06:13
2	S 181.975 Axial†	835.9	795.9	962.17 ug/L	962.17 ppb	21:06:13
2	Sb 206.836†	1575.4	1562.4	498.51 ug/L	498.51 ppb	21:06:13
2	Se 196.026†	844.6	886.2	497.82 ug/L	497.82 ppb	21:06:13
2	Si 251.611†	81499.3	82174.2	2438.9 ug/L	2438.9 ppb	21:05:53
2	Sn 189.927†	2962.8	2987.5	485.96 ug/L	485.96 ppb	21:06:13
2	Ti 334.940†	316170.0	322382.0	494.86 ug/L	494.86 ppb	21:05:53
2	Tl 190.801†	1629.2	1695.7	487.99 ug/L	487.99 ppb	21:06:13
2	U 409.014†	9967.2	14434.4	466.75 ug/L	466.75 ppb	21:05:53
2	V 292.402†	67271.2	69940.2	491.96 ug/L	491.96 ppb	21:05:53
2	Zn 213.857†	56551.1	56614.1	480.03 ug/L	480.03 ppb	21:05:53
2	SiO2†	81289.5	81918.6	5215.0 ug/L	5215.0 ppb	21:06:51
3	Sc Radial	3666.2	3666.2	92.6 %		21:05:16
3	Y RADIAL	4130.9	4130.9	91.02 %		21:04:56
3	Al 396.153Radial†	5195.1	5807.3	5193.5 ug/L	5193.5 ppb	21:04:56
3	Ca 317.933Radial†	2471.8	2653.6	5261.0 ug/L	5261.0 ppb	21:05:16
3	Fe 238.204 Radial†	414.8	436.3	5210.2 ug/L	5210.2 ppb	21:05:16
3	K 766.490 Radial†	29826.7	29186.3	5082.3 ug/L	5082.3 ppb	21:04:56
3	Mg 279.077 IEC†	115.4	121.4	5283.0 ug/L	5283.0 ppb	21:05:16
3	Na 589.592 Radial†	29338.6	33274.9	9541.0 ug/L	9541.0 ppb	21:04:56
3	Sr 421.552†	67154.7	72535.9	489.98 ug/L	489.98 ppb	21:04:56
3	Sc 361.383	859254.2	859254.2	99.363 %		21:06:20
3	Y 371.029	667773.8	667773.8	97.901 %		21:06:20
3	Ag 328.068†	106518.0	106765.6	487.86 ug/L	487.86 ppb	21:06:20
3	As 188.979†	1210.5	1253.8	482.49 ug/L	482.49 ppb	21:06:40
3	B 249.677†	21569.8	22314.9	471.93 ug/L	471.93 ppb	21:06:20
3	Ba 233.527†	63667.5	64093.6	484.14 ug/L	484.14 ppb	21:06:20
3	Be 313.107†	1412097.4	1425091.8	487.03 ug/L	487.03 ppb	21:06:20
3	Cd 226.502†	44546.1	45031.2	469.61 ug/L	469.61 ppb	21:06:40
3	Co 228.616†	25288.9	25537.4	474.84 ug/L	474.84 ppb	21:06:40
3	Cr 267.716†	45200.9	45401.5	484.97 ug/L	484.97 ppb	21:06:20
3	Cu 324.752†	174167.9	168435.9	483.47 ug/L	483.47 ppb	21:06:20
3	Mn 257.610†	469685.4	472203.3	483.73 ug/L	483.73 ppb	21:06:20
3	Mo 202.031†	7074.3	7116.8	485.35 ug/L	485.35 ppb	21:06:40
3	Ni 231.604†	21025.9	21077.4	478.62 ug/L	478.62 ppb	21:06:40
3	P 214.914†	4883.7	4680.6	2285.1 ug/L	2285.1 ppb	21:06:40
3	Pb 220.353†	4310.1	4408.9	483.98 ug/L	483.98 ppb	21:06:40
3	S 181.975 Axial†	824.9	778.3	940.76 ug/L	940.76 ppb	21:06:40
3	Sb 206.836†	1570.2	1544.7	492.91 ug/L	492.91 ppb	21:06:40
3	Se 196.026†	848.5	883.4	496.12 ug/L	496.12 ppb	21:06:40
3	Si 251.611†	82018.8	82054.9	2435.4 ug/L	2435.4 ppb	21:06:20
3	Sn 189.927†	2966.9	2968.3	482.84 ug/L	482.84 ppb	21:06:40
3	Ti 334.940†	317788.8	321520.1	493.54 ug/L	493.54 ppb	21:06:20
3	Tl 190.801†	1624.7	1678.3	483.02 ug/L	483.02 ppb	21:06:40
3	U 409.014†	10074.9	14464.2	467.74 ug/L	467.74 ppb	21:06:20
3	V 292.402†	67508.3	69648.8	489.87 ug/L	489.87 ppb	21:06:20
3	Zn 213.857†	56783.4	56402.3	478.26 ug/L	478.26 ppb	21:06:20
3	SiO2†	81389.1	81378.3	5180.7 ug/L	5180.7 ppb	21:06:56

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	846546.3	97.894 %	1.9161			1.96%
Sc Radial	3673.1	92.8 %	0.55			0.60%
Y 371.029	659503.3	96.688 %	1.6995			1.76%
Y RADIAL	4122.5	90.83 %	4.464			4.91%
Ag 328.068†	107366.0	490.61 ug/L	3.716	490.61 ppb	3.716	0.76%
QC value within limits for Ag 328.068 Recovery = 98.12%						
Al 396.153Radial†	5782.7	5171.0 ug/L	56.71	5171.0 ppb	56.71	1.10%
QC value within limits for Al 396.153Radial Recovery = 103.42%						
As 188.979†	1279.7	492.39 ug/L	11.129	492.39 ppb	11.129	2.26%
QC value within limits for As 188.979 Recovery = 98.48%						
B 249.677†	22443.1	474.63 ug/L	2.362	474.63 ppb	2.362	0.50%
QC value within limits for B 249.677 Recovery = 94.93%						
Ba 233.527†	64582.8	487.83 ug/L	4.562	487.83 ppb	4.562	0.94%
QC value within limits for Ba 233.527 Recovery = 97.57%						
Be 313.107†	1436235.3	490.84 ug/L	4.169	490.84 ppb	4.169	0.85%
QC value within limits for Be 313.107 Recovery = 98.17%						
Ca 317.933Radial†	2657.5	5268.8 ug/L	7.85	5268.8 ppb	7.85	0.15%

QC value within limits for Ca 317.933 Radial Recovery = 105.38%							
Cd 226.502†	45722.3	476.82 ug/L	8.749	476.82 ppb	8.749	1.83%	
QC value within limits for Cd 226.502 Recovery = 95.36%							
Co 228.616†	25917.0	481.91 ug/L	8.732	481.91 ppb	8.732	1.81%	
QC value within limits for Co 228.616 Recovery = 96.38%							
Cr 267.716†	45828.8	489.53 ug/L	5.179	489.53 ppb	5.179	1.06%	
QC value within limits for Cr 267.716 Recovery = 97.91%							
Cu 324.752†	169414.4	486.28 ug/L	3.862	486.28 ppb	3.862	0.79%	
QC value within limits for Cu 324.752 Recovery = 97.26%							
Fe 238.204 Radial†	439.4	5247.4 ug/L	34.33	5247.4 ppb	34.33	0.65%	
QC value within limits for Fe 238.204 Radial Recovery = 104.95%							
K 766.490 Radial†	29143.3	5074.8 ug/L	37.86	5074.8 ppb	37.86	0.75%	
QC value within limits for K 766.490 Radial Recovery = 101.50%							
Mg 279.077 IEC†	122.8	5344.9 ug/L	87.93	5344.9 ppb	87.93	1.65%	
QC value within limits for Mg 279.077 IEC Recovery = 106.90%							
Mn 257.610†	475066.4	486.66 ug/L	3.946	486.66 ppb	3.946	0.81%	
QC value within limits for Mn 257.610 Recovery = 97.33%							
Mo 202.031†	7243.6	493.99 ug/L	10.316	493.99 ppb	10.316	2.09%	
QC value within limits for Mo 202.031 Recovery = 98.80%							
Na 589.592 Radial†	33172.5	9511.7 ug/L	38.14	9511.7 ppb	38.14	0.40%	
QC value within limits for Na 589.592 Radial Recovery = 95.12%							
Ni 231.604†	21414.2	486.27 ug/L	9.093	486.27 ppb	9.093	1.87%	
QC value within limits for Ni 231.604 Recovery = 97.25%							
P 214.914†	4739.8	2314.7 ug/L	43.50	2314.7 ppb	43.50	1.88%	
QC value within limits for P 214.914 Recovery = 92.59%							
Pb 220.353†	4481.6	491.94 ug/L	9.450	491.94 ppb	9.450	1.92%	
QC value within limits for Pb 220.353 Recovery = 98.39%							
S 181.975 Axial†	795.7	961.85 ug/L	20.940	961.85 ppb	20.940	2.18%	
QC value within limits for S 181.975 Axial Recovery = 96.19%							
Sb 206.836†	1565.3	499.52 ug/L	7.167	499.52 ppb	7.167	1.43%	
QC value within limits for Sb 206.836 Recovery = 99.90%							
Se 196.026†	893.7	501.85 ug/L	8.491	501.85 ppb	8.491	1.69%	
QC value within limits for Se 196.026 Recovery = 100.37%							
Si 251.611†	82477.0	2447.9 ug/L	18.64	2447.9 ppb	18.64	0.76%	
QC value within limits for Si 251.611 Recovery = 97.92%							
Sn 189.927†	3006.7	489.08 ug/L	8.264	489.08 ppb	8.264	1.69%	
QC value within limits for Sn 189.927 Recovery = 97.82%							
Sr 421.552†	72181.7	487.58 ug/L	4.379	487.58 ppb	4.379	0.90%	
QC value within limits for Sr 421.552 Recovery = 97.52%							
Ti 334.940†	323543.1	496.64 ug/L	4.276	496.64 ppb	4.276	0.86%	
QC value within limits for Ti 334.940 Recovery = 99.33%							
Tl 190.801†	1706.5	491.07 ug/L	9.958	491.07 ppb	9.958	2.03%	
QC value within limits for Tl 190.801 Recovery = 98.21%							
U 409.014†	14505.5	469.06 ug/L	3.187	469.06 ppb	3.187	0.68%	
QC value within limits for U 409.014 Recovery = 93.81%							
V 292.402†	70185.9	493.71 ug/L	4.957	493.71 ppb	4.957	1.00%	
QC value within limits for V 292.402 Recovery = 98.74%							
Zn 213.857†	56685.7	480.63 ug/L	2.717	480.63 ppb	2.717	0.57%	
QC value within limits for Zn 213.857 Recovery = 96.13%							
SiO2†	82561.6	5256.0 ug/L	102.13	5256.0 ppb	102.13	1.94%	
QC value within limits for SiO2 Recovery = 98.29%							
All analyte(s) passed QC.							

Sequence No.: 46
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 2/3/2010 21:09:05
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3691.2	3691.2	93.2 %		21:11:17
1	Y RADIAL	4160.0	4160.0	91.66 %		21:10:57
1	Al 396.153Radial†	-202.2	-21.1	-18.935 ug/L	-18.935 ppb	21:10:57
1	Ca 317.933Radial†	12.1	-3.3	-6.5804 ug/L	-6.5804 ppb	21:11:17
1	Fe 238.204 Radial†	12.3	1.4	16.749 ug/L	16.749 ppb	21:11:17
1	K 766.490 Radial†	3154.7	353.7	61.682 ug/L	61.682 ppb	21:10:57
1	Mg 279.077 IEC†	0.9	-2.3	-101.32 ug/L	-101.32 ppb	21:11:17
1	Na 589.592 Radial†	-1566.9	-95.9	-27.484 ug/L	-27.484 ppb	21:10:57
1	Sr 421.552†	22.1	23.3	0.1575 ug/L	0.1575 ppb	21:10:57
1	Sc 361.383	844149.0	844149.0	97.616 %		21:12:14
1	Y 371.029	668405.6	668405.6	97.993 %		21:12:14
1	Ag 328.068†	406.9	-18.3	-0.0807 ug/L	-0.0807 ppb	21:12:14
1	As 188.979†	-27.7	7.0	2.6910 ug/L	2.6910 ppb	21:12:34
1	B 249.677†	-491.8	103.0	2.1856 ug/L	2.1856 ppb	21:12:14
1	Ba 233.527†	-7.6	10.2	0.0757 ug/L	0.0757 ppb	21:12:34
1	Be 313.107†	-3809.0	42.1	0.0144 ug/L	0.0144 ppb	21:12:14
1	Cd 226.502†	-198.0	-3.2	-0.0344 ug/L	-0.0344 ppb	21:12:34
1	Co 228.616†	-70.1	14.6	0.2718 ug/L	0.2718 ppb	21:12:34
1	Cr 267.716†	63.9	-23.6	-0.2525 ug/L	-0.2525 ppb	21:12:14
1	Cu 324.752†	6936.2	257.3	0.7392 ug/L	0.7392 ppb	21:12:14
1	Mn 257.610†	543.6	64.5	0.0718 ug/L	0.0718 ppb	21:12:34
1	Mo 202.031†	8.0	5.3	0.3655 ug/L	0.3655 ppb	21:12:34
1	Ni 231.604†	104.2	23.5	0.5348 ug/L	0.5348 ppb	21:12:34
1	P 214.914†	235.7	7.0	3.3839 ug/L	3.3839 ppb	21:12:34
1	Pb 220.353†	-83.9	-14.7	-1.6161 ug/L	-1.6161 ppb	21:12:34
1	S 181.975 Axial†	41.4	-9.5	-11.545 ug/L	-11.545 ppb	21:12:34
1	Sb 206.836†	53.8	19.5	6.0040 ug/L	6.0040 ppb	21:12:34
1	Se 196.026†	-31.3	-2.5	-1.3210 ug/L	-1.3210 ppb	21:12:34
1	Si 251.611†	560.3	84.4	2.5068 ug/L	2.5068 ppb	21:12:34
1	Sn 189.927†	11.7	-5.6	-0.9125 ug/L	-0.9125 ppb	21:12:34
1	Ti 334.940†	-1635.4	19.2	0.0369 ug/L	0.0369 ppb	21:12:14
1	Tl 190.801†	-38.4	3.9	1.1165 ug/L	1.1165 ppb	21:12:34
1	U 409.014†	-4214.2	7.7	0.2486 ug/L	0.2486 ppb	21:12:14
1	V 292.402†	-1783.4	-119.1	-0.8253 ug/L	-0.8253 ppb	21:12:14
1	Zn 213.857†	700.3	-27.7	-0.2430 ug/L	-0.2430 ppb	21:12:34
1	SiO2†	575.6	57.3	3.6452 ug/L	3.6452 ppb	21:13:30
2	Sc Radial	3707.5	3707.5	93.6 %		21:11:42
2	Y RADIAL	4169.0	4169.0	91.86 %		21:11:22
2	Al 396.153Radial†	-174.8	9.1	8.1166 ug/L	8.1166 ppb	21:11:22
2	Ca 317.933Radial†	20.1	5.2	10.249 ug/L	10.249 ppb	21:11:42
2	Fe 238.204 Radial†	11.2	0.1	1.2363 ug/L	1.2363 ppb	21:11:42
2	K 766.490 Radial†	3021.1	196.1	34.194 ug/L	34.194 ppb	21:11:22
2	Mg 279.077 IEC†	0.6	-2.6	-114.62 ug/L	-114.62 ppb	21:11:42
2	Na 589.592 Radial†	-1532.0	-51.3	-14.697 ug/L	-14.697 ppb	21:11:22
2	Sr 421.552†	4.7	4.6	0.0308 ug/L	0.0308 ppb	21:11:22
2	Sc 361.383	837567.6	837567.6	96.855 %		21:12:40
2	Y 371.029	662867.4	662867.4	97.182 %		21:12:40
2	Ag 328.068†	520.4	102.1	0.4614 ug/L	0.4614 ppb	21:12:40
2	As 188.979†	-21.1	13.6	5.1991 ug/L	5.1991 ppb	21:13:00
2	B 249.677†	-516.8	73.2	1.5548 ug/L	1.5548 ppb	21:12:40
2	Ba 233.527†	2.0	20.1	0.1506 ug/L	0.1506 ppb	21:13:00
2	Be 313.107†	-3828.0	-8.2	-0.0033 ug/L	-0.0033 ppb	21:12:40
2	Cd 226.502†	-193.4	-0.1	-0.0007 ug/L	-0.0007 ppb	21:13:00
2	Co 228.616†	-82.1	1.6	0.0323 ug/L	0.0323 ppb	21:13:00
2	Cr 267.716†	74.7	-11.9	-0.1278 ug/L	-0.1278 ppb	21:12:40
2	Cu 324.752†	6874.8	249.7	0.7159 ug/L	0.7159 ppb	21:12:40
2	Mn 257.610†	513.4	37.6	0.0433 ug/L	0.0433 ppb	21:13:00
2	Mo 202.031†	14.9	12.6	0.8580 ug/L	0.8580 ppb	21:13:00
2	Ni 231.604†	83.3	2.8	0.0640 ug/L	0.0640 ppb	21:13:00

2	P 214.914†	240.5	13.9	6.9001 ug/L	6.9001 ppb	21:13:00
2	Pb 220.353†	-75.7	-7.0	-0.7648 ug/L	-0.7648 ppb	21:13:00
2	S 181.975 Axial†	48.5	-1.9	-2.2792 ug/L	-2.2792 ppb	21:13:00
2	Sb 206.836†	45.3	11.2	3.4595 ug/L	3.4595 ppb	21:13:00
2	Se 196.026†	-32.4	-3.9	-2.1282 ug/L	-2.1282 ppb	21:13:00
2	Si 251.611†	561.7	90.4	2.6795 ug/L	2.6795 ppb	21:13:00
2	Sn 189.927†	10.0	-7.3	-1.1838 ug/L	-1.1838 ppb	21:13:00
2	Ti 334.940†	-1773.5	-136.5	-0.1995 ug/L	-0.1995 ppb	21:12:40
2	Tl 190.801†	-41.7	0.1	0.0324 ug/L	0.0324 ppb	21:13:00
2	U 409.014†	-4147.7	42.4	1.3752 ug/L	1.3752 ppb	21:12:40
2	V 292.402†	-1696.9	-44.2	-0.2939 ug/L	-0.2939 ppb	21:12:40
2	Zn 213.857†	700.4	-21.9	-0.1888 ug/L	-0.1888 ppb	21:13:00
2	SiO2†	546.1	31.4	1.9780 ug/L	1.9780 ppb	21:13:35
3	Sc Radial	3712.6	3712.6	93.8 %		21:12:07
3	Y RADIAL	4189.2	4189.2	92.31 %		21:11:47
3	Al 396.153Radial†	-196.7	-14.0	-12.544 ug/L	-12.544 ppb	21:11:47
3	Ca 317.933Radial†	8.8	-6.9	-13.729 ug/L	-13.729 ppb	21:12:07
3	Fe 238.204 Radial†	11.8	0.8	9.7206 ug/L	9.7206 ppb	21:12:07
3	K 766.490 Radial†	3082.6	257.3	44.884 ug/L	44.884 ppb	21:11:47
3	Mg 279.077 IEC†	2.7	-0.4	-18.891 ug/L	-18.891 ppb	21:12:07
3	Na 589.592 Radial†	-1624.4	-147.5	-42.304 ug/L	-42.304 ppb	21:11:47
3	Sr 421.552†	5.1	5.0	0.0338 ug/L	0.0338 ppb	21:11:47
3	Sc 361.383	845255.8	845255.8	97.744 %		21:13:05
3	Y 371.029	668995.7	668995.7	98.080 %		21:13:05
3	Ag 328.068†	435.3	10.2	0.0466 ug/L	0.0466 ppb	21:13:05
3	As 188.979†	-24.3	10.6	4.0331 ug/L	4.0331 ppb	21:13:25
3	B 249.677†	-574.6	18.9	0.4011 ug/L	0.4011 ppb	21:13:05
3	Ba 233.527†	-11.3	6.4	0.0471 ug/L	0.0471 ppb	21:13:25
3	Be 313.107†	-3757.4	100.0	0.0337 ug/L	0.0337 ppb	21:13:05
3	Cd 226.502†	-216.9	-22.3	-0.2335 ug/L	-0.2335 ppb	21:13:25
3	Co 228.616†	-92.4	-8.1	-0.1501 ug/L	-0.1501 ppb	21:13:25
3	Cr 267.716†	106.9	20.3	0.2161 ug/L	0.2161 ppb	21:13:05
3	Cu 324.752†	6877.9	188.3	0.5411 ug/L	0.5411 ppb	21:13:05
3	Mn 257.610†	543.2	63.3	0.0666 ug/L	0.0666 ppb	21:13:25
3	Mo 202.031†	4.5	1.7	0.1185 ug/L	0.1185 ppb	21:13:25
3	Ni 231.604†	90.9	9.8	0.2227 ug/L	0.2227 ppb	21:13:25
3	P 214.914†	226.0	-3.2	-1.7636 ug/L	-1.7636 ppb	21:13:25
3	Pb 220.353†	-75.0	-5.5	-0.6107 ug/L	-0.6107 ppb	21:13:25
3	S 181.975 Axial†	45.9	-4.9	-5.9770 ug/L	-5.9770 ppb	21:13:25
3	Sb 206.836†	51.4	17.0	5.2231 ug/L	5.2231 ppb	21:13:25
3	Se 196.026†	-28.2	0.7	0.3832 ug/L	0.3832 ppb	21:13:25
3	Si 251.611†	561.6	85.0	2.5281 ug/L	2.5281 ppb	21:13:25
3	Sn 189.927†	11.8	-5.5	-0.8981 ug/L	-0.8981 ppb	21:13:25
3	Ti 334.940†	-1770.2	-116.4	-0.1790 ug/L	-0.1790 ppb	21:13:05
3	Tl 190.801†	-40.1	2.2	0.6217 ug/L	0.6217 ppb	21:13:25
3	U 409.014†	-4235.4	-8.4	-0.2735 ug/L	-0.2735 ppb	21:13:05
3	V 292.402†	-1781.2	-114.5	-0.7950 ug/L	-0.7950 ppb	21:13:05
3	Zn 213.857†	715.2	-13.4	-0.1174 ug/L	-0.1174 ppb	21:13:25
3	SiO2†	598.8	80.2	5.1146 ug/L	5.1146 ppb	21:13:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842324.1	97.405 %		0.4806			0.49%
Sc Radial	3703.8	93.5 %		0.28			0.30%
Y 371.029	666756.2	97.752 %		0.4956			0.51%
Y RADIAL	4172.8	91.94 %		0.329			0.36%
Ag 328.068†	31.3	0.1425 ug/L		0.28349	0.1425 ppb	0.28349	199.00%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-8.6	-7.7875 ug/L		14.13926	-7.7875 ppb	14.13926	181.56%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	10.4	3.9744 ug/L		1.25511	3.9744 ppb	1.25511	31.58%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	65.0	1.3805 ug/L		0.90493	1.3805 ppb	0.90493	65.55%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	12.2	0.0911 ug/L		0.05344	0.0911 ppb	0.05344	58.65%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	44.6	0.0149 ug/L		0.01849	0.0149 ppb	0.01849	123.68%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-1.7	-3.3536 ug/L		12.31035	-3.3536 ppb	12.31035	367.08%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-8.5	-0.0895 ug/L	0.12581	-0.0895 ppb	0.12581	140.49%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.7	0.0513 ug/L	0.21156	0.0513 ppb	0.21156	412.27%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-5.0	-0.0547 ug/L	0.24270	-0.0547 ppb	0.24270	443.45%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	231.8	0.6654 ug/L	0.10828	0.6654 ppb	0.10828	16.27%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.8	9.2354 ug/L	7.76791	9.2354 ppb	7.76791	84.11%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	269.1	46.920 ug/L	13.8566	46.920 ppb	13.8566	29.53%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.8	-78.277 ug/L	51.8583	-78.277 ppb	51.8583	66.25%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	55.1	0.0606 ug/L	0.01517	0.0606 ppb	0.01517	25.05%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.6	0.4473 ug/L	0.37647	0.4473 ppb	0.37647	84.16%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-98.2	-28.162 ug/L	13.8160	-28.162 ppb	13.8160	49.06%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	12.1	0.2738 ug/L	0.23951	0.2738 ppb	0.23951	87.47%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	5.9	2.8401 ug/L	4.35740	2.8401 ppb	4.35740	153.42%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-9.1	-0.9972 ug/L	0.54149	-0.9972 ppb	0.54149	54.30%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-5.5	-6.6005 ug/L	4.66444	-6.6005 ppb	4.66444	70.67%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	15.9	4.8956 ug/L	1.30350	4.8956 ppb	1.30350	26.63%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.9	-1.0220 ug/L	1.28210	-1.0220 ppb	1.28210	125.45%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	86.6	2.5715 ug/L	0.09418	2.5715 ppb	0.09418	3.66%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-6.1	-0.9982 ug/L	0.16094	-0.9982 ppb	0.16094	16.12%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	11.0	0.0740 ug/L	0.07231	0.0740 ppb	0.07231	97.68%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-77.9	-0.1139 ug/L	0.13095	-0.1139 ppb	0.13095	115.00%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	2.1	0.5902 ug/L	0.54273	0.5902 ppb	0.54273	91.95%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	13.9	0.4501 ug/L	0.84263	0.4501 ppb	0.84263	187.20%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-92.6	-0.6381 ug/L	0.29848	-0.6381 ppb	0.29848	46.78%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-21.0	-0.1831 ug/L	0.06302	-0.1831 ppb	0.06302	34.42%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	56.3	3.5793 ug/L	1.56938	3.5793 ppb	1.56938	43.85%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 56

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/3/2010 22:18:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3566.4	3566.4	90.1 %		22:20:39
1	Y RADIAL	4161.3	4161.3	91.69 %		22:20:19
1	Al 396.153Radial†	5103.7	5862.7	5242.9 ug/L	5242.9 ppb	22:20:19
1	Ca 317.933Radial†	2476.2	2733.2	5418.9 ug/L	5418.9 ppb	22:20:39
1	Fe 238.204 Radial†	419.0	453.4	5414.2 ug/L	5414.2 ppb	22:20:39
1	K 766.490 Radial†	29530.4	29758.4	5181.9 ug/L	5181.9 ppb	22:20:19
1	Mg 279.077 IEC†	119.9	129.8	5649.6 ug/L	5649.6 ppb	22:20:39
1	Na 589.592 Radial†	29130.4	33930.1	9728.9 ug/L	9728.9 ppb	22:20:19
1	Sr 421.552†	66163.6	73464.3	496.25 ug/L	496.25 ppb	22:20:19
1	Sc 361.383	846042.2	846042.2	97.835 %		22:21:38
1	Y 371.029	659505.6	659505.6	96.689 %		22:21:38
1	Ag 328.068†	105667.4	107570.2	491.59 ug/L	491.59 ppb	22:21:38
1	As 188.979†	1215.5	1277.8	491.72 ug/L	491.72 ppb	22:21:58
1	B 249.677†	21342.8	22421.9	474.16 ug/L	474.16 ppb	22:21:38
1	Ba 233.527†	63244.4	64661.7	488.43 ug/L	488.43 ppb	22:21:38
1	Be 313.107†	1404751.6	1439776.5	492.04 ug/L	492.04 ppb	22:21:38
1	Cd 226.502†	44347.9	45528.7	474.78 ug/L	474.78 ppb	22:21:58
1	Co 228.616†	25159.8	25802.9	479.78 ug/L	479.78 ppb	22:21:58
1	Cr 267.716†	45022.7	45929.8	490.61 ug/L	490.61 ppb	22:21:38
1	Cu 324.752†	172300.3	169264.2	485.86 ug/L	485.86 ppb	22:21:38
1	Mn 257.610†	465435.6	475241.1	486.84 ug/L	486.84 ppb	22:21:38
1	Mo 202.031†	7069.7	7223.3	492.62 ug/L	492.62 ppb	22:21:58
1	Ni 231.604†	20983.6	21364.7	485.15 ug/L	485.15 ppb	22:21:58
1	P 214.914†	4844.0	4716.7	2302.9 ug/L	2302.9 ppb	22:21:58
1	Pb 220.353†	4296.4	4462.6	489.86 ug/L	489.86 ppb	22:21:58
1	S 181.975 Axial†	821.3	787.6	952.00 ug/L	952.00 ppb	22:21:58
1	Sb 206.836†	1562.4	1561.4	498.24 ug/L	498.24 ppb	22:21:58
1	Se 196.026†	843.8	891.9	501.38 ug/L	501.38 ppb	22:21:58
1	Si 251.611†	81338.4	82648.5	2453.0 ug/L	2453.0 ppb	22:21:38
1	Sn 189.927†	2937.3	2984.6	485.52 ug/L	485.52 ppb	22:21:58
1	Ti 334.940†	314525.5	323179.1	496.08 ug/L	496.08 ppb	22:21:38
1	Tl 190.801†	1619.0	1698.1	488.68 ug/L	488.68 ppb	22:21:58
1	U 409.014†	9890.4	14434.0	466.72 ug/L	466.72 ppb	22:21:38
1	V 292.402†	67017.0	70207.6	493.82 ug/L	493.82 ppb	22:21:38
1	Zn 213.857†	56363.9	56865.9	482.16 ug/L	482.16 ppb	22:21:38
1	SiO2†	80364.1	81609.7	5195.3 ug/L	5195.3 ppb	22:22:58
2	Sc Radial	3725.6	3725.6	94.1 %		22:21:04
2	Y RADIAL	4173.9	4173.9	91.97 %		22:20:44
2	Al 396.153Radial†	5195.7	5718.5	5113.4 ug/L	5113.4 ppb	22:20:44
2	Ca 317.933Radial†	2483.1	2623.0	5200.5 ug/L	5200.5 ppb	22:21:04
2	Fe 238.204 Radial†	422.3	437.1	5220.3 ug/L	5220.3 ppb	22:21:04
2	K 766.490 Radial†	29864.3	28712.7	4999.7 ug/L	4999.7 ppb	22:20:44
2	Mg 279.077 IEC†	117.2	121.3	5277.6 ug/L	5277.6 ppb	22:21:04
2	Na 589.592 Radial†	29632.0	33081.6	9485.6 ug/L	9485.6 ppb	22:20:44
2	Sr 421.552†	67408.1	71649.1	483.99 ug/L	483.99 ppb	22:20:44
2	Sc 361.383	850643.3	850643.3	98.367 %		22:22:05
2	Y 371.029	662910.6	662910.6	97.188 %		22:22:05
2	Ag 328.068†	106450.5	107782.1	492.50 ug/L	492.50 ppb	22:22:05
2	As 188.979†	1216.9	1272.5	489.67 ug/L	489.67 ppb	22:22:25
2	B 249.677†	21557.5	22522.1	476.33 ug/L	476.33 ppb	22:22:05
2	Ba 233.527†	63522.0	64594.3	487.92 ug/L	487.92 ppb	22:22:05
2	Be 313.107†	1415135.3	1442566.2	492.99 ug/L	492.99 ppb	22:22:05
2	Cd 226.502†	44449.4	45386.7	473.31 ug/L	473.31 ppb	22:22:25
2	Co 228.616†	25187.3	25691.7	477.71 ug/L	477.71 ppb	22:22:25
2	Cr 267.716†	45312.4	45975.4	491.10 ug/L	491.10 ppb	22:22:05
2	Cu 324.752†	174112.6	170154.0	488.41 ug/L	488.41 ppb	22:22:05
2	Mn 257.610†	468106.8	475383.4	486.99 ug/L	486.99 ppb	22:22:05
2	Mo 202.031†	7094.1	7209.0	491.63 ug/L	491.63 ppb	22:22:25
2	Ni 231.604†	21014.4	21280.0	483.22 ug/L	483.22 ppb	22:22:25

2	P 214.914†	4852.4	4698.5	2293.2 ug/L	2293.2 ppb	22:22:25
2	Pb 220.353†	4316.2	4459.0	489.45 ug/L	489.45 ppb	22:22:25
2	S 181.975 Axial†	818.0	779.7	942.48 ug/L	942.48 ppb	22:22:25
2	Sb 206.836†	1561.9	1552.2	495.40 ug/L	495.40 ppb	22:22:25
2	Se 196.026†	851.4	895.0	502.44 ug/L	502.44 ppb	22:22:25
2	Si 251.611†	81816.7	82685.0	2454.1 ug/L	2454.1 ppb	22:22:05
2	Sn 189.927†	2953.1	2984.5	485.46 ug/L	485.46 ppb	22:22:25
2	Ti 334.940†	316501.2	323448.7	496.49 ug/L	496.49 ppb	22:22:05
2	Tl 190.801†	1632.7	1703.0	490.10 ug/L	490.10 ppb	22:22:25
2	U 409.014†	9729.4	14215.7	459.65 ug/L	459.65 ppb	22:22:05
2	V 292.402†	67363.4	70189.2	493.69 ug/L	493.69 ppb	22:22:05
2	Zn 213.857†	56717.2	56913.4	482.59 ug/L	482.59 ppb	22:22:05
2	SiO2†	82238.1	83070.6	5288.5 ug/L	5288.5 ppb	22:23:03
3	Sc Radial	3685.5	3685.5	93.1 %		22:21:29
3	Y RADIAL	4190.4	4190.4	92.33 %		22:21:09
3	Al 396.153Radial†	5207.5	5791.2	5178.7 ug/L	5178.7 ppb	22:21:09
3	Ca 317.933Radial†	2473.1	2641.0	5236.1 ug/L	5236.1 ppb	22:21:29
3	Fe 238.204 Radial†	417.8	437.1	5220.4 ug/L	5220.4 ppb	22:21:29
3	K 766.490 Radial†	30012.8	29217.5	5087.7 ug/L	5087.7 ppb	22:21:09
3	Mg 279.077 IEC†	113.4	118.5	5158.6 ug/L	5158.6 ppb	22:21:29
3	Na 589.592 Radial†	29467.0	33246.9	9533.0 ug/L	9533.0 ppb	22:21:09
3	Sr 421.552†	67513.3	72541.5	490.01 ug/L	490.01 ppb	22:21:09
3	Sc 361.383	846971.6	846971.6	97.943 %		22:22:32
3	Y 371.029	661266.2	661266.2	96.947 %		22:22:32
3	Ag 328.068†	105586.2	107368.8	490.62 ug/L	490.62 ppb	22:22:32
3	As 188.979†	1219.8	1280.9	492.84 ug/L	492.84 ppb	22:22:53
3	B 249.677†	21386.8	22442.8	474.63 ug/L	474.63 ppb	22:22:32
3	Ba 233.527†	63316.2	64664.1	488.44 ug/L	488.44 ppb	22:22:32
3	Be 313.107†	1405413.8	1438877.0	491.74 ug/L	491.74 ppb	22:22:32
3	Cd 226.502†	44520.6	45655.3	476.12 ug/L	476.12 ppb	22:22:53
3	Co 228.616†	25246.2	25862.9	480.90 ug/L	480.90 ppb	22:22:53
3	Cr 267.716†	45111.7	45970.1	491.04 ug/L	491.04 ppb	22:22:32
3	Cu 324.752†	172023.3	168788.2	484.49 ug/L	484.49 ppb	22:22:32
3	Mn 257.610†	465664.3	474952.6	486.55 ug/L	486.55 ppb	22:22:32
3	Mo 202.031†	7081.6	7227.5	492.89 ug/L	492.89 ppb	22:22:53
3	Ni 231.604†	21018.5	21376.8	485.42 ug/L	485.42 ppb	22:22:53
3	P 214.914†	4869.0	4736.8	2313.5 ug/L	2313.5 ppb	22:22:53
3	Pb 220.353†	4307.9	4469.6	490.63 ug/L	490.63 ppb	22:22:53
3	S 181.975 Axial†	831.5	797.0	963.45 ug/L	963.45 ppb	22:22:53
3	Sb 206.836†	1569.4	1566.8	499.90 ug/L	499.90 ppb	22:22:53
3	Se 196.026†	846.8	894.1	501.96 ug/L	501.96 ppb	22:22:53
3	Si 251.611†	81189.4	82405.2	2445.8 ug/L	2445.8 ppb	22:22:32
3	Sn 189.927†	2940.3	2984.4	485.45 ug/L	485.45 ppb	22:22:53
3	Ti 334.940†	314832.8	323140.1	496.03 ug/L	496.03 ppb	22:22:32
3	Tl 190.801†	1635.8	1713.3	493.04 ug/L	493.04 ppb	22:22:53
3	U 409.014†	9744.4	14273.9	461.54 ug/L	461.54 ppb	22:22:32
3	V 292.402†	67073.6	70190.2	493.71 ug/L	493.71 ppb	22:22:32
3	Zn 213.857†	56449.2	56889.8	482.38 ug/L	482.38 ppb	22:22:32
3	SiO2†	81519.6	82699.4	5264.8 ug/L	5264.8 ppb	22:23:08

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847885.7	98.049 %	0.2813			0.29%
Sc Radial	3659.2	92.4 %	2.09			2.26%
Y 371.029	661227.5	96.941 %	0.2497			0.26%
Y RADIAL	4175.2	92.00 %	0.322			0.35%
Ag 328.068†	107573.7	491.57 ug/L	0.939	491.57 ppb	0.939	0.19%
QC value within limits for Ag 328.068 Recovery = 98.31%						
Al 396.153Radial†	5790.8	5178.3 ug/L	64.74	5178.3 ppb	64.74	1.25%
QC value within limits for Al 396.153Radial Recovery = 103.57%						
As 188.979†	1277.1	491.41 ug/L	1.610	491.41 ppb	1.610	0.33%
QC value within limits for As 188.979 Recovery = 98.28%						
B 249.677†	22462.3	475.04 ug/L	1.140	475.04 ppb	1.140	0.24%
QC value within limits for B 249.677 Recovery = 95.01%						
Ba 233.527†	64640.0	488.27 ug/L	0.300	488.27 ppb	0.300	0.06%
QC value within limits for Ba 233.527 Recovery = 97.65%						
Be 313.107†	1440406.6	492.26 ug/L	0.656	492.26 ppb	0.656	0.13%
QC value within limits for Be 313.107 Recovery = 98.45%						
Ca 317.933Radial†	2665.7	5285.2 ug/L	117.21	5285.2 ppb	117.21	2.22%

QC value within limits for Ca 317.933 Radial Recovery = 105.70%

Cd 226.502†	45523.6	474.74 ug/L	1.402	474.74 ppb	1.402	0.30%
QC value within limits for Cd 226.502 Recovery = 94.95%						
Co 228.616†	25785.8	479.47 ug/L	1.617	479.47 ppb	1.617	0.34%
QC value within limits for Co 228.616 Recovery = 95.89%						
Cr 267.716†	45958.4	490.92 ug/L	0.266	490.92 ppb	0.266	0.05%
QC value within limits for Cr 267.716 Recovery = 98.18%						
Cu 324.752†	169402.1	486.25 ug/L	1.990	486.25 ppb	1.990	0.41%
QC value within limits for Cu 324.752 Recovery = 97.25%						
Fe 238.204 Radial†	442.5	5285.0 ug/L	111.91	5285.0 ppb	111.91	2.12%
QC value within limits for Fe 238.204 Radial Recovery = 105.70%						
K 766.490 Radial†	29229.5	5089.8 ug/L	91.09	5089.8 ppb	91.09	1.79%
QC value within limits for K 766.490 Radial Recovery = 101.80%						
Mg 279.077 IEC†	123.2	5361.9 ug/L	256.15	5361.9 ppb	256.15	4.78%
QC value within limits for Mg 279.077 IEC Recovery = 107.24%						
Mn 257.610†	475192.4	486.79 ug/L	0.222	486.79 ppb	0.222	0.05%
QC value within limits for Mn 257.610 Recovery = 97.36%						
Mo 202.031†	7219.9	492.38 ug/L	0.663	492.38 ppb	0.663	0.13%
QC value within limits for Mo 202.031 Recovery = 98.48%						
Na 589.592 Radial†	33419.5	9582.5 ug/L	128.98	9582.5 ppb	128.98	1.35%
QC value within limits for Na 589.592 Radial Recovery = 95.83%						
Ni 231.604†	21340.5	484.60 ug/L	1.198	484.60 ppb	1.198	0.25%
QC value within limits for Ni 231.604 Recovery = 96.92%						
P 214.914†	4717.3	2303.2 ug/L	10.14	2303.2 ppb	10.14	0.44%
QC value within limits for P 214.914 Recovery = 92.13%						
Pb 220.353†	4463.7	489.98 ug/L	0.598	489.98 ppb	0.598	0.12%
QC value within limits for Pb 220.353 Recovery = 98.00%						
S 181.975 Axial†	788.1	952.64 ug/L	10.501	952.64 ppb	10.501	1.10%
QC value within limits for S 181.975 Axial Recovery = 95.26%						
Sb 206.836†	1560.1	497.85 ug/L	2.275	497.85 ppb	2.275	0.46%
QC value within limits for Sb 206.836 Recovery = 99.57%						
Se 196.026†	893.7	501.93 ug/L	0.527	501.93 ppb	0.527	0.10%
QC value within limits for Se 196.026 Recovery = 100.39%						
Si 251.611†	82579.6	2451.0 ug/L	4.53	2451.0 ppb	4.53	0.18%
QC value within limits for Si 251.611 Recovery = 98.04%						
Sn 189.927†	2984.5	485.48 ug/L	0.034	485.48 ppb	0.034	0.01%
QC value within limits for Sn 189.927 Recovery = 97.10%						
Sr 421.552†	72551.6	490.08 ug/L	6.131	490.08 ppb	6.131	1.25%
QC value within limits for Sr 421.552 Recovery = 98.02%						
Ti 334.940†	323256.0	496.20 ug/L	0.254	496.20 ppb	0.254	0.05%
QC value within limits for Ti 334.940 Recovery = 99.24%						
Tl 190.801†	1704.8	490.61 ug/L	2.220	490.61 ppb	2.220	0.45%
QC value within limits for Tl 190.801 Recovery = 98.12%						
U 409.014†	14307.8	462.64 ug/L	3.658	462.64 ppb	3.658	0.79%
QC value within limits for U 409.014 Recovery = 92.53%						
V 292.402†	70195.7	493.74 ug/L	0.071	493.74 ppb	0.071	0.01%
QC value within limits for V 292.402 Recovery = 98.75%						
Zn 213.857†	56889.7	482.38 ug/L	0.217	482.38 ppb	0.217	0.05%
QC value within limits for Zn 213.857 Recovery = 96.48%						
SiO2†	82459.9	5249.6 ug/L	48.47	5249.6 ppb	48.47	0.92%
QC value within limits for SiO2 Recovery = 98.17%						

All analyte(s) passed QC.

Sequence No.: 57

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/3/2010 22:25:18

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	3777.3	3777.3	95.4 %		22:27:30
1	Y RADIAL	4152.2	4152.2	91.49 %		22:27:10
1	Al 396.153Radial†	-228.5	-43.7	-39.265 ug/L	-39.265 ppb	22:27:10
1	Ca 317.933Radial†	16.3	0.8	1.6264 ug/L	1.6264 ppb	22:27:30
1	Fe 238.204 Radial†	12.5	1.3	15.830 ug/L	15.830 ppb	22:27:30
1	K 766.490 Radial†	3111.0	230.8	40.245 ug/L	40.245 ppb	22:27:10
1	Mg 279.077 IEC†	3.9	0.8	33.029 ug/L	33.029 ppb	22:27:30
1	Na 589.592 Radial†	-1635.1	-129.1	-37.006 ug/L	-37.006 ppb	22:27:10
1	Sr 421.552†	46.4	48.2	0.3257 ug/L	0.3257 ppb	22:27:10
1	Sc 361.383	844549.8	844549.8	97.663 %		22:28:27
1	Y 371.029	667625.3	667625.3	97.879 %		22:28:27
1	Ag 328.068†	502.5	79.4	0.3675 ug/L	0.3675 ppb	22:28:27
1	As 188.979†	-24.4	10.4	3.9833 ug/L	3.9833 ppb	22:28:47
1	B 249.677†	-596.8	-4.2	-0.0919 ug/L	-0.0919 ppb	22:28:27
1	Ba 233.527†	-20.3	-2.8	-0.0215 ug/L	-0.0215 ppb	22:28:47
1	Be 313.107†	-3789.6	63.8	0.0216 ug/L	0.0216 ppb	22:28:27
1	Cd 226.502†	-220.5	-26.1	-0.2745 ug/L	-0.2745 ppb	22:28:47
1	Co 228.616†	-92.9	-8.7	-0.1620 ug/L	-0.1620 ppb	22:28:47
1	Cr 267.716†	82.1	-5.0	-0.0520 ug/L	-0.0520 ppb	22:28:27
1	Cu 324.752†	6779.7	93.7	0.2725 ug/L	0.2725 ppb	22:28:27
1	Mn 257.610†	559.4	80.3	0.0824 ug/L	0.0824 ppb	22:28:47
1	Mo 202.031†	2.8	0.0	0.0036 ug/L	0.0036 ppb	22:28:47
1	Ni 231.604†	114.4	33.9	0.7701 ug/L	0.7701 ppb	22:28:47
1	P 214.914†	226.2	-2.8	-1.5347 ug/L	-1.5347 ppb	22:28:47
1	Pb 220.353†	-78.4	-9.1	-1.0050 ug/L	-1.0050 ppb	22:28:47
1	S 181.975 Axial†	56.1	5.5	6.6371 ug/L	6.6371 ppb	22:28:47
1	Sb 206.836†	47.0	12.6	3.8411 ug/L	3.8411 ppb	22:28:47
1	Se 196.026†	-30.0	-1.2	-0.5802 ug/L	-0.5802 ppb	22:28:47
1	Si 251.611†	564.0	88.0	2.6181 ug/L	2.6181 ppb	22:28:47
1	Sn 189.927†	7.8	-9.7	-1.5710 ug/L	-1.5710 ppb	22:28:47
1	Ti 334.940†	-1700.1	-46.2	-0.0712 ug/L	-0.0712 ppb	22:28:27
1	Tl 190.801†	-34.0	8.4	2.3931 ug/L	2.3931 ppb	22:28:47
1	U 409.014†	-4377.5	-157.4	-5.1114 ug/L	-5.1114 ppb	22:28:27
1	V 292.402†	-1745.8	-79.7	-0.5649 ug/L	-0.5649 ppb	22:28:27
1	Zn 213.857†	720.9	-6.9	-0.0660 ug/L	-0.0660 ppb	22:28:47
1	SiO2†	580.0	61.4	3.9217 ug/L	3.9217 ppb	22:29:43
2	Sc Radial	3681.2	3681.2	93.0 %		22:27:55
2	Y RADIAL	4382.5	4382.5	96.57 %		22:27:35
2	Al 396.153Radial†	-176.0	6.5	5.8356 ug/L	5.8356 ppb	22:27:35
2	Ca 317.933Radial†	16.0	0.9	1.7682 ug/L	1.7682 ppb	22:27:55
2	Fe 238.204 Radial†	12.0	1.1	12.554 ug/L	12.554 ppb	22:27:55
2	K 766.490 Radial†	3066.2	267.7	46.686 ug/L	46.686 ppb	22:27:35
2	Mg 279.077 IEC†	1.0	-2.2	-95.233 ug/L	-95.233 ppb	22:27:55
2	Na 589.592 Radial†	-1591.4	-126.9	-36.376 ug/L	-36.376 ppb	22:27:35
2	Sr 421.552†	44.0	46.9	0.3168 ug/L	0.3168 ppb	22:27:35
2	Sc 361.383	812298.9	812298.9	93.933 %		22:28:52
2	Y 371.029	643122.1	643122.1	94.287 %		22:28:52
2	Ag 328.068†	396.7	-12.8	-0.0447 ug/L	-0.0447 ppb	22:28:52
2	As 188.979†	-26.3	7.4	2.8228 ug/L	2.8228 ppb	22:29:12
2	B 249.677†	-572.4	-2.5	-0.0558 ug/L	-0.0558 ppb	22:28:52
2	Ba 233.527†	2.8	21.0	0.1565 ug/L	0.1565 ppb	22:29:12
2	Be 313.107†	-3617.7	92.7	0.0305 ug/L	0.0305 ppb	22:28:52
2	Cd 226.502†	-215.6	-29.9	-0.3160 ug/L	-0.3160 ppb	22:29:12
2	Co 228.616†	-81.5	-0.4	-0.0063 ug/L	-0.0063 ppb	22:29:12
2	Cr 267.716†	106.8	24.6	0.2681 ug/L	0.2681 ppb	22:28:52
2	Cu 324.752†	6747.8	335.3	0.9719 ug/L	0.9719 ppb	22:28:52
2	Mn 257.610†	519.3	60.4	0.0669 ug/L	0.0669 ppb	22:29:12
2	Mo 202.031†	7.8	5.5	0.3742 ug/L	0.3742 ppb	22:29:12
2	Ni 231.604†	86.4	8.8	0.1996 ug/L	0.1996 ppb	22:29:12

2	P 214.914†	225.3	5.4	2.5343 ug/L	2.5343 ppb	22:29:12
2	Pb 220.353†	-66.4	0.5	0.0530 ug/L	0.0530 ppb	22:29:12
2	S 181.975 Axial†	41.5	-7.7	-9.3649 ug/L	-9.3649 ppb	22:29:12
2	Sb 206.836†	49.4	17.0	5.2013 ug/L	5.2013 ppb	22:29:12
2	Se 196.026†	-28.6	-0.9	-0.4695 ug/L	-0.4695 ppb	22:29:12
2	Si 251.611†	553.7	99.9	2.9678 ug/L	2.9678 ppb	22:29:12
2	Sn 189.927†	-0.2	-17.9	-2.9012 ug/L	-2.9012 ppb	22:29:12
2	Ti 334.940†	-1882.7	-309.7	-0.4605 ug/L	-0.4605 ppb	22:28:52
2	Tl 190.801†	-39.2	1.5	0.4218 ug/L	0.4218 ppb	22:29:12
2	U 409.014†	-4527.9	-495.6	-16.086 ug/L	-16.086 ppb	22:28:52
2	V 292.402†	-1728.0	-131.8	-0.9436 ug/L	-0.9436 ppb	22:28:52
2	Zn 213.857†	732.6	34.8	0.2940 ug/L	0.2940 ppb	22:29:12
2	SiO2†	576.3	81.1	5.1654 ug/L	5.1654 ppb	22:29:48
3	Sc Radial	3650.7	3650.7	92.2 %		22:28:20
3	Y RADIAL	3986.1	3986.1	87.83 %		22:28:00
3	Al 396.153Radial†	-192.2	-12.7	-11.459 ug/L	-11.459 ppb	22:28:00
3	Ca 317.933Radial†	14.1	-1.0	-1.8980 ug/L	-1.8980 ppb	22:28:20
3	Fe 238.204 Radial†	14.6	4.0	48.117 ug/L	48.117 ppb	22:28:20
3	K 766.490 Radial†	3215.5	457.3	79.749 ug/L	79.749 ppb	22:28:00
3	Mg 279.077 IEC†	2.7	-0.4	-17.724 ug/L	-17.724 ppb	22:28:20
3	Na 589.592 Radial†	-1668.5	-224.7	-64.430 ug/L	-64.430 ppb	22:28:00
3	Sr 421.552†	43.2	46.4	0.3134 ug/L	0.3134 ppb	22:28:00
3	Sc 361.383	836330.1	836330.1	96.712 %		22:29:18
3	Y 371.029	662647.6	662647.6	97.149 %		22:29:18
3	Ag 328.068†	441.5	21.4	0.1149 ug/L	0.1149 ppb	22:29:18
3	As 188.979†	-10.6	24.5	9.3349 ug/L	9.3349 ppb	22:29:38
3	B 249.677†	-589.3	-2.5	-0.0619 ug/L	-0.0619 ppb	22:29:18
3	Ba 233.527†	-27.8	-10.8	-0.0806 ug/L	-0.0806 ppb	22:29:38
3	Be 313.107†	-3712.9	105.0	0.0354 ug/L	0.0354 ppb	22:29:18
3	Cd 226.502†	-224.7	-32.7	-0.3466 ug/L	-0.3466 ppb	22:29:38
3	Co 228.616†	-81.6	2.0	0.0401 ug/L	0.0401 ppb	22:29:38
3	Cr 267.716†	49.2	-38.2	-0.4051 ug/L	-0.4051 ppb	22:29:18
3	Cu 324.752†	6821.9	205.5	0.5947 ug/L	0.5947 ppb	22:29:18
3	Mn 257.610†	558.9	85.5	0.0930 ug/L	0.0930 ppb	22:29:38
3	Mo 202.031†	20.9	18.8	1.2855 ug/L	1.2855 ppb	22:29:38
3	Ni 231.604†	76.5	-4.1	-0.0939 ug/L	-0.0939 ppb	22:29:38
3	P 214.914†	223.0	-3.9	-2.1769 ug/L	-2.1769 ppb	22:29:38
3	Pb 220.353†	-97.6	-29.8	-3.2626 ug/L	-3.2626 ppb	22:29:38
3	S 181.975 Axial†	41.7	-8.8	-10.597 ug/L	-10.597 ppb	22:29:38
3	Sb 206.836†	41.4	7.3	2.2349 ug/L	2.2349 ppb	22:29:38
3	Se 196.026†	-33.0	-4.6	-2.3346 ug/L	-2.3346 ppb	22:29:38
3	Si 251.611†	573.8	103.7	3.0702 ug/L	3.0702 ppb	22:29:38
3	Sn 189.927†	3.1	-14.4	-2.3373 ug/L	-2.3373 ppb	22:29:38
3	Ti 334.940†	-1746.9	-111.7	-0.1684 ug/L	-0.1684 ppb	22:29:18
3	Tl 190.801†	-49.3	-7.7	-2.2061 ug/L	-2.2061 ppb	22:29:38
3	U 409.014†	-4306.6	-128.3	-4.1674 ug/L	-4.1674 ppb	22:29:18
3	V 292.402†	-1711.7	-62.1	-0.4278 ug/L	-0.4278 ppb	22:29:18
3	Zn 213.857†	722.8	2.3	0.0147 ug/L	0.0147 ppb	22:29:38
3	SiO2†	608.7	97.0	6.1540 ug/L	6.1540 ppb	22:29:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	831059.6	96.103 %		1.9380			2.02%
Sc Radial	3703.0	93.5 %		1.67			1.78%
Y 371.029	657798.3	96.438 %		1.8988			1.97%
Y RADIAL	4173.6	91.96 %		4.386			4.77%
Ag 328.068†	29.3	0.1459 ug/L		0.20782	0.1459 ppb	0.20782	142.46%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-16.6	-14.963 ug/L		22.7535	-14.963 ppb	22.7535	152.07%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	14.1	5.3803 ug/L		3.47355	5.3803 ppb	3.47355	64.56%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-3.1	-0.0699 ug/L		0.01936	-0.0699 ppb	0.01936	27.71%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	2.5	0.0181 ug/L		0.12342	0.0181 ppb	0.12342	681.04%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	87.1	0.0292 ug/L		0.00701	0.0292 ppb	0.00701	24.02%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	0.3	0.4989 ug/L		2.07698	0.4989 ppb	2.07698	416.33%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-29.6	-0.3124 ug/L	0.03615	-0.3124 ppb	0.03615	11.57%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-2.4	-0.0428 ug/L	0.10586	-0.0428 ppb	0.10586	247.55%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-6.2	-0.0630 ug/L	0.33670	-0.0630 ppb	0.33670	534.32%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	211.5	0.6130 ug/L	0.35006	0.6130 ppb	0.35006	57.10%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	2.1	25.501 ug/L	19.6551	25.501 ppb	19.6551	77.08%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	318.6	55.560 ug/L	21.1941	55.560 ppb	21.1941	38.15%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.6	-26.643 ug/L	64.5943	-26.643 ppb	64.5943	242.45%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	75.4	0.0808 ug/L	0.01311	0.0808 ppb	0.01311	16.22%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	8.1	0.5544 ug/L	0.65965	0.5544 ppb	0.65965	118.98%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-160.2	-45.937 ug/L	16.0181	-45.937 ppb	16.0181	34.87%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	12.8	0.2919 ug/L	0.43936	0.2919 ppb	0.43936	150.50%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.4	-0.3924 ug/L	2.55486	-0.3924 ppb	2.55486	651.04%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-12.8	-1.4048 ug/L	1.69357	-1.4048 ppb	1.69357	120.55%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-3.7	-4.4416 ug/L	9.61424	-4.4416 ppb	9.61424	216.46%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	12.3	3.7591 ug/L	1.48488	3.7591 ppb	1.48488	39.50%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.2	-1.1281 ug/L	1.04636	-1.1281 ppb	1.04636	92.75%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	97.2	2.8854 ug/L	0.23704	2.8854 ppb	0.23704	8.22%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-14.0	-2.2698 ug/L	0.66765	-2.2698 ppb	0.66765	29.41%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	47.2	0.3187 ug/L	0.00633	0.3187 ppb	0.00633	1.98%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-155.9	-0.2333 ug/L	0.20261	-0.2333 ppb	0.20261	86.83%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.7	0.2029 ug/L	2.30742	0.2029 ppb	2.30742	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-260.4	-8.4549 ug/L	6.62541	-8.4549 ppb	6.62541	78.36%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-91.2	-0.6454 ug/L	0.26715	-0.6454 ppb	0.26715	41.39%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	10.1	0.0809 ug/L	0.18892	0.0809 ppb	0.18892	233.59%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	79.8	5.0804 ug/L	1.11854	5.0804 ppb	1.11854	22.02%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 68

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/3/2010 23:42:24

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	3705.2	3705.2	93.6 %		23:44:36
1	Y RADIAL	3942.3	3942.3	86.87 %		23:44:16
1	Al 396.153Radial†	5259.2	5816.7	5202.1 ug/L	5202.1 ppb	23:44:16
1	Ca 317.933Radial†	2485.1	2639.8	5233.7 ug/L	5233.7 ppb	23:44:36
1	Fe 238.204 Radial†	422.9	440.2	5257.0 ug/L	5257.0 ppb	23:44:36
1	K 766.490 Radial†	30051.4	29087.4	5065.1 ug/L	5065.1 ppb	23:44:16
1	Mg 279.077 IEC†	115.9	120.6	5248.0 ug/L	5248.0 ppb	23:44:36
1	Na 589.592 Radial†	29353.1	32957.0	9449.9 ug/L	9449.9 ppb	23:44:16
1	Sr 421.552†	67545.5	72190.5	487.64 ug/L	487.64 ppb	23:44:16
1	Sc 361.383	864756.7	864756.7	99.999 %		23:45:35
1	Y 371.029	672075.4	672075.4	98.532 %		23:45:35
1	Ag 328.068†	106819.4	106384.8	486.14 ug/L	486.14 ppb	23:45:35
1	As 188.979†	1207.7	1243.1	478.44 ug/L	478.44 ppb	23:45:55
1	B 249.677†	21515.3	22122.2	467.85 ug/L	467.85 ppb	23:45:35
1	Ba 233.527†	63913.0	63931.4	482.91 ug/L	482.91 ppb	23:45:35
1	Be 313.107†	1414007.8	1417959.4	484.59 ug/L	484.59 ppb	23:45:35
1	Cd 226.502†	45848.8	46048.6	480.21 ug/L	480.21 ppb	23:45:35
1	Co 228.616†	25201.1	25287.6	470.19 ug/L	470.19 ppb	23:45:55
1	Cr 267.716†	45371.0	45282.2	483.69 ug/L	483.69 ppb	23:45:35
1	Cu 324.752†	174375.0	167527.6	480.87 ug/L	480.87 ppb	23:45:35
1	Mn 257.610†	470709.2	470219.3	481.70 ug/L	481.70 ppb	23:45:35
1	Mo 202.031†	7080.2	7077.4	482.66 ug/L	482.66 ppb	23:45:55
1	Ni 231.604†	20941.4	20858.3	473.65 ug/L	473.65 ppb	23:45:55
1	P 214.914†	4881.8	4647.4	2268.6 ug/L	2268.6 ppb	23:45:55
1	Pb 220.353†	4308.4	4379.6	480.76 ug/L	480.76 ppb	23:45:55
1	S 181.975 Axial†	821.2	769.3	929.95 ug/L	929.95 ppb	23:45:55
1	Sb 206.836†	1561.4	1525.9	486.92 ug/L	486.92 ppb	23:45:55
1	Se 196.026†	857.7	887.2	498.30 ug/L	498.30 ppb	23:45:55
1	Si 251.611†	82375.9	81886.8	2430.5 ug/L	2430.5 ppb	23:45:35
1	Sn 189.927†	2937.9	2920.2	475.03 ug/L	475.03 ppb	23:45:55
1	Ti 334.940†	318715.3	320411.6	491.84 ug/L	491.84 ppb	23:45:35
1	Tl 190.801†	1631.1	1674.3	481.89 ug/L	481.89 ppb	23:45:55
1	U 409.014†	9976.7	14301.6	462.45 ug/L	462.45 ppb	23:45:35
1	V 292.402†	67663.8	69371.9	487.90 ug/L	487.90 ppb	23:45:35
1	Zn 213.857†	57000.6	56255.8	477.04 ug/L	477.04 ppb	23:45:35
1	SiO2†	81964.8	81432.8	5184.3 ug/L	5184.3 ppb	23:46:55
2	Sc Radial	3725.3	3725.3	94.1 %		23:45:01
2	Y RADIAL	4111.6	4111.6	90.59 %		23:44:41
2	Al 396.153Radial†	5142.5	5662.4	5063.2 ug/L	5063.2 ppb	23:44:41
2	Ca 317.933Radial†	2466.3	2605.5	5165.7 ug/L	5165.7 ppb	23:45:01
2	Fe 238.204 Radial†	417.4	431.9	5158.1 ug/L	5158.1 ppb	23:45:01
2	K 766.490 Radial†	29552.3	28383.7	4942.5 ug/L	4942.5 ppb	23:44:41
2	Mg 279.077 IEC†	112.9	116.7	5076.8 ug/L	5076.8 ppb	23:45:01
2	Na 589.592 Radial†	28728.7	32124.0	9211.1 ug/L	9211.1 ppb	23:44:41
2	Sr 421.552†	66386.3	70568.8	476.69 ug/L	476.69 ppb	23:44:41
2	Sc 361.383	856693.2	856693.2	99.067 %		23:46:03
2	Y 371.029	667599.6	667599.6	97.875 %		23:46:03
2	Ag 328.068†	105944.0	106506.6	486.67 ug/L	486.67 ppb	23:46:03
2	As 188.979†	1210.4	1257.3	483.81 ug/L	483.81 ppb	23:46:23
2	B 249.677†	21424.1	22232.7	470.19 ug/L	470.19 ppb	23:46:03
2	Ba 233.527†	63466.8	64082.6	484.05 ug/L	484.05 ppb	23:46:03
2	Be 313.107†	1408436.0	1425644.2	487.22 ug/L	487.22 ppb	23:46:03
2	Cd 226.502†	45519.6	46147.9	481.26 ug/L	481.26 ppb	23:46:03
2	Co 228.616†	25297.5	25622.1	476.42 ug/L	476.42 ppb	23:46:23
2	Cr 267.716†	45049.7	45384.9	484.79 ug/L	484.79 ppb	23:46:03
2	Cu 324.752†	173174.1	167956.7	482.10 ug/L	482.10 ppb	23:46:03
2	Mn 257.610†	467195.6	471103.0	482.61 ug/L	482.61 ppb	23:46:03
2	Mo 202.031†	7089.1	7153.0	487.81 ug/L	487.81 ppb	23:46:23
2	Ni 231.604†	21020.9	21135.6	479.94 ug/L	479.94 ppb	23:46:23

2	P 214.914†	4882.3	4693.8	2292.1 ug/L	2292.1 ppb	23:46:23
2	Pb 220.353†	4319.8	4431.6	486.45 ug/L	486.45 ppb	23:46:23
2	S 181.975 Axial†	840.0	796.0	962.22 ug/L	962.22 ppb	23:46:23
2	Sb 206.836†	1566.4	1545.6	493.26 ug/L	493.26 ppb	23:46:23
2	Se 196.026†	840.0	877.4	492.72 ug/L	492.72 ppb	23:46:23
2	Si 251.611†	81716.3	81996.3	2433.7 ug/L	2433.7 ppb	23:46:03
2	Sn 189.927†	2972.3	2982.6	485.15 ug/L	485.15 ppb	23:46:23
2	Ti 334.940†	316397.7	321072.0	492.86 ug/L	492.86 ppb	23:46:03
2	Tl 190.801†	1624.4	1682.9	484.32 ug/L	484.32 ppb	23:46:23
2	U 409.014†	9858.0	14275.6	461.62 ug/L	461.62 ppb	23:46:03
2	V 292.402†	67172.8	69513.2	488.96 ug/L	488.96 ppb	23:46:03
2	Zn 213.857†	56558.6	56346.2	477.78 ug/L	477.78 ppb	23:46:03
2	SiO2†	82504.1	82748.7	5268.1 ug/L	5268.1 ppb	23:47:01
3	Sc Radial	3771.2	3771.2	95.2 %		23:45:26
3	Y RADIAL	4191.8	4191.8	92.36 %		23:45:06
3	Al 396.153Radial†	5241.4	5699.5	5096.1 ug/L	5096.1 ppb	23:45:06
3	Ca 317.933Radial†	2533.8	2644.4	5242.8 ug/L	5242.8 ppb	23:45:26
3	Fe 238.204 Radial†	425.5	434.9	5194.8 ug/L	5194.8 ppb	23:45:26
3	K 766.490 Radial†	30095.4	28571.2	4975.1 ug/L	4975.1 ppb	23:45:06
3	Mg 279.077 IEC†	119.8	122.5	5331.1 ug/L	5331.1 ppb	23:45:26
3	Na 589.592 Radial†	29406.2	32463.3	9308.3 ug/L	9308.3 ppb	23:45:06
3	Sr 421.552†	67526.0	70905.6	478.96 ug/L	478.96 ppb	23:45:06
3	Sc 361.383	841868.1	841868.1	97.353 %		23:46:30
3	Y 371.029	656706.3	656706.3	96.278 %		23:46:30
3	Ag 328.068†	106683.0	109149.0	498.71 ug/L	498.71 ppb	23:46:30
3	As 188.979†	1231.2	1300.2	500.25 ug/L	500.25 ppb	23:46:50
3	B 249.677†	21569.3	22762.7	481.42 ug/L	481.42 ppb	23:46:30
3	Ba 233.527†	63806.7	65559.8	495.21 ug/L	495.21 ppb	23:46:30
3	Be 313.107†	1419527.2	1462073.0	499.66 ug/L	499.66 ppb	23:46:30
3	Cd 226.502†	45787.5	47232.2	492.58 ug/L	492.58 ppb	23:46:30
3	Co 228.616†	25376.7	26153.1	486.29 ug/L	486.29 ppb	23:46:50
3	Cr 267.716†	45412.4	46558.3	497.32 ug/L	497.32 ppb	23:46:30
3	Cu 324.752†	174106.7	171992.9	493.68 ug/L	493.68 ppb	23:46:30
3	Mn 257.610†	469856.1	482140.7	493.90 ug/L	493.90 ppb	23:46:30
3	Mo 202.031†	7117.0	7307.7	498.35 ug/L	498.35 ppb	23:46:50
3	Ni 231.604†	21093.8	21584.2	490.13 ug/L	490.13 ppb	23:46:50
3	P 214.914†	4885.7	4784.1	2335.8 ug/L	2335.8 ppb	23:46:50
3	Pb 220.353†	4334.6	4523.6	496.53 ug/L	496.53 ppb	23:46:50
3	S 181.975 Axial†	819.3	789.7	954.63 ug/L	954.63 ppb	23:46:50
3	Sb 206.836†	1571.6	1578.7	503.79 ug/L	503.79 ppb	23:46:50
3	Se 196.026†	846.0	898.5	504.26 ug/L	504.26 ppb	23:46:50
3	Si 251.611†	82109.7	83853.0	2488.8 ug/L	2488.8 ppb	23:46:30
3	Sn 189.927†	2956.8	3019.5	491.16 ug/L	491.16 ppb	23:46:50
3	Ti 334.940†	318068.4	328412.3	504.11 ug/L	504.11 ppb	23:46:30
3	Tl 190.801†	1635.2	1722.9	495.83 ug/L	495.83 ppb	23:46:50
3	U 409.014†	10009.4	14606.4	472.32 ug/L	472.32 ppb	23:46:30
3	V 292.402†	67811.4	71363.3	501.95 ug/L	501.95 ppb	23:46:30
3	Zn 213.857†	56958.8	57762.6	489.81 ug/L	489.81 ppb	23:46:30
3	SiO2†	83048.7	84774.6	5397.1 ug/L	5397.1 ppb	23:47:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854439.3	98.806 %	1.3425			1.36%
Sc Radial	3733.9	94.3 %	0.85			0.91%
Y 371.029	665460.4	97.562 %	1.1589			1.19%
Y RADIAL	4081.9	89.94 %	2.806			3.12%
Ag 328.068†	107346.8	490.51 ug/L	7.112	490.51 ppb	7.112	1.45%
QC value within limits for Ag 328.068 Recovery = 98.10%						
Al 396.153Radial†	5726.2	5120.5 ug/L	72.60	5120.5 ppb	72.60	1.42%
QC value within limits for Al 396.153Radial Recovery = 102.41%						
As 188.979†	1266.9	487.50 ug/L	11.364	487.50 ppb	11.364	2.33%
QC value within limits for As 188.979 Recovery = 97.50%						
B 249.677†	22372.5	473.15 ug/L	7.254	473.15 ppb	7.254	1.53%
QC value within limits for B 249.677 Recovery = 94.63%						
Ba 233.527†	64524.6	487.39 ug/L	6.796	487.39 ppb	6.796	1.39%
QC value within limits for Ba 233.527 Recovery = 97.48%						
Be 313.107†	1435225.5	490.49 ug/L	8.051	490.49 ppb	8.051	1.64%
QC value within limits for Be 313.107 Recovery = 98.10%						
Ca 317.933Radial†	2629.9	5214.1 ug/L	42.14	5214.1 ppb	42.14	0.81%

QC value within limits for Ca 317.933Radial Recovery = 104.28%							
Cd 226.502†	46476.2	484.68 ug/L	6.856	484.68 ppb	6.856	1.41%	
QC value within limits for Cd 226.502 Recovery = 96.94%							
Co 228.616†	25687.6	477.63 ug/L	8.120	477.63 ppb	8.120	1.70%	
QC value within limits for Co 228.616 Recovery = 95.53%							
Cr 267.716†	45741.8	488.60 ug/L	7.572	488.60 ppb	7.572	1.55%	
QC value within limits for Cr 267.716 Recovery = 97.72%							
Cu 324.752†	169159.1	485.55 ug/L	7.067	485.55 ppb	7.067	1.46%	
QC value within limits for Cu 324.752 Recovery = 97.11%							
Fe 238.204 Radial†	435.7	5203.3 ug/L	50.01	5203.3 ppb	50.01	0.96%	
QC value within limits for Fe 238.204 Radial Recovery = 104.07%							
K 766.490 Radial†	28680.8	4994.2 ug/L	63.49	4994.2 ppb	63.49	1.27%	
QC value within limits for K 766.490 Radial Recovery = 99.88%							
Mg 279.077 IEC†	119.9	5218.6 ug/L	129.66	5218.6 ppb	129.66	2.48%	
QC value within limits for Mg 279.077 IEC Recovery = 104.37%							
Mn 257.610†	474487.7	486.07 ug/L	6.796	486.07 ppb	6.796	1.40%	
QC value within limits for Mn 257.610 Recovery = 97.21%							
Mo 202.031†	7179.4	489.61 ug/L	7.998	489.61 ppb	7.998	1.63%	
QC value within limits for Mo 202.031 Recovery = 97.92%							
Na 589.592 Radial†	32514.8	9323.1 ug/L	120.10	9323.1 ppb	120.10	1.29%	
QC value within limits for Na 589.592 Radial Recovery = 93.23%							
Ni 231.604†	21192.7	481.24 ug/L	8.318	481.24 ppb	8.318	1.73%	
QC value within limits for Ni 231.604 Recovery = 96.25%							
P 214.914†	4708.4	2298.8 ug/L	34.07	2298.8 ppb	34.07	1.48%	
QC value within limits for P 214.914 Recovery = 91.95%							
Pb 220.353†	4444.9	487.91 ug/L	7.989	487.91 ppb	7.989	1.64%	
QC value within limits for Pb 220.353 Recovery = 97.58%							
S 181.975 Axial†	785.0	948.93 ug/L	16.872	948.93 ppb	16.872	1.78%	
QC value within limits for S 181.975 Axial Recovery = 94.89%							
Sb 206.836†	1550.1	494.66 ug/L	8.519	494.66 ppb	8.519	1.72%	
QC value within limits for Sb 206.836 Recovery = 98.93%							
Se 196.026†	887.7	498.43 ug/L	5.773	498.43 ppb	5.773	1.16%	
QC value within limits for Se 196.026 Recovery = 99.69%							
Si 251.611†	82578.7	2451.0 ug/L	32.78	2451.0 ppb	32.78	1.34%	
QC value within limits for Si 251.611 Recovery = 98.04%							
Sn 189.927†	2974.1	483.78 ug/L	8.148	483.78 ppb	8.148	1.68%	
QC value within limits for Sn 189.927 Recovery = 96.76%							
Sr 421.552†	71221.7	481.10 ug/L	5.781	481.10 ppb	5.781	1.20%	
QC value within limits for Sr 421.552 Recovery = 96.22%							
Ti 334.940†	323298.7	496.27 ug/L	6.809	496.27 ppb	6.809	1.37%	
QC value within limits for Ti 334.940 Recovery = 99.25%							
Tl 190.801†	1693.4	487.35 ug/L	7.446	487.35 ppb	7.446	1.53%	
QC value within limits for Tl 190.801 Recovery = 97.47%							
U 409.014†	14394.5	465.47 ug/L	5.953	465.47 ppb	5.953	1.28%	
QC value within limits for U 409.014 Recovery = 93.09%							
V 292.402†	70082.8	492.93 ug/L	7.827	492.93 ppb	7.827	1.59%	
QC value within limits for V 292.402 Recovery = 98.59%							
Zn 213.857†	56788.2	481.54 ug/L	7.170	481.54 ppb	7.170	1.49%	
QC value within limits for Zn 213.857 Recovery = 96.31%							
SiO2†	82985.4	5283.2 ug/L	107.22	5283.2 ppb	107.22	2.03%	
QC value within limits for SiO2 Recovery = 98.80%							
All analyte(s) passed QC.							

Sequence No.: 69

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/3/2010 23:49:16

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	3736.0	3736.0	94.3 %		23:51:27
1	Y RADIAL	4235.4	4235.4	93.32 %		23:51:07
1	Al 396.153Radial†	-200.2	-16.4	-14.750 ug/L	-14.750 ppb	23:51:07
1	Ca 317.933Radial†	15.3	-0.1	-0.2176 ug/L	-0.2176 ppb	23:51:27
1	Fe 238.204 Radial†	12.0	1.0	11.352 ug/L	11.352 ppb	23:51:27
1	K 766.490 Radial†	3219.1	381.5	66.520 ug/L	66.520 ppb	23:51:07
1	Mg 279.077 IEC†	1.4	-1.9	-81.027 ug/L	-81.027 ppb	23:51:27
1	Na 589.592 Radial†	-1633.2	-146.0	-41.851 ug/L	-41.851 ppb	23:51:07
1	Sr 421.552†	6.1	6.0	0.0407 ug/L	0.0407 ppb	23:51:07
1	Sc 361.383	844919.9	844919.9	97.706 %		23:52:24
1	Y 371.029	666930.4	666930.4	97.777 %		23:52:24
1	Ag 328.068†	399.8	-26.0	-0.1121 ug/L	-0.1121 ppb	23:52:24
1	As 188.979†	-26.4	8.4	3.2046 ug/L	3.2046 ppb	23:52:44
1	B 249.677†	-566.3	27.2	0.5775 ug/L	0.5775 ppb	23:52:24
1	Ba 233.527†	0.4	18.5	0.1384 ug/L	0.1384 ppb	23:52:44
1	Be 313.107†	-3848.3	5.4	0.0016 ug/L	0.0016 ppb	23:52:24
1	Cd 226.502†	-209.8	-15.1	-0.1591 ug/L	-0.1591 ppb	23:52:44
1	Co 228.616†	-91.0	-6.8	-0.1240 ug/L	-0.1240 ppb	23:52:44
1	Cr 267.716†	19.7	-68.9	-0.7338 ug/L	-0.7338 ppb	23:52:24
1	Cu 324.752†	6892.1	205.6	0.5936 ug/L	0.5936 ppb	23:52:24
1	Mn 257.610†	653.8	176.7	0.1853 ug/L	0.1853 ppb	23:52:44
1	Mo 202.031†	14.6	12.2	0.8287 ug/L	0.8287 ppb	23:52:44
1	Ni 231.604†	94.4	13.4	0.3053 ug/L	0.3053 ppb	23:52:44
1	P 214.914†	238.5	9.7	4.7786 ug/L	4.7786 ppb	23:52:44
1	Pb 220.353†	-93.5	-24.5	-2.6830 ug/L	-2.6830 ppb	23:52:44
1	S 181.975 Axial†	42.7	-8.3	-9.9902 ug/L	-9.9902 ppb	23:52:44
1	Sb 206.836†	38.0	3.3	1.0420 ug/L	1.0420 ppb	23:52:44
1	Se 196.026†	-18.4	10.7	5.8409 ug/L	5.8409 ppb	23:52:44
1	Si 251.611†	571.5	95.4	2.8275 ug/L	2.8275 ppb	23:52:44
1	Sn 189.927†	17.2	-0.0	-0.0036 ug/L	-0.0036 ppb	23:52:44
1	Ti 334.940†	-1715.4	-61.1	-0.0848 ug/L	-0.0848 ppb	23:52:24
1	Tl 190.801†	-37.1	5.2	1.4953 ug/L	1.4953 ppb	23:52:44
1	U 409.014†	-4373.9	-151.9	-4.9279 ug/L	-4.9279 ppb	23:52:24
1	V 292.402†	-1745.0	-78.2	-0.5433 ug/L	-0.5433 ppb	23:52:24
1	Zn 213.857†	725.9	-2.2	-0.0224 ug/L	-0.0224 ppb	23:52:44
1	SiO2†	683.4	167.0	10.634 ug/L	10.634 ppb	23:53:40
2	Sc Radial	3730.8	3730.8	94.2 %		23:51:52
2	Y RADIAL	4164.3	4164.3	91.76 %		23:51:32
2	Al 396.153Radial†	-193.3	-9.4	-8.4794 ug/L	-8.4794 ppb	23:51:32
2	Ca 317.933Radial†	15.4	0.0	0.0677 ug/L	0.0677 ppb	23:51:52
2	Fe 238.204 Radial†	12.7	1.7	19.794 ug/L	19.794 ppb	23:51:52
2	K 766.490 Radial†	3139.6	301.7	52.614 ug/L	52.614 ppb	23:51:32
2	Mg 279.077 IEC†	1.7	-1.5	-64.547 ug/L	-64.547 ppb	23:51:52
2	Na 589.592 Radial†	-1565.3	-76.3	-21.879 ug/L	-21.879 ppb	23:51:32
2	Sr 421.552†	24.0	25.0	0.1689 ug/L	0.1689 ppb	23:51:32
2	Sc 361.383	840062.3	840062.3	97.144 %		23:52:50
2	Y 371.029	664353.3	664353.3	97.399 %		23:52:50
2	Ag 328.068†	468.2	46.8	0.2213 ug/L	0.2213 ppb	23:52:50
2	As 188.979†	-26.7	7.9	3.0274 ug/L	3.0274 ppb	23:53:10
2	B 249.677†	-621.4	-32.9	-0.7008 ug/L	-0.7008 ppb	23:52:50
2	Ba 233.527†	-27.0	-9.8	-0.0752 ug/L	-0.0752 ppb	23:53:10
2	Be 313.107†	-3794.0	38.6	0.0132 ug/L	0.0132 ppb	23:52:50
2	Cd 226.502†	-196.2	-2.3	-0.0270 ug/L	-0.0270 ppb	23:53:10
2	Co 228.616†	-96.5	-12.9	-0.2384 ug/L	-0.2384 ppb	23:53:10
2	Cr 267.716†	47.5	-40.2	-0.4266 ug/L	-0.4266 ppb	23:52:50
2	Cu 324.752†	6896.2	250.6	0.7244 ug/L	0.7244 ppb	23:52:50
2	Mn 257.610†	631.5	157.6	0.1660 ug/L	0.1660 ppb	23:53:10
2	Mo 202.031†	14.1	11.7	0.7982 ug/L	0.7982 ppb	23:53:10
2	Ni 231.604†	106.6	26.5	0.6031 ug/L	0.6031 ppb	23:53:10

2	P 214.914†	217.9	-10.2	-5.3615 ug/L	-5.3615 ppb	23:53:10
2	Pb 220.353†	-53.4	16.2	1.7746 ug/L	1.7746 ppb	23:53:10
2	S 181.975 Axial†	49.2	-1.3	-1.5326 ug/L	-1.5326 ppb	23:53:10
2	Sb 206.836†	56.6	22.7	6.9809 ug/L	6.9809 ppb	23:53:10
2	Se 196.026†	-21.3	7.6	4.1995 ug/L	4.1995 ppb	23:53:10
2	Si 251.611†	563.9	90.9	2.6949 ug/L	2.6949 ppb	23:53:10
2	Sn 189.927†	8.4	-9.0	-1.4534 ug/L	-1.4534 ppb	23:53:10
2	Ti 334.940†	-1644.8	1.4	0.0107 ug/L	0.0107 ppb	23:52:50
2	Tl 190.801†	-44.7	-2.8	-0.7914 ug/L	-0.7914 ppb	23:53:10
2	U 409.014†	-4415.0	-220.0	-7.1421 ug/L	-7.1421 ppb	23:52:50
2	V 292.402†	-1786.9	-131.6	-0.9202 ug/L	-0.9202 ppb	23:52:50
2	Zn 213.857†	711.6	-12.6	-0.1142 ug/L	-0.1142 ppb	23:53:10
2	SiO2†	624.5	110.5	7.0296 ug/L	7.0296 ppb	23:53:45
3	Sc Radial	3738.9	3738.9	94.4 %		23:52:17
3	Y RADIAL	4138.6	4138.6	91.19 %		23:51:57
3	Al 396.153Radial†	-193.7	-9.4	-8.4362 ug/L	-8.4362 ppb	23:51:57
3	Ca 317.933Radial†	17.9	2.7	5.3442 ug/L	5.3442 ppb	23:52:17
3	Fe 238.204 Radial†	8.9	-2.4	-28.270 ug/L	-28.270 ppb	23:52:17
3	K 766.490 Radial†	3081.8	233.3	40.689 ug/L	40.689 ppb	23:51:57
3	Mg 279.077 IEC†	0.6	-2.7	-115.88 ug/L	-115.88 ppb	23:52:17
3	Na 589.592 Radial†	-1589.5	-98.3	-28.193 ug/L	-28.193 ppb	23:51:57
3	Sr 421.552†	15.0	15.4	0.1040 ug/L	0.1040 ppb	23:51:57
3	Sc 361.383	842259.6	842259.6	97.398 %		23:53:15
3	Y 371.029	665484.4	665484.4	97.565 %		23:53:15
3	Ag 328.068†	441.0	17.6	0.0715 ug/L	0.0715 ppb	23:53:15
3	As 188.979†	-23.1	11.7	4.4565 ug/L	4.4565 ppb	23:53:35
3	B 249.677†	-615.0	-24.7	-0.5194 ug/L	-0.5194 ppb	23:53:15
3	Ba 233.527†	-8.7	9.1	0.0651 ug/L	0.0651 ppb	23:53:35
3	Be 313.107†	-3779.8	63.3	0.0213 ug/L	0.0213 ppb	23:53:15
3	Cd 226.502†	-217.5	-23.7	-0.2454 ug/L	-0.2454 ppb	23:53:35
3	Co 228.616†	-82.7	1.5	0.0297 ug/L	0.0297 ppb	23:53:35
3	Cr 267.716†	78.1	-8.9	-0.0940 ug/L	-0.0940 ppb	23:53:15
3	Cu 324.752†	6828.5	162.6	0.4694 ug/L	0.4694 ppb	23:53:15
3	Mn 257.610†	631.0	155.4	0.1611 ug/L	0.1611 ppb	23:53:35
3	Mo 202.031†	6.2	3.5	0.2366 ug/L	0.2366 ppb	23:53:35
3	Ni 231.604†	90.6	9.8	0.2234 ug/L	0.2234 ppb	23:53:35
3	P 214.914†	226.9	-1.5	-0.8187 ug/L	-0.8187 ppb	23:53:35
3	Pb 220.353†	-77.9	-8.8	-0.9598 ug/L	-0.9598 ppb	23:53:35
3	S 181.975 Axial†	46.8	-3.9	-4.6848 ug/L	-4.6848 ppb	23:53:35
3	Sb 206.836†	48.1	13.8	4.2506 ug/L	4.2506 ppb	23:53:35
3	Se 196.026†	-26.8	2.0	1.0180 ug/L	1.0180 ppb	23:53:35
3	Si 251.611†	565.3	90.8	2.6991 ug/L	2.6991 ppb	23:53:35
3	Sn 189.927†	13.1	-4.2	-0.6867 ug/L	-0.6867 ppb	23:53:35
3	Ti 334.940†	-1741.4	-93.3	-0.1298 ug/L	-0.1298 ppb	23:53:15
3	Tl 190.801†	-37.4	4.8	1.3848 ug/L	1.3848 ppb	23:53:35
3	U 409.014†	-4434.6	-228.3	-7.4047 ug/L	-7.4047 ppb	23:53:15
3	V 292.402†	-1834.5	-175.7	-1.2285 ug/L	-1.2285 ppb	23:53:15
3	Zn 213.857†	705.4	-20.8	-0.1773 ug/L	-0.1773 ppb	23:53:35
3	SiO2†	550.3	32.6	2.0714 ug/L	2.0714 ppb	23:53:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842413.9	97.416 %	0.2813			0.29%
Sc Radial	3735.2	94.3 %	0.10			0.11%
Y 371.029	665589.4	97.581 %	0.1894			0.19%
Y RADIAL	4179.4	92.09 %	1.105			1.20%
Ag 328.068†	12.8	0.0602 ug/L	0.16702	0.0602 ppb	0.16702	277.38%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-11.7	-10.555 ug/L	3.6327	-10.555 ppb	3.6327	34.42%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	9.3	3.5629 ug/L	0.77899	3.5629 ppb	0.77899	21.86%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-10.1	-0.2142 ug/L	0.69163	-0.2142 ppb	0.69163	322.83%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.9	0.0428 ug/L	0.10852	0.0428 ppb	0.10852	253.63%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	35.7	0.0120 ug/L	0.00986	0.0120 ppb	0.00986	82.10%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.9	1.7315 ug/L	3.13199	1.7315 ppb	3.13199	180.89%

QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	-13.7	-0.1438 ug/L	0.11003	-0.1438 ppb	0.11003	76.50%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-6.1	-0.1109 ug/L	0.13453	-0.1109 ppb	0.13453	121.31%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-39.3	-0.4181 ug/L	0.31996	-0.4181 ppb	0.31996	76.53%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	206.3	0.5958 ug/L	0.12748	0.5958 ppb	0.12748	21.40%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.1	0.9586 ug/L	25.66228	0.9586 ppb	25.66228	>999.9%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	305.5	53.275 ug/L	12.9281	53.275 ppb	12.9281	24.27%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-2.0	-87.153 ug/L	26.2109	-87.153 ppb	26.2109	30.07%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	163.3	0.1708 ug/L	0.01284	0.1708 ppb	0.01284	7.52%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.1	0.6211 ug/L	0.33340	0.6211 ppb	0.33340	53.68%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-106.9	-30.641 ug/L	10.2086	-30.641 ppb	10.2086	33.32%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	16.6	0.3773 ug/L	0.19982	0.3773 ppb	0.19982	52.97%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.7	-0.4672 ug/L	5.07916	-0.4672 ppb	5.07916	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-5.7	-0.6227 ug/L	2.24783	-0.6227 ppb	2.24783	360.97%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-4.5	-5.4025 ug/L	4.27424	-5.4025 ppb	4.27424	79.12%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	13.3	4.0911 ug/L	2.97269	4.0911 ppb	2.97269	72.66%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	6.8	3.6861 ug/L	2.45208	3.6861 ppb	2.45208	66.52%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	92.4	2.7405 ug/L	0.07537	2.7405 ppb	0.07537	2.75%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-4.4	-0.7146 ug/L	0.72533	-0.7146 ppb	0.72533	101.50%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	15.5	0.1045 ug/L	0.06407	0.1045 ppb	0.06407	61.30%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-51.0	-0.0680 ug/L	0.07177	-0.0680 ppb	0.07177	105.59%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.4	0.6962 ug/L	1.28951	0.6962 ppb	1.28951	185.21%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-200.1	-6.4916 ug/L	1.36054	-6.4916 ppb	1.36054	20.96%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-128.5	-0.8973 ug/L	0.34318	-0.8973 ppb	0.34318	38.24%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-11.8	-0.1046 ug/L	0.07792	-0.1046 ppb	0.07792	74.47%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	103.3	6.5784 ug/L	4.29926	6.5784 ppb	4.29926	65.35%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 70

Sample ID: 1202021601|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 75

Date Collected: 2/3/2010 23:56:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021601|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3681.4	3681.4	93.0 %		23:58:13
1	Y RADIAL	4170.1	4170.1	91.89 %		23:57:53
1	Al 396.153Radial†	-142.7	42.3	38.026 ug/L	38.026 ppb	23:57:53
1	Ca 317.933Radial†	33.1	19.3	38.290 ug/L	38.290 ppb	23:58:13
1	Fe 238.204 Radial†	33.5	24.2	288.76 ug/L	288.76 ppb	23:58:13
1	K 766.490 Radial†	3304.9	524.3	91.394 ug/L	91.394 ppb	23:57:53
1	Mg 279.077 IEC†	2.6	-0.5	-24.153 ug/L	-24.153 ppb	23:58:13
1	Na 589.592 Radial†	-1475.5	-2.1	-0.5887 ug/L	-0.5887 ppb	23:57:53
1	Sr 421.552†	21.0	22.2	0.1496 ug/L	0.1496 ppb	23:57:53
1	Sc 361.383	835988.0	835988.0	96.673 %		23:59:10
1	Y 371.029	660609.3	660609.3	96.850 %		23:59:10
1	Ag 328.068†	426.9	6.5	0.1270 ug/L	0.1270 ppb	23:59:10
1	As 188.979†	-25.6	9.0	3.5330 ug/L	3.5330 ppb	23:59:30
1	B 249.677†	-580.7	6.1	0.0833 ug/L	0.0833 ppb	23:59:10
1	Ba 233.527†	389.9	421.3	3.1824 ug/L	3.1824 ppb	23:59:30
1	Be 313.107†	-3830.2	-18.0	0.0021 ug/L	0.0021 ppb	23:59:10
1	Cd 226.502†	-173.3	20.4	0.1830 ug/L	0.1830 ppb	23:59:30
1	Co 228.616†	-93.1	-10.0	-0.1953 ug/L	-0.1953 ppb	23:59:30
1	Cr 267.716†	160.2	76.6	0.8238 ug/L	0.8238 ppb	23:59:10
1	Cu 324.752†	7342.0	746.4	2.1595 ug/L	2.1595 ppb	23:59:10
1	Mn 257.610†	11066.5	10954.9	11.245 ug/L	11.245 ppb	23:59:10
1	Mo 202.031†	5.4	2.7	0.2087 ug/L	0.2087 ppb	23:59:30
1	Ni 231.604†	134.6	56.0	1.2731 ug/L	1.2731 ppb	23:59:30
1	P 214.914†	249.5	23.6	11.362 ug/L	11.362 ppb	23:59:30
1	Pb 220.353†	-64.9	4.0	0.4217 ug/L	0.4217 ppb	23:59:30
1	S 181.975 Axial†	57.2	7.3	8.8182 ug/L	8.8182 ppb	23:59:30
1	Sb 206.836†	49.0	15.1	4.6671 ug/L	4.6671 ppb	23:59:30
1	Se 196.026†	-32.2	-3.8	-1.1450 ug/L	-1.1450 ppb	23:59:30
1	Si 251.611†	1741.3	1311.7	39.026 ug/L	39.026 ppb	23:59:30
1	Sn 189.927†	28.5	11.8	1.9248 ug/L	1.9248 ppb	23:59:30
1	Ti 334.940†	653.8	2370.9	3.6484 ug/L	3.6484 ppb	23:59:10
1	Tl 190.801†	-42.5	-0.8	-0.1348 ug/L	-0.1348 ppb	23:59:30
1	U 409.014†	-4272.5	-94.8	-3.1111 ug/L	-3.1111 ppb	23:59:10
1	V 292.402†	-1716.2	-67.4	-0.5180 ug/L	-0.5180 ppb	23:59:10
1	Zn 213.857†	1248.5	546.4	4.6345 ug/L	4.6345 ppb	23:59:30
1	SiO2†	1813.6	1343.6	85.749 ug/L	85.749 ppb	00:00:26
2	Sc Radial	3701.1	3701.1	93.5 %		23:58:38
2	Y RADIAL	4145.7	4145.7	91.35 %		23:58:18
2	Al 396.153Radial†	-129.6	57.1	51.248 ug/L	51.248 ppb	23:58:18
2	Ca 317.933Radial†	32.0	18.0	35.622 ug/L	35.622 ppb	23:58:38
2	Fe 238.204 Radial†	35.1	25.7	306.13 ug/L	306.13 ppb	23:58:38
2	K 766.490 Radial†	3331.5	533.8	93.045 ug/L	93.045 ppb	23:58:18
2	Mg 279.077 IEC†	2.4	-0.7	-30.131 ug/L	-30.131 ppb	23:58:38
2	Na 589.592 Radial†	-1450.9	32.8	9.3969 ug/L	9.3969 ppb	23:58:18
2	Sr 421.552†	42.5	45.0	0.3040 ug/L	0.3040 ppb	23:58:18
2	Sc 361.383	832366.6	832366.6	96.254 %		23:59:35
2	Y 371.029	657213.7	657213.7	96.353 %		23:59:35
2	Ag 328.068†	477.4	60.9	0.3779 ug/L	0.3779 ppb	23:59:35
2	As 188.979†	-29.4	5.0	1.9922 ug/L	1.9922 ppb	23:59:56
2	B 249.677†	-634.5	-52.4	-1.1627 ug/L	-1.1627 ppb	23:59:35
2	Ba 233.527†	386.4	419.4	3.1684 ug/L	3.1684 ppb	23:59:56
2	Be 313.107†	-3743.5	54.9	0.0278 ug/L	0.0278 ppb	23:59:35
2	Cd 226.502†	-222.0	-31.0	-0.3546 ug/L	-0.3546 ppb	23:59:56
2	Co 228.616†	-86.7	-3.6	-0.0759 ug/L	-0.0759 ppb	23:59:56
2	Cr 267.716†	178.6	96.5	1.0355 ug/L	1.0355 ppb	23:59:35
2	Cu 324.752†	7285.3	720.5	2.0849 ug/L	2.0849 ppb	23:59:35
2	Mn 257.610†	11556.9	11514.2	11.819 ug/L	11.819 ppb	23:59:35
2	Mo 202.031†	24.6	22.7	1.5710 ug/L	1.5710 ppb	23:59:56
2	Ni 231.604†	109.6	30.7	0.6966 ug/L	0.6966 ppb	23:59:56

2	P 214.914†	224.5	-1.2	-1.2426 ug/L	-1.2426 ppb	23:59:56
2	Pb 220.353†	-73.7	-5.4	-0.6006 ug/L	-0.6006 ppb	23:59:56
2	S 181.975 Axial†	66.1	16.7	20.251 ug/L	20.251 ppb	23:59:56
2	Sb 206.836†	41.2	7.3	2.2583 ug/L	2.2583 ppb	23:59:56
2	Se 196.026†	-28.2	0.2	1.0591 ug/L	1.0591 ppb	23:59:56
2	Si 251.611†	1742.6	1320.9	39.283 ug/L	39.283 ppb	23:59:56
2	Sn 189.927†	18.3	1.4	0.2343 ug/L	0.2343 ppb	23:59:56
2	Ti 334.940†	865.9	2594.2	3.9904 ug/L	3.9904 ppb	23:59:35
2	Tl 190.801†	-39.7	2.0	0.6550 ug/L	0.6550 ppb	23:59:56
2	U 409.014†	-4200.3	-39.0	-1.3037 ug/L	-1.3037 ppb	23:59:35
2	V 292.402†	-1721.3	-80.5	-0.5891 ug/L	-0.5891 ppb	23:59:35
2	Zn 213.857†	1237.9	541.0	4.5909 ug/L	4.5909 ppb	23:59:56
2	SiO2†	1872.9	1413.3	90.164 ug/L	90.164 ppb	00:00:31
3	Sc Radial	3683.0	3683.0	93.0 %		23:59:03
3	Y RADIAL	4050.5	4050.5	89.25 %		23:58:43
3	Al 396.153Radial†	-126.9	59.4	53.349 ug/L	53.349 ppb	23:58:43
3	Ca 317.933Radial†	30.6	16.6	32.961 ug/L	32.961 ppb	23:59:03
3	Fe 238.204 Radial†	34.8	25.6	305.03 ug/L	305.03 ppb	23:59:03
3	K 766.490 Radial†	3373.6	596.7	104.01 ug/L	104.01 ppb	23:58:43
3	Mg 279.077 IEC†	3.3	0.2	9.1148 ug/L	9.1148 ppb	23:59:03
3	Na 589.592 Radial†	-1479.7	-5.9	-1.6994 ug/L	-1.6994 ppb	23:58:43
3	Sr 421.552†	41.5	44.2	0.2986 ug/L	0.2986 ppb	23:58:43
3	Sc 361.383	836745.2	836745.2	96.760 %		00:00:01
3	Y 371.029	662202.9	662202.9	97.084 %		00:00:01
3	Ag 328.068†	457.5	37.7	0.2731 ug/L	0.2731 ppb	00:00:01
3	As 188.979†	-26.8	7.8	3.0596 ug/L	3.0596 ppb	00:00:21
3	B 249.677†	-545.1	43.5	0.8741 ug/L	0.8741 ppb	00:00:01
3	Ba 233.527†	390.8	421.9	3.1871 ug/L	3.1871 ppb	00:00:21
3	Be 313.107†	-3720.9	98.6	0.0422 ug/L	0.0422 ppb	00:00:01
3	Cd 226.502†	-189.8	3.5	0.0052 ug/L	0.0052 ppb	00:00:21
3	Co 228.616†	-82.6	1.0	0.0091 ug/L	0.0091 ppb	00:00:21
3	Cr 267.716†	153.5	69.6	0.7485 ug/L	0.7485 ppb	00:00:01
3	Cu 324.752†	7276.9	672.2	1.9470 ug/L	1.9470 ppb	00:00:01
3	Mn 257.610†	11128.1	11008.2	11.300 ug/L	11.300 ppb	00:00:01
3	Mo 202.031†	12.4	10.0	0.7036 ug/L	0.7036 ppb	00:00:21
3	Ni 231.604†	145.5	67.1	1.5257 ug/L	1.5257 ppb	00:00:21
3	P 214.914†	235.9	9.3	4.1200 ug/L	4.1200 ppb	00:00:21
3	Pb 220.353†	-60.4	8.7	0.9392 ug/L	0.9392 ppb	00:00:21
3	S 181.975 Axial†	65.0	15.2	18.412 ug/L	18.412 ppb	00:00:21
3	Sb 206.836†	51.3	17.5	5.3946 ug/L	5.3946 ppb	00:00:21
3	Se 196.026†	-29.8	-1.3	0.2458 ug/L	0.2458 ppb	00:00:21
3	Si 251.611†	1727.3	1295.6	38.541 ug/L	38.541 ppb	00:00:21
3	Sn 189.927†	21.1	4.2	0.6905 ug/L	0.6905 ppb	00:00:21
3	Ti 334.940†	750.4	2470.2	3.7970 ug/L	3.7970 ppb	00:00:01
3	Tl 190.801†	-32.3	9.8	2.8952 ug/L	2.8952 ppb	00:00:21
3	U 409.014†	-4259.7	-77.6	-2.5536 ug/L	-2.5536 ppb	00:00:01
3	V 292.402†	-1736.9	-87.2	-0.6494 ug/L	-0.6494 ppb	00:00:01
3	Zn 213.857†	1244.7	541.2	4.5879 ug/L	4.5879 ppb	00:00:21
3	SiO2†	1849.2	1378.7	87.975 ug/L	87.975 ppb	00:00:36

Mean Data: 1202021601|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835033.3	96.562 %	%	0.2706			0.28%
Sc Radial	3688.5	93.1 %	%	0.28			0.30%
Y 371.029	660008.6	96.762 %	%	0.3736			0.39%
Y RADIAL	4122.1	90.83 %	%	1.393			1.53%
Ag 328.068†	35.0	0.2594 ug/L	ug/L	0.12602	0.2594 ppb	0.12602	48.59%
Al 396.153Radial†	53.0	47.541 ug/L	ug/L	8.3068	47.541 ppb	8.3068	17.47%
As 188.979†	7.2	2.8616 ug/L	ug/L	0.78922	2.8616 ppb	0.78922	27.58%
B 249.677†	-0.9	-0.0684 ug/L	ug/L	1.02686	-0.0684 ppb	1.02686	>999.9%
Ba 233.527†	420.9	3.1793 ug/L	ug/L	0.00973	3.1793 ppb	0.00973	0.31%
Be 313.107†	45.2	0.0240 ug/L	ug/L	0.02030	0.0240 ppb	0.02030	84.46%
Ca 317.933Radial†	18.0	35.624 ug/L	ug/L	2.6642	35.624 ppb	2.6642	7.48%
Cd 226.502†	-2.4	-0.0555 ug/L	ug/L	0.27387	-0.0555 ppb	0.27387	493.89%
Co 228.616†	-4.2	-0.0874 ug/L	ug/L	0.10266	-0.0874 ppb	0.10266	117.51%
Cr 267.716†	80.9	0.8693 ug/L	ug/L	0.14883	0.8693 ppb	0.14883	17.12%
Cu 324.752†	713.1	2.0638 ug/L	ug/L	0.10781	2.0638 ppb	0.10781	5.22%
Fe 238.204 Radial†	25.2	299.98 ug/L	ug/L	9.725	299.98 ppb	9.725	3.24%
K 766.490 Radial†	551.6	96.151 ug/L	ug/L	6.8598	96.151 ppb	6.8598	7.13%

Mg 279.077 IEC†	-0.3	-15.056 ug/L	21.1451	-15.056 ppb	21.1451	140.44%
Mn 257.610†	11159.1	11.455 ug/L	0.3171	11.455 ppb	0.3171	2.77%
Mo 202.031†	11.8	0.8278 ug/L	0.68958	0.8278 ppb	0.68958	83.31%
Na 589.592 Radial†	8.3	2.3696 ug/L	6.11109	2.3696 ppb	6.11109	257.90%
Ni 231.604†	51.3	1.1652 ug/L	0.42497	1.1652 ppb	0.42497	36.47%
P 214.914†	10.6	4.7464 ug/L	6.32552	4.7464 ppb	6.32552	133.27%
Pb 220.353†	2.5	0.2534 ug/L	0.78360	0.2534 ppb	0.78360	309.21%
S 181.975 Axial†	13.1	15.827 ug/L	6.1392	15.827 ppb	6.1392	38.79%
Sb 206.836†	13.3	4.1067 ug/L	1.64157	4.1067 ppb	1.64157	39.97%
Se 196.026†	-1.6	0.0533 ug/L	1.11461	0.0533 ppb	1.11461	>999.9%
Si 251.611†	1309.4	38.950 ug/L	0.3766	38.950 ppb	0.3766	0.97%
Sn 189.927†	5.8	0.9499 ug/L	0.87460	0.9499 ppb	0.87460	92.08%
Sr 421.552†	37.2	0.2507 ug/L	0.08763	0.2507 ppb	0.08763	34.95%
Ti 334.940†	2478.4	3.8119 ug/L	0.17149	3.8119 ppb	0.17149	4.50%
Tl 190.801†	3.7	1.1385 ug/L	1.57179	1.1385 ppb	1.57179	138.06%
U 409.014†	-70.5	-2.3228 ug/L	0.92556	-2.3228 ppb	0.92556	39.85%
V 292.402†	-78.4	-0.5855 ug/L	0.06579	-0.5855 ppb	0.06579	11.24%
Zn 213.857†	542.9	4.6044 ug/L	0.02609	4.6044 ppb	0.02609	0.57%
SiO2†	1378.5	87.963 ug/L	2.2073	87.963 ppb	2.2073	2.51%

Sequence No.: 71

Sample ID: 1202021606|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 76

Date Collected: 2/4/2010 00:02:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021606|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3883.7	3883.7	98.1 %		00:05:01
1	Y RADIAL	4593.2	4593.2	101.2 %		00:05:01
1	Al 396.153Radial†	93639.5	95673.8	85924 ug/L	85924 ppb	00:04:41
1	Ca 317.933Radial†	50612.4	51589.8	102280 ug/L	102280 ppb	00:04:41
1	Fe 238.204 Radial†	14210.5	14477.7	172460 ug/L	172460 ppb	00:05:01
1	K 766.490 Radial†	225211.7	226602.8	39467 ug/L	39467 ppb	00:04:41
1	Mg 279.077 IEC†	844.8	858.1	37169 ug/L	37169 ppb	00:05:01
1	Na 589.592 Radial†	30316.7	32497.1	9318.0 ug/L	9318.0 ppb	00:04:41
1	Sr 421.552†	323133.7	329477.7	2225.0 ug/L	2225.0 ppb	00:04:41
1	Sc 361.383	854726.2	854726.2	98.840 %		00:06:02
1	Y 371.029	721742.5	721742.5	105.81 %		00:06:02
1	Ag 328.068†	53910.8	54108.6	307.52 ug/L	307.52 ppb	00:06:02
1	As 188.979†	2514.2	2579.2	1068.2 ug/L	1068.2 ppb	00:06:08
1	B 249.677†	72750.8	74211.7	1546.1 ug/L	1546.1 ppb	00:06:02
1	Ba 233.527†	243514.9	246392.0	1864.4 ug/L	1864.4 ppb	00:06:02
1	Be 313.107†	2314603.7	2345722.8	811.71 ug/L	811.71 ppb	00:06:02
1	Cd 226.502†	58709.1	59598.0	604.76 ug/L	604.76 ppb	00:06:08
1	Co 228.616†	50520.9	51200.4	939.39 ug/L	939.39 ppb	00:06:08
1	Cr 267.716†	242690.6	245450.9	2623.8 ug/L	2623.8 ppb	00:06:02
1	Cu 324.752†	658961.7	659850.1	1903.2 ug/L	1903.2 ppb	00:06:02
1	Mn 257.610†	5206407.8	5267042.1	5407.8 ug/L	5407.8 ppb	00:06:02
1	Mo 202.031†	7469.4	7554.2	529.29 ug/L	529.29 ppb	00:06:08
1	Ni 231.604†	61461.2	62099.6	1410.4 ug/L	1410.4 ppb	00:06:08
1	P 214.914†	14076.4	14007.2	6636.2 ug/L	6636.2 ppb	00:06:08
1	Pb 220.353†	6640.1	6789.2	746.74 ug/L	746.74 ppb	00:06:08
1	S 181.975 Axial†	3372.5	3360.2	4049.9 ug/L	4049.9 ppb	00:06:08
1	Sb 206.836†	4954.1	4976.8	1540.5 ug/L	1540.5 ppb	00:06:08
1	Se 196.026†	4556.8	4639.8	3046.5 ug/L	3046.5 ppb	00:06:08
1	Si 251.611†	871296.7	881036.8	26207 ug/L	26207 ppb	00:06:02
1	Sn 189.927†	5800.7	5851.2	968.48 ug/L	968.48 ppb	00:06:08
1	Ti 334.940†	3372634.3	3413925.9	5251.4 ug/L	5251.4 ppb	00:06:02
1	Tl 190.801†	3916.7	4005.9	1207.5 ug/L	1207.5 ppb	00:06:08
1	U 409.014†	-9032.2	-4813.5	-181.73 ug/L	-181.73 ppb	00:06:02
1	V 292.402†	173754.5	177502.4	1208.2 ug/L	1208.2 ppb	00:06:02
1	Zn 213.857†	689114.3	696459.9	5929.3 ug/L	5929.3 ppb	00:06:02
1	SiO2†	860057.0	869622.2	55489 ug/L	55489 ppb	00:06:43
2	Sc Radial	3880.9	3880.9	98.0 %		00:05:26
2	Y RADIAL	4593.9	4593.9	101.2 %		00:05:26
2	Al 396.153Radial†	95505.5	97648.4	87698 ug/L	87698 ppb	00:05:06
2	Ca 317.933Radial†	51426.4	52458.6	104010 ug/L	104010 ppb	00:05:06
2	Fe 238.204 Radial†	14162.8	14439.7	172010 ug/L	172010 ppb	00:05:26
2	K 766.490 Radial†	229058.8	230697.9	40180 ug/L	40180 ppb	00:05:06
2	Mg 279.077 IEC†	840.6	854.4	37009 ug/L	37009 ppb	00:05:26
2	Na 589.592 Radial†	30807.8	33021.0	9468.2 ug/L	9468.2 ppb	00:05:06
2	Sr 421.552†	329040.2	335747.9	2267.4 ug/L	2267.4 ppb	00:05:06
2	Sc 361.383	855277.9	855277.9	98.903 %		00:06:17
2	Y 371.029	723585.4	723585.4	106.08 %		00:06:17
2	Ag 328.068†	53928.6	54091.4	307.27 ug/L	307.27 ppb	00:06:17
2	As 188.979†	2508.2	2571.5	1065.1 ug/L	1065.1 ppb	00:06:22
2	B 249.677†	72565.2	73976.6	1541.1 ug/L	1541.1 ppb	00:06:17
2	Ba 233.527†	243347.5	246063.8	1861.9 ug/L	1861.9 ppb	00:06:17
2	Be 313.107†	2311781.0	2341358.2	810.21 ug/L	810.21 ppb	00:06:17
2	Cd 226.502†	59139.2	59994.6	608.95 ug/L	608.95 ppb	00:06:22
2	Co 228.616†	50997.6	51649.4	947.77 ug/L	947.77 ppb	00:06:22
2	Cr 267.716†	242164.2	244760.3	2616.4 ug/L	2616.4 ppb	00:06:17
2	Cu 324.752†	657663.5	658107.4	1898.1 ug/L	1898.1 ppb	00:06:17
2	Mn 257.610†	5195367.3	5252481.3	5392.8 ug/L	5392.8 ppb	00:06:17
2	Mo 202.031†	7527.3	7607.9	532.93 ug/L	532.93 ppb	00:06:22
2	Ni 231.604†	62025.5	62630.1	1422.5 ug/L	1422.5 ppb	00:06:22

2	P 214.914†	14203.0	14126.0	6698.5 ug/L	6698.5 ppb	00:06:22
2	Pb 220.353†	6719.1	6864.8	755.48 ug/L	755.48 ppb	00:06:22
2	S 181.975 Axial†	3435.1	3421.3	4123.5 ug/L	4123.5 ppb	00:06:22
2	Sb 206.836†	5003.8	5023.7	1555.2 ug/L	1555.2 ppb	00:06:22
2	Se 196.026†	4600.7	4681.2	3067.5 ug/L	3067.5 ppb	00:06:22
2	Si 251.611†	869696.7	878850.4	26142 ug/L	26142 ppb	00:06:17
2	Sn 189.927†	5864.8	5912.1	978.63 ug/L	978.63 ppb	00:06:22
2	Ti 334.940†	3369460.4	3408515.7	5243.3 ug/L	5243.3 ppb	00:06:17
2	Tl 190.801†	3890.8	3977.2	1199.2 ug/L	1199.2 ppb	00:06:22
2	U 409.014†	-9012.1	-4787.2	-180.81 ug/L	-180.81 ppb	00:06:17
2	V 292.402†	173774.2	177408.8	1207.7 ug/L	1207.7 ppb	00:06:17
2	Zn 213.857†	688012.1	694895.7	5915.9 ug/L	5915.9 ppb	00:06:17
2	SiO2†	867792.2	876881.9	55952 ug/L	55952 ppb	00:06:48
3	Sc Radial	3905.5	3905.5	98.6 %		00:05:52
3	Y RADIAL	4595.3	4595.3	101.3 %		00:05:52
3	Al 396.153Radial†	94037.1	95545.0	85808 ug/L	85808 ppb	00:05:32
3	Ca 317.933Radial†	50744.2	51435.9	101980 ug/L	101980 ppb	00:05:32
3	Fe 238.204 Radial†	14222.4	14409.0	171640 ug/L	171640 ppb	00:05:52
3	K 766.490 Radial†	225910.1	226031.3	39367 ug/L	39367 ppb	00:05:32
3	Mg 279.077 IEC†	847.7	856.2	37088 ug/L	37088 ppb	00:05:52
3	Na 589.592 Radial†	30328.1	32336.3	9271.9 ug/L	9271.9 ppb	00:05:32
3	Sr 421.552†	323453.1	327965.5	2214.8 ug/L	2214.8 ppb	00:05:32
3	Sc 361.383	850130.6	850130.6	98.308 %		00:06:31
3	Y 371.029	718572.8	718572.8	105.35 %		00:06:31
3	Ag 328.068†	53658.8	54147.1	307.42 ug/L	307.42 ppb	00:06:31
3	As 188.979†	2556.0	2635.4	1089.4 ug/L	1089.4 ppb	00:06:36
3	B 249.677†	72269.8	74120.4	1544.2 ug/L	1544.2 ppb	00:06:31
3	Ba 233.527†	241891.0	246072.0	1862.0 ug/L	1862.0 ppb	00:06:31
3	Be 313.107†	2296655.0	2340124.3	809.79 ug/L	809.79 ppb	00:06:31
3	Cd 226.502†	59999.7	61231.9	621.91 ug/L	621.91 ppb	00:06:36
3	Co 228.616†	51678.8	52654.6	966.49 ug/L	966.49 ppb	00:06:36
3	Cr 267.716†	241098.3	245158.5	2620.6 ug/L	2620.6 ppb	00:06:31
3	Cu 324.752†	653737.1	658139.6	1898.2 ug/L	1898.2 ppb	00:06:31
3	Mn 257.610†	5166397.0	5254817.6	5395.2 ug/L	5395.2 ppb	00:06:31
3	Mo 202.031†	7680.0	7809.3	546.60 ug/L	546.60 ppb	00:06:36
3	Ni 231.604†	62784.3	63781.6	1448.6 ug/L	1448.6 ppb	00:06:36
3	P 214.914†	14448.1	14462.3	6869.4 ug/L	6869.4 ppb	00:06:36
3	Pb 220.353†	6857.2	7046.4	774.97 ug/L	774.97 ppb	00:06:36
3	S 181.975 Axial†	3514.7	3523.3	4247.3 ug/L	4247.3 ppb	00:06:36
3	Sb 206.836†	5067.3	5119.0	1585.2 ug/L	1585.2 ppb	00:06:36
3	Se 196.026†	4691.3	4801.6	3131.7 ug/L	3131.7 ppb	00:06:36
3	Si 251.611†	863741.9	878117.3	26120 ug/L	26120 ppb	00:06:31
3	Sn 189.927†	5941.9	6026.6	996.90 ug/L	996.90 ppb	00:06:36
3	Ti 334.940†	3350321.3	3409674.5	5244.8 ug/L	5244.8 ppb	00:06:31
3	Tl 190.801†	3966.0	4077.5	1227.8 ug/L	1227.8 ppb	00:06:36
3	U 409.014†	-8910.8	-4739.4	-179.23 ug/L	-179.23 ppb	00:06:31
3	V 292.402†	172579.7	177257.7	1206.9 ug/L	1206.9 ppb	00:06:31
3	Zn 213.857†	683639.0	694659.3	5913.7 ug/L	5913.7 ppb	00:06:31
3	SiO2†	873483.9	887984.0	56661 ug/L	56661 ppb	00:06:54

Mean Data: 1202021606|944124|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	853378.3	98.684 %	0.3268			0.33%
Sc Radial	3890.0	98.2 %	0.34			0.35%
Y 371.029	721300.3	105.75 %	0.372			0.35%
Y RADIAL	4594.1	101.2 %	0.02			0.02%
Ag 328.068†	54115.7	307.40 ug/L	0.130	307.40 ppb	0.130	0.04%
Al 396.153Radial†	96289.1	86476 ug/L	1059.3	86476 ppb	1059.3	1.22%
As 188.979†	2595.4	1074.2 ug/L	13.22	1074.2 ppb	13.22	1.23%
B 249.677†	74102.9	1543.8 ug/L	2.50	1543.8 ppb	2.50	0.16%
Ba 233.527†	246175.9	1862.8 ug/L	1.42	1862.8 ppb	1.42	0.08%
Be 313.107†	2342401.8	810.57 ug/L	1.012	810.57 ppb	1.012	0.12%
Ca 317.933Radial†	51828.1	102760 ug/L	1093.3	102760 ppb	1093.3	1.06%
Cd 226.502†	60274.8	611.87 ug/L	8.943	611.87 ppb	8.943	1.46%
Co 228.616†	51834.8	951.22 ug/L	13.876	951.22 ppb	13.876	1.46%
Cr 267.716†	245123.2	2620.3 ug/L	3.70	2620.3 ppb	3.70	0.14%
Cu 324.752†	658699.0	1899.8 ug/L	2.88	1899.8 ppb	2.88	0.15%
Fe 238.204 Radial†	14442.1	172040 ug/L	409.7	172040 ppb	409.7	0.24%
K 766.490 Radial†	227777.3	39671 ug/L	443.4	39671 ppb	443.4	1.12%

Mg 279.077 IEC†	856.3	37089 ug/L	80.2	37089 ppb	80.2	0.22%
Mn 257.610†	5258113.7	5398.6 ug/L	8.04	5398.6 ppb	8.04	0.15%
Mo 202.031†	7657.2	536.27 ug/L	9.127	536.27 ppb	9.127	1.70%
Na 589.592 Radial†	32618.1	9352.7 ug/L	102.65	9352.7 ppb	102.65	1.10%
Ni 231.604†	62837.1	1427.2 ug/L	19.53	1427.2 ppb	19.53	1.37%
P 214.914†	14198.5	6734.7 ug/L	120.76	6734.7 ppb	120.76	1.79%
Pb 220.353†	6900.1	759.07 ug/L	14.451	759.07 ppb	14.451	1.90%
S 181.975 Axial†	3434.9	4140.2 ug/L	99.71	4140.2 ppb	99.71	2.41%
Sb 206.836†	5039.8	1560.3 ug/L	22.76	1560.3 ppb	22.76	1.46%
Se 196.026†	4707.5	3081.9 ug/L	44.36	3081.9 ppb	44.36	1.44%
Si 251.611†	879334.8	26157 ug/L	45.3	26157 ppb	45.3	0.17%
Sn 189.927†	5930.0	981.34 ug/L	14.402	981.34 ppb	14.402	1.47%
Sr 421.552†	331063.7	2235.7 ug/L	27.87	2235.7 ppb	27.87	1.25%
Ti 334.940†	3410705.4	5246.5 ug/L	4.29	5246.5 ppb	4.29	0.08%
Tl 190.801†	4020.2	1211.5 ug/L	14.71	1211.5 ppb	14.71	1.21%
U 409.014†	-4780.1	-180.59 ug/L	1.267	-180.59 ppb	1.267	0.70%
V 292.402†	177389.6	1207.6 ug/L	0.67	1207.6 ppb	0.67	0.06%
Zn 213.857†	695338.3	5919.6 ug/L	8.43	5919.6 ppb	8.43	0.14%
SiO2†	878162.7	56034 ug/L	590.0	56034 ppb	590.0	1.05%

Sequence No.: 72

Sample ID: 245113001|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 77

Date Collected: 2/4/2010 00:09:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113001|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3846.2	3846.2	97.1 %		00:11:19
1	Y RADIAL	4709.3	4709.3	103.8 %		00:10:59
1	Al 396.153Radial†	40034.0	41414.2	37205 ug/L	37205 ppb	00:10:59
1	Ca 317.933Radial†	16320.9	16787.5	33283 ug/L	33283 ppb	00:10:59
1	Fe 238.204 Radial†	5455.8	5605.4	66762 ug/L	66762 ppb	00:10:59
1	K 766.490 Radial†	46404.5	44746.5	7788.4 ug/L	7788.4 ppb	00:10:59
1	Mg 279.077 IEC†	207.4	210.3	9080.5 ug/L	9080.5 ppb	00:11:19
1	Na 589.592 Radial†	-128.0	1453.3	416.71 ug/L	416.71 ppb	00:10:59
1	Sr 421.552†	31481.2	32412.1	218.71 ug/L	218.71 ppb	00:10:59
1	Sc 361.383	841473.1	841473.1	97.307 %		00:12:22
1	Y 371.029	730328.6	730328.6	107.07 %		00:12:22
1	Ag 328.068†	-3593.7	-4128.3	3.8438 ug/L	3.8438 ppb	00:12:22
1	As 188.979†	-38.5	-4.1	36.326 ug/L	36.326 ppb	00:12:42
1	B 249.677†	760.6	1388.5	18.573 ug/L	18.573 ppb	00:12:22
1	Ba 233.527†	138152.1	141993.5	1072.1 ug/L	1072.1 ppb	00:12:22
1	Be 313.107†	-4997.7	-1191.9	5.4267 ug/L	5.4267 ppb	00:12:22
1	Cd 226.502†	535.0	749.4	0.9285 ug/L	0.9285 ppb	00:12:42
1	Co 228.616†	1526.4	1655.0	24.918 ug/L	24.918 ppb	00:12:42
1	Cr 267.716†	4811.7	4855.8	53.287 ug/L	53.287 ppb	00:12:42
1	Cu 324.752†	27011.0	20910.2	63.612 ug/L	63.612 ppb	00:12:22
1	Mn 257.610†	4110885.6	4224164.1	4330.8 ug/L	4330.8 ppb	00:12:17
1	Mo 202.031†	18.8	16.5	6.7000 ug/L	6.7000 ppb	00:12:42
1	Ni 231.604†	1955.5	1926.4	43.751 ug/L	43.751 ppb	00:12:42
1	P 214.914†	2351.5	2182.2	1052.7 ug/L	1052.7 ppb	00:12:42
1	Pb 220.353†	1203.0	1307.5	145.20 ug/L	145.20 ppb	00:12:42
1	S 181.975 Axial†	699.2	666.6	799.67 ug/L	799.67 ppb	00:12:42
1	Sb 206.836†	60.6	26.7	-2.0883 ug/L	-2.0883 ppb	00:12:42
1	Se 196.026†	-351.3	-331.5	25.897 ug/L	25.897 ppb	00:12:42
1	Si 251.611†	623108.2	639863.5	19038 ug/L	19038 ppb	00:12:22
1	Sn 189.927†	-146.3	-168.0	-21.089 ug/L	-21.089 ppb	00:12:42
1	Ti 334.940†	1626741.8	1673457.4	2573.1 ug/L	2573.1 ppb	00:12:17
1	Tl 190.801†	-203.4	-165.8	-5.7139 ug/L	-5.7139 ppb	00:12:42
1	U 409.014†	-7488.5	-3370.9	-117.13 ug/L	-117.13 ppb	00:12:22
1	V 292.402†	12477.4	14530.6	88.385 ug/L	88.385 ppb	00:12:42
1	Zn 213.857†	34746.8	34963.3	292.24 ug/L	292.24 ppb	00:12:22
1	SiO2†	630000.9	646904.1	41288 ug/L	41288 ppb	00:13:51
2	Sc Radial	3825.7	3825.7	96.6 %		00:11:44
2	Y RADIAL	4672.9	4672.9	103.0 %		00:11:24
2	Al 396.153Radial†	39858.7	41453.3	37240 ug/L	37240 ppb	00:11:24
2	Ca 317.933Radial†	16250.8	16804.8	33318 ug/L	33318 ppb	00:11:24
2	Fe 238.204 Radial†	5405.3	5583.2	66497 ug/L	66497 ppb	00:11:24
2	K 766.490 Radial†	46224.0	44815.5	7800.4 ug/L	7800.4 ppb	00:11:24
2	Mg 279.077 IEC†	207.7	211.7	9142.5 ug/L	9142.5 ppb	00:11:44
2	Na 589.592 Radial†	-65.8	1517.0	434.98 ug/L	434.98 ppb	00:11:24
2	Sr 421.552†	31344.4	32443.9	218.93 ug/L	218.93 ppb	00:11:24
2	Sc 361.383	837586.4	837586.4	96.858 %		00:12:54
2	Y 371.029	725847.8	725847.8	106.41 %		00:12:54
2	Ag 328.068†	-3590.2	-4141.8	3.6975 ug/L	3.6975 ppb	00:12:54
2	As 188.979†	-27.3	7.3	40.503 ug/L	40.503 ppb	00:13:14
2	B 249.677†	780.6	1412.8	19.130 ug/L	19.130 ppb	00:12:54
2	Ba 233.527†	137531.4	142011.5	1072.2 ug/L	1072.2 ppb	00:12:54
2	Be 313.107†	-4828.9	-1041.5	5.4513 ug/L	5.4513 ppb	00:12:54
2	Cd 226.502†	532.8	749.7	0.9581 ug/L	0.9581 ppb	00:13:14
2	Co 228.616†	1530.9	1666.9	25.168 ug/L	25.168 ppb	00:13:14
2	Cr 267.716†	4829.3	4897.0	53.724 ug/L	53.724 ppb	00:13:14
2	Cu 324.752†	26915.3	20940.3	63.685 ug/L	63.685 ppb	00:12:54
2	Mn 257.610†	4074988.8	4206706.6	4312.9 ug/L	4312.9 ppb	00:12:48
2	Mo 202.031†	15.9	13.6	6.4866 ug/L	6.4866 ppb	00:13:14
2	Ni 231.604†	1961.0	1941.4	44.093 ug/L	44.093 ppb	00:13:14

2	P 214.914†	2359.9	2202.0	1063.0 ug/L	1063.0 ppb	00:13:14
2	Pb 220.353†	1206.7	1317.0	146.28 ug/L	146.28 ppb	00:13:14
2	S 181.975 Axial†	705.4	676.4	811.47 ug/L	811.47 ppb	00:13:14
2	Sb 206.836†	71.8	38.5	1.5839 ug/L	1.5839 ppb	00:13:14
2	Se 196.026†	-361.5	-343.7	18.478 ug/L	18.478 ppb	00:13:14
2	Si 251.611†	620705.4	640354.2	19053 ug/L	19053 ppb	00:12:54
2	Sn 189.927†	-148.5	-170.9	-21.569 ug/L	-21.569 ppb	00:13:14
2	Ti 334.940†	1611809.4	1665798.0	2561.3 ug/L	2561.3 ppb	00:12:48
2	Tl 190.801†	-203.9	-167.3	-6.3367 ug/L	-6.3367 ppb	00:13:14
2	U 409.014†	-7477.2	-3395.0	-117.88 ug/L	-117.88 ppb	00:12:54
2	V 292.402†	12552.1	14667.2	89.381 ug/L	89.381 ppb	00:13:14
2	Zn 213.857†	34633.0	35011.5	292.68 ug/L	292.68 ppb	00:12:54
2	SiO2†	632613.1	652605.3	41652 ug/L	41652 ppb	00:13:56
3	Sc Radial	3799.6	3799.6	95.9 %		00:12:09
3	Y RADIAL	4820.8	4820.8	106.2 %		00:11:49
3	Al 396.153Radial†	40820.4	42739.2	38395 ug/L	38395 ppb	00:11:49
3	Ca 317.933Radial†	16617.6	17302.8	34305 ug/L	34305 ppb	00:11:49
3	Fe 238.204 Radial†	5515.8	5736.8	68327 ug/L	68327 ppb	00:11:49
3	K 766.490 Radial†	47137.0	46095.9	8023.3 ug/L	8023.3 ppb	00:11:49
3	Mg 279.077 IEC†	204.2	209.5	9047.2 ug/L	9047.2 ppb	00:12:09
3	Na 589.592 Radial†	-11.0	1573.6	451.22 ug/L	451.22 ppb	00:11:49
3	Sr 421.552†	32126.8	33482.4	225.93 ug/L	225.93 ppb	00:11:49
3	Sc 361.383	844802.7	844802.7	97.692 %		00:13:25
3	Y 371.029	731748.8	731748.8	107.28 %		00:13:25
3	Ag 328.068†	-3640.8	-4162.0	4.2038 ug/L	4.2038 ppb	00:13:25
3	As 188.979†	-30.3	4.5	39.689 ug/L	39.689 ppb	00:13:45
3	B 249.677†	851.6	1478.5	20.231 ug/L	20.231 ppb	00:13:25
3	Ba 233.527†	138695.9	141990.7	1072.1 ug/L	1072.1 ppb	00:13:25
3	Be 313.107†	-4967.5	-1140.8	5.3710 ug/L	5.3710 ppb	00:13:25
3	Cd 226.502†	533.3	745.5	0.7256 ug/L	0.7256 ppb	00:13:45
3	Co 228.616†	1526.6	1649.1	24.850 ug/L	24.850 ppb	00:13:45
3	Cr 267.716†	4802.5	4826.9	53.010 ug/L	53.010 ppb	00:13:45
3	Cu 324.752†	27052.8	20843.6	63.504 ug/L	63.504 ppb	00:13:25
3	Mn 257.610†	4079595.3	4175483.9	4281.1 ug/L	4281.1 ppb	00:13:20
3	Mo 202.031†	6.5	3.8	5.9703 ug/L	5.9703 ppb	00:13:45
3	Ni 231.604†	1938.6	1901.2	43.181 ug/L	43.181 ppb	00:13:45
3	P 214.914†	2359.2	2180.4	1050.9 ug/L	1050.9 ppb	00:13:45
3	Pb 220.353†	1215.7	1315.6	146.21 ug/L	146.21 ppb	00:13:45
3	S 181.975 Axial†	715.2	680.2	815.89 ug/L	815.89 ppb	00:13:45
3	Sb 206.836†	75.7	41.9	2.6399 ug/L	2.6399 ppb	00:13:45
3	Se 196.026†	-347.2	-325.8	33.770 ug/L	33.770 ppb	00:13:45
3	Si 251.611†	625924.2	640222.2	19049 ug/L	19049 ppb	00:13:25
3	Sn 189.927†	-141.8	-162.8	-20.075 ug/L	-20.075 ppb	00:13:45
3	Ti 334.940†	1612673.4	1652467.6	2541.0 ug/L	2541.0 ppb	00:13:20
3	Tl 190.801†	-204.9	-166.5	-6.4298 ug/L	-6.4298 ppb	00:13:45
3	U 409.014†	-7522.1	-3375.1	-117.44 ug/L	-117.44 ppb	00:13:25
3	V 292.402†	12465.0	14467.3	87.739 ug/L	87.739 ppb	00:13:45
3	Zn 213.857†	34913.5	34993.3	292.35 ug/L	292.35 ppb	00:13:25
3	SiO2†	633157.6	647583.6	41332 ug/L	41332 ppb	00:14:02

Mean Data: 245113001|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	841287.4	97.286 %		0.4177			0.43%
Sc Radial	3823.9	96.6 %		0.59			0.61%
Y 371.029	729308.4	106.92 %		0.452			0.42%
Y RADIAL	4734.3	104.3 %		1.70			1.63%
Ag 328.068†	-4144.0	3.9150 ug/L		0.26058	3.9150 ppb	0.26058	6.66%
Al 396.153Radial†	41868.9	37613 ug/L		677.4	37613 ppb	677.4	1.80%
As 188.979†	2.5	38.839 ug/L		2.2145	38.839 ppb	2.2145	5.70%
B 249.677†	1426.6	19.311 ug/L		0.8438	19.311 ppb	0.8438	4.37%
Ba 233.527†	141998.6	1072.2 ug/L		0.07	1072.2 ppb	0.07	0.01%
Be 313.107†	-1124.7	5.4163 ug/L		0.04114	5.4163 ppb	0.04114	0.76%
Ca 317.933Radial†	16965.0	33635 ug/L		580.2	33635 ppb	580.2	1.72%
Cd 226.502†	748.2	0.8708 ug/L		0.12658	0.8708 ppb	0.12658	14.54%
Co 228.616†	1657.0	24.979 ug/L		0.1670	24.979 ppb	0.1670	0.67%
Cr 267.716†	4859.9	53.340 ug/L		0.3599	53.340 ppb	0.3599	0.67%
Cu 324.752†	20898.0	63.600 ug/L		0.0910	63.600 ppb	0.0910	0.14%
Fe 238.204 Radial†	5641.8	67195 ug/L		988.7	67195 ppb	988.7	1.47%
K 766.490 Radial†	45219.3	7870.7 ug/L		132.31	7870.7 ppb	132.31	1.68%

Mg 279.077 IEC†	210.5	9090.0 ug/L	48.35	9090.0 ppb	48.35	0.53%
Mn 257.610†	4202118.2	4308.3 ug/L	25.16	4308.3 ppb	25.16	0.58%
Mo 202.031†	11.3	6.3856 ug/L	0.37520	6.3856 ppb	0.37520	5.88%
Na 589.592 Radial†	1514.7	434.30 ug/L	17.264	434.30 ppb	17.264	3.98%
Ni 231.604†	1923.0	43.675 ug/L	0.4608	43.675 ppb	0.4608	1.06%
P 214.914†	2188.2	1055.5 ug/L	6.51	1055.5 ppb	6.51	0.62%
Pb 220.353†	1313.4	145.90 ug/L	0.603	145.90 ppb	0.603	0.41%
S 181.975 Axial†	674.4	809.01 ug/L	8.388	809.01 ppb	8.388	1.04%
Sb 206.836†	35.7	0.7118 ug/L	2.48181	0.7118 ppb	2.48181	348.65%
Se 196.026†	-333.7	26.048 ug/L	7.6472	26.048 ppb	7.6472	29.36%
Si 251.611†	640146.6	19046 ug/L	7.6	19046 ppb	7.6	0.04%
Sn 189.927†	-167.2	-20.911 ug/L	0.7629	-20.911 ppb	0.7629	3.65%
Sr 421.552†	32779.5	221.19 ug/L	4.110	221.19 ppb	4.110	1.86%
Ti 334.940†	1663907.7	2558.5 ug/L	16.23	2558.5 ppb	16.23	0.63%
Tl 190.801†	-166.5	-6.1602 ug/L	0.38923	-6.1602 ppb	0.38923	6.32%
U 409.014†	-3380.4	-117.48 ug/L	0.378	-117.48 ppb	0.378	0.32%
V 292.402†	14555.0	88.501 ug/L	0.8272	88.501 ppb	0.8272	0.93%
Zn 213.857†	34989.4	292.42 ug/L	0.227	292.42 ppb	0.227	0.08%
SiO2†	649031.0	41424 ug/L	198.7	41424 ppb	198.7	0.48%

Sequence No.: 73

Sample ID: 1202021602|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 78

Date Collected: 2/4/2010 00:16:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021602|944124|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3724.9	3724.9	94.1 %		00:18:27
1	Y RADIAL	4621.6	4621.6	101.8 %		00:18:07
1	Al 396.153Radial†	39089.3	41752.5	37509 ug/L	37509 ppb	00:18:07
1	Ca 317.933Radial†	14515.0	15414.9	30562 ug/L	30562 ppb	00:18:07
1	Fe 238.204 Radial†	5266.8	5587.5	66549 ug/L	66549 ppb	00:18:07
1	K 766.490 Radial†	45598.8	45446.4	7911.5 ug/L	7911.5 ppb	00:18:07
1	Mg 279.077 IEC†	197.3	206.5	8914.8 ug/L	8914.8 ppb	00:18:27
1	Na 589.592 Radial†	-101.9	1476.8	423.46 ug/L	423.46 ppb	00:18:07
1	Sr 421.552†	26643.2	28324.5	191.12 ug/L	191.12 ppb	00:18:07
1	Sc 361.383	862789.8	862789.8	99.772 %		00:19:25
1	Y 371.029	737079.6	737079.6	108.06 %		00:19:25
1	Ag 328.068†	-3863.1	-4307.1	2.9901 ug/L	2.9901 ppb	00:19:30
1	As 188.979†	-44.8	-9.4	32.108 ug/L	32.108 ppb	00:19:50
1	B 249.677†	632.4	1240.7	15.474 ug/L	15.474 ppb	00:19:30
1	Ba 233.527†	116377.0	116661.0	881.24 ug/L	881.24 ppb	00:19:30
1	Be 313.107†	-6974.3	-3046.2	4.2317 ug/L	4.2317 ppb	00:19:30
1	Cd 226.502†	519.1	719.9	0.6440 ug/L	0.6440 ppb	00:19:50
1	Co 228.616†	1419.8	1509.4	22.639 ug/L	22.639 ppb	00:19:50
1	Cr 267.716†	4710.5	4632.2	50.894 ug/L	50.894 ppb	00:19:50
1	Cu 324.752†	27420.4	20634.8	62.801 ug/L	62.801 ppb	00:19:30
1	Mn 257.610†	3841941.5	3850228.1	3948.0 ug/L	3948.0 ppb	00:19:25
1	Mo 202.031†	-2.7	-5.5	5.1531 ug/L	5.1531 ppb	00:19:50
1	Ni 231.604†	1879.0	1800.0	40.883 ug/L	40.883 ppb	00:19:50
1	P 214.914†	2575.8	2347.2	1137.0 ug/L	1137.0 ppb	00:19:50
1	Pb 220.353†	1299.0	1373.2	152.42 ug/L	152.42 ppb	00:19:50
1	S 181.975 Axial†	797.5	747.4	897.40 ug/L	897.40 ppb	00:19:50
1	Sb 206.836†	79.6	44.3	4.1235 ug/L	4.1235 ppb	00:19:50
1	Se 196.026†	-366.4	-337.8	21.842 ug/L	21.842 ppb	00:19:50
1	Si 251.611†	608152.9	609053.0	18121 ug/L	18121 ppb	00:19:25
1	Sn 189.927†	-138.4	-156.4	-19.631 ug/L	-19.631 ppb	00:19:50
1	Ti 334.940†	1506866.4	1512004.3	2324.8 ug/L	2324.8 ppb	00:19:25
1	Tl 190.801†	-181.0	-138.2	-1.7165 ug/L	-1.7165 ppb	00:19:50
1	U 409.014†	-7157.5	-2849.1	-100.16 ug/L	-100.16 ppb	00:19:25
1	V 292.402†	13029.8	14767.4	90.332 ug/L	90.332 ppb	00:19:30
1	Zn 213.857†	34959.8	34294.6	286.56 ug/L	286.56 ppb	00:19:30
1	SiO2†	610625.7	611488.6	39028 ug/L	39028 ppb	00:21:00
2	Sc Radial	3736.7	3736.7	94.4 %		00:18:52
2	Y RADIAL	4645.4	4645.4	102.4 %		00:18:32
2	Al 396.153Radial†	39109.4	41642.6	37410 ug/L	37410 ppb	00:18:32
2	Ca 317.933Radial†	14532.9	15385.2	30503 ug/L	30503 ppb	00:18:32
2	Fe 238.204 Radial†	5266.7	5569.7	66337 ug/L	66337 ppb	00:18:32
2	K 766.490 Radial†	45568.7	45261.4	7879.2 ug/L	7879.2 ppb	00:18:32
2	Mg 279.077 IEC†	190.5	198.6	8574.8 ug/L	8574.8 ppb	00:18:52
2	Na 589.592 Radial†	-85.2	1494.8	428.62 ug/L	428.62 ppb	00:18:32
2	Sr 421.552†	26689.6	28284.2	190.85 ug/L	190.85 ppb	00:18:32
2	Sc 361.383	856997.0	856997.0	99.102 %		00:19:57
2	Y 371.029	732479.0	732479.0	107.39 %		00:19:57
2	Ag 328.068†	-3864.6	-4334.7	2.8100 ug/L	2.8100 ppb	00:20:02
2	As 188.979†	-36.7	-1.6	35.026 ug/L	35.026 ppb	00:20:22
2	B 249.677†	724.3	1337.7	17.571 ug/L	17.571 ppb	00:20:02
2	Ba 233.527†	116582.1	117656.4	888.73 ug/L	888.73 ppb	00:20:02
2	Be 313.107†	-6960.0	-3079.0	4.2158 ug/L	4.2158 ppb	00:20:02
2	Cd 226.502†	528.5	733.0	0.7981 ug/L	0.7981 ppb	00:20:22
2	Co 228.616†	1383.6	1482.5	22.155 ug/L	22.155 ppb	00:20:22
2	Cr 267.716†	4685.2	4638.6	50.965 ug/L	50.965 ppb	00:20:22
2	Cu 324.752†	27588.4	20990.0	63.818 ug/L	63.818 ppb	00:20:02
2	Mn 257.610†	3816121.3	3850202.4	3947.9 ug/L	3947.9 ppb	00:19:57
2	Mo 202.031†	26.4	23.8	7.1340 ug/L	7.1340 ppb	00:20:22
2	Ni 231.604†	1832.7	1766.1	40.112 ug/L	40.112 ppb	00:20:22

2	P 214.914†	2557.2	2345.9	1136.3 ug/L	1136.3 ppb	00:20:22
2	Pb 220.353†	1293.9	1376.8	152.82 ug/L	152.82 ppb	00:20:22
2	S 181.975 Axial†	795.4	750.7	901.33 ug/L	901.33 ppb	00:20:22
2	Sb 206.836†	73.4	38.5	2.4237 ug/L	2.4237 ppb	00:20:22
2	Se 196.026†	-374.4	-348.3	15.502 ug/L	15.502 ppb	00:20:22
2	Si 251.611†	604024.5	609007.4	18120 ug/L	18120 ppb	00:19:57
2	Sn 189.927†	-129.9	-148.7	-18.394 ug/L	-18.394 ppb	00:20:22
2	Ti 334.940†	1495427.2	1510670.1	2322.8 ug/L	2322.8 ppb	00:19:57
2	Tl 190.801†	-188.3	-146.8	-4.1737 ug/L	-4.1737 ppb	00:20:22
2	U 409.014†	-7617.4	-3361.6	-116.77 ug/L	-116.77 ppb	00:19:57
2	V 292.402†	13030.3	14856.2	90.971 ug/L	90.971 ppb	00:20:02
2	Zn 213.857†	35271.9	34846.4	291.31 ug/L	291.31 ppb	00:20:02
2	SiO2†	607264.7	612234.0	39075 ug/L	39075 ppb	00:21:06
3	Sc Radial	3727.2	3727.2	94.1 %		00:19:17
3	Y RADIAL	4604.4	4604.4	101.5 %		00:18:57
3	Al 396.153Radial†	38911.1	41536.7	37315 ug/L	37315 ppb	00:18:57
3	Ca 317.933Radial†	14432.3	15317.3	30369 ug/L	30369 ppb	00:18:57
3	Fe 238.204 Radial†	5208.5	5522.0	65768 ug/L	65768 ppb	00:18:57
3	K 766.490 Radial†	45213.9	45006.6	7834.8 ug/L	7834.8 ppb	00:18:57
3	Mg 279.077 IEC†	195.8	204.7	8839.3 ug/L	8839.3 ppb	00:19:17
3	Na 589.592 Radial†	-127.0	1450.2	415.83 ug/L	415.83 ppb	00:18:57
3	Sr 421.552†	26438.2	28088.7	189.53 ug/L	189.53 ppb	00:18:57
3	Sc 361.383	863235.3	863235.3	99.824 %		00:20:29
3	Y 371.029	737135.1	737135.1	108.07 %		00:20:29
3	Ag 328.068†	-3734.3	-4176.0	3.3295 ug/L	3.3295 ppb	00:20:34
3	As 188.979†	-34.1	1.3	36.014 ug/L	36.014 ppb	00:20:54
3	B 249.677†	676.9	1284.9	16.541 ug/L	16.541 ppb	00:20:34
3	Ba 233.527†	115450.2	115672.4	873.76 ug/L	873.76 ppb	00:20:34
3	Be 313.107†	-6988.9	-3057.2	4.2271 ug/L	4.2271 ppb	00:20:34
3	Cd 226.502†	516.4	716.9	0.6916 ug/L	0.6916 ppb	00:20:54
3	Co 228.616†	1404.7	1493.6	22.358 ug/L	22.358 ppb	00:20:54
3	Cr 267.716†	4679.6	4598.8	50.525 ug/L	50.525 ppb	00:20:54
3	Cu 324.752†	27244.3	20444.1	62.217 ug/L	62.217 ppb	00:20:34
3	Mn 257.610†	3837204.3	3843495.2	3941.0 ug/L	3941.0 ppb	00:20:29
3	Mo 202.031†	23.7	21.0	6.8949 ug/L	6.8949 ppb	00:20:54
3	Ni 231.604†	1874.1	1794.2	40.750 ug/L	40.750 ppb	00:20:54
3	P 214.914†	2538.1	2308.1	1117.8 ug/L	1117.8 ppb	00:20:54
3	Pb 220.353†	1277.8	1351.3	150.06 ug/L	150.06 ppb	00:20:54
3	S 181.975 Axial†	794.9	744.4	893.81 ug/L	893.81 ppb	00:20:54
3	Sb 206.836†	82.1	46.7	4.8799 ug/L	4.8799 ppb	00:20:54
3	Se 196.026†	-350.7	-321.8	28.090 ug/L	28.090 ppb	00:20:54
3	Si 251.611†	608227.9	608813.6	18114 ug/L	18114 ppb	00:20:29
3	Sn 189.927†	-161.2	-179.1	-23.364 ug/L	-23.364 ppb	00:20:54
3	Ti 334.940†	1507407.8	1511767.2	2324.5 ug/L	2324.5 ppb	00:20:29
3	Tl 190.801†	-191.4	-148.5	-4.6788 ug/L	-4.6788 ppb	00:20:54
3	U 409.014†	-7425.1	-3113.4	-108.65 ug/L	-108.65 ppb	00:20:29
3	V 292.402†	12965.3	14696.1	89.958 ug/L	89.958 ppb	00:20:34
3	Zn 213.857†	34744.9	34061.2	284.64 ug/L	284.64 ppb	00:20:34
3	SiO2†	604971.4	605508.4	38646 ug/L	38646 ppb	00:21:11

Mean Data: 1202021602|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	861007.4	99.566 %	%	0.4024			0.40%
Sc Radial	3729.6	94.2 %	%	0.16			0.17%
Y 371.029	735564.5	107.84 %	%	0.392			0.36%
Y RADIAL	4623.8	101.9 %	%	0.45			0.45%
Ag 328.068†	-4272.6	3.0432 ug/L	ug/L	0.26377	3.0432 ppb	0.26377	8.67%
Al 396.153Radial†	41644.0	37411 ug/L	ug/L	97.0	37411 ppb	97.0	0.26%
As 188.979†	-3.2	34.383 ug/L	ug/L	2.0311	34.383 ppb	2.0311	5.91%
B 249.677†	1287.7	16.529 ug/L	ug/L	1.0484	16.529 ppb	1.0484	6.34%
Ba 233.527†	116663.2	881.24 ug/L	ug/L	7.484	881.24 ppb	7.484	0.85%
Be 313.107†	-3060.8	4.2249 ug/L	ug/L	0.00815	4.2249 ppb	0.00815	0.19%
Ca 317.933Radial†	15372.5	30478 ug/L	ug/L	99.2	30478 ppb	99.2	0.33%
Cd 226.502†	723.3	0.7113 ug/L	ug/L	0.07892	0.7113 ppb	0.07892	11.10%
Co 228.616†	1495.2	22.384 ug/L	ug/L	0.2432	22.384 ppb	0.2432	1.09%
Cr 267.716†	4623.2	50.795 ug/L	ug/L	0.2361	50.795 ppb	0.2361	0.46%
Cu 324.752†	20689.7	62.945 ug/L	ug/L	0.8104	62.945 ppb	0.8104	1.29%
Fe 238.204 Radial†	5559.7	66218 ug/L	ug/L	403.4	66218 ppb	403.4	0.61%
K 766.490 Radial†	45238.1	7875.2 ug/L	ug/L	38.47	7875.2 ppb	38.47	0.49%

Mg 279.077 IEC†	203.3	8776.3 ug/L	178.53	8776.3 ppb	178.53	2.03%
Mn 257.610†	3847975.2	3945.6 ug/L	4.01	3945.6 ppb	4.01	0.10%
Mo 202.031†	13.1	6.3940 ug/L	1.08127	6.3940 ppb	1.08127	16.91%
Na 589.592 Radial†	1474.0	422.64 ug/L	6.433	422.64 ppb	6.433	1.52%
Ni 231.604†	1786.8	40.582 ug/L	0.4121	40.582 ppb	0.4121	1.02%
P 214.914†	2333.7	1130.4 ug/L	10.89	1130.4 ppb	10.89	0.96%
Pb 220.353†	1367.1	151.76 ug/L	1.492	151.76 ppb	1.492	0.98%
S 181.975 Axial†	747.5	897.51 ug/L	3.762	897.51 ppb	3.762	0.42%
Sb 206.836†	43.2	3.8090 ug/L	1.25797	3.8090 ppb	1.25797	33.03%
Se 196.026†	-335.9	21.811 ug/L	6.2940	21.811 ppb	6.2940	28.86%
Si 251.611†	608958.0	18119 ug/L	3.8	18119 ppb	3.8	0.02%
Sn 189.927†	-161.4	-20.463 ug/L	2.5874	-20.463 ppb	2.5874	12.64%
Sr 421.552†	28232.5	190.50 ug/L	0.852	190.50 ppb	0.852	0.45%
Ti 334.940†	1511480.5	2324.0 ug/L	1.07	2324.0 ppb	1.07	0.05%
Tl 190.801†	-144.5	-3.5230 ug/L	1.58473	-3.5230 ppb	1.58473	44.98%
U 409.014†	-3108.1	-108.53 ug/L	8.306	-108.53 ppb	8.306	7.65%
V 292.402†	14773.2	90.420 ug/L	0.5122	90.420 ppb	0.5122	0.57%
Zn 213.857†	34400.7	287.50 ug/L	3.430	287.50 ppb	3.430	1.19%
SiO2†	609743.7	38916 ug/L	235.3	38916 ppb	235.3	0.60%

Sequence No.: 74

Sample ID: 1202021604|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 79

Date Collected: 2/4/2010 00:23:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021604|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3850.9	3850.9	97.2 %		00:25:36
1	Y RADIAL	4639.9	4639.9	102.2 %		00:25:36
1	Al 396.153Radial†	88273.7	90970.6	81701 ug/L	81701 ppb	00:25:16
1	Ca 317.933Radial†	16836.1	17296.8	34293 ug/L	34293 ppb	00:25:16
1	Fe 238.204 Radial†	7250.2	7443.8	88673 ug/L	88673 ppb	00:25:36
1	K 766.490 Radial†	96376.9	96076.9	16735 ug/L	16735 ppb	00:25:16
1	Mg 279.077 IEC†	420.2	428.8	18572 ug/L	18572 ppb	00:25:36
1	Na 589.592 Radial†	16403.0	18452.9	5291.1 ug/L	5291.1 ppb	00:25:16
1	Sr 421.552†	100880.3	103738.1	700.55 ug/L	700.55 ppb	00:25:16
1	Sc 361.383	824807.6	824807.6	95.380 %		00:26:39
1	Y 371.029	720460.1	720460.1	105.63 %		00:26:39
1	Ag 328.068†	106147.6	110854.3	534.94 ug/L	534.94 ppb	00:26:39
1	As 188.979†	1248.3	1344.2	569.06 ug/L	569.06 ppb	00:26:59
1	B 249.677†	24134.3	25910.2	534.61 ug/L	534.61 ppb	00:26:39
1	Ba 233.527†	187554.0	196657.1	1485.9 ug/L	1485.9 ppb	00:26:39
1	Be 313.107†	1492326.7	1568559.2	544.47 ug/L	544.47 ppb	00:26:34
1	Cd 226.502†	47626.4	50133.1	514.24 ug/L	514.24 ppb	00:26:39
1	Co 228.616†	27215.6	28620.4	523.52 ug/L	523.52 ppb	00:26:59
1	Cr 267.716†	52503.8	54958.0	588.81 ug/L	588.81 ppb	00:26:39
1	Cu 324.752†	209002.5	212278.3	613.76 ug/L	613.76 ppb	00:26:39
1	Mn 257.610†	4187147.3	4389480.6	4501.8 ug/L	4501.8 ppb	00:26:34
1	Mo 202.031†	6753.7	7078.1	489.53 ug/L	489.53 ppb	00:26:59
1	Ni 231.604†	23331.4	24378.4	553.59 ug/L	553.59 ppb	00:26:59
1	P 214.914†	3485.8	3420.1	1571.3 ug/L	1571.3 ppb	00:26:59
1	Pb 220.353†	5899.7	6256.7	694.96 ug/L	694.96 ppb	00:26:59
1	S 181.975 Axial†	4814.1	4995.3	6029.3 ug/L	6029.3 ppb	00:26:59
1	Sb 206.836†	1429.2	1462.9	453.07 ug/L	453.07 ppb	00:26:59
1	Se 196.026†	446.9	498.0	543.76 ug/L	543.76 ppb	00:26:59
1	Si 251.611†	843013.0	883359.1	26277 ug/L	26277 ppb	00:26:34
1	Sn 189.927†	2940.1	3064.8	504.33 ug/L	504.33 ppb	00:26:59
1	Ti 334.940†	2636481.1	2765887.0	4249.3 ug/L	4249.3 ppb	00:26:34
1	Tl 190.801†	1279.1	1384.3	448.74 ug/L	448.74 ppb	00:26:59
1	U 409.014†	8023.3	12736.7	401.93 ug/L	401.93 ppb	00:26:39
1	V 292.402†	88515.6	94511.1	646.40 ug/L	646.40 ppb	00:26:39
1	Zn 213.857†	100976.2	105122.4	886.27 ug/L	886.27 ppb	00:26:39
1	SiO2†	838129.8	878196.4	56037 ug/L	56037 ppb	00:28:10
2	Sc Radial	3891.7	3891.7	98.3 %		00:26:01
2	Y RADIAL	4700.7	4700.7	103.6 %		00:26:01
2	Al 396.153Radial†	87893.2	89631.1	80497 ug/L	80497 ppb	00:25:41
2	Ca 317.933Radial†	16769.1	17047.1	33798 ug/L	33798 ppb	00:25:41
2	Fe 238.204 Radial†	7289.7	7405.8	88220 ug/L	88220 ppb	00:26:01
2	K 766.490 Radial†	95862.9	94514.1	16463 ug/L	16463 ppb	00:25:41
2	Mg 279.077 IEC†	425.4	429.5	18606 ug/L	18606 ppb	00:26:01
2	Na 589.592 Radial†	16165.6	18034.4	5171.1 ug/L	5171.1 ppb	00:25:41
2	Sr 421.552†	100306.1	102065.5	689.25 ug/L	689.25 ppb	00:25:41
2	Sc 361.383	831771.0	831771.0	96.185 %		00:27:11
2	Y 371.029	727002.3	727002.3	106.58 %		00:27:11
2	Ag 328.068†	106075.5	109847.6	530.21 ug/L	530.21 ppb	00:27:11
2	As 188.979†	1252.6	1337.8	566.32 ug/L	566.32 ppb	00:27:32
2	B 249.677†	24212.1	25779.2	531.92 ug/L	531.92 ppb	00:27:11
2	Ba 233.527†	186868.5	194298.3	1468.1 ug/L	1468.1 ppb	00:27:11
2	Be 313.107†	1501516.5	1565014.7	543.21 ug/L	543.21 ppb	00:27:06
2	Cd 226.502†	47563.2	49649.3	509.24 ug/L	509.24 ppb	00:27:11
2	Co 228.616†	26997.1	28154.3	514.89 ug/L	514.89 ppb	00:27:32
2	Cr 267.716†	52511.2	54504.8	583.96 ug/L	583.96 ppb	00:27:11
2	Cu 324.752†	208989.5	210430.3	608.43 ug/L	608.43 ppb	00:27:11
2	Mn 257.610†	4193456.4	4359287.7	4470.9 ug/L	4470.9 ppb	00:27:06
2	Mo 202.031†	6719.4	6983.0	483.02 ug/L	483.02 ppb	00:27:32
2	Ni 231.604†	23148.8	23983.7	544.63 ug/L	544.63 ppb	00:27:32

2	P 214.914†	3468.8	3371.9	1547.8 ug/L	1547.8 ppb	00:27:32
2	Pb 220.353†	5881.8	6186.3	687.02 ug/L	687.02 ppb	00:27:32
2	S 181.975 Axial†	4780.2	4917.8	5935.8 ug/L	5935.8 ppb	00:27:32
2	Sb 206.836†	1413.3	1433.8	443.94 ug/L	443.94 ppb	00:27:32
2	Se 196.026†	445.7	492.9	539.60 ug/L	539.60 ppb	00:27:32
2	Si 251.611†	845295.7	878332.8	26127 ug/L	26127 ppb	00:27:06
2	Sn 189.927†	2917.4	3015.5	496.23 ug/L	496.23 ppb	00:27:32
2	Ti 334.940†	2644298.0	2750872.5	4226.2 ug/L	4226.2 ppb	00:27:06
2	Tl 190.801†	1278.5	1372.5	445.06 ug/L	445.06 ppb	00:27:32
2	U 409.014†	8069.9	12714.8	401.28 ug/L	401.28 ppb	00:27:11
2	V 292.402†	88683.1	93908.3	642.22 ug/L	642.22 ppb	00:27:11
2	Zn 213.857†	100881.3	104137.4	877.95 ug/L	877.95 ppb	00:27:11
2	SiO2†	834897.7	867479.5	55353 ug/L	55353 ppb	00:28:16
3	Sc Radial	3889.0	3889.0	98.2 %		00:26:26
3	Y RADIAL	4679.3	4679.3	103.1 %		00:26:26
3	Al 396.153Radial†	89633.9	91466.2	82146 ug/L	82146 ppb	00:26:06
3	Ca 317.933Radial†	17009.1	17303.4	34306 ug/L	34306 ppb	00:26:06
3	Fe 238.204 Radial†	7296.8	7418.2	88367 ug/L	88367 ppb	00:26:26
3	K 766.490 Radial†	97191.1	95934.9	16710 ug/L	16710 ppb	00:26:06
3	Mg 279.077 IEC†	424.6	429.0	18584 ug/L	18584 ppb	00:26:26
3	Na 589.592 Radial†	16497.2	18383.5	5271.2 ug/L	5271.2 ppb	00:26:06
3	Sr 421.552†	101948.9	103809.8	701.03 ug/L	701.03 ppb	00:26:06
3	Sc 361.383	836054.5	836054.5	96.680 %		00:27:43
3	Y 371.029	729186.1	729186.1	106.90 %		00:27:43
3	Ag 328.068†	105986.8	109190.9	527.25 ug/L	527.25 ppb	00:27:43
3	As 188.979†	1244.1	1322.3	559.93 ug/L	559.93 ppb	00:28:04
3	B 249.677†	24263.3	25703.2	530.29 ug/L	530.29 ppb	00:27:43
3	Ba 233.527†	186710.3	193139.2	1459.3 ug/L	1459.3 ppb	00:27:43
3	Be 313.107†	1488288.1	1543334.1	535.68 ug/L	535.68 ppb	00:27:38
3	Cd 226.502†	47480.8	49310.8	505.69 ug/L	505.69 ppb	00:27:43
3	Co 228.616†	27008.8	28022.5	512.55 ug/L	512.55 ppb	00:28:04
3	Cr 267.716†	52456.3	54168.4	580.37 ug/L	580.37 ppb	00:27:43
3	Cu 324.752†	209448.7	209792.1	606.61 ug/L	606.61 ppb	00:27:43
3	Mn 257.610†	4154222.0	4296369.2	4406.5 ug/L	4406.5 ppb	00:27:38
3	Mo 202.031†	6724.0	6952.1	480.93 ug/L	480.93 ppb	00:28:04
3	Ni 231.604†	23196.6	23909.9	542.95 ug/L	542.95 ppb	00:28:04
3	P 214.914†	3466.4	3350.9	1537.8 ug/L	1537.8 ppb	00:28:04
3	Pb 220.353†	5882.6	6155.8	684.03 ug/L	684.03 ppb	00:28:04
3	S 181.975 Axial†	4773.2	4885.1	5895.9 ug/L	5895.9 ppb	00:28:04
3	Sb 206.836†	1410.9	1423.8	440.94 ug/L	440.94 ppb	00:28:04
3	Se 196.026†	441.6	486.3	536.42 ug/L	536.42 ppb	00:28:04
3	Si 251.611†	837207.2	865464.0	25745 ug/L	25745 ppb	00:27:38
3	Sn 189.927†	2923.5	3006.3	494.82 ug/L	494.82 ppb	00:28:04
3	Ti 334.940†	2621359.7	2713061.5	4168.2 ug/L	4168.2 ppb	00:27:38
3	Tl 190.801†	1255.6	1342.0	435.58 ug/L	435.58 ppb	00:28:04
3	U 409.014†	8126.2	12730.0	401.76 ug/L	401.76 ppb	00:27:43
3	V 292.402†	88455.7	93200.7	637.32 ug/L	637.32 ppb	00:27:43
3	Zn 213.857†	100630.2	103340.4	871.13 ug/L	871.13 ppb	00:27:43
3	SiO2†	840514.8	868842.3	55440 ug/L	55440 ppb	00:28:22

Mean Data: 1202021604|944124|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830877.7	96.082 %	0.6564			0.68%
Sc Radial	3877.2	97.9 %	0.58			0.59%
Y 371.029	725549.5	106.37 %	0.666			0.63%
Y RADIAL	4673.3	103.0 %	0.68			0.66%
Ag 328.068†	109964.2	530.80 ug/L	3.879	530.80 ppb	3.879	0.73%
Al 396.153Radial†	90689.3	81448 ug/L	852.9	81448 ppb	852.9	1.05%
As 188.979†	1334.7	565.10 ug/L	4.682	565.10 ppb	4.682	0.83%
B 249.677†	25797.5	532.27 ug/L	2.180	532.27 ppb	2.180	0.41%
Ba 233.527†	194698.2	1471.1 ug/L	13.52	1471.1 ppb	13.52	0.92%
Be 313.107†	1558969.4	541.12 ug/L	4.750	541.12 ppb	4.750	0.88%
Ca 317.933Radial†	17215.8	34133 ug/L	289.7	34133 ppb	289.7	0.85%
Cd 226.502†	49697.7	509.72 ug/L	4.297	509.72 ppb	4.297	0.84%
Co 228.616†	28265.7	516.98 ug/L	5.778	516.98 ppb	5.778	1.12%
Cr 267.716†	54543.8	584.38 ug/L	4.237	584.38 ppb	4.237	0.72%
Cu 324.752†	210833.6	609.60 ug/L	3.716	609.60 ppb	3.716	0.61%
Fe 238.204 Radial†	7422.6	88420 ug/L	230.9	88420 ppb	230.9	0.26%
K 766.490 Radial†	95508.6	16636 ug/L	150.5	16636 ppb	150.5	0.90%

Mg 279.077 IEC†	429.1	18587 ug/L	17.2	18587 ppb	17.2	0.09%
Mn 257.610†	4348379.2	4459.7 ug/L	48.65	4459.7 ppb	48.65	1.09%
Mo 202.031†	7004.4	484.49 ug/L	4.488	484.49 ppb	4.488	0.93%
Na 589.592 Radial†	18290.3	5244.4 ug/L	64.31	5244.4 ppb	64.31	1.23%
Ni 231.604†	24090.7	547.06 ug/L	5.720	547.06 ppb	5.720	1.05%
P 214.914†	3381.0	1552.3 ug/L	17.20	1552.3 ppb	17.20	1.11%
Pb 220.353†	6199.6	688.67 ug/L	5.648	688.67 ppb	5.648	0.82%
S 181.975 Axial†	4932.8	5953.7 ug/L	68.49	5953.7 ppb	68.49	1.15%
Sb 206.836†	1440.2	445.98 ug/L	6.317	445.98 ppb	6.317	1.42%
Se 196.026†	492.4	539.93 ug/L	3.681	539.93 ppb	3.681	0.68%
Si 251.611†	875718.6	26050 ug/L	274.6	26050 ppb	274.6	1.05%
Sn 189.927†	3028.9	498.46 ug/L	5.132	498.46 ppb	5.132	1.03%
Sr 421.552†	103204.5	696.94 ug/L	6.666	696.94 ppb	6.666	0.96%
Ti 334.940†	2743273.7	4214.6 ug/L	41.78	4214.6 ppb	41.78	0.99%
Tl 190.801†	1366.2	443.13 ug/L	6.791	443.13 ppb	6.791	1.53%
U 409.014†	12727.2	401.66 ug/L	0.338	401.66 ppb	0.338	0.08%
V 292.402†	93873.4	641.98 ug/L	4.547	641.98 ppb	4.547	0.71%
Zn 213.857†	104200.1	878.45 ug/L	7.580	878.45 ppb	7.580	0.86%
SiO2†	871506.1	55610 ug/L	372.2	55610 ppb	372.2	0.67%

Sequence No.: 75

Sample ID: 1202021605|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 80

Date Collected: 2/4/2010 00:30:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021605|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3846.3	3846.3	97.1 %		00:32:46
1	Y RADIAL	4584.4	4584.4	101.0 %		00:32:46
1	Al 396.153Radial†	82298.5	84927.1	76272 ug/L	76272 ppb	00:32:25
1	Ca 317.933Radial†	17626.8	18131.6	35948 ug/L	35948 ppb	00:32:25
1	Fe 238.204 Radial†	6074.9	6242.7	74367 ug/L	74367 ppb	00:32:46
1	K 766.490 Radial†	90972.7	90631.2	15785 ug/L	15785 ppb	00:32:25
1	Mg 279.077 IEC†	376.4	384.2	16648 ug/L	16648 ppb	00:32:46
1	Na 589.592 Radial†	15233.7	17269.1	4951.6 ug/L	4951.6 ppb	00:32:25
1	Sr 421.552†	99760.2	102708.8	693.58 ug/L	693.58 ppb	00:32:25
1	Sc 361.383	830020.4	830020.4	95.983 %		00:33:49
1	Y 371.029	716991.0	716991.0	105.12 %		00:33:49
1	Ag 328.068†	105508.7	109489.6	523.76 ug/L	523.76 ppb	00:33:49
1	As 188.979†	1239.6	1327.0	552.94 ug/L	552.94 ppb	00:34:09
1	B 249.677†	23983.8	25594.4	530.25 ug/L	530.25 ppb	00:33:49
1	Ba 233.527†	184010.8	191730.7	1448.2 ug/L	1448.2 ppb	00:33:49
1	Be 313.107†	1463991.3	1529211.4	529.42 ug/L	529.42 ppb	00:33:44
1	Cd 226.502†	46682.6	48836.2	502.19 ug/L	502.19 ppb	00:33:49
1	Co 228.616†	26811.5	28020.1	514.03 ug/L	514.03 ppb	00:34:09
1	Cr 267.716†	50876.5	52916.9	566.71 ug/L	566.71 ppb	00:33:49
1	Cu 324.752†	206841.6	208650.8	602.58 ug/L	602.58 ppb	00:33:49
1	Mn 257.610†	3884811.2	4046919.2	4149.8 ug/L	4149.8 ppb	00:33:44
1	Mo 202.031†	6613.9	6887.9	475.49 ug/L	475.49 ppb	00:34:09
1	Ni 231.604†	22947.4	23824.7	541.02 ug/L	541.02 ppb	00:34:09
1	P 214.914†	3655.3	3573.8	1661.6 ug/L	1661.6 ppb	00:34:09
1	Pb 220.353†	5578.5	5883.1	654.30 ug/L	654.30 ppb	00:34:09
1	S 181.975 Axial†	4835.8	4986.3	6019.4 ug/L	6019.4 ppb	00:34:09
1	Sb 206.836†	1389.4	1412.0	439.50 ug/L	439.50 ppb	00:34:09
1	Se 196.026†	513.3	564.3	535.53 ug/L	535.53 ppb	00:34:09
1	Si 251.611†	772408.9	804248.9	23923 ug/L	23923 ppb	00:33:44
1	Sn 189.927†	2880.0	2982.9	491.03 ug/L	491.03 ppb	00:34:09
1	Ti 334.940†	2203884.7	2297823.9	3531.0 ug/L	3531.0 ppb	00:33:44
1	Tl 190.801†	1280.5	1377.3	439.21 ug/L	439.21 ppb	00:34:09
1	U 409.014†	8420.3	13097.5	415.32 ug/L	415.32 ppb	00:33:49
1	V 292.402†	84872.4	90132.6	618.66 ug/L	618.66 ppb	00:33:49
1	Zn 213.857†	93823.4	97005.4	818.32 ug/L	818.32 ppb	00:33:49
1	SiO2†	783054.2	815296.8	52023 ug/L	52023 ppb	00:35:19
2	Sc Radial	3851.6	3851.6	97.3 %		00:33:11
2	Y RADIAL	4602.5	4602.5	101.4 %		00:33:11
2	Al 396.153Radial†	81255.9	83737.5	75203 ug/L	75203 ppb	00:32:51
2	Ca 317.933Radial†	17315.7	17786.5	35264 ug/L	35264 ppb	00:32:51
2	Fe 238.204 Radial†	6069.4	6228.3	74196 ug/L	74196 ppb	00:33:11
2	K 766.490 Radial†	89554.7	89043.2	15508 ug/L	15508 ppb	00:32:51
2	Mg 279.077 IEC†	382.2	389.6	16883 ug/L	16883 ppb	00:33:11
2	Na 589.592 Radial†	14989.2	16996.0	4873.3 ug/L	4873.3 ppb	00:32:51
2	Sr 421.552†	98256.2	101019.7	682.17 ug/L	682.17 ppb	00:32:51
2	Sc 361.383	823957.6	823957.6	95.282 %		00:34:21
2	Y 371.029	713442.0	713442.0	104.60 %		00:34:21
2	Ag 328.068†	104349.1	109081.5	521.86 ug/L	521.86 ppb	00:34:21
2	As 188.979†	1246.0	1343.2	559.32 ug/L	559.32 ppb	00:34:41
2	B 249.677†	23739.0	25521.4	528.73 ug/L	528.73 ppb	00:34:21
2	Ba 233.527†	182438.7	191491.4	1446.4 ug/L	1446.4 ppb	00:34:21
2	Be 313.107†	1468599.7	1545271.2	534.96 ug/L	534.96 ppb	00:34:16
2	Cd 226.502†	46185.7	48672.5	500.50 ug/L	500.50 ppb	00:34:21
2	Co 228.616†	26703.0	28111.7	515.69 ug/L	515.69 ppb	00:34:41
2	Cr 267.716†	50500.5	52912.4	566.65 ug/L	566.65 ppb	00:34:21
2	Cu 324.752†	204381.4	207654.4	599.72 ug/L	599.72 ppb	00:34:21
2	Mn 257.610†	3886040.2	4077990.8	4181.6 ug/L	4181.6 ppb	00:34:16
2	Mo 202.031†	6611.7	6936.3	478.76 ug/L	478.76 ppb	00:34:41
2	Ni 231.604†	22925.9	23978.0	544.50 ug/L	544.50 ppb	00:34:41

2	P 214.914†	3652.0	3598.4	1674.5 ug/L	1674.5 ppb	00:34:41
2	Pb 220.353†	5576.2	5923.5	658.50 ug/L	658.50 ppb	00:34:41
2	S 181.975 Axial†	4831.3	5018.6	6058.8 ug/L	6058.8 ppb	00:34:41
2	Sb 206.836†	1379.5	1412.3	439.60 ug/L	439.60 ppb	00:34:41
2	Se 196.026†	508.4	563.1	534.40 ug/L	534.40 ppb	00:34:41
2	Si 251.611†	771657.7	809381.9	24076 ug/L	24076 ppb	00:34:16
2	Sn 189.927†	2861.2	2985.3	491.32 ug/L	491.32 ppb	00:34:41
2	Ti 334.940†	2205217.1	2316117.7	3559.0 ug/L	3559.0 ppb	00:34:16
2	Tl 190.801†	1273.8	1380.1	440.40 ug/L	440.40 ppb	00:34:41
2	U 409.014†	8229.4	12961.7	410.93 ug/L	410.93 ppb	00:34:21
2	V 292.402†	84069.5	89940.6	617.37 ug/L	617.37 ppb	00:34:21
2	Zn 213.857†	92844.1	96696.8	815.68 ug/L	815.68 ppb	00:34:21
2	SiO2†	775200.6	813057.4	51880 ug/L	51880 ppb	00:35:25
3	Sc Radial	3848.9	3848.9	97.2 %		00:33:36
3	Y RADIAL	4564.6	4564.6	100.6 %		00:33:36
3	Al 396.153Radial†	80654.0	83177.2	74700 ug/L	74700 ppb	00:33:16
3	Ca 317.933Radial†	17176.1	17655.4	35004 ug/L	35004 ppb	00:33:16
3	Fe 238.204 Radial†	6056.3	6219.2	74088 ug/L	74088 ppb	00:33:36
3	K 766.490 Radial†	88922.3	88457.5	15406 ug/L	15406 ppb	00:33:16
3	Mg 279.077 IEC†	380.4	388.1	16817 ug/L	16817 ppb	00:33:36
3	Na 589.592 Radial†	14754.0	16764.9	4807.1 ug/L	4807.1 ppb	00:33:16
3	Sr 421.552†	97440.5	100251.8	676.99 ug/L	676.99 ppb	00:33:16
3	Sc 361.383	828595.3	828595.3	95.818 %		00:34:53
3	Y 371.029	718232.8	718232.8	105.30 %		00:34:53
3	Ag 328.068†	105223.6	109381.2	523.19 ug/L	523.19 ppb	00:34:53
3	As 188.979†	1229.4	1318.6	550.19 ug/L	550.19 ppb	00:35:13
3	B 249.677†	23959.9	25612.5	530.69 ug/L	530.69 ppb	00:34:53
3	Ba 233.527†	183881.5	191925.5	1449.7 ug/L	1449.7 ppb	00:34:53
3	Be 313.107†	1493148.1	1562264.2	540.83 ug/L	540.83 ppb	00:34:48
3	Cd 226.502†	46737.7	48977.3	503.68 ug/L	503.68 ppb	00:34:53
3	Co 228.616†	26657.4	27907.3	511.81 ug/L	511.81 ppb	00:35:13
3	Cr 267.716†	50916.2	53049.5	568.12 ug/L	568.12 ppb	00:34:53
3	Cu 324.752†	206143.9	208293.3	601.54 ug/L	601.54 ppb	00:34:53
3	Mn 257.610†	3947552.4	4119360.2	4223.9 ug/L	4223.9 ppb	00:34:48
3	Mo 202.031†	6595.6	6880.6	474.96 ug/L	474.96 ppb	00:35:13
3	Ni 231.604†	22846.0	23760.0	539.55 ug/L	539.55 ppb	00:35:13
3	P 214.914†	3676.3	3602.3	1676.1 ug/L	1676.1 ppb	00:35:13
3	Pb 220.353†	5549.8	5863.2	651.80 ug/L	651.80 ppb	00:35:13
3	S 181.975 Axial†	4805.6	4963.4	5992.0 ug/L	5992.0 ppb	00:35:13
3	Sb 206.836†	1398.2	1423.6	442.90 ug/L	442.90 ppb	00:35:13
3	Se 196.026†	504.6	556.1	530.27 ug/L	530.27 ppb	00:35:13
3	Si 251.611†	784742.4	818504.8	24347 ug/L	24347 ppb	00:34:48
3	Sn 189.927†	2867.2	2974.7	489.56 ug/L	489.56 ppb	00:35:13
3	Ti 334.940†	2238017.9	2337396.0	3591.7 ug/L	3591.7 ppb	00:34:48
3	Tl 190.801†	1269.9	1368.5	437.57 ug/L	437.57 ppb	00:35:13
3	U 409.014†	8370.1	13060.2	414.14 ug/L	414.14 ppb	00:34:53
3	V 292.402†	84815.3	90225.1	619.27 ug/L	619.27 ppb	00:34:53
3	Zn 213.857†	93872.2	97224.4	820.23 ug/L	820.23 ppb	00:34:53
3	SiO2†	779264.4	812744.8	51860 ug/L	51860 ppb	00:35:30

Mean Data: 1202021605|944124|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	827524.4	95.694 %	0.3666			0.38%
Sc Radial	3849.0	97.2 %	0.07			0.07%
Y 371.029	716221.9	105.00 %	0.365			0.35%
Y RADIAL	4583.8	101.0 %	0.42			0.41%
Ag 328.068†	109317.4	522.94 ug/L	0.976	522.94 ppb	0.976	0.19%
Al 396.153Radial†	83947.2	75392 ug/L	802.8	75392 ppb	802.8	1.06%
As 188.979†	1329.6	554.15 ug/L	4.684	554.15 ppb	4.684	0.85%
B 249.677†	25576.1	529.89 ug/L	1.031	529.89 ppb	1.031	0.19%
Ba 233.527†	191715.9	1448.1 ug/L	1.64	1448.1 ppb	1.64	0.11%
Be 313.107†	1545582.3	535.07 ug/L	5.705	535.07 ppb	5.705	1.07%
Ca 317.933Radial†	17857.8	35406 ug/L	487.6	35406 ppb	487.6	1.38%
Cd 226.502†	48828.7	502.12 ug/L	1.595	502.12 ppb	1.595	0.32%
Co 228.616†	28013.0	513.84 ug/L	1.944	513.84 ppb	1.944	0.38%
Cr 267.716†	52959.6	567.16 ug/L	0.830	567.16 ppb	0.830	0.15%
Cu 324.752†	208199.5	601.28 ug/L	1.451	601.28 ppb	1.451	0.24%
Fe 238.204 Radial†	6230.1	74217 ug/L	140.8	74217 ppb	140.8	0.19%
K 766.490 Radial†	89377.3	15567 ug/L	195.9	15567 ppb	195.9	1.26%

Mg 279.077 IEC†	387.3	16783 ug/L	121.2	16783 ppb	121.2	0.72%
Mn 257.610†	4081423.4	4185.1 ug/L	37.19	4185.1 ppb	37.19	0.89%
Mo 202.031†	6901.6	476.40 ug/L	2.061	476.40 ppb	2.061	0.43%
Na 589.592 Radial†	17010.0	4877.3 ug/L	72.37	4877.3 ppb	72.37	1.48%
Ni 231.604†	23854.2	541.69 ug/L	2.543	541.69 ppb	2.543	0.47%
P 214.914†	3591.5	1670.7 ug/L	7.97	1670.7 ppb	7.97	0.48%
Pb 220.353†	5890.0	654.87 ug/L	3.388	654.87 ppb	3.388	0.52%
S 181.975 Axial†	4989.4	6023.4 ug/L	33.55	6023.4 ppb	33.55	0.56%
Sb 206.836†	1416.0	440.67 ug/L	1.938	440.67 ppb	1.938	0.44%
Se 196.026†	561.2	533.40 ug/L	2.768	533.40 ppb	2.768	0.52%
Si 251.611†	810711.9	24116 ug/L	214.8	24116 ppb	214.8	0.89%
Sn 189.927†	2980.9	490.64 ug/L	0.942	490.64 ppb	0.942	0.19%
Sr 421.552†	101326.7	684.25 ug/L	8.488	684.25 ppb	8.488	1.24%
Ti 334.940†	2317112.5	3560.6 ug/L	30.34	3560.6 ppb	30.34	0.85%
Tl 190.801†	1375.3	439.06 ug/L	1.420	439.06 ppb	1.420	0.32%
U 409.014†	13039.8	413.46 ug/L	2.271	413.46 ppb	2.271	0.55%
V 292.402†	90099.4	618.43 ug/L	0.974	618.43 ppb	0.974	0.16%
Zn 213.857†	96975.5	818.07 ug/L	2.286	818.07 ppb	2.286	0.28%
SiO2†	813699.7	51921 ug/L	88.9	51921 ppb	88.9	0.17%

Sequence No.: 76

Sample ID: 1202021603|944124|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 81

Date Collected: 2/4/2010 00:37:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021603|944124|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3802.2	3802.2	96.0 %		00:39:56
1	Y RADIAL	4266.0	4266.0	94.00 %		00:39:36
1	Al 396.153Radial†	7638.9	8151.7	7323.1 ug/L	7323.1 ppb	00:39:36
1	Ca 317.933Radial†	3159.5	3274.3	6491.7 ug/L	6491.7 ppb	00:39:56
1	Fe 238.204 Radial†	1082.8	1115.9	13291 ug/L	13291 ppb	00:39:56
1	K 766.490 Radial†	11382.1	8823.6	1535.8 ug/L	1535.8 ppb	00:39:36
1	Mg 279.077 IEC†	45.6	44.2	1911.4 ug/L	1911.4 ppb	00:39:56
1	Na 589.592 Radial†	-1253.4	279.7	80.204 ug/L	80.204 ppb	00:39:36
1	Sr 421.552†	6132.9	6387.0	43.099 ug/L	43.099 ppb	00:39:36
1	Sc 361.383	859432.3	859432.3	99.384 %		00:40:53
1	Y 371.029	687731.0	687731.0	100.83 %		00:40:53
1	Ag 328.068†	-392.4	-829.9	0.7189 ug/L	0.7189 ppb	00:40:53
1	As 188.979†	-30.0	5.2	9.3254 ug/L	9.3254 ppb	00:41:13
1	B 249.677†	-302.9	302.1	4.2431 ug/L	4.2431 ppb	00:41:13
1	Ba 233.527†	27071.8	27257.7	205.82 ug/L	205.82 ppb	00:40:53
1	Be 313.107†	-4019.9	-100.7	1.0714 ug/L	1.0714 ppb	00:40:53
1	Cd 226.502†	-58.6	140.6	0.0972 ug/L	0.0972 ppb	00:41:13
1	Co 228.616†	221.4	309.1	4.6300 ug/L	4.6300 ppb	00:41:13
1	Cr 267.716†	1005.1	922.3	10.130 ug/L	10.130 ppb	00:41:13
1	Cu 324.752†	10618.5	3836.1	11.720 ug/L	11.720 ppb	00:40:53
1	Mn 257.610†	818591.9	823175.2	843.98 ug/L	843.98 ppb	00:40:53
1	Mo 202.031†	6.2	3.4	1.3434 ug/L	1.3434 ppb	00:41:13
1	Ni 231.604†	452.4	372.0	8.4485 ug/L	8.4485 ppb	00:41:13
1	P 214.914†	647.7	417.2	200.92 ug/L	200.92 ppb	00:41:13
1	Pb 220.353†	173.3	245.6	27.277 ug/L	27.277 ppb	00:41:13
1	S 181.975 Axial†	174.9	124.0	148.73 ug/L	148.73 ppb	00:41:13
1	Sb 206.836†	44.2	8.9	0.6888 ug/L	0.6888 ppb	00:41:13
1	Se 196.026†	-82.1	-53.1	12.125 ug/L	12.125 ppb	00:41:13
1	Si 251.611†	122237.2	122505.6	3644.9 ug/L	3644.9 ppb	00:40:53
1	Sn 189.927†	-51.9	-69.8	-10.128 ug/L	-10.128 ppb	00:41:13
1	Ti 334.940†	313601.6	317240.7	487.79 ug/L	487.79 ppb	00:40:53
1	Tl 190.801†	-68.8	-26.0	0.5859 ug/L	0.5859 ppb	00:41:13
1	U 409.014†	-4647.0	-351.0	-12.929 ug/L	-12.929 ppb	00:40:53
1	V 292.402†	1068.7	2783.2	16.883 ug/L	16.883 ppb	00:41:13
1	Zn 213.857†	7252.6	6552.4	54.692 ug/L	54.692 ppb	00:41:13
1	SiO2†	121758.1	121980.6	7785.3 ug/L	7785.3 ppb	00:42:10
2	Sc Radial	3802.1	3802.1	96.0 %		00:40:21
2	Y RADIAL	4290.6	4290.6	94.54 %		00:40:01
2	Al 396.153Radial†	7564.4	8074.5	7253.7 ug/L	7253.7 ppb	00:40:01
2	Ca 317.933Radial†	3150.3	3264.9	6473.2 ug/L	6473.2 ppb	00:40:21
2	Fe 238.204 Radial†	1074.6	1107.4	13190 ug/L	13190 ppb	00:40:21
2	K 766.490 Radial†	11155.3	8588.0	1494.8 ug/L	1494.8 ppb	00:40:01
2	Mg 279.077 IEC†	45.3	43.9	1897.9 ug/L	1897.9 ppb	00:40:21
2	Na 589.592 Radial†	-1335.8	193.9	55.587 ug/L	55.587 ppb	00:40:01
2	Sr 421.552†	5985.7	6233.9	42.065 ug/L	42.065 ppb	00:40:01
2	Sc 361.383	868560.7	868560.7	100.44 %		00:41:18
2	Y 371.029	694626.4	694626.4	101.84 %		00:41:18
2	Ag 328.068†	-348.8	-782.4	0.8946 ug/L	0.8946 ppb	00:41:18
2	As 188.979†	-31.6	4.0	8.8216 ug/L	8.8216 ppb	00:41:39
2	B 249.677†	-256.9	351.0	5.2994 ug/L	5.2994 ppb	00:41:39
2	Ba 233.527†	27406.7	27304.8	206.17 ug/L	206.17 ppb	00:41:18
2	Be 313.107†	-4074.1	-112.2	1.0688 ug/L	1.0688 ppb	00:41:18
2	Cd 226.502†	-60.1	139.8	0.1001 ug/L	0.1001 ppb	00:41:39
2	Co 228.616†	237.3	322.6	4.8826 ug/L	4.8826 ppb	00:41:39
2	Cr 267.716†	968.0	874.7	9.6176 ug/L	9.6176 ppb	00:41:39
2	Cu 324.752†	10616.7	3721.9	11.384 ug/L	11.384 ppb	00:41:18
2	Mn 257.610†	827034.3	822924.2	843.72 ug/L	843.72 ppb	00:41:18
2	Mo 202.031†	9.6	6.7	1.5567 ug/L	1.5567 ppb	00:41:39
2	Ni 231.604†	478.2	392.9	8.9236 ug/L	8.9236 ppb	00:41:39

2	P 214.914†	644.2	406.9	195.81 ug/L	195.81 ppb	00:41:39
2	Pb 220.353†	173.2	243.6	27.055 ug/L	27.055 ppb	00:41:39
2	S 181.975 Axial†	181.7	129.0	154.74 ug/L	154.74 ppb	00:41:39
2	Sb 206.836†	39.9	4.2	-0.7599 ug/L	-0.7599 ppb	00:41:39
2	Se 196.026†	-93.8	-63.8	6.0108 ug/L	6.0108 ppb	00:41:39
2	Si 251.611†	123554.9	122524.8	3645.5 ug/L	3645.5 ppb	00:41:18
2	Sn 189.927†	-44.9	-62.3	-8.9159 ug/L	-8.9159 ppb	00:41:39
2	Ti 334.940†	317306.7	317613.3	488.36 ug/L	488.36 ppb	00:41:18
2	Tl 190.801†	-66.0	-22.5	1.5717 ug/L	1.5717 ppb	00:41:39
2	U 409.014†	-4530.9	-186.3	-7.5719 ug/L	-7.5719 ppb	00:41:18
2	V 292.402†	1023.1	2726.5	16.517 ug/L	16.517 ppb	00:41:39
2	Zn 213.857†	7233.7	6457.0	53.882 ug/L	53.882 ppb	00:41:39
2	SiO2†	123494.0	122421.3	7813.4 ug/L	7813.4 ppb	00:42:15
3	Sc Radial	3776.0	3776.0	95.4 %		00:40:46
3	Y RADIAL	4327.8	4327.8	95.36 %		00:40:26
3	Al 396.153Radial†	7611.4	8178.1	7346.8 ug/L	7346.8 ppb	00:40:26
3	Ca 317.933Radial†	3133.1	3269.4	6482.1 ug/L	6482.1 ppb	00:40:46
3	Fe 238.204 Radial†	1071.1	1111.5	13238 ug/L	13238 ppb	00:40:46
3	K 766.490 Radial†	11408.3	8933.5	1555.0 ug/L	1555.0 ppb	00:40:26
3	Mg 279.077 IEC†	36.7	35.2	1515.9 ug/L	1515.9 ppb	00:40:46
3	Na 589.592 Radial†	-1241.2	283.5	81.286 ug/L	81.286 ppb	00:40:26
3	Sr 421.552†	6064.5	6359.5	42.913 ug/L	42.913 ppb	00:40:26
3	Sc 361.383	859602.9	859602.9	99.403 %		00:41:44
3	Y 371.029	687671.0	687671.0	100.82 %		00:41:44
3	Ag 328.068†	-347.8	-785.0	0.9029 ug/L	0.9029 ppb	00:41:44
3	As 188.979†	-30.6	4.7	9.1224 ug/L	9.1224 ppb	00:42:04
3	B 249.677†	-249.1	356.2	5.4016 ug/L	5.4016 ppb	00:42:04
3	Ba 233.527†	27188.4	27369.6	206.66 ug/L	206.66 ppb	00:41:44
3	Be 313.107†	-4062.5	-142.8	1.0605 ug/L	1.0605 ppb	00:41:44
3	Cd 226.502†	-67.3	131.9	0.0131 ug/L	0.0131 ppb	00:42:04
3	Co 228.616†	237.3	325.1	4.9245 ug/L	4.9245 ppb	00:42:04
3	Cr 267.716†	957.6	874.3	9.6156 ug/L	9.6156 ppb	00:42:04
3	Cu 324.752†	10748.8	3965.0	12.086 ug/L	12.086 ppb	00:41:44
3	Mn 257.610†	821378.3	825814.9	846.70 ug/L	846.70 ppb	00:41:44
3	Mo 202.031†	2.1	-0.7	1.0562 ug/L	1.0562 ppb	00:42:04
3	Ni 231.604†	488.8	408.6	9.2796 ug/L	9.2796 ppb	00:42:04
3	P 214.914†	672.3	441.9	213.47 ug/L	213.47 ppb	00:42:04
3	Pb 220.353†	209.5	281.9	31.263 ug/L	31.263 ppb	00:42:04
3	S 181.975 Axial†	183.5	132.7	159.18 ug/L	159.18 ppb	00:42:04
3	Sb 206.836†	51.8	16.5	3.0427 ug/L	3.0427 ppb	00:42:04
3	Se 196.026†	-85.7	-56.7	10.046 ug/L	10.046 ppb	00:42:04
3	Si 251.611†	122873.4	123121.2	3663.3 ug/L	3663.3 ppb	00:41:44
3	Sn 189.927†	-41.5	-59.4	-8.4387 ug/L	-8.4387 ppb	00:42:04
3	Ti 334.940†	314632.0	318214.7	489.32 ug/L	489.32 ppb	00:41:44
3	Tl 190.801†	-71.0	-28.2	-0.0282 ug/L	-0.0282 ppb	00:42:04
3	U 409.014†	-4539.4	-241.9	-9.3793 ug/L	-9.3793 ppb	00:41:44
3	V 292.402†	1093.2	2807.6	17.054 ug/L	17.054 ppb	00:42:04
3	Zn 213.857†	7276.5	6575.1	54.885 ug/L	54.885 ppb	00:42:04
3	SiO2†	123638.6	123848.1	7904.5 ug/L	7904.5 ppb	00:42:20

Mean Data: 1202021603|944124|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	862532.0	99.742 %	0.6038			0.61%
Sc Radial	3793.4	95.8 %	0.38			0.40%
Y 371.029	690009.4	101.16 %	0.586			0.58%
Y RADIAL	4294.8	94.63 %	0.686			0.72%
Ag 328.068†	-799.1	0.8388 ug/L	0.10396	0.8388 ppb	0.10396	12.39%
Al 396.153Radial†	8134.8	7307.9 ug/L	48.39	7307.9 ppb	48.39	0.66%
As 188.979†	4.6	9.0898 ug/L	0.25347	9.0898 ppb	0.25347	2.79%
B 249.677†	336.4	4.9814 ug/L	0.64139	4.9814 ppb	0.64139	12.88%
Ba 233.527†	27310.7	206.22 ug/L	0.423	206.22 ppb	0.423	0.21%
Be 313.107†	-118.6	1.0669 ug/L	0.00572	1.0669 ppb	0.00572	0.54%
Ca 317.933Radial†	3269.6	6482.3 ug/L	9.28	6482.3 ppb	9.28	0.14%
Cd 226.502†	137.4	0.0701 ug/L	0.04944	0.0701 ppb	0.04944	70.49%
Co 228.616†	319.0	4.8124 ug/L	0.15934	4.8124 ppb	0.15934	3.31%
Cr 267.716†	890.5	9.7877 ug/L	0.29637	9.7877 ppb	0.29637	3.03%
Cu 324.752†	3841.0	11.730 ug/L	0.3507	11.730 ppb	0.3507	2.99%
Fe 238.204 Radial†	1111.6	13240 ug/L	50.5	13240 ppb	50.5	0.38%
K 766.490 Radial†	8781.7	1528.5 ug/L	30.77	1528.5 ppb	30.77	2.01%

Mg 279.077 IEC†	41.1	1775.1 ug/L	224.51	1775.1 ppb	224.51	12.65%
Mn 257.610†	823971.4	844.80 ug/L	1.649	844.80 ppb	1.649	0.20%
Mo 202.031†	3.1	1.3188 ug/L	0.25114	1.3188 ppb	0.25114	19.04%
Na 589.592 Radial†	252.4	72.359 ug/L	14.5349	72.359 ppb	14.5349	20.09%
Ni 231.604†	391.1	8.8839 ug/L	0.41699	8.8839 ppb	0.41699	4.69%
P 214.914†	422.0	203.40 ug/L	9.085	203.40 ppb	9.085	4.47%
Pb 220.353†	257.0	28.532 ug/L	2.3685	28.532 ppb	2.3685	8.30%
S 181.975 Axial†	128.6	154.22 ug/L	5.248	154.22 ppb	5.248	3.40%
Sb 206.836†	9.9	0.9905 ug/L	1.91917	0.9905 ppb	1.91917	193.76%
Se 196.026†	-57.9	9.3938 ug/L	3.10884	9.3938 ppb	3.10884	33.09%
Si 251.611†	122717.2	3651.2 ug/L	10.42	3651.2 ppb	10.42	0.29%
Sn 189.927†	-63.9	-9.1608 ug/L	0.87085	-9.1608 ppb	0.87085	9.51%
Sr 421.552†	6326.8	42.692 ug/L	0.5511	42.692 ppb	0.5511	1.29%
Ti 334.940†	317689.6	488.49 ug/L	0.771	488.49 ppb	0.771	0.16%
Tl 190.801†	-25.6	0.7098 ug/L	0.80709	0.7098 ppb	0.80709	113.71%
U 409.014†	-259.7	-9.9601 ug/L	2.72539	-9.9601 ppb	2.72539	27.36%
V 292.402†	2772.4	16.818 ug/L	0.2743	16.818 ppb	0.2743	1.63%
Zn 213.857†	6528.2	54.486 ug/L	0.5320	54.486 ppb	0.5320	0.98%
SiO2†	122750.0	7834.4 ug/L	62.31	7834.4 ppb	62.31	0.80%

Sequence No.: 77

Sample ID: 245113002|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 82

Date Collected: 2/4/2010 00:44:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113002|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3784.4	3784.4	95.6 %		00:46:44
1	Y RADIAL	4572.8	4572.8	100.8 %		00:46:24
1	Al 396.153Radial†	36646.3	38542.2	34624 ug/L	34624 ppb	00:46:24
1	Ca 317.933Radial†	8209.7	8574.3	17000 ug/L	17000 ppb	00:46:24
1	Fe 238.204 Radial†	5849.4	6108.9	72759 ug/L	72759 ppb	00:46:24
1	K 766.490 Radial†	36224.9	34874.6	6073.7 ug/L	6073.7 ppb	00:46:24
1	Mg 279.077 IEC†	140.1	143.3	6161.9 ug/L	6161.9 ppb	00:46:44
1	Na 589.592 Radial†	339.2	1940.1	556.29 ug/L	556.29 ppb	00:46:24
1	Sr 421.552†	17096.4	17889.0	120.72 ug/L	120.72 ppb	00:46:24
1	Sc 361.383	860212.6	860212.6	99.474 %		00:47:42
1	Y 371.029	716095.5	716095.5	104.99 %		00:47:42
1	Ag 328.068†	-4193.5	-4650.8	3.8909 ug/L	3.8909 ppb	00:47:47
1	As 188.979†	-73.1	-38.0	34.025 ug/L	34.025 ppb	00:48:07
1	B 249.677†	429.2	1038.3	10.169 ug/L	10.169 ppb	00:47:47
1	Ba 233.527†	65308.9	65672.3	497.33 ug/L	497.33 ppb	00:47:47
1	Be 313.107†	-20146.3	-16308.7	2.6908 ug/L	2.6908 ppb	00:47:47
1	Cd 226.502†	452.9	654.9	-0.6610 ug/L	-0.6610 ppb	00:48:07
1	Co 228.616†	1337.0	1430.5	18.106 ug/L	18.106 ppb	00:48:07
1	Cr 267.716†	14488.1	14475.7	156.10 ug/L	156.10 ppb	00:47:47
1	Cu 324.752†	14376.5	7604.2	25.754 ug/L	25.754 ppb	00:47:47
1	Mn 257.610†	1571332.4	1579149.0	1623.6 ug/L	1623.6 ppb	00:47:42
1	Mo 202.031†	39.3	36.7	8.3512 ug/L	8.3512 ppb	00:48:07
1	Ni 231.604†	3491.6	3426.9	77.848 ug/L	77.848 ppb	00:48:07
1	P 214.914†	1466.1	1239.4	575.63 ug/L	575.63 ppb	00:48:07
1	Pb 220.353†	497.8	571.7	63.297 ug/L	63.297 ppb	00:48:07
1	S 181.975 Axial†	487.6	438.2	523.78 ug/L	523.78 ppb	00:48:07
1	Sb 206.836†	76.9	41.7	-0.6687 ug/L	-0.6687 ppb	00:48:07
1	Se 196.026†	-375.4	-347.9	35.558 ug/L	35.558 ppb	00:48:07
1	Si 251.611†	554843.0	557287.4	16581 ug/L	16581 ppb	00:47:42
1	Sn 189.927†	-86.0	-104.1	-13.088 ug/L	-13.088 ppb	00:48:07
1	Ti 334.940†	2353128.2	2367265.9	3636.4 ug/L	3636.4 ppb	00:47:42
1	Tl 190.801†	-162.2	-119.9	3.2563 ug/L	3.2563 ppb	00:48:07
1	U 409.014†	-8561.6	-4282.1	-147.61 ug/L	-147.61 ppb	00:47:47
1	V 292.402†	18018.4	19821.5	122.98 ug/L	122.98 ppb	00:47:47
1	Zn 213.857†	24361.8	23745.5	195.54 ug/L	195.54 ppb	00:47:47
1	SiO2†	550590.1	552969.1	35293 ug/L	35293 ppb	00:49:15
2	Sc Radial	3809.8	3809.8	96.2 %		00:47:10
2	Y RADIAL	4515.9	4515.9	99.50 %		00:46:50
2	Al 396.153Radial†	36183.6	37806.2	33963 ug/L	33963 ppb	00:46:50
2	Ca 317.933Radial†	8119.9	8423.8	16701 ug/L	16701 ppb	00:46:50
2	Fe 238.204 Radial†	5771.1	5986.8	71305 ug/L	71305 ppb	00:46:50
2	K 766.490 Radial†	35922.5	34308.3	5975.1 ug/L	5975.1 ppb	00:46:50
2	Mg 279.077 IEC†	147.2	149.7	6440.1 ug/L	6440.1 ppb	00:47:10
2	Na 589.592 Radial†	303.6	1900.7	545.00 ug/L	545.00 ppb	00:46:50
2	Sr 421.552†	16898.3	17564.2	118.53 ug/L	118.53 ppb	00:46:50
2	Sc 361.383	854058.5	854058.5	98.762 %		00:48:13
2	Y 371.029	712377.0	712377.0	104.44 %		00:48:13
2	Ag 328.068†	-4213.2	-4701.1	3.1806 ug/L	3.1806 ppb	00:48:18
2	As 188.979†	-78.2	-43.8	31.392 ug/L	31.392 ppb	00:48:38
2	B 249.677†	422.1	1034.2	10.319 ug/L	10.319 ppb	00:48:18
2	Ba 233.527†	65731.3	66573.0	504.07 ug/L	504.07 ppb	00:48:18
2	Be 313.107†	-20348.5	-16659.4	2.5439 ug/L	2.5439 ppb	00:48:18
2	Cd 226.502†	448.3	653.5	-0.5251 ug/L	-0.5251 ppb	00:48:38
2	Co 228.616†	1328.9	1432.0	18.182 ug/L	18.182 ppb	00:48:38
2	Cr 267.716†	14593.7	14687.6	158.33 ug/L	158.33 ppb	00:48:18
2	Cu 324.752†	14670.1	8005.6	26.830 ug/L	26.830 ppb	00:48:18
2	Mn 257.610†	1555091.3	1574086.7	1618.3 ug/L	1618.3 ppb	00:48:13
2	Mo 202.031†	42.4	40.1	8.4662 ug/L	8.4662 ppb	00:48:38
2	Ni 231.604†	3498.8	3459.5	78.588 ug/L	78.588 ppb	00:48:38

2	P 214.914†	1459.6	1243.4	578.41 ug/L	578.41 ppb	00:48:38
2	Pb 220.353†	493.4	570.8	63.195 ug/L	63.195 ppb	00:48:38
2	S 181.975 Axial†	495.5	449.8	537.86 ug/L	537.86 ppb	00:48:38
2	Sb 206.836†	74.9	40.3	-1.0259 ug/L	-1.0259 ppb	00:48:38
2	Se 196.026†	-390.1	-365.4	21.587 ug/L	21.587 ppb	00:48:38
2	Si 251.611†	548309.3	554691.0	16504 ug/L	16504 ppb	00:48:13
2	Sn 189.927†	-89.3	-108.1	-13.814 ug/L	-13.814 ppb	00:48:38
2	Ti 334.940†	2328568.3	2359443.7	3624.3 ug/L	3624.3 ppb	00:48:13
2	Tl 190.801†	-166.8	-125.6	1.4846 ug/L	1.4846 ppb	00:48:38
2	U 409.014†	-8527.2	-4309.3	-148.33 ug/L	-148.33 ppb	00:48:18
2	V 292.402†	18036.0	19969.9	124.24 ug/L	124.24 ppb	00:48:18
2	Zn 213.857†	24516.1	24078.3	198.52 ug/L	198.52 ppb	00:48:18
2	SiO2†	559053.4	565526.9	36094 ug/L	36094 ppb	00:49:21
3	Sc Radial	3823.0	3823.0	96.5 %		00:47:35
3	Y RADIAL	4502.2	4502.2	99.20 %		00:47:15
3	Al 396.153Radial†	36175.8	37667.8	33839 ug/L	33839 ppb	00:47:15
3	Ca 317.933Radial†	8127.6	8402.5	16659 ug/L	16659 ppb	00:47:15
3	Fe 238.204 Radial†	5785.1	5980.5	71230 ug/L	71230 ppb	00:47:15
3	K 766.490 Radial†	35967.8	34225.7	5960.7 ug/L	5960.7 ppb	00:47:15
3	Mg 279.077 IEC†	147.3	149.3	6424.2 ug/L	6424.2 ppb	00:47:35
3	Na 589.592 Radial†	341.3	1938.6	555.87 ug/L	555.87 ppb	00:47:15
3	Sr 421.552†	16930.0	17536.2	118.34 ug/L	118.34 ppb	00:47:15
3	Sc 361.383	861660.3	861660.3	99.641 %		00:48:44
3	Y 371.029	716341.9	716341.9	105.02 %		00:48:44
3	Ag 328.068†	-4131.7	-4581.7	3.6876 ug/L	3.6876 ppb	00:48:49
3	As 188.979†	-79.5	-44.3	31.240 ug/L	31.240 ppb	00:49:09
3	B 249.677†	388.5	996.7	9.5345 ug/L	9.5345 ppb	00:48:49
3	Ba 233.527†	65351.9	65605.1	496.77 ug/L	496.77 ppb	00:48:49
3	Be 313.107†	-20069.6	-16197.8	2.7197 ug/L	2.7197 ppb	00:48:49
3	Cd 226.502†	456.0	657.3	-0.4787 ug/L	-0.4787 ppb	00:49:09
3	Co 228.616†	1334.8	1426.0	18.049 ug/L	18.049 ppb	00:49:09
3	Cr 267.716†	14505.8	14468.9	155.99 ug/L	155.99 ppb	00:48:49
3	Cu 324.752†	14477.2	7681.0	25.893 ug/L	25.893 ppb	00:48:49
3	Mn 257.610†	1572258.8	1577424.7	1621.7 ug/L	1621.7 ppb	00:48:44
3	Mo 202.031†	14.4	11.6	6.5173 ug/L	6.5173 ppb	00:49:09
3	Ni 231.604†	3474.3	3403.6	77.318 ug/L	77.318 ppb	00:49:09
3	P 214.914†	1465.6	1236.4	575.10 ug/L	575.10 ppb	00:49:09
3	Pb 220.353†	461.4	534.2	59.172 ug/L	59.172 ppb	00:49:09
3	S 181.975 Axial†	483.1	432.9	517.55 ug/L	517.55 ppb	00:49:09
3	Sb 206.836†	95.3	60.1	5.0025 ug/L	5.0025 ppb	00:49:09
3	Se 196.026†	-388.8	-360.7	23.933 ug/L	23.933 ppb	00:49:09
3	Si 251.611†	555930.0	557441.2	16586 ug/L	16586 ppb	00:48:44
3	Sn 189.927†	-87.2	-105.1	-13.341 ug/L	-13.341 ppb	00:49:09
3	Ti 334.940†	2354533.9	2364702.0	3632.4 ug/L	3632.4 ppb	00:48:44
3	Tl 190.801†	-158.3	-115.6	4.4244 ug/L	4.4244 ppb	00:49:09
3	U 409.014†	-8524.5	-4230.4	-145.76 ug/L	-145.76 ppb	00:48:49
3	V 292.402†	17908.1	19680.4	122.21 ug/L	122.21 ppb	00:48:49
3	Zn 213.857†	24343.8	23686.3	195.18 ug/L	195.18 ppb	00:48:49
3	SiO2†	557486.6	558960.5	35675 ug/L	35675 ppb	00:49:26

Mean Data: 245113002|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	858643.8	99.293 %		0.4668			0.47%
Sc Radial	3805.7	96.1 %		0.50			0.52%
Y 371.029	714938.2	104.82 %		0.326			0.31%
Y RADIAL	4530.3	99.82 %		0.826			0.83%
Ag 328.068†	-4644.6	3.5864 ug/L		0.36582	3.5864 ppb	0.36582	10.20%
Al 396.153Radial†	38005.4	34142 ug/L		422.2	34142 ppb	422.2	1.24%
As 188.979†	-42.0	32.219 ug/L		1.5660	32.219 ppb	1.5660	4.86%
B 249.677†	1023.1	10.008 ug/L		0.4165	10.008 ppb	0.4165	4.16%
Ba 233.527†	65950.1	499.39 ug/L		4.064	499.39 ppb	4.064	0.81%
Be 313.107†	-16388.6	2.6514 ug/L		0.09424	2.6514 ppb	0.09424	3.55%
Ca 317.933Radial†	8466.9	16787 ug/L		185.6	16787 ppb	185.6	1.11%
Cd 226.502†	655.2	-0.5549 ug/L		0.09476	-0.5549 ppb	0.09476	17.08%
Co 228.616†	1429.5	18.112 ug/L		0.0672	18.112 ppb	0.0672	0.37%
Cr 267.716†	14544.1	156.81 ug/L		1.321	156.81 ppb	1.321	0.84%
Cu 324.752†	7763.6	26.159 ug/L		0.5851	26.159 ppb	0.5851	2.24%
Fe 238.204 Radial†	6025.4	71765 ug/L		862.0	71765 ppb	862.0	1.20%
K 766.490 Radial†	34469.5	6003.2 ug/L		61.52	6003.2 ppb	61.52	1.02%

Mg 279.077 IEC†	147.5	6342.1 ug/L	156.21	6342.1 ppb	156.21	2.46%
Mn 257.610†	1576886.8	1621.2 ug/L	2.70	1621.2 ppb	2.70	0.17%
Mo 202.031†	29.5	7.7782 ug/L	1.09352	7.7782 ppb	1.09352	14.06%
Na 589.592 Radial†	1926.5	552.39 ug/L	6.403	552.39 ppb	6.403	1.16%
Ni 231.604†	3430.0	77.918 ug/L	0.6378	77.918 ppb	0.6378	0.82%
P 214.914†	1239.7	576.38 ug/L	1.778	576.38 ppb	1.778	0.31%
Pb 220.353†	558.9	61.888 ug/L	2.3523	61.888 ppb	2.3523	3.80%
S 181.975 Axial†	440.3	526.40 ug/L	10.405	526.40 ppb	10.405	1.98%
Sb 206.836†	47.4	1.1026 ug/L	3.38211	1.1026 ppb	3.38211	306.73%
Se 196.026†	-358.0	27.026 ug/L	7.4813	27.026 ppb	7.4813	27.68%
Si 251.611†	556473.2	16557 ug/L	46.0	16557 ppb	46.0	0.28%
Sn 189.927†	-105.8	-13.414 ug/L	0.3688	-13.414 ppb	0.3688	2.75%
Sr 421.552†	17663.1	119.20 ug/L	1.324	119.20 ppb	1.324	1.11%
Ti 334.940†	2363803.9	3631.0 ug/L	6.15	3631.0 ppb	6.15	0.17%
Tl 190.801†	-120.4	3.0551 ug/L	1.48018	3.0551 ppb	1.48018	48.45%
U 409.014†	-4273.9	-147.23 ug/L	1.327	-147.23 ppb	1.327	0.90%
V 292.402†	19823.9	123.14 ug/L	1.025	123.14 ppb	1.025	0.83%
Zn 213.857†	23836.7	196.41 ug/L	1.832	196.41 ppb	1.832	0.93%
SiO2†	559152.2	35687 ug/L	400.9	35687 ppb	400.9	1.12%

Sequence No.: 78

Sample ID: 245113003|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 83

Date Collected: 2/4/2010 00:51:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113003|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3789.7	3789.7	95.7 %		00:53:51
1	Y RADIAL	4567.9	4567.9	100.6 %		00:53:30
1	Al 396.153Radial†	41654.2	43721.8	39278 ug/L	39278 ppb	00:53:30
1	Ca 317.933Radial†	5139.6	5354.3	10616 ug/L	10616 ppb	00:53:30
1	Fe 238.204 Radial†	8094.5	8446.4	100600 ug/L	100600 ppb	00:53:30
1	K 766.490 Radial†	38132.1	36814.8	6413.8 ug/L	6413.8 ppb	00:53:30
1	Mg 279.077 IEC†	185.9	190.9	8202.9 ug/L	8202.9 ppb	00:53:51
1	Na 589.592 Radial†	12.7	1598.5	458.33 ug/L	458.33 ppb	00:53:30
1	Sr 421.552†	11423.5	11936.4	80.557 ug/L	80.557 ppb	00:53:30
1	Sc 361.383	871911.0	871911.0	100.83 %		00:54:48
1	Y 371.029	746304.7	746304.7	109.41 %		00:54:48
1	Ag 328.068†	-6181.1	-6565.6	4.7639 ug/L	4.7639 ppb	00:54:53
1	As 188.979†	-70.5	-34.5	45.395 ug/L	45.395 ppb	00:55:13
1	B 249.677†	251.6	856.4	1.7721 ug/L	1.7721 ppb	00:54:53
1	Ba 233.527†	63747.6	63242.9	479.90 ug/L	479.90 ppb	00:54:53
1	Be 313.107†	-17483.7	-13396.2	4.6036 ug/L	4.6036 ppb	00:54:53
1	Cd 226.502†	729.6	923.3	-0.7651 ug/L	-0.7651 ppb	00:55:13
1	Co 228.616†	1566.0	1639.6	20.778 ug/L	20.778 ppb	00:55:13
1	Cr 267.716†	5074.9	4944.2	54.982 ug/L	54.982 ppb	00:54:53
1	Cu 324.752†	30116.7	23021.5	71.489 ug/L	71.489 ppb	00:54:53
1	Mn 257.610†	2382288.4	2362261.0	2428.0 ug/L	2428.0 ppb	00:54:48
1	Mo 202.031†	34.4	31.3	10.065 ug/L	10.065 ppb	00:55:13
1	Ni 231.604†	1866.2	1767.7	40.146 ug/L	40.146 ppb	00:55:13
1	P 214.914†	2405.7	2151.5	1009.3 ug/L	1009.3 ppb	00:55:13
1	Pb 220.353†	927.2	990.8	107.34 ug/L	107.34 ppb	00:55:13
1	S 181.975 Axial†	431.7	376.2	447.91 ug/L	447.91 ppb	00:55:13
1	Sb 206.836†	78.6	42.4	-2.1303 ug/L	-2.1303 ppb	00:55:13
1	Se 196.026†	-560.1	-526.0	24.912 ug/L	24.912 ppb	00:55:13
1	Si 251.611†	711304.0	704981.7	20976 ug/L	20976 ppb	00:54:48
1	Sn 189.927†	-46.6	-63.8	-7.0578 ug/L	-7.0578 ppb	00:55:13
1	Ti 334.940†	2651200.5	2631155.1	4040.5 ug/L	4040.5 ppb	00:54:48
1	Tl 190.801†	-200.8	-156.0	0.0878 ug/L	0.0878 ppb	00:55:13
1	U 409.014†	-9227.4	-4827.0	-168.24 ug/L	-168.24 ppb	00:54:48
1	V 292.402†	20576.2	22115.3	134.46 ug/L	134.46 ppb	00:54:53
1	Zn 213.857†	46162.6	45039.0	375.16 ug/L	375.16 ppb	00:54:53
1	SiO2†	713222.5	706841.6	45114 ug/L	45114 ppb	00:56:22
2	Sc Radial	3787.0	3787.0	95.6 %		00:54:16
2	Y RADIAL	4564.0	4564.0	100.6 %		00:53:56
2	Al 396.153Radial†	41662.5	43761.5	39313 ug/L	39313 ppb	00:53:56
2	Ca 317.933Radial†	5134.8	5353.1	10613 ug/L	10613 ppb	00:53:56
2	Fe 238.204 Radial†	8080.2	8437.5	100490 ug/L	100490 ppb	00:53:56
2	K 766.490 Radial†	38022.5	36728.7	6398.8 ug/L	6398.8 ppb	00:53:56
2	Mg 279.077 IEC†	183.9	189.0	8119.1 ug/L	8119.1 ppb	00:54:16
2	Na 589.592 Radial†	-25.1	1558.9	447.00 ug/L	447.00 ppb	00:53:56
2	Sr 421.552†	11383.4	11903.0	80.331 ug/L	80.331 ppb	00:53:56
2	Sc 361.383	876134.1	876134.1	101.32 %		00:55:19
2	Y 371.029	749798.3	749798.3	109.93 %		00:55:19
2	Ag 328.068†	-6255.5	-6609.4	4.5298 ug/L	4.5298 ppb	00:55:24
2	As 188.979†	-75.4	-39.0	43.674 ug/L	43.674 ppb	00:55:44
2	B 249.677†	294.8	897.8	2.6701 ug/L	2.6701 ppb	00:55:24
2	Ba 233.527†	64097.2	63283.2	480.20 ug/L	480.20 ppb	00:55:24
2	Be 313.107†	-17469.1	-13298.2	4.6423 ug/L	4.6423 ppb	00:55:24
2	Cd 226.502†	745.5	935.5	-0.6273 ug/L	-0.6273 ppb	00:55:44
2	Co 228.616†	1572.5	1638.4	20.754 ug/L	20.754 ppb	00:55:44
2	Cr 267.716†	5129.9	4974.3	55.301 ug/L	55.301 ppb	00:55:24
2	Cu 324.752†	30194.6	22954.4	71.292 ug/L	71.292 ppb	00:55:24
2	Mn 257.610†	2396343.6	2364744.9	2430.6 ug/L	2430.6 ppb	00:55:19
2	Mo 202.031†	35.3	32.1	10.112 ug/L	10.112 ppb	00:55:44
2	Ni 231.604†	1858.9	1751.6	39.780 ug/L	39.780 ppb	00:55:44

2	P 214.914†	2434.6	2168.6	1018.1 ug/L	1018.1 ppb	00:55:44
2	Pb 220.353†	940.2	999.1	108.27 ug/L	108.27 ppb	00:55:44
2	S 181.975 Axial†	419.0	361.7	430.26 ug/L	430.26 ppb	00:55:44
2	Sb 206.836†	74.3	37.8	-3.5337 ug/L	-3.5337 ppb	00:55:44
2	Se 196.026†	-555.9	-519.2	28.294 ug/L	28.294 ppb	00:55:44
2	Si 251.611†	715726.4	705946.2	21004 ug/L	21004 ppb	00:55:19
2	Sn 189.927†	-38.2	-55.3	-5.6782 ug/L	-5.6782 ppb	00:55:44
2	Ti 334.940†	2665578.4	2632671.8	4042.9 ug/L	4042.9 ppb	00:55:19
2	Tl 190.801†	-192.4	-146.7	2.7785 ug/L	2.7785 ppb	00:55:44
2	U 409.014†	-9334.0	-4888.1	-170.21 ug/L	-170.21 ppb	00:55:19
2	V 292.402†	20651.8	22091.6	134.30 ug/L	134.30 ppb	00:55:24
2	Zn 213.857†	46403.0	45055.5	375.32 ug/L	375.32 ppb	00:55:24
2	SiO2†	716618.7	706784.0	45110 ug/L	45110 ppb	00:56:28
3	Sc Radial	3769.4	3769.4	95.2 %		00:54:41
3	Y RADIAL	4651.3	4651.3	102.5 %		00:54:21
3	Al 396.153Radial†	42218.7	44548.7	40020 ug/L	40020 ppb	00:54:21
3	Ca 317.933Radial†	5221.0	5468.7	10842 ug/L	10842 ppb	00:54:21
3	Fe 238.204 Radial†	8180.0	8581.7	102210 ug/L	102210 ppb	00:54:21
3	K 766.490 Radial†	38791.2	37721.4	6571.8 ug/L	6571.8 ppb	00:54:21
3	Mg 279.077 IEC†	181.6	187.5	8052.1 ug/L	8052.1 ppb	00:54:41
3	Na 589.592 Radial†	59.2	1647.3	472.35 ug/L	472.35 ppb	00:54:21
3	Sr 421.552†	11577.8	12162.6	82.083 ug/L	82.083 ppb	00:54:21
3	Sc 361.383	870995.0	870995.0	100.72 %		00:55:50
3	Y 371.029	744977.0	744977.0	109.22 %		00:55:50
3	Ag 328.068†	-6277.8	-6668.0	4.8546 ug/L	4.8546 ppb	00:55:55
3	As 188.979†	-71.8	-35.8	45.285 ug/L	45.285 ppb	00:56:16
3	B 249.677†	326.3	930.8	3.0919 ug/L	3.0919 ppb	00:55:55
3	Ba 233.527†	64619.2	64174.8	486.98 ug/L	486.98 ppb	00:55:55
3	Be 313.107†	-17529.8	-13460.3	4.5816 ug/L	4.5816 ppb	00:55:55
3	Cd 226.502†	753.9	948.2	-0.6723 ug/L	-0.6723 ppb	00:56:16
3	Co 228.616†	1556.4	1631.6	20.609 ug/L	20.609 ppb	00:56:16
3	Cr 267.716†	5188.9	5062.7	56.283 ug/L	56.283 ppb	00:55:55
3	Cu 324.752†	30562.7	23495.7	72.937 ug/L	72.937 ppb	00:55:55
3	Mn 257.610†	2380952.0	2363419.0	2429.4 ug/L	2429.4 ppb	00:55:50
3	Mo 202.031†	31.7	28.7	10.016 ug/L	10.016 ppb	00:56:16
3	Ni 231.604†	1845.9	1749.5	39.733 ug/L	39.733 ppb	00:56:16
3	P 214.914†	2399.5	2147.8	1006.1 ug/L	1006.1 ppb	00:56:16
3	Pb 220.353†	930.1	994.7	107.77 ug/L	107.77 ppb	00:56:16
3	S 181.975 Axial†	416.5	361.6	430.07 ug/L	430.07 ppb	00:56:16
3	Sb 206.836†	84.3	48.2	-0.3438 ug/L	-0.3438 ppb	00:56:16
3	Se 196.026†	-553.2	-519.8	33.261 ug/L	33.261 ppb	00:56:16
3	Si 251.611†	711877.3	706292.8	21015 ug/L	21015 ppb	00:55:50
3	Sn 189.927†	-32.9	-50.4	-4.8084 ug/L	-4.8084 ppb	00:56:16
3	Ti 334.940†	2648351.2	2631091.4	4040.5 ug/L	4040.5 ppb	00:55:50
3	Tl 190.801†	-193.2	-148.6	2.1843 ug/L	2.1843 ppb	00:56:16
3	U 409.014†	-9302.6	-4911.3	-171.16 ug/L	-171.16 ppb	00:55:50
3	V 292.402†	21007.8	22565.3	137.33 ug/L	137.33 ppb	00:55:55
3	Zn 213.857†	46783.7	45703.8	380.69 ug/L	380.69 ppb	00:55:55
3	SiO2†	708570.7	702967.0	44866 ug/L	44866 ppb	00:56:34

Mean Data: 245113003|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	873013.4	100.95 %		0.317			0.31%
Sc Radial	3782.0	95.5 %		0.28			0.29%
Y 371.029	747026.7	109.52 %		0.365			0.33%
Y RADIAL	4594.4	101.2 %		1.09			1.07%
Ag 328.068†	-6614.3	4.7161 ug/L		0.16755	4.7161 ppb	0.16755	3.55%
Al 396.153Radial†	44010.7	39537 ug/L		419.0	39537 ppb	419.0	1.06%
As 188.979†	-36.4	44.785 ug/L		0.9635	44.785 ppb	0.9635	2.15%
B 249.677†	895.0	2.5114 ug/L		0.67405	2.5114 ppb	0.67405	26.84%
Ba 233.527†	63566.9	482.36 ug/L		4.002	482.36 ppb	4.002	0.83%
Be 313.107†	-13384.9	4.6092 ug/L		0.03075	4.6092 ppb	0.03075	0.67%
Ca 317.933Radial†	5392.0	10690 ug/L		131.6	10690 ppb	131.6	1.23%
Cd 226.502†	935.6	-0.6882 ug/L		0.07026	-0.6882 ppb	0.07026	10.21%
Co 228.616†	1636.5	20.714 ug/L		0.0911	20.714 ppb	0.0911	0.44%
Cr 267.716†	4993.7	55.522 ug/L		0.6780	55.522 ppb	0.6780	1.22%
Cu 324.752†	23157.2	71.906 ug/L		0.8983	71.906 ppb	0.8983	1.25%
Fe 238.204 Radial†	8488.5	101100 ug/L		962.2	101100 ppb	962.2	0.95%
K 766.490 Radial†	37088.3	6461.5 ug/L		95.83	6461.5 ppb	95.83	1.48%

Mg 279.077 IEC†	189.1	8124.7 ug/L	75.59	8124.7 ppb	75.59	0.93%
Mn 257.610†	2363475.0	2429.3 ug/L	1.27	2429.3 ppb	1.27	0.05%
Mo 202.031†	30.7	10.065 ug/L	0.0481	10.065 ppb	0.0481	0.48%
Na 589.592 Radial†	1601.6	459.23 ug/L	12.700	459.23 ppb	12.700	2.77%
Ni 231.604†	1756.3	39.886 ug/L	0.2261	39.886 ppb	0.2261	0.57%
P 214.914†	2156.0	1011.2 ug/L	6.23	1011.2 ppb	6.23	0.62%
Pb 220.353†	994.9	107.79 ug/L	0.465	107.79 ppb	0.465	0.43%
S 181.975 Axial†	366.5	436.08 ug/L	10.249	436.08 ppb	10.249	2.35%
Sb 206.836†	42.8	-2.0026 ug/L	1.59877	-2.0026 ppb	1.59877	79.84%
Se 196.026†	-521.7	28.822 ug/L	4.1994	28.822 ppb	4.1994	14.57%
Si 251.611†	705740.2	20998 ug/L	20.2	20998 ppb	20.2	0.10%
Sn 189.927†	-56.5	-5.8481 ug/L	1.13425	-5.8481 ppb	1.13425	19.40%
Sr 421.552†	12000.7	80.991 ug/L	0.9531	80.991 ppb	0.9531	1.18%
Ti 334.940†	2631639.5	4041.3 ug/L	1.36	4041.3 ppb	1.36	0.03%
Tl 190.801†	-150.4	1.6835 ug/L	1.41352	1.6835 ppb	1.41352	83.96%
U 409.014†	-4875.4	-169.87 ug/L	1.491	-169.87 ppb	1.491	0.88%
V 292.402†	22257.4	135.36 ug/L	1.709	135.36 ppb	1.709	1.26%
Zn 213.857†	45266.1	377.06 ug/L	3.150	377.06 ppb	3.150	0.84%
SiO2†	705530.9	45030 ug/L	141.7	45030 ppb	141.7	0.31%

Sequence No.: 79

Sample ID: 245113004|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 84

Date Collected: 2/4/2010 00:58:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113004|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3784.7	3784.7	95.6 %		01:00:58
1	Y RADIAL	4508.8	4508.8	99.35 %		01:00:38
1	Al 396.153Radial†	31176.9	32816.3	29481 ug/L	29481 ppb	01:00:38
1	Ca 317.933Radial†	4495.7	4687.6	9293.8 ug/L	9293.8 ppb	01:00:38
1	Fe 238.204 Radial†	6976.5	7287.7	86799 ug/L	86799 ppb	01:00:38
1	K 766.490 Radial†	28340.4	26622.0	4637.5 ug/L	4637.5 ppb	01:00:38
1	Mg 279.077 IEC†	145.6	149.0	6395.4 ug/L	6395.4 ppb	01:00:58
1	Na 589.592 Radial†	22.4	1608.6	461.23 ug/L	461.23 ppb	01:00:38
1	Sr 421.552†	8867.8	9278.0	62.608 ug/L	62.608 ppb	01:00:38
1	Sc 361.383	864657.6	864657.6	99.988 %		01:01:55
1	Y 371.029	721209.4	721209.4	105.73 %		01:01:55
1	Ag 328.068†	-5193.2	-5629.0	4.2913 ug/L	4.2913 ppb	01:02:00
1	As 188.979†	-86.5	-51.1	33.362 ug/L	33.362 ppb	01:02:20
1	B 249.677†	91.1	697.9	0.6587 ug/L	0.6587 ppb	01:02:00
1	Ba 233.527†	45684.7	45708.2	347.34 ug/L	347.34 ppb	01:02:00
1	Be 313.107†	-18641.6	-14699.7	3.5068 ug/L	3.5068 ppb	01:02:00
1	Cd 226.502†	592.1	791.8	-0.7068 ug/L	-0.7068 ppb	01:02:20
1	Co 228.616†	1313.0	1399.5	17.059 ug/L	17.059 ppb	01:02:20
1	Cr 267.716†	3449.3	3360.7	37.786 ug/L	37.786 ppb	01:02:20
1	Cu 324.752†	26783.7	19938.6	61.885 ug/L	61.885 ppb	01:02:00
1	Mn 257.610†	1700371.3	1700082.8	1748.8 ug/L	1748.8 ppb	01:01:55
1	Mo 202.031†	25.5	22.7	8.3933 ug/L	8.3933 ppb	01:02:20
1	Ni 231.604†	1518.1	1435.1	32.592 ug/L	32.592 ppb	01:02:20
1	P 214.914†	2994.7	2760.6	1329.4 ug/L	1329.4 ppb	01:02:20
1	Pb 220.353†	662.8	734.1	78.457 ug/L	78.457 ppb	01:02:20
1	S 181.975 Axial†	346.3	294.5	350.78 ug/L	350.78 ppb	01:02:20
1	Sb 206.836†	77.1	41.6	-1.0359 ug/L	-1.0359 ppb	01:02:20
1	Se 196.026†	-463.2	-433.8	32.455 ug/L	32.455 ppb	01:02:20
1	Si 251.611†	619752.9	619337.7	18427 ug/L	18427 ppb	01:01:55
1	Sn 189.927†	-40.2	-57.8	-6.5181 ug/L	-6.5181 ppb	01:02:20
1	Ti 334.940†	2442005.4	2443992.9	3753.1 ug/L	3753.1 ppb	01:01:55
1	Tl 190.801†	-167.8	-124.6	3.4630 ug/L	3.4630 ppb	01:02:20
1	U 409.014†	-7764.4	-3440.5	-121.63 ug/L	-121.63 ppb	01:02:00
1	V 292.402†	18761.0	20471.1	125.41 ug/L	125.41 ppb	01:02:00
1	Zn 213.857†	38082.7	37342.2	310.72 ug/L	310.72 ppb	01:02:00
1	SiO2†	609804.6	609345.4	38891 ug/L	38891 ppb	01:03:29
2	Sc Radial	3800.0	3800.0	96.0 %		01:01:23
2	Y RADIAL	4569.9	4569.9	100.7 %		01:01:03
2	Al 396.153Radial†	31472.7	32993.6	29640 ug/L	29640 ppb	01:01:03
2	Ca 317.933Radial†	4566.5	4742.5	9402.6 ug/L	9402.6 ppb	01:01:03
2	Fe 238.204 Radial†	7036.7	7321.1	87197 ug/L	87197 ppb	01:01:03
2	K 766.490 Radial†	28555.3	26726.9	4655.7 ug/L	4655.7 ppb	01:01:03
2	Mg 279.077 IEC†	145.8	148.7	6378.5 ug/L	6378.5 ppb	01:01:23
2	Na 589.592 Radial†	-83.3	1498.3	429.60 ug/L	429.60 ppb	01:01:03
2	Sr 421.552†	8967.5	9344.6	63.057 ug/L	63.057 ppb	01:01:03
2	Sc 361.383	860407.6	860407.6	99.497 %		01:02:26
2	Y 371.029	716195.4	716195.4	105.00 %		01:02:26
2	Ag 328.068†	-5182.2	-5643.5	4.3450 ug/L	4.3450 ppb	01:02:32
2	As 188.979†	-87.4	-52.4	32.973 ug/L	32.973 ppb	01:02:52
2	B 249.677†	18.7	625.6	-0.9429 ug/L	-0.9429 ppb	01:02:32
2	Ba 233.527†	44574.5	44818.1	340.64 ug/L	340.64 ppb	01:02:32
2	Be 313.107†	-18171.9	-14319.8	3.6436 ug/L	3.6436 ppb	01:02:32
2	Cd 226.502†	568.0	770.5	-0.9699 ug/L	-0.9699 ppb	01:02:52
2	Co 228.616†	1323.4	1416.5	17.358 ug/L	17.358 ppb	01:02:52
2	Cr 267.716†	3441.0	3369.4	37.881 ug/L	37.881 ppb	01:02:52
2	Cu 324.752†	26167.9	19452.1	60.509 ug/L	60.509 ppb	01:02:32
2	Mn 257.610†	1695339.9	1703426.0	1752.3 ug/L	1752.3 ppb	01:02:26
2	Mo 202.031†	21.4	18.7	8.1549 ug/L	8.1549 ppb	01:02:52
2	Ni 231.604†	1536.9	1461.4	33.190 ug/L	33.190 ppb	01:02:52

2	P 214.914†	3001.6	2782.3	1340.4 ug/L	1340.4 ppb	01:02:52
2	Pb 220.353†	654.4	728.8	77.884 ug/L	77.884 ppb	01:02:52
2	S 181.975 Axial†	324.8	274.5	326.63 ug/L	326.63 ppb	01:02:52
2	Sb 206.836†	86.2	51.1	1.8489 ug/L	1.8489 ppb	01:02:52
2	Se 196.026†	-463.9	-436.7	32.062 ug/L	32.062 ppb	01:02:52
2	Si 251.611†	616510.2	619140.2	18421 ug/L	18421 ppb	01:02:26
2	Sn 189.927†	-37.1	-54.9	-6.0243 ug/L	-6.0243 ppb	01:02:52
2	Ti 334.940†	2432066.7	2446067.7	3756.3 ug/L	3756.3 ppb	01:02:26
2	Tl 190.801†	-163.1	-120.7	4.6206 ug/L	4.6206 ppb	01:02:52
2	U 409.014†	-7713.1	-3427.4	-121.25 ug/L	-121.25 ppb	01:02:32
2	V 292.402†	18214.7	20014.7	122.17 ug/L	122.17 ppb	01:02:32
2	Zn 213.857†	37096.4	36539.1	303.81 ug/L	303.81 ppb	01:02:32
2	SiO2†	617050.0	619639.9	39548 ug/L	39548 ppb	01:03:34
3	Sc Radial	3803.5	3803.5	96.0 %		01:01:48
3	Y RADIAL	4586.4	4586.4	101.1 %		01:01:28
3	Al 396.153Radial†	31458.0	32947.7	29599 ug/L	29599 ppb	01:01:28
3	Ca 317.933Radial†	4517.0	4686.5	9291.6 ug/L	9291.6 ppb	01:01:28
3	Fe 238.204 Radial†	7034.0	7311.5	87083 ug/L	87083 ppb	01:01:28
3	K 766.490 Radial†	28698.4	26848.1	4676.9 ug/L	4676.9 ppb	01:01:28
3	Mg 279.077 IEC†	142.3	144.9	6214.1 ug/L	6214.1 ppb	01:01:48
3	Na 589.592 Radial†	-57.3	1525.5	437.40 ug/L	437.40 ppb	01:01:28
3	Sr 421.552†	8926.5	9293.2	62.711 ug/L	62.711 ppb	01:01:28
3	Sc 361.383	874379.7	874379.7	101.11 %		01:02:57
3	Y 371.029	727406.7	727406.7	106.64 %		01:02:57
3	Ag 328.068†	-5127.4	-5506.2	4.9322 ug/L	4.9322 ppb	01:03:03
3	As 188.979†	-93.2	-56.8	31.257 ug/L	31.257 ppb	01:03:23
3	B 249.677†	61.1	667.2	-0.0392 ug/L	-0.0392 ppb	01:03:03
3	Ba 233.527†	45405.2	44923.7	341.44 ug/L	341.44 ppb	01:03:03
3	Be 313.107†	-18705.5	-14555.6	3.5572 ug/L	3.5572 ppb	01:03:03
3	Cd 226.502†	578.9	772.2	-0.9402 ug/L	-0.9402 ppb	01:03:23
3	Co 228.616†	1316.7	1388.6	16.849 ug/L	16.849 ppb	01:03:23
3	Cr 267.716†	3411.9	3285.3	36.982 ug/L	36.982 ppb	01:03:23
3	Cu 324.752†	26723.1	19580.9	60.872 ug/L	60.872 ppb	01:03:03
3	Mn 257.610†	1717881.9	1698492.4	1747.2 ug/L	1747.2 ppb	01:02:57
3	Mo 202.031†	27.8	24.6	8.5486 ug/L	8.5486 ppb	01:03:23
3	Ni 231.604†	1552.8	1452.5	32.988 ug/L	32.988 ppb	01:03:23
3	P 214.914†	2980.6	2713.3	1305.4 ug/L	1305.4 ppb	01:03:23
3	Pb 220.353†	654.7	718.7	76.775 ug/L	76.775 ppb	01:03:23
3	S 181.975 Axial†	340.2	284.6	338.79 ug/L	338.79 ppb	01:03:23
3	Sb 206.836†	76.0	39.6	-1.6770 ug/L	-1.6770 ppb	01:03:23
3	Se 196.026†	-458.8	-424.2	38.490 ug/L	38.490 ppb	01:03:23
3	Si 251.611†	625587.5	618216.4	18394 ug/L	18394 ppb	01:02:57
3	Sn 189.927†	-45.2	-62.4	-7.2493 ug/L	-7.2493 ppb	01:03:23
3	Ti 334.940†	2469824.8	2444350.7	3753.7 ug/L	3753.7 ppb	01:02:57
3	Tl 190.801†	-165.5	-120.4	4.6579 ug/L	4.6579 ppb	01:03:23
3	U 409.014†	-7786.0	-3375.6	-119.56 ug/L	-119.56 ppb	01:03:03
3	V 292.402†	18591.8	20095.1	122.76 ug/L	122.76 ppb	01:03:03
3	Zn 213.857†	38021.2	36857.9	306.55 ug/L	306.55 ppb	01:03:03
3	SiO2†	615791.6	608485.3	38836 ug/L	38836 ppb	01:03:39

Mean Data: 245113004|944124|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Units			Conc. Units		
Sc 361.383	866481.6	100.20 %		0.828			0.83%
Sc Radial	3796.1	95.9 %		0.25			0.26%
Y 371.029	721603.8	105.79 %		0.823			0.78%
Y RADIAL	4555.0	100.4 %		0.90			0.90%
Ag 328.068†	-5592.9	4.5228 ug/L		0.35556	4.5228 ppb	0.35556	7.86%
Al 396.153Radial†	32919.2	29573 ug/L		82.7	29573 ppb	82.7	0.28%
As 188.979†	-53.4	32.530 ug/L		1.1200	32.530 ppb	1.1200	3.44%
B 249.677†	663.6	-0.1078 ug/L		0.80301	-0.1078 ppb	0.80301	744.71%
Ba 233.527†	45150.0	343.14 ug/L		3.661	343.14 ppb	3.661	1.07%
Be 313.107†	-14525.0	3.5692 ug/L		0.06917	3.5692 ppb	0.06917	1.94%
Ca 317.933Radial†	4705.5	9329.4 ug/L		63.48	9329.4 ppb	63.48	0.68%
Cd 226.502†	778.2	-0.8723 ug/L		0.14408	-0.8723 ppb	0.14408	16.52%
Co 228.616†	1401.6	17.089 ug/L		0.2557	17.089 ppb	0.2557	1.50%
Cr 267.716†	3338.5	37.550 ug/L		0.4938	37.550 ppb	0.4938	1.32%
Cu 324.752†	19657.2	61.089 ug/L		0.7130	61.089 ppb	0.7130	1.17%
Fe 238.204 Radial†	7306.8	87026 ug/L		205.0	87026 ppb	205.0	0.24%
K 766.490 Radial†	26732.3	4656.7 ug/L		19.74	4656.7 ppb	19.74	0.42%

Mg 279.077 IEC†	147.5	6329.3 ug/L	100.14	6329.3 ppb	100.14	1.58%
Mn 257.610†	1700667.1	1749.4 ug/L	2.58	1749.4 ppb	2.58	0.15%
Mo 202.031†	22.0	8.3656 ug/L	0.19834	8.3656 ppb	0.19834	2.37%
Na 589.592 Radial†	1544.1	442.75 ug/L	16.478	442.75 ppb	16.478	3.72%
Ni 231.604†	1449.7	32.923 ug/L	0.3044	32.923 ppb	0.3044	0.92%
P 214.914†	2752.1	1325.1 ug/L	17.93	1325.1 ppb	17.93	1.35%
Pb 220.353†	727.2	77.705 ug/L	0.8551	77.705 ppb	0.8551	1.10%
S 181.975 Axial†	284.5	338.73 ug/L	12.077	338.73 ppb	12.077	3.57%
Sb 206.836†	44.1	-0.2880 ug/L	1.87817	-0.2880 ppb	1.87817	652.18%
Se 196.026†	-431.6	34.336 ug/L	3.6029	34.336 ppb	3.6029	10.49%
Si 251.611†	618898.1	18414 ug/L	17.8	18414 ppb	17.8	0.10%
Sn 189.927†	-58.4	-6.5972 ug/L	0.61632	-6.5972 ppb	0.61632	9.34%
Sr 421.552†	9305.3	62.792 ug/L	0.2352	62.792 ppb	0.2352	0.37%
Ti 334.940†	2444803.8	3754.4 ug/L	1.71	3754.4 ppb	1.71	0.05%
Tl 190.801†	-121.9	4.2472 ug/L	0.67931	4.2472 ppb	0.67931	15.99%
U 409.014†	-3414.5	-120.81 ug/L	1.106	-120.81 ppb	1.106	0.92%
V 292.402†	20193.6	123.45 ug/L	1.723	123.45 ppb	1.723	1.40%
Zn 213.857†	36913.0	307.03 ug/L	3.480	307.03 ppb	3.480	1.13%
SiO2†	612490.2	39092 ug/L	396.1	39092 ppb	396.1	1.01%

Sequence No.: 80

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/4/2010 01:05:51

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3692.4	3692.4	93.2 %		01:08:03
1	Y RADIAL	4065.4	4065.4	89.58 %		01:07:42
1	Al 396.153Radial†	5186.0	5757.7	5148.5 ug/L	5148.5 ppb	01:07:42
1	Ca 317.933Radial†	2501.4	2666.4	5286.4 ug/L	5286.4 ppb	01:08:03
1	Fe 238.204 Radial†	420.7	439.3	5247.1 ug/L	5247.1 ppb	01:08:03
1	K 766.490 Radial†	29585.7	28699.2	4997.5 ug/L	4997.5 ppb	01:07:42
1	Mg 279.077 IEC†	118.3	123.5	5375.4 ug/L	5375.4 ppb	01:08:03
1	Na 589.592 Radial†	28107.3	31729.5	9097.9 ug/L	9097.9 ppb	01:07:42
1	Sr 421.552†	65991.1	70773.4	478.07 ug/L	478.07 ppb	01:07:42
1	Sc 361.383	852025.4	852025.4	98.527 %		01:09:01
1	Y 371.029	662595.7	662595.7	97.142 %		01:09:01
1	Ag 328.068†	107493.6	108665.2	496.52 ug/L	496.52 ppb	01:09:01
1	As 188.979†	1226.3	1280.1	492.60 ug/L	492.60 ppb	01:09:21
1	B 249.677†	21819.7	22752.7	481.21 ug/L	481.21 ppb	01:09:01
1	Ba 233.527†	64383.1	65363.5	493.72 ug/L	493.72 ppb	01:09:01
1	Be 313.107†	1425382.5	1450632.9	495.76 ug/L	495.76 ppb	01:09:01
1	Cd 226.502†	44808.2	45677.6	476.35 ug/L	476.35 ppb	01:09:21
1	Co 228.616†	25498.3	25965.8	482.80 ug/L	482.80 ppb	01:09:21
1	Cr 267.716†	45797.1	46392.7	495.55 ug/L	495.55 ppb	01:09:01
1	Cu 324.752†	175246.4	171017.6	490.88 ug/L	490.88 ppb	01:09:01
1	Mn 257.610†	473942.0	480534.0	492.26 ug/L	492.26 ppb	01:09:01
1	Mo 202.031†	7137.6	7241.5	493.85 ug/L	493.85 ppb	01:09:21
1	Ni 231.604†	21126.4	21359.0	485.01 ug/L	485.01 ppb	01:09:21
1	P 214.914†	4905.0	4743.8	2315.8 ug/L	2315.8 ppb	01:09:21
1	Pb 220.353†	4350.3	4486.5	492.47 ug/L	492.47 ppb	01:09:21
1	S 181.975 Axial†	836.8	797.4	963.95 ug/L	963.95 ppb	01:09:21
1	Sb 206.836†	1591.8	1580.1	504.06 ug/L	504.06 ppb	01:09:21
1	Se 196.026†	852.1	894.3	502.16 ug/L	502.16 ppb	01:09:21
1	Si 251.611†	82814.8	83563.1	2480.2 ug/L	2480.2 ppb	01:09:01
1	Sn 189.927†	2978.8	3005.7	488.91 ug/L	488.91 ppb	01:09:21
1	Ti 334.940†	320507.1	326992.6	501.93 ug/L	501.93 ppb	01:09:01
1	Tl 190.801†	1651.0	1718.9	494.69 ug/L	494.69 ppb	01:09:21
1	U 409.014†	10152.3	14628.8	473.05 ug/L	473.05 ppb	01:09:01
1	V 292.402†	68065.6	70790.8	497.91 ug/L	497.91 ppb	01:09:01
1	Zn 213.857†	57393.9	57506.7	487.65 ug/L	487.65 ppb	01:09:01
1	SiO2†	81854.9	82546.0	5255.0 ug/L	5255.0 ppb	01:10:22
2	Sc Radial	3692.1	3692.1	93.2 %		01:08:28
2	Y RADIAL	4105.3	4105.3	90.46 %		01:08:08
2	Al 396.153Radial†	5228.8	5803.9	5189.8 ug/L	5189.8 ppb	01:08:08
2	Ca 317.933Radial†	2498.2	2663.1	5280.0 ug/L	5280.0 ppb	01:08:28
2	Fe 238.204 Radial†	417.6	436.1	5208.5 ug/L	5208.5 ppb	01:08:28
2	K 766.490 Radial†	29854.8	28990.0	5048.1 ug/L	5048.1 ppb	01:08:08
2	Mg 279.077 IEC†	115.1	120.1	5226.4 ug/L	5226.4 ppb	01:08:28
2	Na 589.592 Radial†	28446.7	32095.6	9202.9 ug/L	9202.9 ppb	01:08:08
2	Sr 421.552†	66877.7	71729.0	484.53 ug/L	484.53 ppb	01:08:08
2	Sc 361.383	843519.6	843519.6	97.544 %		01:09:29
2	Y 371.029	655204.2	655204.2	96.058 %		01:09:29
2	Ag 328.068†	106358.1	108601.3	496.21 ug/L	496.21 ppb	01:09:29
2	As 188.979†	1229.3	1295.7	498.54 ug/L	498.54 ppb	01:09:49
2	B 249.677†	21559.7	22709.4	480.28 ug/L	480.28 ppb	01:09:29
2	Ba 233.527†	63784.1	65408.3	494.06 ug/L	494.06 ppb	01:09:29
2	Be 313.107†	1409652.5	1449094.8	495.23 ug/L	495.23 ppb	01:09:29
2	Cd 226.502†	44841.1	46170.0	481.49 ug/L	481.49 ppb	01:09:49
2	Co 228.616†	25519.4	26248.4	488.07 ug/L	488.07 ppb	01:09:49
2	Cr 267.716†	45284.4	46335.8	494.94 ug/L	494.94 ppb	01:09:29
2	Cu 324.752†	173282.6	170798.0	490.25 ug/L	490.25 ppb	01:09:29
2	Mn 257.610†	469444.6	480773.9	492.50 ug/L	492.50 ppb	01:09:29
2	Mo 202.031†	7150.5	7327.7	499.72 ug/L	499.72 ppb	01:09:49
2	Ni 231.604†	21111.6	21560.0	489.58 ug/L	489.58 ppb	01:09:49

2	P 214.914†	4925.0	4814.6	2352.0 ug/L	2352.0 ppb	01:09:49
2	Pb 220.353†	4347.8	4528.5	497.09 ug/L	497.09 ppb	01:09:49
2	S 181.975 Axial†	841.7	811.0	980.35 ug/L	980.35 ppb	01:09:49
2	Sb 206.836†	1587.0	1591.5	507.79 ug/L	507.79 ppb	01:09:49
2	Se 196.026†	856.2	907.3	509.10 ug/L	509.10 ppb	01:09:49
2	Si 251.611†	81962.6	83537.0	2479.4 ug/L	2479.4 ppb	01:09:29
2	Sn 189.927†	2986.5	3044.1	495.15 ug/L	495.15 ppb	01:09:49
2	Ti 334.940†	317388.9	327076.1	502.07 ug/L	502.07 ppb	01:09:29
2	Tl 190.801†	1626.3	1710.4	492.25 ug/L	492.25 ppb	01:09:49
2	U 409.014†	10136.5	14716.5	475.90 ug/L	475.90 ppb	01:09:29
2	V 292.402†	67389.7	70794.5	498.03 ug/L	498.03 ppb	01:09:29
2	Zn 213.857†	56871.5	57558.5	488.07 ug/L	488.07 ppb	01:09:29
2	SiO2†	82681.2	84230.9	5362.4 ug/L	5362.4 ppb	01:10:27
3	Sc Radial	3680.8	3680.8	92.9 %		01:08:53
3	Y RADIAL	4060.7	4060.7	89.47 %		01:08:33
3	Al 396.153Radial†	5141.5	5727.3	5121.1 ug/L	5121.1 ppb	01:08:33
3	Ca 317.933Radial†	2510.2	2684.3	5321.9 ug/L	5321.9 ppb	01:08:53
3	Fe 238.204 Radial†	416.4	436.2	5209.8 ug/L	5209.8 ppb	01:08:53
3	K 766.490 Radial†	29681.9	28902.5	5032.9 ug/L	5032.9 ppb	01:08:33
3	Mg 279.077 IEC†	119.0	124.7	5428.0 ug/L	5428.0 ppb	01:08:53
3	Na 589.592 Radial†	28024.5	31735.2	9099.6 ug/L	9099.6 ppb	01:08:33
3	Sr 421.552†	66001.5	71007.2	479.65 ug/L	479.65 ppb	01:08:33
3	Sc 361.383	845283.7	845283.7	97.748 %		01:09:56
3	Y 371.029	657513.7	657513.7	96.397 %		01:09:56
3	Ag 328.068†	106580.7	108601.5	496.21 ug/L	496.21 ppb	01:09:56
3	As 188.979†	1206.6	1269.9	488.68 ug/L	488.68 ppb	01:10:16
3	B 249.677†	21676.3	22782.6	481.85 ug/L	481.85 ppb	01:09:56
3	Ba 233.527†	63680.2	65165.6	492.23 ug/L	492.23 ppb	01:09:56
3	Be 313.107†	1413564.3	1450080.8	495.57 ug/L	495.57 ppb	01:09:56
3	Cd 226.502†	44528.4	45754.1	477.15 ug/L	477.15 ppb	01:10:16
3	Co 228.616†	25328.4	25998.5	483.42 ug/L	483.42 ppb	01:10:16
3	Cr 267.716†	45165.7	46117.4	492.61 ug/L	492.61 ppb	01:09:56
3	Cu 324.752†	174129.4	171293.5	491.67 ug/L	491.67 ppb	01:09:56
3	Mn 257.610†	469409.5	479733.5	491.43 ug/L	491.43 ppb	01:09:56
3	Mo 202.031†	7110.6	7271.7	495.90 ug/L	495.90 ppb	01:10:16
3	Ni 231.604†	21008.1	21409.0	486.15 ug/L	486.15 ppb	01:10:16
3	P 214.914†	4879.4	4757.4	2322.6 ug/L	2322.6 ppb	01:10:16
3	Pb 220.353†	4303.5	4473.8	491.09 ug/L	491.09 ppb	01:10:16
3	S 181.975 Axial†	829.9	797.1	963.57 ug/L	963.57 ppb	01:10:16
3	Sb 206.836†	1574.3	1575.1	502.55 ug/L	502.55 ppb	01:10:16
3	Se 196.026†	848.1	897.1	503.57 ug/L	503.57 ppb	01:10:16
3	Si 251.611†	82118.0	83520.7	2478.9 ug/L	2478.9 ppb	01:09:56
3	Sn 189.927†	2951.6	3002.0	488.31 ug/L	488.31 ppb	01:10:16
3	Ti 334.940†	317804.3	326822.0	501.67 ug/L	501.67 ppb	01:09:56
3	Tl 190.801†	1613.5	1693.9	487.55 ug/L	487.55 ppb	01:10:16
3	U 409.014†	10065.5	14622.2	472.85 ug/L	472.85 ppb	01:09:56
3	V 292.402†	67454.8	70717.0	497.44 ug/L	497.44 ppb	01:09:56
3	Zn 213.857†	56862.9	57428.1	486.98 ug/L	486.98 ppb	01:09:56
3	SiO2†	81960.2	83316.4	5304.1 ug/L	5304.1 ppb	01:10:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	846942.9	97.939 %	0.5191			0.53%
Sc Radial	3688.4	93.1 %	0.17			0.18%
Y 371.029	658437.9	96.532 %	0.5544			0.57%
Y RADIAL	4077.1	89.84 %	0.540			0.60%
Ag 328.068†	108622.7	496.31 ug/L	0.176	496.31 ppb	0.176	0.04%
QC value within limits for Ag 328.068 Recovery = 99.26%						
Al 396.153Radial†	5762.9	5153.1 ug/L	34.56	5153.1 ppb	34.56	0.67%
QC value within limits for Al 396.153Radial Recovery = 103.06%						
As 188.979†	1281.9	493.27 ug/L	4.964	493.27 ppb	4.964	1.01%
QC value within limits for As 188.979 Recovery = 98.65%						
B 249.677†	22748.2	481.11 ug/L	0.789	481.11 ppb	0.789	0.16%
QC value within limits for B 249.677 Recovery = 96.22%						
Ba 233.527†	65312.5	493.34 ug/L	0.974	493.34 ppb	0.974	0.20%
QC value within limits for Ba 233.527 Recovery = 98.67%						
Be 313.107†	1449936.1	495.52 ug/L	0.265	495.52 ppb	0.265	0.05%
QC value within limits for Be 313.107 Recovery = 99.10%						
Ca 317.933Radial†	2671.3	5296.1 ug/L	22.58	5296.1 ppb	22.58	0.43%

QC value within limits for Ca 317.933 Radial Recovery = 105.92%

Cd 226.502†	45867.2	478.33 ug/L	2.767	478.33 ppb	2.767	0.58%
QC value within limits for Cd 226.502 Recovery = 95.67%						
Co 228.616†	26070.9	484.76 ug/L	2.881	484.76 ppb	2.881	0.59%
QC value within limits for Co 228.616 Recovery = 96.95%						
Cr 267.716†	46281.9	494.37 ug/L	1.551	494.37 ppb	1.551	0.31%
QC value within limits for Cr 267.716 Recovery = 98.87%						
Cu 324.752†	171036.4	490.93 ug/L	0.713	490.93 ppb	0.713	0.15%
QC value within limits for Cu 324.752 Recovery = 98.19%						
Fe 238.204 Radial†	437.2	5221.8 ug/L	21.90	5221.8 ppb	21.90	0.42%
QC value within limits for Fe 238.204 Radial Recovery = 104.44%						
K 766.490 Radial†	28863.9	5026.2 ug/L	25.99	5026.2 ppb	25.99	0.52%
QC value within limits for K 766.490 Radial Recovery = 100.52%						
Mg 279.077 IEC†	122.8	5343.3 ug/L	104.59	5343.3 ppb	104.59	1.96%
QC value within limits for Mg 279.077 IEC Recovery = 106.87%						
Mn 257.610†	480347.1	492.06 ug/L	0.562	492.06 ppb	0.562	0.11%
QC value within limits for Mn 257.610 Recovery = 98.41%						
Mo 202.031†	7280.3	496.49 ug/L	2.979	496.49 ppb	2.979	0.60%
QC value within limits for Mo 202.031 Recovery = 99.30%						
Na 589.592 Radial†	31853.4	9133.5 ug/L	60.13	9133.5 ppb	60.13	0.66%
QC value within limits for Na 589.592 Radial Recovery = 91.33%						
Ni 231.604†	21442.7	486.92 ug/L	2.376	486.92 ppb	2.376	0.49%
QC value within limits for Ni 231.604 Recovery = 97.38%						
P 214.914†	4771.9	2330.1 ug/L	19.25	2330.1 ppb	19.25	0.83%
QC value within limits for P 214.914 Recovery = 93.20%						
Pb 220.353†	4496.3	493.55 ug/L	3.144	493.55 ppb	3.144	0.64%
QC value within limits for Pb 220.353 Recovery = 98.71%						
S 181.975 Axial†	801.8	969.29 ug/L	9.577	969.29 ppb	9.577	0.99%
QC value within limits for S 181.975 Axial Recovery = 96.93%						
Sb 206.836†	1582.2	504.80 ug/L	2.693	504.80 ppb	2.693	0.53%
QC value within limits for Sb 206.836 Recovery = 100.96%						
Se 196.026†	899.6	504.94 ug/L	3.666	504.94 ppb	3.666	0.73%
QC value within limits for Se 196.026 Recovery = 100.99%						
Si 251.611†	83540.3	2479.5 ug/L	0.66	2479.5 ppb	0.66	0.03%
QC value within limits for Si 251.611 Recovery = 99.18%						
Sn 189.927†	3017.2	490.79 ug/L	3.787	490.79 ppb	3.787	0.77%
QC value within limits for Sn 189.927 Recovery = 98.16%						
Sr 421.552†	71169.9	480.75 ug/L	3.365	480.75 ppb	3.365	0.70%
QC value within limits for Sr 421.552 Recovery = 96.15%						
Ti 334.940†	326963.6	501.89 ug/L	0.202	501.89 ppb	0.202	0.04%
QC value within limits for Ti 334.940 Recovery = 100.38%						
Tl 190.801†	1707.8	491.49 ug/L	3.630	491.49 ppb	3.630	0.74%
QC value within limits for Tl 190.801 Recovery = 98.30%						
U 409.014†	14655.9	473.93 ug/L	1.709	473.93 ppb	1.709	0.36%
QC value within limits for U 409.014 Recovery = 94.79%						
V 292.402†	70767.4	497.79 ug/L	0.314	497.79 ppb	0.314	0.06%
QC value within limits for V 292.402 Recovery = 99.56%						
Zn 213.857†	57497.8	487.57 ug/L	0.553	487.57 ppb	0.553	0.11%
QC value within limits for Zn 213.857 Recovery = 97.51%						
SiO2†	83364.4	5307.2 ug/L	53.75	5307.2 ppb	53.75	1.01%
QC value within limits for SiO2 Recovery = 99.25%						

All analyte(s) passed QC.

Sequence No.: 81

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/4/2010 01:12:42

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	3717.4	3717.4	93.9 %		01:14:54
1	Y RADIAL	4084.7	4084.7	90.00 %		01:14:34
1	Al 396.153Radial†	-202.8	-20.2	-18.154 ug/L	-18.154 ppb	01:14:34
1	Ca 317.933Radial†	13.5	-1.9	-3.8052 ug/L	-3.8052 ppb	01:14:54
1	Fe 238.204 Radial†	9.1	-2.1	-25.218 ug/L	-25.218 ppb	01:14:54
1	K 766.490 Radial†	3068.0	237.5	41.423 ug/L	41.423 ppb	01:14:34
1	Mg 279.077 IEC†	3.5	0.4	18.462 ug/L	18.462 ppb	01:14:54
1	Na 589.592 Radial†	-1635.4	-157.0	-45.006 ug/L	-45.006 ppb	01:14:34
1	Sr 421.552†	22.4	23.4	0.1584 ug/L	0.1584 ppb	01:14:34
1	Sc 361.383	843932.5	843932.5	97.591 %		01:15:51
1	Y 371.029	666901.6	666901.6	97.773 %		01:15:51
1	Ag 328.068†	360.3	-66.0	-0.3093 ug/L	-0.3093 ppb	01:15:51
1	As 188.979†	-27.3	7.4	2.8275 ug/L	2.8275 ppb	01:16:11
1	B 249.677†	-659.4	-68.9	-1.4602 ug/L	-1.4602 ppb	01:15:51
1	Ba 233.527†	3.8	21.9	0.1630 ug/L	0.1630 ppb	01:16:11
1	Be 313.107†	-3805.4	44.7	0.0150 ug/L	0.0150 ppb	01:15:51
1	Cd 226.502†	-208.8	-14.3	-0.1473 ug/L	-0.1473 ppb	01:16:11
1	Co 228.616†	-79.7	4.7	0.0884 ug/L	0.0884 ppb	01:16:11
1	Cr 267.716†	92.4	5.7	0.0597 ug/L	0.0597 ppb	01:15:51
1	Cu 324.752†	6821.4	141.5	0.4057 ug/L	0.4057 ppb	01:15:51
1	Mn 257.610†	553.7	74.9	0.0735 ug/L	0.0735 ppb	01:16:11
1	Mo 202.031†	8.6	5.9	0.4032 ug/L	0.4032 ppb	01:16:11
1	Ni 231.604†	88.0	7.0	0.1592 ug/L	0.1592 ppb	01:16:11
1	P 214.914†	235.7	7.1	3.5076 ug/L	3.5076 ppb	01:16:11
1	Pb 220.353†	-66.4	3.1	0.3410 ug/L	0.3410 ppb	01:16:11
1	S 181.975 Axial†	53.7	3.1	3.7613 ug/L	3.7613 ppb	01:16:11
1	Sb 206.836†	49.2	14.9	4.5719 ug/L	4.5719 ppb	01:16:11
1	Se 196.026†	-24.1	4.8	2.5205 ug/L	2.5205 ppb	01:16:11
1	Si 251.611†	555.8	79.9	2.3735 ug/L	2.3735 ppb	01:16:11
1	Sn 189.927†	8.3	-9.2	-1.4911 ug/L	-1.4911 ppb	01:16:11
1	Ti 334.940†	-1719.5	-67.4	-0.1047 ug/L	-0.1047 ppb	01:15:51
1	Tl 190.801†	-40.8	1.5	0.4160 ug/L	0.4160 ppb	01:16:11
1	U 409.014†	-4272.4	-53.1	-1.7208 ug/L	-1.7208 ppb	01:15:51
1	V 292.402†	-1763.6	-99.3	-0.6828 ug/L	-0.6828 ppb	01:15:51
1	Zn 213.857†	728.5	1.4	0.0132 ug/L	0.0132 ppb	01:16:11
1	SiO2†	576.8	58.6	3.7277 ug/L	3.7277 ppb	01:17:07
2	Sc Radial	3716.8	3716.8	93.9 %		01:15:19
2	Y RADIAL	4167.7	4167.7	91.83 %		01:14:59
2	Al 396.153Radial†	-192.9	-9.7	-8.7242 ug/L	-8.7242 ppb	01:14:59
2	Ca 317.933Radial†	10.4	-5.2	-10.399 ug/L	-10.399 ppb	01:15:19
2	Fe 238.204 Radial†	12.7	1.7	20.205 ug/L	20.205 ppb	01:15:19
2	K 766.490 Radial†	3095.6	267.4	46.637 ug/L	46.637 ppb	01:14:59
2	Mg 279.077 IEC†	2.8	-0.3	-12.661 ug/L	-12.661 ppb	01:15:19
2	Na 589.592 Radial†	-1565.5	-82.8	-23.749 ug/L	-23.749 ppb	01:14:59
2	Sr 421.552†	8.9	9.0	0.0609 ug/L	0.0609 ppb	01:14:59
2	Sc 361.383	846319.6	846319.6	97.867 %		01:16:16
2	Y 371.029	666247.1	666247.1	97.677 %		01:16:16
2	Ag 328.068†	405.5	-20.8	-0.0882 ug/L	-0.0882 ppb	01:16:16
2	As 188.979†	-37.6	-3.0	-1.1376 ug/L	-1.1376 ppb	01:16:36
2	B 249.677†	-559.8	34.8	0.7365 ug/L	0.7365 ppb	01:16:16
2	Ba 233.527†	-17.7	-0.1	-0.0012 ug/L	-0.0012 ppb	01:16:36
2	Be 313.107†	-3794.0	67.4	0.0226 ug/L	0.0226 ppb	01:16:16
2	Cd 226.502†	-196.0	-0.6	-0.0085 ug/L	-0.0085 ppb	01:16:36
2	Co 228.616†	-74.2	10.6	0.1968 ug/L	0.1968 ppb	01:16:36
2	Cr 267.716†	96.0	9.1	0.0970 ug/L	0.0970 ppb	01:16:16
2	Cu 324.752†	6938.2	241.1	0.6939 ug/L	0.6939 ppb	01:16:16
2	Mn 257.610†	591.8	112.2	0.1174 ug/L	0.1174 ppb	01:16:36
2	Mo 202.031†	6.1	3.4	0.2339 ug/L	0.2339 ppb	01:16:36
2	Ni 231.604†	88.9	7.7	0.1741 ug/L	0.1741 ppb	01:16:36

2	P 214.914†	238.3	9.0	4.3968 ug/L	4.3968 ppb	01:16:36
2	Pb 220.353†	-60.4	9.5	1.0338 ug/L	1.0338 ppb	01:16:36
2	S 181.975 Axial†	54.8	4.1	4.9861 ug/L	4.9861 ppb	01:16:36
2	Sb 206.836†	44.1	9.5	2.9076 ug/L	2.9076 ppb	01:16:36
2	Se 196.026†	-33.5	-4.7	-2.4719 ug/L	-2.4719 ppb	01:16:36
2	Si 251.611†	552.8	75.3	2.2367 ug/L	2.2367 ppb	01:16:36
2	Sn 189.927†	8.7	-8.8	-1.4231 ug/L	-1.4231 ppb	01:16:36
2	Ti 334.940†	-1763.3	-107.1	-0.1642 ug/L	-0.1642 ppb	01:16:16
2	Tl 190.801†	-40.2	2.1	0.6078 ug/L	0.6078 ppb	01:16:36
2	U 409.014†	-4278.7	-47.2	-1.5336 ug/L	-1.5336 ppb	01:16:16
2	V 292.402†	-1747.0	-77.2	-0.5385 ug/L	-0.5385 ppb	01:16:16
2	Zn 213.857†	702.7	-27.1	-0.2357 ug/L	-0.2357 ppb	01:16:36
2	SiO2†	565.5	45.4	2.8927 ug/L	2.8927 ppb	01:17:12
3	Sc Radial	3731.4	3731.4	94.2 %		01:15:44
3	Y RADIAL	4150.1	4150.1	91.44 %		01:15:24
3	Al 396.153Radial†	-177.3	7.6	6.8391 ug/L	6.8391 ppb	01:15:24
3	Ca 317.933Radial†	15.2	-0.1	-0.1972 ug/L	-0.1972 ppb	01:15:44
3	Fe 238.204 Radial†	14.5	3.6	43.056 ug/L	43.056 ppb	01:15:44
3	K 766.490 Radial†	3087.2	245.6	42.829 ug/L	42.829 ppb	01:15:24
3	Mg 279.077 IEC†	2.4	-0.8	-33.362 ug/L	-33.362 ppb	01:15:44
3	Na 589.592 Radial†	-1580.0	-91.7	-26.294 ug/L	-26.294 ppb	01:15:24
3	Sr 421.552†	2.5	2.2	0.0150 ug/L	0.0150 ppb	01:15:24
3	Sc 361.383	841626.2	841626.2	97.325 %		01:16:42
3	Y 371.029	664420.4	664420.4	97.409 %		01:16:42
3	Ag 328.068†	418.2	-5.5	-0.0122 ug/L	-0.0122 ppb	01:16:42
3	As 188.979†	-25.9	8.8	3.3721 ug/L	3.3721 ppb	01:17:02
3	B 249.677†	-568.7	22.5	0.4708 ug/L	0.4708 ppb	01:16:42
3	Ba 233.527†	11.5	29.8	0.2237 ug/L	0.2237 ppb	01:17:02
3	Be 313.107†	-3800.1	39.5	0.0131 ug/L	0.0131 ppb	01:16:42
3	Cd 226.502†	-203.2	-9.1	-0.1001 ug/L	-0.1001 ppb	01:17:02
3	Co 228.616†	-81.5	2.6	0.0492 ug/L	0.0492 ppb	01:17:02
3	Cr 267.716†	37.2	-50.8	-0.5419 ug/L	-0.5419 ppb	01:16:42
3	Cu 324.752†	6798.3	136.9	0.3970 ug/L	0.3970 ppb	01:16:42
3	Mn 257.610†	636.7	161.8	0.1712 ug/L	0.1712 ppb	01:17:02
3	Mo 202.031†	7.0	4.3	0.2995 ug/L	0.2995 ppb	01:17:02
3	Ni 231.604†	103.6	23.3	0.5290 ug/L	0.5290 ppb	01:17:02
3	P 214.914†	242.9	15.1	7.5486 ug/L	7.5486 ppb	01:17:02
3	Pb 220.353†	-59.1	10.4	1.1383 ug/L	1.1383 ppb	01:17:02
3	S 181.975 Axial†	48.8	-1.8	-2.1920 ug/L	-2.1920 ppb	01:17:02
3	Sb 206.836†	40.0	5.6	1.6972 ug/L	1.6972 ppb	01:17:02
3	Se 196.026†	-27.5	1.2	0.8007 ug/L	0.8007 ppb	01:17:02
3	Si 251.611†	580.8	107.2	3.1861 ug/L	3.1861 ppb	01:17:02
3	Sn 189.927†	8.9	-8.5	-1.3857 ug/L	-1.3857 ppb	01:17:02
3	Ti 334.940†	-1745.7	-99.0	-0.1478 ug/L	-0.1478 ppb	01:16:42
3	Tl 190.801†	-42.7	-0.7	-0.1917 ug/L	-0.1917 ppb	01:17:02
3	U 409.014†	-4304.4	-98.0	-3.1842 ug/L	-3.1842 ppb	01:16:42
3	V 292.402†	-1815.8	-157.8	-1.1042 ug/L	-1.1042 ppb	01:16:42
3	Zn 213.857†	734.1	9.2	0.0705 ug/L	0.0705 ppb	01:17:02
3	SiO2†	543.9	26.4	1.6790 ug/L	1.6790 ppb	01:17:17

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843959.5	97.595 %		0.2714			0.28%
Sc Radial	3721.9	94.0 %		0.21			0.22%
Y 371.029	665856.4	97.620 %		0.1885			0.19%
Y RADIAL	4134.2	91.09 %		0.964			1.06%
Ag 328.068†	-30.7	-0.1366 ug/L		0.15433	-0.1366 ppb	0.15433	113.02%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-7.4	-6.6797 ug/L		12.62127	-6.6797 ppb	12.62127	188.95%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	4.4	1.6873 ug/L		2.46153	1.6873 ppb	2.46153	145.88%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-3.9	-0.0843 ug/L		1.19891	-0.0843 ppb	1.19891	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	17.2	0.1285 ug/L		0.11637	0.1285 ppb	0.11637	90.57%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	50.6	0.0169 ug/L		0.00502	0.0169 ppb	0.00502	29.65%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-2.4	-4.8006 ug/L		5.17348	-4.8006 ppb	5.17348	107.77%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	-8.0	-0.0853 ug/L	0.07057	-0.0853 ppb	0.07057	82.73%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	5.9	0.1115 ug/L	0.07645	0.1115 ppb	0.07645	68.58%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-12.0	-0.1284 ug/L	0.35859	-0.1284 ppb	0.35859	279.27%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	173.2	0.4989 ug/L	0.16899	0.4989 ppb	0.16899	33.88%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	1.1	12.681 ug/L	34.7533	12.681 ppb	34.7533	274.06%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	250.2	43.630 ug/L	2.6973	43.630 ppb	2.6973	6.18%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-0.2	-9.1868 ug/L	26.08610	-9.1868 ppb	26.08610	283.95%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	116.3	0.1207 ug/L	0.04896	0.1207 ppb	0.04896	40.57%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	4.6	0.3122 ug/L	0.08537	0.3122 ppb	0.08537	27.34%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-110.5	-31.683 ug/L	11.6080	-31.683 ppb	11.6080	36.64%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	12.7	0.2875 ug/L	0.20935	0.2875 ppb	0.20935	72.83%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	10.4	5.1510 ug/L	2.12347	5.1510 ppb	2.12347	41.22%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	7.7	0.8377 ug/L	0.43329	0.8377 ppb	0.43329	51.72%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	1.8	2.1851 ug/L	3.83986	2.1851 ppb	3.83986	175.73%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	10.0	3.0589 ug/L	1.44329	3.0589 ppb	1.44329	47.18%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.4	0.2831 ug/L	2.53611	0.2831 ppb	2.53611	895.78%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	87.5	2.5988 ug/L	0.51324	2.5988 ppb	0.51324	19.75%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-8.8	-1.4333 ug/L	0.05344	-1.4333 ppb	0.05344	3.73%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	11.6	0.0781 ug/L	0.07324	0.0781 ppb	0.07324	93.78%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-91.2	-0.1389 ug/L	0.03072	-0.1389 ppb	0.03072	22.11%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	1.0	0.2774 ug/L	0.41739	0.2774 ppb	0.41739	150.48%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-66.1	-2.1462 ug/L	0.90379	-2.1462 ppb	0.90379	42.11%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-111.4	-0.7751 ug/L	0.29393	-0.7751 ppb	0.29393	37.92%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-5.5	-0.0506 ug/L	0.16276	-0.0506 ppb	0.16276	321.36%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	43.5	2.7665 ug/L	1.03020	2.7665 ppb	1.03020	37.24%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 82

Sample ID: 245113005|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 85

Date Collected: 2/4/2010 01:19:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113005|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3800.4	3800.4	96.0 %		01:21:41
1	Y RADIAL	4727.5	4727.5	104.2 %		01:21:21
1	Al 396.153Radial†	53801.6	56257.2	50539 ug/L	50539 ppb	01:21:21
1	Ca 317.933Radial†	6401.1	6653.7	13192 ug/L	13192 ppb	01:21:21
1	Fe 238.204 Radial†	8027.8	8353.1	99488 ug/L	99488 ppb	01:21:21
1	K 766.490 Radial†	39919.6	38565.5	6718.6 ug/L	6718.6 ppb	01:21:21
1	Mg 279.077 IEC†	227.3	233.6	10060 ug/L	10060 ppb	01:21:41
1	Na 589.592 Radial†	347.6	1947.3	558.37 ug/L	558.37 ppb	01:21:21
1	Sr 421.552†	17173.1	17894.0	120.78 ug/L	120.78 ppb	01:21:21
1	Sc 361.383	861630.9	861630.9	99.638 %		01:22:39
1	Y 371.029	757748.6	757748.6	111.09 %		01:22:39
1	Ag 328.068†	-6014.4	-6471.4	4.8264 ug/L	4.8264 ppb	01:22:44
1	As 188.979†	-77.7	-42.6	41.480 ug/L	41.480 ppb	01:23:04
1	B 249.677†	454.9	1063.4	6.3595 ug/L	6.3595 ppb	01:22:44
1	Ba 233.527†	84182.2	84506.0	640.10 ug/L	640.10 ppb	01:22:44
1	Be 313.107†	-12643.8	-8745.6	6.0358 ug/L	6.0358 ppb	01:22:44
1	Cd 226.502†	716.0	918.3	-0.6995 ug/L	-0.6995 ppb	01:23:04
1	Co 228.616†	1379.7	1471.1	17.873 ug/L	17.873 ppb	01:23:04
1	Cr 267.716†	6082.7	6015.8	66.409 ug/L	66.409 ppb	01:22:44
1	Cu 324.752†	32658.1	25928.5	79.779 ug/L	79.779 ppb	01:22:44
1	Mn 257.610†	1357900.7	1362341.6	1404.1 ug/L	1404.1 ppb	01:22:39
1	Mo 202.031†	13.3	10.5	8.5971 ug/L	8.5971 ppb	01:23:04
1	Ni 231.604†	2167.3	2092.0	47.517 ug/L	47.517 ppb	01:23:04
1	P 214.914†	1953.9	1726.5	795.28 ug/L	795.28 ppb	01:23:04
1	Pb 220.353†	1099.2	1174.3	129.97 ug/L	129.97 ppb	01:23:04
1	S 181.975 Axial†	595.3	545.6	650.70 ug/L	650.70 ppb	01:23:04
1	Sb 206.836†	94.6	59.4	3.0104 ug/L	3.0104 ppb	01:23:04
1	Se 196.026†	-539.6	-512.0	28.907 ug/L	28.907 ppb	01:23:04
1	Si 251.611†	811972.1	814432.5	24232 ug/L	24232 ppb	01:22:39
1	Sn 189.927†	-55.2	-73.0	-8.1794 ug/L	-8.1794 ppb	01:23:04
1	Ti 334.940†	2576046.7	2587100.2	3973.1 ug/L	3973.1 ppb	01:22:39
1	Tl 190.801†	-174.9	-132.3	1.3942 ug/L	1.3942 ppb	01:23:04
1	U 409.014†	-9397.9	-5107.3	-177.23 ug/L	-177.23 ppb	01:22:39
1	V 292.402†	21668.1	23454.7	143.98 ug/L	143.98 ppb	01:22:44
1	Zn 213.857†	39628.0	39026.9	323.78 ug/L	323.78 ppb	01:22:44
1	SiO2†	812053.7	814471.5	51983 ug/L	51983 ppb	01:24:12
2	Sc Radial	3823.3	3823.3	96.5 %		01:22:06
2	Y RADIAL	4810.4	4810.4	106.0 %		01:21:46
2	Al 396.153Radial†	54555.3	56701.1	50938 ug/L	50938 ppb	01:21:46
2	Ca 317.933Radial†	6484.8	6700.4	13284 ug/L	13284 ppb	01:21:46
2	Fe 238.204 Radial†	8133.3	8412.2	100190 ug/L	100190 ppb	01:21:46
2	K 766.490 Radial†	40547.0	38965.5	6788.3 ug/L	6788.3 ppb	01:21:46
2	Mg 279.077 IEC†	223.5	228.2	9824.9 ug/L	9824.9 ppb	01:22:06
2	Na 589.592 Radial†	411.2	2011.1	576.64 ug/L	576.64 ppb	01:21:46
2	Sr 421.552†	17407.9	18029.7	121.70 ug/L	121.70 ppb	01:21:46
2	Sc 361.383	859405.7	859405.7	99.381 %		01:23:10
2	Y 371.029	754151.0	754151.0	110.56 %		01:23:10
2	Ag 328.068†	-6088.9	-6561.9	4.6620 ug/L	4.6620 ppb	01:23:15
2	As 188.979†	-78.5	-43.5	41.286 ug/L	41.286 ppb	01:23:35
2	B 249.677†	274.4	882.9	2.4102 ug/L	2.4102 ppb	01:23:15
2	Ba 233.527†	84729.1	85275.1	645.92 ug/L	645.92 ppb	01:23:15
2	Be 313.107†	-12834.1	-8970.0	5.9597 ug/L	5.9597 ppb	01:23:15
2	Cd 226.502†	710.1	914.2	-0.8152 ug/L	-0.8152 ppb	01:23:35
2	Co 228.616†	1383.7	1478.7	18.009 ug/L	18.009 ppb	01:23:35
2	Cr 267.716†	6094.6	6043.5	66.722 ug/L	66.722 ppb	01:23:15
2	Cu 324.752†	32554.5	25909.1	79.762 ug/L	79.762 ppb	01:23:15
2	Mn 257.610†	1353953.4	1361898.4	1403.8 ug/L	1403.8 ppb	01:23:10
2	Mo 202.031†	28.0	25.4	9.6663 ug/L	9.6663 ppb	01:23:35
2	Ni 231.604†	2149.1	2079.3	47.228 ug/L	47.228 ppb	01:23:35

2	P 214.914†	1954.3	1732.0	797.66 ug/L	797.66 ppb	01:23:35
2	Pb 220.353†	1068.7	1146.5	126.95 ug/L	126.95 ppb	01:23:35
2	S 181.975 Axial†	600.9	552.7	659.28 ug/L	659.28 ppb	01:23:35
2	Sb 206.836†	81.5	46.4	-0.8974 ug/L	-0.8974 ppb	01:23:35
2	Se 196.026†	-515.6	-489.3	43.353 ug/L	43.353 ppb	01:23:35
2	Si 251.611†	810759.0	815321.8	24259 ug/L	24259 ppb	01:23:10
2	Sn 189.927†	-29.8	-47.7	-4.0355 ug/L	-4.0355 ppb	01:23:35
2	Ti 334.940†	2569519.9	2587227.0	3973.3 ug/L	3973.3 ppb	01:23:10
2	Tl 190.801†	-162.2	-120.0	4.9027 ug/L	4.9027 ppb	01:23:35
2	U 409.014†	-9425.9	-5159.9	-179.02 ug/L	-179.02 ppb	01:23:10
2	V 292.402†	21933.1	23777.6	146.13 ug/L	146.13 ppb	01:23:15
2	Zn 213.857†	39880.2	39383.7	326.77 ug/L	326.77 ppb	01:23:15
2	SiO2†	815019.9	819566.4	52308 ug/L	52308 ppb	01:24:18
3	Sc Radial	3819.7	3819.7	96.5 %		01:22:31
3	Y RADIAL	4841.5	4841.5	106.7 %		01:22:11
3	Al 396.153Radial†	54445.1	56641.0	50884 ug/L	50884 ppb	01:22:11
3	Ca 317.933Radial†	6450.0	6670.7	13226 ug/L	13226 ppb	01:22:11
3	Fe 238.204 Radial†	8083.2	8368.3	99669 ug/L	99669 ppb	01:22:11
3	K 766.490 Radial†	40180.1	38625.4	6729.0 ug/L	6729.0 ppb	01:22:11
3	Mg 279.077 IEC†	223.7	228.6	9843.6 ug/L	9843.6 ppb	01:22:31
3	Na 589.592 Radial†	394.6	1994.2	571.80 ug/L	571.80 ppb	01:22:11
3	Sr 421.552†	17349.6	17986.5	121.41 ug/L	121.41 ppb	01:22:11
3	Sc 361.383	859547.7	859547.7	99.397 %		01:23:41
3	Y 371.029	755028.3	755028.3	110.69 %		01:23:41
3	Ag 328.068†	-6140.0	-6612.4	4.2505 ug/L	4.2505 ppb	01:23:46
3	As 188.979†	-62.2	-27.2	47.392 ug/L	47.392 ppb	01:24:06
3	B 249.677†	303.5	912.1	3.1162 ug/L	3.1162 ppb	01:23:46
3	Ba 233.527†	83964.5	84491.8	640.00 ug/L	640.00 ppb	01:23:46
3	Be 313.107†	-12853.9	-8987.8	5.9524 ug/L	5.9524 ppb	01:23:46
3	Cd 226.502†	713.3	917.2	-0.7298 ug/L	-0.7298 ppb	01:24:06
3	Co 228.616†	1387.2	1482.0	18.076 ug/L	18.076 ppb	01:24:06
3	Cr 267.716†	6097.6	6045.6	66.732 ug/L	66.732 ppb	01:23:46
3	Cu 324.752†	32320.4	25668.2	79.042 ug/L	79.042 ppb	01:23:46
3	Mn 257.610†	1352914.4	1360628.1	1402.4 ug/L	1402.4 ppb	01:23:41
3	Mo 202.031†	32.7	30.1	9.9421 ug/L	9.9421 ppb	01:24:06
3	Ni 231.604†	2129.2	2058.9	46.765 ug/L	46.765 ppb	01:24:06
3	P 214.914†	1931.8	1709.0	786.51 ug/L	786.51 ppb	01:24:06
3	Pb 220.353†	1090.8	1168.6	129.40 ug/L	129.40 ppb	01:24:06
3	S 181.975 Axial†	604.9	556.6	663.99 ug/L	663.99 ppb	01:24:06
3	Sb 206.836†	72.3	37.2	-3.7744 ug/L	-3.7744 ppb	01:24:06
3	Se 196.026†	-545.0	-518.8	25.778 ug/L	25.778 ppb	01:24:06
3	Si 251.611†	809167.0	813585.4	24207 ug/L	24207 ppb	01:23:41
3	Sn 189.927†	-47.9	-65.8	-6.9981 ug/L	-6.9981 ppb	01:24:06
3	Ti 334.940†	2569595.2	2586875.8	3972.8 ug/L	3972.8 ppb	01:23:41
3	Tl 190.801†	-175.7	-133.5	1.0269 ug/L	1.0269 ppb	01:24:06
3	U 409.014†	-9405.0	-5137.3	-178.23 ug/L	-178.23 ppb	01:23:41
3	V 292.402†	21723.2	23562.8	144.72 ug/L	144.72 ppb	01:23:46
3	Zn 213.857†	39424.2	38918.2	322.84 ug/L	322.84 ppb	01:23:46
3	SiO2†	814035.8	818440.9	52236 ug/L	52236 ppb	01:24:24

Mean Data: 245113005|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	860194.8	99.472 %		0.1441			0.14%
Sc Radial	3814.5	96.3 %		0.31			0.32%
Y 371.029	755642.6	110.78 %		0.275			0.25%
Y RADIAL	4793.2	105.6 %		1.30			1.23%
Ag 328.068†	-6548.6	4.5796 ug/L		0.29667	4.5796 ppb	0.29667	6.48%
Al 396.153Radial†	56533.1	50787 ug/L		216.3	50787 ppb	216.3	0.43%
As 188.979†	-37.7	43.386 ug/L		3.4706	43.386 ppb	3.4706	8.00%
B 249.677†	952.8	3.9620 ug/L		2.10614	3.9620 ppb	2.10614	53.16%
Ba 233.527†	84757.7	642.01 ug/L		3.390	642.01 ppb	3.390	0.53%
Be 313.107†	-8901.1	5.9826 ug/L		0.04616	5.9826 ppb	0.04616	0.77%
Ca 317.933Radial†	6674.9	13234 ug/L		46.8	13234 ppb	46.8	0.35%
Cd 226.502†	916.6	-0.7482 ug/L		0.06004	-0.7482 ppb	0.06004	8.02%
Co 228.616†	1477.3	17.986 ug/L		0.1034	17.986 ppb	0.1034	0.57%
Cr 267.716†	6034.9	66.621 ug/L		0.1838	66.621 ppb	0.1838	0.28%
Cu 324.752†	25835.3	79.528 ug/L		0.4206	79.528 ppb	0.4206	0.53%
Fe 238.204 Radial†	8377.9	99783 ug/L		365.4	99783 ppb	365.4	0.37%
K 766.490 Radial†	38718.8	6745.3 ug/L		37.60	6745.3 ppb	37.60	0.56%

Mg 279.077 IEC†	230.1	9909.5 ug/L	130.61	9909.5 ppb	130.61	1.32%
Mn 257.610†	1361622.7	1403.4 ug/L	0.91	1403.4 ppb	0.91	0.06%
Mo 202.031†	22.0	9.4018 ug/L	0.71043	9.4018 ppb	0.71043	7.56%
Na 589.592 Radial†	1984.2	568.94 ug/L	9.465	568.94 ppb	9.465	1.66%
Ni 231.604†	2076.7	47.170 ug/L	0.3790	47.170 ppb	0.3790	0.80%
P 214.914†	1722.5	793.15 ug/L	5.870	793.15 ppb	5.870	0.74%
Pb 220.353†	1163.1	128.77 ug/L	1.607	128.77 ppb	1.607	1.25%
S 181.975 Axial†	551.6	657.99 ug/L	6.740	657.99 ppb	6.740	1.02%
Sb 206.836†	47.7	-0.5538 ug/L	3.40542	-0.5538 ppb	3.40542	614.91%
Se 196.026†	-506.7	32.679 ug/L	9.3750	32.679 ppb	9.3750	28.69%
Si 251.611†	814446.6	24232 ug/L	25.8	24232 ppb	25.8	0.11%
Sn 189.927†	-62.2	-6.4043 ug/L	2.13481	-6.4043 ppb	2.13481	33.33%
Sr 421.552†	17970.1	121.30 ug/L	0.468	121.30 ppb	0.468	0.39%
Ti 334.940†	2587067.6	3973.1 ug/L	0.28	3973.1 ppb	0.28	0.01%
Tl 190.801†	-128.6	2.4413 ug/L	2.13953	2.4413 ppb	2.13953	87.64%
U 409.014†	-5134.8	-178.16 ug/L	0.895	-178.16 ppb	0.895	0.50%
V 292.402†	23598.4	144.94 ug/L	1.090	144.94 ppb	1.090	0.75%
Zn 213.857†	39109.6	324.47 ug/L	2.050	324.47 ppb	2.050	0.63%
SiO2†	817492.9	52176 ug/L	170.8	52176 ppb	170.8	0.33%

Sequence No.: 83

Sample ID: 245113006|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 86

Date Collected: 2/4/2010 01:26:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113006|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3828.2	3828.2	96.7 %		01:28:49
1	Y RADIAL	5026.3	5026.3	110.8 %		01:28:29
1	Al 396.153Radial†	36012.6	37448.5	33642 ug/L	33642 ppb	01:28:29
1	Ca 317.933Radial†	3788.0	3902.1	7736.5 ug/L	7736.5 ppb	01:28:29
1	Fe 238.204 Radial†	7088.0	7320.3	87186 ug/L	87186 ppb	01:28:29
1	K 766.490 Radial†	26950.3	24847.7	4328.5 ug/L	4328.5 ppb	01:28:29
1	Mg 279.077 IEC†	131.6	132.8	5689.7 ug/L	5689.7 ppb	01:28:49
1	Na 589.592 Radial†	266.1	1860.4	533.45 ug/L	533.45 ppb	01:28:29
1	Sr 421.552†	8478.5	8770.0	59.188 ug/L	59.188 ppb	01:28:29
1	Sc 361.383	885433.4	885433.4	102.39 %		01:29:47
1	Y 371.029	805690.9	805690.9	118.12 %		01:29:47
1	Ag 328.068†	-5194.5	-5508.3	4.8863 ug/L	4.8863 ppb	01:29:52
1	As 188.979†	-59.1	-22.3	40.245 ug/L	40.245 ppb	01:30:12
1	B 249.677†	86.7	691.5	0.4843 ug/L	0.4843 ppb	01:29:52
1	Ba 233.527†	38225.0	37350.6	284.28 ug/L	284.28 ppb	01:29:52
1	Be 313.107†	-7403.2	-3286.3	6.3056 ug/L	6.3056 ppb	01:29:52
1	Cd 226.502†	561.6	748.1	-1.2086 ug/L	-1.2086 ppb	01:30:12
1	Co 228.616†	869.1	935.2	9.3847 ug/L	9.3847 ppb	01:30:12
1	Cr 267.716†	9303.4	8997.2	97.903 ug/L	97.903 ppb	01:29:52
1	Cu 324.752†	15555.0	8343.5	28.690 ug/L	28.690 ppb	01:29:52
1	Mn 257.610†	2069158.7	2020358.0	2076.8 ug/L	2076.8 ppb	01:29:47
1	Mo 202.031†	103.7	98.4	13.566 ug/L	13.566 ppb	01:30:12
1	Ni 231.604†	2757.6	2610.0	59.292 ug/L	59.292 ppb	01:30:12
1	P 214.914†	1384.0	1117.2	501.33 ug/L	501.33 ppb	01:30:12
1	Pb 220.353†	249.0	314.4	33.397 ug/L	33.397 ppb	01:30:12
1	S 181.975 Axial†	203.2	146.5	171.00 ug/L	171.00 ppb	01:30:12
1	Sb 206.836†	69.5	32.3	-2.3420 ug/L	-2.3420 ppb	01:30:12
1	Se 196.026†	-471.1	-430.6	35.316 ug/L	35.316 ppb	01:30:12
1	Si 251.611†	661829.3	645888.1	19217 ug/L	19217 ppb	01:29:47
1	Sn 189.927†	-3.0	-20.6	-0.6983 ug/L	-0.6983 ppb	01:30:12
1	Ti 334.940†	2179654.5	2130461.1	3271.6 ug/L	3271.6 ppb	01:29:47
1	Tl 190.801†	-178.6	-131.2	-0.7160 ug/L	-0.7160 ppb	01:30:12
1	U 409.014†	-11658.8	-7061.8	-239.33 ug/L	-239.33 ppb	01:29:47
1	V 292.402†	11897.1	13327.2	76.081 ug/L	76.081 ppb	01:29:52
1	Zn 213.857†	40188.7	38505.3	320.51 ug/L	320.51 ppb	01:29:52
1	SiO2†	659314.3	643388.9	41064 ug/L	41064 ppb	01:31:20
2	Sc Radial	3832.6	3832.6	96.8 %		01:29:14
2	Y RADIAL	5041.5	5041.5	111.1 %		01:28:54
2	Al 396.153Radial†	35919.1	37308.8	33516 ug/L	33516 ppb	01:28:54
2	Ca 317.933Radial†	3771.4	3880.4	7693.5 ug/L	7693.5 ppb	01:28:54
2	Fe 238.204 Radial†	7079.7	7303.2	86983 ug/L	86983 ppb	01:28:54
2	K 766.490 Radial†	26686.2	24542.5	4275.3 ug/L	4275.3 ppb	01:28:54
2	Mg 279.077 IEC†	131.0	132.0	5654.2 ug/L	5654.2 ppb	01:29:14
2	Na 589.592 Radial†	184.8	1776.1	509.26 ug/L	509.26 ppb	01:28:54
2	Sr 421.552†	8448.7	8729.1	58.912 ug/L	58.912 ppb	01:28:54
2	Sc 361.383	879089.1	879089.1	101.66 %		01:30:18
2	Y 371.029	803262.6	803262.6	117.76 %		01:30:18
2	Ag 328.068†	-5123.8	-5475.4	4.9814 ug/L	4.9814 ppb	01:30:23
2	As 188.979†	-56.7	-20.3	41.731 ug/L	41.731 ppb	01:30:43
2	B 249.677†	65.5	671.2	0.0840 ug/L	0.0840 ppb	01:30:23
2	Ba 233.527†	38399.7	37791.8	287.60 ug/L	287.60 ppb	01:30:23
2	Be 313.107†	-7516.1	-3449.5	6.4574 ug/L	6.4574 ppb	01:30:23
2	Cd 226.502†	553.1	743.7	-1.2353 ug/L	-1.2353 ppb	01:30:43
2	Co 228.616†	915.4	986.9	10.160 ug/L	10.160 ppb	01:30:43
2	Cr 267.716†	9357.5	9116.0	99.173 ug/L	99.173 ppb	01:30:23
2	Cu 324.752†	15628.6	8525.6	29.210 ug/L	29.210 ppb	01:30:23
2	Mn 257.610†	2106231.8	2071410.9	2129.0 ug/L	2129.0 ppb	01:30:18
2	Mo 202.031†	114.6	110.0	14.335 ug/L	14.335 ppb	01:30:43
2	Ni 231.604†	2785.9	2657.2	60.365 ug/L	60.365 ppb	01:30:43

2	P 214.914†	1402.1	1144.8	515.38 ug/L	515.38 ppb	01:30:43
2	Pb 220.353†	269.5	336.3	35.790 ug/L	35.790 ppb	01:30:43
2	S 181.975 Axial†	211.1	155.7	182.17 ug/L	182.17 ppb	01:30:43
2	Sb 206.836†	80.8	43.9	0.9677 ug/L	0.9677 ppb	01:30:43
2	Se 196.026†	-473.6	-436.4	31.537 ug/L	31.537 ppb	01:30:43
2	Si 251.611†	673544.6	662077.3	19699 ug/L	19699 ppb	01:30:18
2	Sn 189.927†	0.3	-17.3	-0.1810 ug/L	-0.1810 ppb	01:30:43
2	Ti 334.940†	2224540.1	2189978.1	3363.0 ug/L	3363.0 ppb	01:30:18
2	Tl 190.801†	-164.7	-118.8	3.8276 ug/L	3.8276 ppb	01:30:43
2	U 409.014†	-12028.8	-7507.9	-253.79 ug/L	-253.79 ppb	01:30:18
2	V 292.402†	11885.5	13399.6	76.499 ug/L	76.499 ppb	01:30:23
2	Zn 213.857†	40302.5	38900.6	323.90 ug/L	323.90 ppb	01:30:23
2	SiO2†	665332.7	653956.4	41738 ug/L	41738 ppb	01:31:25
3	Sc Radial	3875.2	3875.2	97.9 %		01:29:39
3	Y RADIAL	5160.1	5160.1	113.7 %		01:29:19
3	Al 396.153Radial†	35857.0	36837.5	33093 ug/L	33093 ppb	01:29:19
3	Ca 317.933Radial†	3754.2	3820.0	7573.8 ug/L	7573.8 ppb	01:29:19
3	Fe 238.204 Radial†	7063.0	7205.7	85822 ug/L	85822 ppb	01:29:19
3	K 766.490 Radial†	26703.8	24257.5	4225.7 ug/L	4225.7 ppb	01:29:19
3	Mg 279.077 IBC†	133.6	133.3	5709.7 ug/L	5709.7 ppb	01:29:39
3	Na 589.592 Radial†	214.0	1803.8	517.20 ug/L	517.20 ppb	01:29:19
3	Sr 421.552†	8447.7	8632.2	58.258 ug/L	58.258 ppb	01:29:19
3	Sc 361.383	915093.5	915093.5	105.82 %		01:30:49
3	Y 371.029	827641.9	827641.9	121.34 %		01:30:49
3	Ag 328.068†	-5074.3	-5230.3	5.6660 ug/L	5.6660 ppb	01:30:54
3	As 188.979†	-57.1	-18.5	40.078 ug/L	40.078 ppb	01:31:14
3	B 249.677†	14.9	620.9	-0.7929 ug/L	-0.7929 ppb	01:30:54
3	Ba 233.527†	38258.6	36172.3	275.35 ug/L	275.35 ppb	01:30:54
3	Be 313.107†	-7588.6	-3227.1	5.9860 ug/L	5.9860 ppb	01:30:54
3	Cd 226.502†	556.6	725.7	-1.3003 ug/L	-1.3003 ppb	01:31:14
3	Co 228.616†	884.8	922.6	9.4803 ug/L	9.4803 ppb	01:31:14
3	Cr 267.716†	9295.4	8695.1	94.644 ug/L	94.644 ppb	01:30:54
3	Cu 324.752†	15507.4	7806.2	27.067 ug/L	27.067 ppb	01:30:54
3	Mn 257.610†	2035805.6	1923339.2	1977.3 ug/L	1977.3 ppb	01:30:49
3	Mo 202.031†	114.4	105.3	13.924 ug/L	13.924 ppb	01:31:14
3	Ni 231.604†	2765.1	2529.8	57.471 ug/L	57.471 ppb	01:31:14
3	P 214.914†	1396.7	1085.4	486.45 ug/L	486.45 ppb	01:31:14
3	Pb 220.353†	284.2	339.7	36.183 ug/L	36.183 ppb	01:31:14
3	S 181.975 Axial†	210.1	146.6	171.22 ug/L	171.22 ppb	01:31:14
3	Sb 206.836†	85.4	45.2	2.1647 ug/L	2.1647 ppb	01:31:14
3	Se 196.026†	-474.4	-418.8	37.484 ug/L	37.484 ppb	01:31:14
3	Si 251.611†	652846.1	616448.6	18341 ug/L	18341 ppb	01:30:49
3	Sn 189.927†	5.5	-12.4	0.5793 ug/L	0.5793 ppb	01:31:14
3	Ti 334.940†	2149538.7	2033003.8	3122.0 ug/L	3122.0 ppb	01:30:49
3	Tl 190.801†	-171.8	-119.1	1.0184 ug/L	1.0184 ppb	01:31:14
3	U 409.014†	-11569.4	-6608.3	-224.45 ug/L	-224.45 ppb	01:30:49
3	V 292.402†	11847.9	12904.1	73.538 ug/L	73.538 ppb	01:30:54
3	Zn 213.857†	40067.9	37119.0	308.80 ug/L	308.80 ppb	01:30:54
3	SiO2†	655889.5	619281.6	39525 ug/L	39525 ppb	01:31:31

Mean Data: 245113006|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	893205.3	103.29	%	2.223			2.15%
Sc Radial	3845.3	97.1	%	0.66			0.68%
Y 371.029	812198.4	119.07	%	1.969			1.65%
Y RADIAL	5076.0	111.8	%	1.61			1.44%
Ag 328.068†	-5404.7	5.1779	ug/L	0.42539	5.1779 ppb	0.42539	8.22%
Al 396.153Radial†	37198.3	33417	ug/L	287.6	33417 ppb	287.6	0.86%
As 188.979†	-20.4	40.685	ug/L	0.9097	40.685 ppb	0.9097	2.24%
B 249.677†	661.2	-0.0749	ug/L	0.65327	-0.0749 ppb	0.65327	872.28%
Ba 233.527†	37104.9	282.41	ug/L	6.333	282.41 ppb	6.333	2.24%
Be 313.107†	-3320.9	6.2496	ug/L	0.24058	6.2496 ppb	0.24058	3.85%
Ca 317.933Radial†	3867.5	7667.9	ug/L	84.35	7667.9 ppb	84.35	1.10%
Cd 226.502†	739.2	-1.2481	ug/L	0.04716	-1.2481 ppb	0.04716	3.78%
Co 228.616†	948.2	9.6749	ug/L	0.42246	9.6749 ppb	0.42246	4.37%
Cr 267.716†	8936.1	97.240	ug/L	2.3362	97.240 ppb	2.3362	2.40%
Cu 324.752†	8225.1	28.322	ug/L	1.1175	28.322 ppb	1.1175	3.95%
Fe 238.204 Radial†	7276.4	86664	ug/L	736.0	86664 ppb	736.0	0.85%
K 766.490 Radial†	24549.2	4276.5	ug/L	51.41	4276.5 ppb	51.41	1.20%

Mg 279.077 IEC†	132.7	5684.5 ug/L	28.13	5684.5 ppb	28.13	0.49%
Mn 257.610†	2005036.1	2061.0 ug/L	77.07	2061.0 ppb	77.07	3.74%
Mo 202.031†	104.5	13.942 ug/L	0.3848	13.942 ppb	0.3848	2.76%
Na 589.592 Radial†	1813.4	519.97 ug/L	12.331	519.97 ppb	12.331	2.37%
Ni 231.604†	2599.0	59.043 ug/L	1.4634	59.043 ppb	1.4634	2.48%
P 214.914†	1115.8	501.05 ug/L	14.463	501.05 ppb	14.463	2.89%
Pb 220.353†	330.1	35.123 ug/L	1.5081	35.123 ppb	1.5081	4.29%
S 181.975 Axial†	149.6	174.80 ug/L	6.388	174.80 ppb	6.388	3.65%
Sb 206.836†	40.5	0.2635 ug/L	2.33444	0.2635 ppb	2.33444	886.04%
Se 196.026†	-428.6	34.779 ug/L	3.0097	34.779 ppb	3.0097	8.65%
Si 251.611†	641471.3	19086 ug/L	688.3	19086 ppb	688.3	3.61%
Sn 189.927†	-16.8	-0.1000 ug/L	0.64264	-0.1000 ppb	0.64264	642.41%
Sr 421.552†	8710.4	58.786 ug/L	0.4776	58.786 ppb	0.4776	0.81%
Ti 334.940†	2117814.3	3252.2 ug/L	121.69	3252.2 ppb	121.69	3.74%
Tl 190.801†	-123.1	1.3766 ug/L	2.29286	1.3766 ppb	2.29286	166.55%
U 409.014†	-7059.4	-239.19 ug/L	14.670	-239.19 ppb	14.670	6.13%
V 292.402†	13210.3	75.373 ug/L	1.6027	75.373 ppb	1.6027	2.13%
Zn 213.857†	38175.0	317.74 ug/L	7.926	317.74 ppb	7.926	2.49%
SiO2†	638875.6	40776 ug/L	1134.3	40776 ppb	1134.3	2.78%

Sequence No.: 84

Sample ID: 245113007|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 87

Date Collected: 2/4/2010 01:33:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113007|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3780.0	3780.0	95.5 %		01:35:55
1	Y RADIAL	4907.2	4907.2	108.1 %		01:35:35
1	Al 396.153Radial†	55469.0	58305.6	52379 ug/L	52379 ppb	01:35:35
1	Ca 317.933Radial†	8875.4	9281.6	18402 ug/L	18402 ppb	01:35:35
1	Fe 238.204 Radial†	7935.8	8301.8	98877 ug/L	98877 ppb	01:35:35
1	K 766.490 Radial†	54809.0	54387.6	9475.0 ug/L	9475.0 ppb	01:35:35
1	Mg 279.077 IEC†	249.7	258.3	11136 ug/L	11136 ppb	01:35:55
1	Na 589.592 Radial†	353.0	1955.0	560.55 ug/L	560.55 ppb	01:35:35
1	Sr 421.552†	19573.5	20504.9	138.38 ug/L	138.38 ppb	01:35:35
1	Sc 361.383	866556.5	866556.5	100.21 %		01:36:54
1	Y 371.029	767452.0	767452.0	112.51 %		01:36:54
1	Ag 328.068†	-6028.0	-6450.7	4.6287 ug/L	4.6287 ppb	01:36:54
1	As 188.979†	-68.2	-32.6	40.896 ug/L	40.896 ppb	01:37:14
1	B 249.677†	357.4	963.5	4.3194 ug/L	4.3194 ppb	01:36:54
1	Ba 233.527†	100909.4	100718.3	762.22 ug/L	762.22 ppb	01:36:54
1	Be 313.107†	-7974.1	-4013.5	6.5337 ug/L	6.5337 ppb	01:36:54
1	Cd 226.502†	732.2	930.3	-0.5147 ug/L	-0.5147 ppb	01:37:14
1	Co 228.616†	1704.9	1787.7	24.856 ug/L	24.856 ppb	01:37:14
1	Cr 267.716†	5411.8	5311.6	58.881 ug/L	58.881 ppb	01:37:14
1	Cu 324.752†	59290.7	52319.6	155.51 ug/L	155.51 ppb	01:36:54
1	Mn 257.610†	2238964.8	2233833.9	2296.3 ug/L	2296.3 ppb	01:36:54
1	Mo 202.031†	-11.7	-14.5	6.9086 ug/L	6.9086 ppb	01:37:14
1	Ni 231.604†	2124.3	2036.7	46.256 ug/L	46.256 ppb	01:37:14
1	P 214.914†	2308.0	2068.8	955.17 ug/L	955.17 ppb	01:37:14
1	Pb 220.353†	1266.0	1334.6	148.00 ug/L	148.00 ppb	01:37:14
1	S 181.975 Axial†	785.3	731.7	875.63 ug/L	875.63 ppb	01:37:14
1	Sb 206.836†	71.5	35.9	-2.7499 ug/L	-2.7499 ppb	01:37:14
1	Se 196.026†	-536.5	-505.9	30.312 ug/L	30.312 ppb	01:37:14
1	Si 251.611†	786375.3	784256.6	23334 ug/L	23334 ppb	01:36:54
1	Sn 189.927†	-73.8	-91.3	-10.363 ug/L	-10.363 ppb	01:37:14
1	Ti 334.940†	2270055.3	2267047.0	3482.3 ug/L	3482.3 ppb	01:36:54
1	Tl 190.801†	-181.5	-137.9	-0.0450 ug/L	-0.0450 ppb	01:37:14
1	U 409.014†	-10017.9	-5672.3	-195.49 ug/L	-195.49 ppb	01:36:54
1	V 292.402†	20745.5	22410.3	137.31 ug/L	137.31 ppb	01:37:14
1	Zn 213.857†	46538.7	45697.2	380.81 ug/L	380.81 ppb	01:36:54
1	SiO2†	789279.1	787111.6	50237 ug/L	50237 ppb	01:38:14
2	Sc Radial	3800.9	3800.9	96.0 %		01:36:20
2	Y RADIAL	4825.4	4825.4	106.3 %		01:36:00
2	Al 396.153Radial†	54469.6	56944.6	51156 ug/L	51156 ppb	01:36:00
2	Ca 317.933Radial†	8716.4	9064.8	17972 ug/L	17972 ppb	01:36:00
2	Fe 238.204 Radial†	7798.0	8112.4	96622 ug/L	96622 ppb	01:36:00
2	K 766.490 Radial†	53693.4	52909.4	9217.4 ug/L	9217.4 ppb	01:36:00
2	Mg 279.077 IEC†	249.7	256.9	11079 ug/L	11079 ppb	01:36:20
2	Na 589.592 Radial†	235.8	1830.8	524.96 ug/L	524.96 ppb	01:36:00
2	Sr 421.552†	19106.5	19905.6	134.34 ug/L	134.34 ppb	01:36:00
2	Sc 361.383	860586.5	860586.5	99.517 %		01:37:21
2	Y 371.029	762407.7	762407.7	111.77 %		01:37:21
2	Ag 328.068†	-6183.7	-6648.9	2.9787 ug/L	2.9787 ppb	01:37:21
2	As 188.979†	-61.8	-26.6	42.621 ug/L	42.621 ppb	01:37:41
2	B 249.677†	331.4	939.8	4.1838 ug/L	4.1838 ppb	01:37:21
2	Ba 233.527†	100196.4	100700.5	762.01 ug/L	762.01 ppb	01:37:21
2	Be 313.107†	-8082.4	-4177.6	6.4737 ug/L	6.4737 ppb	01:37:21
2	Cd 226.502†	738.2	941.4	-0.1664 ug/L	-0.1664 ppb	01:37:41
2	Co 228.616†	1673.4	1767.9	24.523 ug/L	24.523 ppb	01:37:41
2	Cr 267.716†	5401.9	5339.1	59.133 ug/L	59.133 ppb	01:37:41
2	Cu 324.752†	58850.0	52287.2	155.30 ug/L	155.30 ppb	01:37:21
2	Mn 257.610†	2220909.5	2231191.0	2293.3 ug/L	2293.3 ppb	01:37:21
2	Mo 202.031†	-7.7	-10.5	6.9958 ug/L	6.9958 ppb	01:37:41
2	Ni 231.604†	2125.0	2052.1	46.607 ug/L	46.607 ppb	01:37:41

2	P 214.914†	2285.8	2062.5	953.48 ug/L	953.48 ppb	01:37:41
2	Pb 220.353†	1253.3	1330.5	147.50 ug/L	147.50 ppb	01:37:41
2	S 181.975 Axial†	776.9	728.8	872.25 ug/L	872.25 ppb	01:37:41
2	Sb 206.836†	68.1	32.9	-3.6297 ug/L	-3.6297 ppb	01:37:41
2	Se 196.026†	-541.8	-514.9	18.476 ug/L	18.476 ppb	01:37:41
2	Si 251.611†	780206.8	783502.2	23312 ug/L	23312 ppb	01:37:21
2	Sn 189.927†	-84.0	-102.0	-12.206 ug/L	-12.206 ppb	01:37:41
2	Ti 334.940†	2253261.1	2265886.5	3480.5 ug/L	3480.5 ppb	01:37:21
2	Tl 190.801†	-194.2	-152.0	-4.0779 ug/L	-4.0779 ppb	01:37:41
2	U 409.014†	-10021.5	-5745.4	-197.60 ug/L	-197.60 ppb	01:37:21
2	V 292.402†	20717.8	22526.1	138.44 ug/L	138.44 ppb	01:37:41
2	Zn 213.857†	46066.2	45544.6	379.72 ug/L	379.72 ppb	01:37:21
2	SiO2†	777663.7	780903.8	49841 ug/L	49841 ppb	01:38:20
3	Sc Radial	3828.5	3828.5	96.7 %		01:36:45
3	Y RADIAL	4917.2	4917.2	108.3 %		01:36:25
3	Al 396.153Radial†	55498.8	57600.6	51746 ug/L	51746 ppb	01:36:25
3	Ca 317.933Radial†	8843.9	9131.3	18104 ug/L	18104 ppb	01:36:25
3	Fe 238.204 Radial†	7905.6	8165.2	97250 ug/L	97250 ppb	01:36:25
3	K 766.490 Radial†	54673.3	53520.2	9323.9 ug/L	9323.9 ppb	01:36:25
3	Mg 279.077 IEC†	259.9	265.5	11453 ug/L	11453 ppb	01:36:45
3	Na 589.592 Radial†	346.4	1943.4	557.23 ug/L	557.23 ppb	01:36:25
3	Sr 421.552†	19498.1	20167.3	136.10 ug/L	136.10 ppb	01:36:25
3	Sc 361.383	873310.2	873310.2	100.99 %		01:37:47
3	Y 371.029	775028.5	775028.5	113.63 %		01:37:47
3	Ag 328.068†	-6140.3	-6515.3	3.7898 ug/L	3.7898 ppb	01:37:47
3	As 188.979†	-67.4	-31.3	40.967 ug/L	40.967 ppb	01:38:08
3	B 249.677†	332.0	935.5	3.9920 ug/L	3.9920 ppb	01:37:47
3	Ba 233.527†	101325.5	100351.7	759.40 ug/L	759.40 ppb	01:37:47
3	Be 313.107†	-8320.6	-4295.0	6.4280 ug/L	6.4280 ppb	01:37:47
3	Cd 226.502†	756.8	949.0	-0.1512 ug/L	-0.1512 ppb	01:38:08
3	Co 228.616†	1677.0	1746.9	24.127 ug/L	24.127 ppb	01:38:08
3	Cr 267.716†	5448.5	5306.1	58.791 ug/L	58.791 ppb	01:38:08
3	Cu 324.752†	59692.1	52259.5	155.25 ug/L	155.25 ppb	01:37:47
3	Mn 257.610†	2248057.8	2225558.9	2287.6 ug/L	2287.6 ppb	01:37:47
3	Mo 202.031†	-18.7	-21.3	6.3128 ug/L	6.3128 ppb	01:38:08
3	Ni 231.604†	2167.3	2062.9	46.853 ug/L	46.853 ppb	01:38:08
3	P 214.914†	2306.9	2049.8	946.70 ug/L	946.70 ppb	01:38:08
3	Pb 220.353†	1273.5	1332.3	147.76 ug/L	147.76 ppb	01:38:08
3	S 181.975 Axial†	799.2	739.4	885.03 ug/L	885.03 ppb	01:38:08
3	Sb 206.836†	74.1	37.8	-2.1232 ug/L	-2.1232 ppb	01:38:08
3	Se 196.026†	-528.9	-494.2	31.605 ug/L	31.605 ppb	01:38:08
3	Si 251.611†	790779.4	782548.8	23283 ug/L	23283 ppb	01:37:47
3	Sn 189.927†	-84.5	-101.4	-12.069 ug/L	-12.069 ppb	01:38:08
3	Ti 334.940†	2284930.8	2264258.0	3478.0 ug/L	3478.0 ppb	01:37:47
3	Tl 190.801†	-187.6	-142.5	-1.4293 ug/L	-1.4293 ppb	01:38:08
3	U 409.014†	-10088.7	-5665.1	-195.07 ug/L	-195.07 ppb	01:37:47
3	V 292.402†	20896.2	22399.5	137.47 ug/L	137.47 ppb	01:38:08
3	Zn 213.857†	46763.9	45561.1	379.80 ug/L	379.80 ppb	01:37:47
3	SiO2†	778673.1	770518.2	49178 ug/L	49178 ppb	01:38:26

Mean Data: 245113007|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	866817.7	100.24 %		0.736			0.73%
Sc Radial	3803.2	96.0 %		0.61			0.64%
Y 371.029	768296.1	112.64 %		0.931			0.83%
Y RADIAL	4883.2	107.6 %		1.11			1.03%
Ag 328.068†	-6538.3	3.7991 ug/L		0.82502	3.7991 ppb	0.82502	21.72%
Al 396.153Radial†	57616.9	51761 ug/L		611.5	51761 ppb	611.5	1.18%
As 188.979†	-30.2	41.495 ug/L		0.9758	41.495 ppb	0.9758	2.35%
B 249.677†	946.3	4.1650 ug/L		0.16452	4.1650 ppb	0.16452	3.95%
Ba 233.527†	100590.2	761.21 ug/L		1.569	761.21 ppb	1.569	0.21%
Be 313.107†	-4162.0	6.4785 ug/L		0.05302	6.4785 ppb	0.05302	0.82%
Ca 317.933Radial†	9159.3	18159 ug/L		220.2	18159 ppb	220.2	1.21%
Cd 226.502†	940.3	-0.2774 ug/L		0.20560	-0.2774 ppb	0.20560	74.10%
Co 228.616†	1767.5	24.502 ug/L		0.3647	24.502 ppb	0.3647	1.49%
Cr 267.716†	5318.9	58.935 ug/L		0.1769	58.935 ppb	0.1769	0.30%
Cu 324.752†	52288.7	155.35 ug/L		0.138	155.35 ppb	0.138	0.09%
Fe 238.204 Radial†	8193.2	97583 ug/L		1164.0	97583 ppb	1164.0	1.19%
K 766.490 Radial†	53605.7	9338.8 ug/L		129.43	9338.8 ppb	129.43	1.39%

Mg 279.077 IEC†	260.2	11222 ug/L	201.7	11222 ppb	201.7	1.80%
Mn 257.610†	2230194.6	2292.4 ug/L	4.40	2292.4 ppb	4.40	0.19%
Mo 202.031†	-15.4	6.7391 ug/L	0.37170	6.7391 ppb	0.37170	5.52%
Na 589.592 Radial†	1909.7	547.58 ug/L	19.662	547.58 ppb	19.662	3.59%
Ni 231.604†	2050.6	46.572 ug/L	0.2999	46.572 ppb	0.2999	0.64%
P 214.914†	2060.4	951.78 ug/L	4.483	951.78 ppb	4.483	0.47%
Pb 220.353†	1332.5	147.76 ug/L	0.249	147.76 ppb	0.249	0.17%
S 181.975 Axial†	733.3	877.64 ug/L	6.621	877.64 ppb	6.621	0.75%
Sb 206.836†	35.5	-2.8343 ug/L	0.75679	-2.8343 ppb	0.75679	26.70%
Se 196.026†	-505.0	26.798 ug/L	7.2361	26.798 ppb	7.2361	27.00%
Si 251.611†	783435.9	23310 ug/L	25.5	23310 ppb	25.5	0.11%
Sn 189.927†	-98.2	-11.546 ug/L	1.0269	-11.546 ppb	1.0269	8.89%
Sr 421.552†	20192.6	136.28 ug/L	2.028	136.28 ppb	2.028	1.49%
Ti 334.940†	2265730.5	3480.3 ug/L	2.18	3480.3 ppb	2.18	0.06%
Tl 190.801†	-144.1	-1.8507 ug/L	2.04922	-1.8507 ppb	2.04922	110.72%
U 409.014†	-5694.3	-196.05 ug/L	1.357	-196.05 ppb	1.357	0.69%
V 292.402†	22445.3	137.74 ug/L	0.611	137.74 ppb	0.611	0.44%
Zn 213.857†	45601.0	380.11 ug/L	0.607	380.11 ppb	0.607	0.16%
SiO2†	779511.2	49752 ug/L	535.1	49752 ppb	535.1	1.08%

Sequence No.: 85

Sample ID: 245113008|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 88

Date Collected: 2/4/2010 01:40:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113008|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3802.1	3802.1	96.0 %		01:42:50
1	Y RADIAL	5186.6	5186.6	114.3 %		01:42:30
1	Al 396.153Radial†	35689.7	37367.3	33569 ug/L	33569 ppb	01:42:30
1	Ca 317.933Radial†	3146.1	3260.4	6464.2 ug/L	6464.2 ppb	01:42:50
1	Fe 238.204 Radial†	14583.4	15177.0	180760 ug/L	180760 ppb	01:42:30
1	K 766.490 Radial†	29600.7	27799.0	4843.1 ug/L	4843.1 ppb	01:42:30
1	Mg 279.077 IEC†	147.4	150.2	6349.5 ug/L	6349.5 ppb	01:42:50
1	Na 589.592 Radial†	131.8	1722.4	493.87 ug/L	493.87 ppb	01:42:30
1	Sr 421.552†	8505.5	8858.2	59.793 ug/L	59.793 ppb	01:42:30
1	Sc 361.383	860906.3	860906.3	99.554 %		01:43:48
1	Y 371.029	826080.9	826080.9	121.11 %		01:43:48
1	Ag 328.068†	-11749.2	-12236.9	6.6235 ug/L	6.6235 ppb	01:43:54
1	As 188.979†	-198.6	-164.0	58.312 ug/L	58.312 ppb	01:44:14
1	B 249.677†	598.2	1207.7	-3.8157 ug/L	-3.8157 ppb	01:43:54
1	Ba 233.527†	37869.7	38057.3	292.81 ug/L	292.81 ppb	01:43:54
1	Be 313.107†	-41511.9	-37753.7	7.7111 ug/L	7.7111 ppb	01:43:54
1	Cd 226.502†	1442.5	1648.6	-1.4871 ug/L	-1.4871 ppb	01:44:14
1	Co 228.616†	2191.0	2287.2	21.049 ug/L	21.049 ppb	01:44:14
1	Cr 267.716†	6441.7	6381.5	72.050 ug/L	72.050 ppb	01:43:54
1	Cu 324.752†	14008.3	7222.8	30.424 ug/L	30.424 ppb	01:43:54
1	Mn 257.610†	2868470.2	2880822.4	2966.9 ug/L	2966.9 ppb	01:43:48
1	Mo 202.031†	143.9	141.7	23.762 ug/L	23.762 ppb	01:43:54
1	Ni 231.604†	2210.2	2136.9	48.529 ug/L	48.529 ppb	01:44:14
1	P 214.914†	1822.8	1596.5	670.32 ug/L	670.32 ppb	01:44:14
1	Pb 220.353†	584.2	658.0	62.022 ug/L	62.022 ppb	01:44:14
1	S 181.975 Axial†	257.4	206.6	243.68 ug/L	243.68 ppb	01:44:14
1	Sb 206.836†	127.0	92.0	-3.5565 ug/L	-3.5565 ppb	01:44:14
1	Se 196.026†	-960.3	-935.0	50.829 ug/L	50.829 ppb	01:44:14
1	Si 251.611†	593070.2	595236.4	17710 ug/L	17710 ppb	01:43:48
1	Sn 189.927†	28.1	10.6	5.7468 ug/L	5.7468 ppb	01:44:14
1	Ti 334.940†	5877269.0	5905281.3	9067.1 ug/L	9067.1 ppb	01:43:48
1	Tl 190.801†	-331.5	-289.7	5.8552 ug/L	5.8552 ppb	01:44:14
1	U 409.014†	-11231.1	-6956.6	-246.53 ug/L	-246.53 ppb	01:43:48
1	V 292.402†	35469.4	37336.1	223.05 ug/L	223.05 ppb	01:43:54
1	Zn 213.857†	80301.0	79915.5	665.73 ug/L	665.73 ppb	01:43:54
1	SiO2†	591619.9	593736.6	37895 ug/L	37895 ppb	01:45:24
2	Sc Radial	3834.1	3834.1	96.8 %		01:43:15
2	Y RADIAL	5268.1	5268.1	116.1 %		01:42:55
2	Al 396.153Radial†	36190.7	37574.9	33755 ug/L	33755 ppb	01:42:55
2	Ca 317.933Radial†	3178.7	3266.8	6476.9 ug/L	6476.9 ppb	01:43:15
2	Fe 238.204 Radial†	14806.9	15281.3	182000 ug/L	182000 ppb	01:42:55
2	K 766.490 Radial†	29950.0	27902.8	4861.2 ug/L	4861.2 ppb	01:42:55
2	Mg 279.077 IEC†	150.9	152.6	6450.7 ug/L	6450.7 ppb	01:43:15
2	Na 589.592 Radial†	202.6	1794.4	514.52 ug/L	514.52 ppb	01:42:55
2	Sr 421.552†	8607.5	8889.8	60.006 ug/L	60.006 ppb	01:42:55
2	Sc 361.383	858045.6	858045.6	99.223 %		01:44:20
2	Y 371.029	824669.0	824669.0	120.90 %		01:44:20
2	Ag 328.068†	-11794.0	-12321.4	6.6751 ug/L	6.6751 ppb	01:44:26
2	As 188.979†	-186.3	-152.3	63.014 ug/L	63.014 ppb	01:44:46
2	B 249.677†	627.2	1238.9	-3.3576 ug/L	-3.3576 ppb	01:44:26
2	Ba 233.527†	38239.7	38557.0	296.63 ug/L	296.63 ppb	01:44:26
2	Be 313.107†	-42336.9	-38724.2	7.3686 ug/L	7.3686 ppb	01:44:26
2	Cd 226.502†	1436.5	1647.4	-1.6275 ug/L	-1.6275 ppb	01:44:46
2	Co 228.616†	2237.7	2341.6	22.054 ug/L	22.054 ppb	01:44:46
2	Cr 267.716†	6436.3	6397.6	72.251 ug/L	72.251 ppb	01:44:26
2	Cu 324.752†	13912.6	7173.2	30.347 ug/L	30.347 ppb	01:44:26
2	Mn 257.610†	2854651.5	2876501.7	2962.6 ug/L	2962.6 ppb	01:44:20
2	Mo 202.031†	140.4	138.7	23.655 ug/L	23.655 ppb	01:44:26
2	Ni 231.604†	2208.5	2142.6	48.657 ug/L	48.657 ppb	01:44:46

2	P 214.914†	1833.4	1613.3	677.90 ug/L	677.90 ppb	01:44:46
2	Pb 220.353†	590.7	666.5	62.874 ug/L	62.874 ppb	01:44:46
2	S 181.975 Axial†	257.5	207.6	244.89 ug/L	244.89 ppb	01:44:46
2	Sb 206.836†	131.2	96.7	-2.1183 ug/L	-2.1183 ppb	01:44:46
2	Se 196.026†	-967.6	-945.7	48.892 ug/L	48.892 ppb	01:44:46
2	Si 251.611†	589778.2	593904.7	17671 ug/L	17671 ppb	01:44:20
2	Sn 189.927†	22.0	4.5	4.7749 ug/L	4.7749 ppb	01:44:46
2	Ti 334.940†	5854450.4	5901966.2	9062.0 ug/L	9062.0 ppb	01:44:20
2	Tl 190.801†	-318.4	-277.7	9.2188 ug/L	9.2188 ppb	01:44:46
2	U 409.014†	-11196.9	-6959.7	-246.77 ug/L	-246.77 ppb	01:44:20
2	V 292.402†	35908.9	37897.7	226.77 ug/L	226.77 ppb	01:44:26
2	Zn 213.857†	81166.9	81057.1	675.37 ug/L	675.37 ppb	01:44:26
2	SiO2†	596842.1	600981.0	38357 ug/L	38357 ppb	01:45:29
3	Sc Radial	3810.9	3810.9	96.2 %		01:43:40
3	Y RADIAL	5140.1	5140.1	113.3 %		01:43:20
3	Al 396.153Radial†	35345.4	36924.5	33171 ug/L	33171 ppb	01:43:20
3	Ca 317.933Radial†	3144.5	3251.3	6446.2 ug/L	6446.2 ppb	01:43:40
3	Fe 238.204 Radial†	14422.9	14975.5	178360 ug/L	178360 ppb	01:43:20
3	K 766.490 Radial†	29293.4	27409.1	4775.1 ug/L	4775.1 ppb	01:43:20
3	Mg 279.077 IEC†	147.2	149.7	6327.9 ug/L	6327.9 ppb	01:43:40
3	Na 589.592 Radial†	185.5	1777.9	509.77 ug/L	509.77 ppb	01:43:20
3	Sr 421.552†	8378.2	8705.7	58.763 ug/L	58.763 ppb	01:43:20
3	Sc 361.383	864042.5	864042.5	99.917 %		01:44:52
3	Y 371.029	830438.2	830438.2	121.75 %		01:44:52
3	Ag 328.068†	-11811.6	-12256.6	5.7220 ug/L	5.7220 ppb	01:44:58
3	As 188.979†	-206.2	-170.9	55.034 ug/L	55.034 ppb	01:45:18
3	B 249.677†	501.6	1108.9	-5.5282 ug/L	-5.5282 ppb	01:44:58
3	Ba 233.527†	37924.7	37974.2	292.11 ug/L	292.11 ppb	01:44:58
3	Be 313.107†	-41722.2	-37812.8	7.6668 ug/L	7.6668 ppb	01:44:58
3	Cd 226.502†	1461.0	1661.9	-1.1001 ug/L	-1.1001 ppb	01:45:18
3	Co 228.616†	2242.6	2330.8	21.916 ug/L	21.916 ppb	01:45:18
3	Cr 267.716†	6391.2	6307.4	71.212 ug/L	71.212 ppb	01:44:58
3	Cu 324.752†	14048.4	7211.8	30.265 ug/L	30.265 ppb	01:44:58
3	Mn 257.610†	2874386.5	2876285.3	2962.0 ug/L	2962.0 ppb	01:44:52
3	Mo 202.031†	133.6	130.9	22.839 ug/L	22.839 ppb	01:44:58
3	Ni 231.604†	2232.0	2150.7	48.840 ug/L	48.840 ppb	01:45:18
3	P 214.914†	1850.7	1617.8	682.96 ug/L	682.96 ppb	01:45:18
3	Pb 220.353†	586.3	658.0	62.157 ug/L	62.157 ppb	01:45:18
3	S 181.975 Axial†	265.9	214.2	252.93 ug/L	252.93 ppb	01:45:18
3	Sb 206.836†	120.6	85.1	-5.6433 ug/L	-5.6433 ppb	01:45:18
3	Se 196.026†	-978.1	-949.4	35.651 ug/L	35.651 ppb	01:45:18
3	Si 251.611†	593821.9	593826.3	17668 ug/L	17668 ppb	01:44:52
3	Sn 189.927†	17.5	-0.1	3.9619 ug/L	3.9619 ppb	01:45:18
3	Ti 334.940†	5891759.7	5898355.7	9056.5 ug/L	9056.5 ppb	01:44:52
3	Tl 190.801†	-342.0	-299.0	3.0896 ug/L	3.0896 ppb	01:45:18
3	U 409.014†	-11239.0	-6923.6	-245.18 ug/L	-245.18 ppb	01:44:52
3	V 292.402†	35546.5	37283.9	223.04 ug/L	223.04 ppb	01:44:58
3	Zn 213.857†	80347.9	79669.6	663.86 ug/L	663.86 ppb	01:44:58
3	SiO2†	600823.1	600790.5	38345 ug/L	38345 ppb	01:45:34

Mean Data: 245113008|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	860998.1	99.565 %		0.3469			0.35%
Sc Radial	3815.7	96.4 %		0.42			0.43%
Y 371.029	827062.7	121.25 %		0.441			0.36%
Y RADIAL	5198.3	114.5 %		1.43			1.25%
Ag 328.068†	-12271.7	6.3402 ug/L		0.53598	6.3402 ppb	0.53598	8.45%
Al 396.153Radial†	37288.9	33498 ug/L		298.5	33498 ppb	298.5	0.89%
As 188.979†	-162.4	58.786 ug/L		4.0110	58.786 ppb	4.0110	6.82%
B 249.677†	1185.1	-4.2338 ug/L		1.14410	-4.2338 ppb	1.14410	27.02%
Ba 233.527†	38196.2	293.85 ug/L		2.428	293.85 ppb	2.428	0.83%
Be 313.107†	-38096.9	7.5821 ug/L		0.18626	7.5821 ppb	0.18626	2.46%
Ca 317.933Radial†	3259.5	6462.4 ug/L		15.41	6462.4 ppb	15.41	0.24%
Cd 226.502†	1652.6	-1.4049 ug/L		0.27314	-1.4049 ppb	0.27314	19.44%
Co 228.616†	2319.9	21.673 ug/L		0.5449	21.673 ppb	0.5449	2.51%
Cr 267.716†	6362.2	71.838 ug/L		0.5510	71.838 ppb	0.5510	0.77%
Cu 324.752†	7202.6	30.345 ug/L		0.0795	30.345 ppb	0.0795	0.26%
Fe 238.204 Radial†	15144.6	180380 ug/L		1851.5	180380 ppb	1851.5	1.03%
K 766.490 Radial†	27703.6	4826.5 ug/L		45.38	4826.5 ppb	45.38	0.94%

Mg 279.077 IEC†	150.8	6376.0 ug/L	65.57	6376.0 ppb	65.57	1.03%
Mn 257.610†	2877869.8	2963.8 ug/L	2.67	2963.8 ppb	2.67	0.09%
Mo 202.031†	137.1	23.419 ug/L	0.5047	23.419 ppb	0.5047	2.16%
Na 589.592 Radial†	1764.9	506.05 ug/L	10.814	506.05 ppb	10.814	2.14%
Ni 231.604†	2143.4	48.675 ug/L	0.1565	48.675 ppb	0.1565	0.32%
P 214.914†	1609.2	677.06 ug/L	6.361	677.06 ppb	6.361	0.94%
Pb 220.353†	660.9	62.351 ug/L	0.4579	62.351 ppb	0.4579	0.73%
S 181.975 Axial†	209.5	247.17 ug/L	5.027	247.17 ppb	5.027	2.03%
Sb 206.836†	91.3	-3.7727 ug/L	1.77242	-3.7727 ppb	1.77242	46.98%
Se 196.026†	-943.4	45.124 ug/L	8.2609	45.124 ppb	8.2609	18.31%
Si 251.611†	594322.5	17683 ug/L	23.6	17683 ppb	23.6	0.13%
Sn 189.927†	5.0	4.8279 ug/L	0.89364	4.8279 ppb	0.89364	18.51%
Sr 421.552†	8817.9	59.521 ug/L	0.6649	59.521 ppb	0.6649	1.12%
Ti 334.940†	5901867.8	9061.9 ug/L	5.32	9061.9 ppb	5.32	0.06%
Tl 190.801†	-288.8	6.0545 ug/L	3.06946	6.0545 ppb	3.06946	50.70%
U 409.014†	-6946.6	-246.16 ug/L	0.856	-246.16 ppb	0.856	0.35%
V 292.402†	37505.9	224.28 ug/L	2.152	224.28 ppb	2.152	0.96%
Zn 213.857†	80214.1	668.32 ug/L	6.180	668.32 ppb	6.180	0.92%
SiO2†	598502.7	38199 ug/L	263.5	38199 ppb	263.5	0.69%

Sequence No.: 86

Sample ID: 245113009|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 89

Date Collected: 2/4/2010 01:47:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113009|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3836.8	3836.8	96.9 %		01:49:59
1	Y RADIAL	5022.7	5022.7	110.7 %		01:49:39
1	Al 396.153Radial†	62134.5	64325.2	57787 ug/L	57787 ppb	01:49:39
1	Ca 317.933Radial†	10381.2	10698.2	21211 ug/L	21211 ppb	01:49:39
1	Fe 238.204 Radial†	9292.7	9579.3	114090 ug/L	114090 ppb	01:49:39
1	K 766.490 Radial†	53319.2	52000.3	9057.6 ug/L	9057.6 ppb	01:49:39
1	Mg 279.077 IEC†	271.4	276.9	11929 ug/L	11929 ppb	01:49:59
1	Na 589.592 Radial†	636.5	2242.0	642.87 ug/L	642.87 ppb	01:49:39
1	Sr 421.552†	25076.4	25881.0	174.68 ug/L	174.68 ppb	01:49:39
1	Sc 361.383	857749.4	857749.4	99.189 %		01:50:57
1	Y 371.029	771724.7	771724.7	113.14 %		01:50:57
1	Ag 328.068†	-6957.0	-7449.0	5.2947 ug/L	5.2947 ppb	01:50:57
1	As 188.979†	-45.9	-10.8	55.889 ug/L	55.889 ppb	01:51:17
1	B 249.677†	488.1	1098.9	4.7245 ug/L	4.7245 ppb	01:50:57
1	Ba 233.527†	120020.8	121020.0	915.67 ug/L	915.67 ppb	01:50:57
1	Be 313.107†	-8408.9	-4533.6	7.1800 ug/L	7.1800 ppb	01:50:57
1	Cd 226.502†	863.7	1070.4	-0.6295 ug/L	-0.6295 ppb	01:51:17
1	Co 228.616†	1733.0	1833.6	24.798 ug/L	24.798 ppb	01:51:17
1	Cr 267.716†	6646.5	6611.8	73.089 ug/L	73.089 ppb	01:51:17
1	Cu 324.752†	41710.0	35202.7	107.21 ug/L	107.21 ppb	01:50:57
1	Mn 257.610†	2718590.4	2740321.8	2816.3 ug/L	2816.3 ppb	01:50:57
1	Mo 202.031†	3.9	1.1	9.1862 ug/L	9.1862 ppb	01:51:17
1	Ni 231.604†	2569.3	2507.1	56.943 ug/L	56.943 ppb	01:51:17
1	P 214.914†	2339.0	2123.6	981.89 ug/L	981.89 ppb	01:51:17
1	Pb 220.353†	1367.5	1449.8	160.40 ug/L	160.40 ppb	01:51:17
1	S 181.975 Axial†	758.0	712.3	851.11 ug/L	851.11 ppb	01:51:17
1	Sb 206.836†	76.3	41.4	-2.5031 ug/L	-2.5031 ppb	01:51:17
1	Se 196.026†	-611.2	-586.6	33.436 ug/L	33.436 ppb	01:51:17
1	Si 251.611†	765631.8	771401.1	22952 ug/L	22952 ppb	01:50:57
1	Sn 189.927†	-76.9	-95.2	-10.313 ug/L	-10.313 ppb	01:51:17
1	Ti 334.940†	2481355.3	2503334.5	3845.4 ug/L	3845.4 ppb	01:50:57
1	Tl 190.801†	-207.9	-166.4	-2.7251 ug/L	-2.7251 ppb	01:51:17
1	U 409.014†	-11639.8	-7410.2	-253.65 ug/L	-253.65 ppb	01:50:57
1	V 292.402†	22413.7	24304.8	147.77 ug/L	147.77 ppb	01:51:17
1	Zn 213.857†	49394.5	49053.2	408.04 ug/L	408.04 ppb	01:50:57
1	SiO2†	779341.1	785179.7	50114 ug/L	50114 ppb	01:52:17
2	Sc Radial	3870.6	3870.6	97.7 %		01:50:24
2	Y RADIAL	5032.8	5032.8	110.9 %		01:50:04
2	Al 396.153Radial†	62455.4	64092.9	57578 ug/L	57578 ppb	01:50:04
2	Ca 317.933Radial†	10371.5	10594.6	21005 ug/L	21005 ppb	01:50:04
2	Fe 238.204 Radial†	9310.1	9513.2	113300 ug/L	113300 ppb	01:50:04
2	K 766.490 Radial†	53325.1	51525.4	8974.9 ug/L	8974.9 ppb	01:50:04
2	Mg 279.077 IEC†	273.3	276.3	11907 ug/L	11907 ppb	01:50:24
2	Na 589.592 Radial†	585.4	2184.1	626.24 ug/L	626.24 ppb	01:50:04
2	Sr 421.552†	25206.8	25788.2	174.06 ug/L	174.06 ppb	01:50:04
2	Sc 361.383	869337.2	869337.2	100.53 %		01:51:24
2	Y 371.029	783339.3	783339.3	114.84 %		01:51:24
2	Ag 328.068†	-6837.8	-7236.9	5.9732 ug/L	5.9732 ppb	01:51:24
2	As 188.979†	-55.8	-20.0	52.178 ug/L	52.178 ppb	01:51:44
2	B 249.677†	457.6	1062.0	4.0693 ug/L	4.0693 ppb	01:51:24
2	Ba 233.527†	121635.8	121013.6	915.59 ug/L	915.59 ppb	01:51:24
2	Be 313.107†	-8615.2	-4625.8	7.1414 ug/L	7.1414 ppb	01:51:24
2	Cd 226.502†	829.8	1025.1	-1.0193 ug/L	-1.0193 ppb	01:51:44
2	Co 228.616†	1710.7	1788.1	23.971 ug/L	23.971 ppb	01:51:44
2	Cr 267.716†	6644.0	6520.0	72.086 ug/L	72.086 ppb	01:51:44
2	Cu 324.752†	42044.8	34975.2	106.51 ug/L	106.51 ppb	01:51:24
2	Mn 257.610†	2752545.8	2737565.0	2813.4 ug/L	2813.4 ppb	01:51:24
2	Mo 202.031†	-0.0	-2.9	8.8511 ug/L	8.8511 ppb	01:51:44
2	Ni 231.604†	2556.2	2459.6	55.865 ug/L	55.865 ppb	01:51:44

2	P 214.914†	2314.2	2067.6	954.09 ug/L	954.09 ppb	01:51:44
2	Pb 220.353†	1357.1	1421.1	157.28 ug/L	157.28 ppb	01:51:44
2	S 181.975 Axial†	756.6	700.7	837.07 ug/L	837.07 ppb	01:51:44
2	Sb 206.836†	94.7	58.7	2.8089 ug/L	2.8089 ppb	01:51:44
2	Se 196.026†	-596.5	-563.8	43.365 ug/L	43.365 ppb	01:51:44
2	Si 251.611†	774420.0	769854.2	22906 ug/L	22906 ppb	01:51:24
2	Sn 189.927†	-90.3	-107.4	-12.345 ug/L	-12.345 ppb	01:51:44
2	Ti 334.940†	2512821.3	2501289.4	3842.3 ug/L	3842.3 ppb	01:51:24
2	Tl 190.801†	-205.5	-161.2	-1.2644 ug/L	-1.2644 ppb	01:51:44
2	U 409.014†	-11391.3	-7006.6	-240.46 ug/L	-240.46 ppb	01:51:24
2	V 292.402†	22335.4	23925.7	145.28 ug/L	145.28 ppb	01:51:44
2	Zn 213.857†	49921.7	48913.8	406.93 ug/L	406.93 ppb	01:51:24
2	SiO2†	772518.3	767919.6	49012 ug/L	49012 ppb	01:52:23
3	Sc Radial	3865.2	3865.2	97.6 %		01:50:49
3	Y RADIAL	4961.7	4961.7	109.3 %		01:50:29
3	Al 396.153Radial†	61683.2	63391.7	56948 ug/L	56948 ppb	01:50:29
3	Ca 317.933Radial†	10247.9	10483.0	20784 ug/L	20784 ppb	01:50:29
3	Fe 238.204 Radial†	9162.7	9375.6	111670 ug/L	111670 ppb	01:50:29
3	K 766.490 Radial†	52929.8	51197.2	8917.7 ug/L	8917.7 ppb	01:50:29
3	Mg 279.077 IEC†	273.0	276.4	11914 ug/L	11914 ppb	01:50:49
3	Na 589.592 Radial†	616.6	2216.8	635.65 ug/L	635.65 ppb	01:50:29
3	Sr 421.552†	24824.8	25433.2	171.66 ug/L	171.66 ppb	01:50:29
3	Sc 361.383	865557.7	865557.7	100.09 %		01:51:51
3	Y 371.029	781396.0	781396.0	114.56 %		01:51:51
3	Ag 328.068†	-6840.0	-7268.9	5.2857 ug/L	5.2857 ppb	01:51:51
3	As 188.979†	-44.4	-8.9	56.018 ug/L	56.018 ppb	01:52:11
3	B 249.677†	446.6	1053.0	4.1437 ug/L	4.1437 ppb	01:51:51
3	Ba 233.527†	121292.2	121198.7	916.94 ug/L	916.94 ppb	01:51:51
3	Be 313.107†	-8615.8	-4663.8	7.1263 ug/L	7.1263 ppb	01:51:51
3	Cd 226.502†	853.1	1051.9	-0.5700 ug/L	-0.5700 ppb	01:52:11
3	Co 228.616†	1709.2	1794.0	24.108 ug/L	24.108 ppb	01:52:11
3	Cr 267.716†	6689.3	6594.0	72.847 ug/L	72.847 ppb	01:52:11
3	Cu 324.752†	42022.3	35135.4	106.88 ug/L	106.88 ppb	01:51:51
3	Mn 257.610†	2741051.5	2738037.1	2813.7 ug/L	2813.7 ppb	01:51:51
3	Mo 202.031†	6.8	4.0	9.1882 ug/L	9.1882 ppb	01:52:11
3	Ni 231.604†	2566.5	2480.9	56.350 ug/L	56.350 ppb	01:52:11
3	P 214.914†	2309.6	2073.0	957.92 ug/L	957.92 ppb	01:52:11
3	Pb 220.353†	1339.9	1409.9	156.07 ug/L	156.07 ppb	01:52:11
3	S 181.975 Axial†	756.7	704.1	841.35 ug/L	841.35 ppb	01:52:11
3	Sb 206.836†	86.8	51.2	0.5549 ug/L	0.5549 ppb	01:52:11
3	Se 196.026†	-591.2	-561.2	39.764 ug/L	39.764 ppb	01:52:11
3	Si 251.611†	771635.9	770436.4	22923 ug/L	22923 ppb	01:51:51
3	Sn 189.927†	-89.8	-107.4	-12.398 ug/L	-12.398 ppb	01:52:11
3	Ti 334.940†	2501285.8	2500679.0	3841.3 ug/L	3841.3 ppb	01:51:51
3	Tl 190.801†	-198.6	-155.2	0.4327 ug/L	0.4327 ppb	01:52:11
3	U 409.014†	-11371.1	-7035.9	-241.23 ug/L	-241.23 ppb	01:51:51
3	V 292.402†	22487.7	24174.9	147.26 ug/L	147.26 ppb	01:52:11
3	Zn 213.857†	49744.0	48953.2	407.42 ug/L	407.42 ppb	01:51:51
3	SiO2†	768238.7	766999.4	48953 ug/L	48953 ppb	01:52:29

Mean Data: 245113009|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	864214.7	99.937 %		0.6834				0.68%
Sc Radial	3857.5	97.4 %		0.46				0.47%
Y 371.029	778820.0	114.18 %		0.912				0.80%
Y RADIAL	5005.7	110.3 %		0.85				0.77%
Ag 328.068†	-7318.3	5.5179 ug/L		0.39433	5.5179 ppb		0.39433	7.15%
Al 396.153Radial†	63936.6	57438 ug/L		436.6	57438 ppb		436.6	0.76%
As 188.979†	-13.3	54.695 ug/L		2.1806	54.695 ppb		2.1806	3.99%
B 249.677†	1071.3	4.3125 ug/L		0.35876	4.3125 ppb		0.35876	8.32%
Ba 233.527†	121077.4	916.07 ug/L		0.757	916.07 ppb		0.757	0.08%
Be 313.107†	-4607.7	7.1492 ug/L		0.02767	7.1492 ppb		0.02767	0.39%
Ca 317.933Radial†	10591.9	21000 ug/L		213.4	21000 ppb		213.4	1.02%
Cd 226.502†	1049.1	-0.7396 ug/L		0.24405	-0.7396 ppb		0.24405	33.00%
Co 228.616†	1805.2	24.292 ug/L		0.4434	24.292 ppb		0.4434	1.83%
Cr 267.716†	6575.3	72.674 ug/L		0.5235	72.674 ppb		0.5235	0.72%
Cu 324.752†	35104.4	106.87 ug/L		0.351	106.87 ppb		0.351	0.33%
Fe 238.204 Radial†	9489.4	113020 ug/L		1237.5	113020 ppb		1237.5	1.09%
K 766.490 Radial†	51574.3	8983.4 ug/L		70.33	8983.4 ppb		70.33	0.78%

Mg 279.077 IEC†	276.5	11917 ug/L	11.2	11917 ppb	11.2	0.09%
Mn 257.610†	2738641.3	2814.4 ug/L	1.59	2814.4 ppb	1.59	0.06%
Mo 202.031†	0.8	9.0752 ug/L	0.19407	9.0752 ppb	0.19407	2.14%
Na 589.592 Radial†	2214.3	634.92 ug/L	8.336	634.92 ppb	8.336	1.31%
Ni 231.604†	2482.5	56.386 ug/L	0.5401	56.386 ppb	0.5401	0.96%
P 214.914†	2088.1	964.64 ug/L	15.066	964.64 ppb	15.066	1.56%
Pb 220.353†	1426.9	157.91 ug/L	2.233	157.91 ppb	2.233	1.41%
S 181.975 Axial†	705.7	843.18 ug/L	7.198	843.18 ppb	7.198	0.85%
Sb 206.836†	50.4	0.2869 ug/L	2.66611	0.2869 ppb	2.66611	929.38%
Se 196.026†	-570.5	38.855 ug/L	5.0267	38.855 ppb	5.0267	12.94%
Si 251.611†	770563.9	22927 ug/L	23.2	22927 ppb	23.2	0.10%
Sn 189.927†	-103.3	-11.685 ug/L	1.1891	-11.685 ppb	1.1891	10.18%
Sr 421.552†	25700.8	173.46 ug/L	1.595	173.46 ppb	1.595	0.92%
Ti 334.940†	2501767.6	3843.0 ug/L	2.16	3843.0 ppb	2.16	0.06%
Tl 190.801†	-161.0	-1.1856 ug/L	1.58037	-1.1856 ppb	1.58037	133.29%
U 409.014†	-7150.9	-245.11 ug/L	7.404	-245.11 ppb	7.404	3.02%
V 292.402†	24135.1	146.77 ug/L	1.315	146.77 ppb	1.315	0.90%
Zn 213.857†	48973.4	407.46 ug/L	0.555	407.46 ppb	0.555	0.14%
SiO2†	773366.2	49360 ug/L	653.6	49360 ppb	653.6	1.32%

Sequence No.: 87

Sample ID: 245113010|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 90

Date Collected: 2/4/2010 01:54:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113010|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3711.1	3711.1	93.7 %		01:56:54
1	Y RADIAL	4832.6	4832.6	106.5 %		01:56:34
1	Al 396.153Radial†	47061.0	50413.1	45289 ug/L	45289 ppb	01:56:34
1	Ca 317.933Radial†	6340.8	6749.8	13382 ug/L	13382 ppb	01:56:34
1	Fe 238.204 Radial†	8844.3	9425.6	112260 ug/L	112260 ppb	01:56:34
1	K 766.490 Radial†	38436.8	37984.1	6616.6 ug/L	6616.6 ppb	01:56:34
1	Mg 279.077 IEC†	172.9	181.1	7766.0 ug/L	7766.0 ppb	01:56:54
1	Na 589.592 Radial†	-72.9	1507.3	432.19 ug/L	432.19 ppb	01:56:34
1	Sr 421.552†	14610.2	15589.7	105.22 ug/L	105.22 ppb	01:56:34
1	Sc 361.383	849736.4	849736.4	98.263 %		01:57:52
1	Y 371.029	764852.2	764852.2	112.13 %		01:57:52
1	Ag 328.068†	-7148.4	-7709.9	3.5855 ug/L	3.5855 ppb	01:57:58
1	As 188.979†	-102.9	-69.3	43.939 ug/L	43.939 ppb	01:58:18
1	B 249.677†	396.6	1010.4	3.1356 ug/L	3.1356 ppb	01:57:58
1	Ba 233.527†	87560.1	89126.3	675.33 ug/L	675.33 ppb	01:57:58
1	Be 313.107†	-19173.8	-15568.7	6.2382 ug/L	6.2382 ppb	01:57:58
1	Cd 226.502†	853.6	1068.3	-0.4613 ug/L	-0.4613 ppb	01:58:18
1	Co 228.616†	1813.8	1932.3	23.951 ug/L	23.951 ppb	01:58:18
1	Cr 267.716†	5611.9	5622.1	62.485 ug/L	62.485 ppb	01:57:58
1	Cu 324.752†	17716.7	11181.7	38.143 ug/L	38.143 ppb	01:57:58
1	Mn 257.610†	2771136.1	2819642.4	2897.5 ug/L	2897.5 ppb	01:57:52
1	Mo 202.031†	38.3	36.2	11.339 ug/L	11.339 ppb	01:58:18
1	Ni 231.604†	1993.9	1945.9	44.192 ug/L	44.192 ppb	01:58:18
1	P 214.914†	1810.0	1607.6	731.62 ug/L	731.62 ppb	01:58:18
1	Pb 220.353†	676.6	759.8	82.305 ug/L	82.305 ppb	01:58:18
1	S 181.975 Axial†	406.2	361.4	428.88 ug/L	428.88 ppb	01:58:18
1	Sb 206.836†	79.0	44.9	-5.0935 ug/L	-5.0935 ppb	01:58:18
1	Se 196.026†	-606.3	-587.5	27.524 ug/L	27.524 ppb	01:58:18
1	Si 251.611†	697331.5	709172.1	21100 ug/L	21100 ppb	01:57:52
1	Sn 189.927†	-67.4	-86.2	-10.080 ug/L	-10.080 ppb	01:58:18
1	Ti 334.940†	3253381.0	3312601.2	5087.2 ug/L	5087.2 ppb	01:57:52
1	Tl 190.801†	-230.6	-191.5	0.7987 ug/L	0.7987 ppb	01:58:18
1	U 409.014†	-10077.3	-5930.7	-205.40 ug/L	-205.40 ppb	01:57:52
1	V 292.402†	23094.3	25210.5	153.06 ug/L	153.06 ppb	01:57:58
1	Zn 213.857†	47190.0	47279.3	393.21 ug/L	393.21 ppb	01:57:58
1	SiO2†	706968.5	718936.5	45886 ug/L	45886 ppb	01:59:27
2	Sc Radial	3727.6	3727.6	94.1 %		01:57:19
2	Y RADIAL	4818.0	4818.0	106.2 %		01:56:59
2	Al 396.153Radial†	47176.3	50313.5	45199 ug/L	45199 ppb	01:56:59
2	Ca 317.933Radial†	6363.8	6744.3	13371 ug/L	13371 ppb	01:56:59
2	Fe 238.204 Radial†	8843.2	9382.8	111750 ug/L	111750 ppb	01:56:59
2	K 766.490 Radial†	38330.4	37689.6	6565.3 ug/L	6565.3 ppb	01:56:59
2	Mg 279.077 IEC†	171.0	178.3	7644.3 ug/L	7644.3 ppb	01:57:19
2	Na 589.592 Radial†	-182.9	1390.9	398.80 ug/L	398.80 ppb	01:56:59
2	Sr 421.552†	14627.4	15538.9	104.87 ug/L	104.87 ppb	01:56:59
2	Sc 361.383	865024.7	865024.7	100.03 %		01:58:24
2	Y 371.029	779847.2	779847.2	114.33 %		01:58:24
2	Ag 328.068†	-7042.6	-7475.6	4.4613 ug/L	4.4613 ppb	01:58:30
2	As 188.979†	-102.1	-66.6	44.877 ug/L	44.877 ppb	01:58:50
2	B 249.677†	339.5	946.2	1.8554 ug/L	1.8554 ppb	01:58:30
2	Ba 233.527†	87184.4	87175.9	660.61 ug/L	660.61 ppb	01:58:30
2	Be 313.107†	-19167.8	-15217.9	6.3745 ug/L	6.3745 ppb	01:58:30
2	Cd 226.502†	840.7	1040.1	-0.7034 ug/L	-0.7034 ppb	01:58:50
2	Co 228.616†	1826.9	1912.7	23.573 ug/L	23.573 ppb	01:58:50
2	Cr 267.716†	5554.8	5464.0	60.783 ug/L	60.783 ppb	01:58:30
2	Cu 324.752†	17731.8	10878.1	37.244 ug/L	37.244 ppb	01:58:30
2	Mn 257.610†	2824567.7	2823215.3	2901.1 ug/L	2901.1 ppb	01:58:24
2	Mo 202.031†	39.4	36.5	11.323 ug/L	11.323 ppb	01:58:50
2	Ni 231.604†	1971.2	1887.4	42.863 ug/L	42.863 ppb	01:58:50

2	P 214.914†	1808.5	1573.5	714.88 ug/L	714.88 ppb	01:58:50
2	Pb 220.353†	659.2	730.2	79.097 ug/L	79.097 ppb	01:58:50
2	S 181.975 Axial†	409.7	357.6	424.26 ug/L	424.26 ppb	01:58:50
2	Sb 206.836†	88.2	52.6	-2.7134 ug/L	-2.7134 ppb	01:58:50
2	Se 196.026†	-626.6	-596.9	20.864 ug/L	20.864 ppb	01:58:50
2	Si 251.611†	710525.2	709819.3	21119 ug/L	21119 ppb	01:58:24
2	Sn 189.927†	-55.4	-73.1	-7.9521 ug/L	-7.9521 ppb	01:58:50
2	Ti 334.940†	3316687.2	3317371.9	5094.6 ug/L	5094.6 ppb	01:58:24
2	Tl 190.801†	-223.1	-179.8	4.2090 ug/L	4.2090 ppb	01:58:50
2	U 409.014†	-10208.0	-5880.1	-203.70 ug/L	-203.70 ppb	01:58:24
2	V 292.402†	23009.4	24710.3	149.66 ug/L	149.66 ppb	01:58:30
2	Zn 213.857†	47029.7	46270.3	384.64 ug/L	384.64 ppb	01:58:30
2	SiO2†	709703.2	708954.7	45248 ug/L	45248 ppb	01:59:33
3	Sc Radial	3696.4	3696.4	93.3 %		01:57:44
3	Y RADIAL	4893.5	4893.5	107.8 %		01:57:24
3	Al 396.153Radial†	48079.0	51704.0	46448 ug/L	46448 ppb	01:57:24
3	Ca 317.933Radial†	6500.9	6948.3	13776 ug/L	13776 ppb	01:57:24
3	Fe 238.204 Radial†	9033.8	9666.3	115130 ug/L	115130 ppb	01:57:24
3	K 766.490 Radial†	39256.5	39025.6	6798.0 ug/L	6798.0 ppb	01:57:24
3	Mg 279.077 IEC†	169.6	178.4	7641.3 ug/L	7641.3 ppb	01:57:44
3	Na 589.592 Radial†	-59.4	1521.5	436.27 ug/L	436.27 ppb	01:57:24
3	Sr 421.552†	14973.4	16040.9	108.26 ug/L	108.26 ppb	01:57:24
3	Sc 361.383	861140.0	861140.0	99.581 %		01:58:56
3	Y 371.029	774885.5	774885.5	113.60 %		01:58:56
3	Ag 328.068†	-7138.6	-7603.8	5.0123 ug/L	5.0123 ppb	01:59:02
3	As 188.979†	-104.6	-69.6	44.582 ug/L	44.582 ppb	01:59:22
3	B 249.677†	358.8	967.1	1.7514 ug/L	1.7514 ppb	01:59:02
3	Ba 233.527†	86782.6	87165.6	660.63 ug/L	660.63 ppb	01:59:02
3	Be 313.107†	-18908.9	-15044.4	6.4417 ug/L	6.4417 ppb	01:59:02
3	Cd 226.502†	841.5	1044.6	-1.0047 ug/L	-1.0047 ppb	01:59:22
3	Co 228.616†	1806.0	1900.0	23.278 ug/L	23.278 ppb	01:59:22
3	Cr 267.716†	5546.0	5480.2	61.021 ug/L	61.021 ppb	01:59:02
3	Cu 324.752†	17613.8	10839.6	37.312 ug/L	37.312 ppb	01:59:02
3	Mn 257.610†	2816631.4	2827983.6	2906.3 ug/L	2906.3 ppb	01:58:56
3	Mo 202.031†	25.4	22.6	10.644 ug/L	10.644 ppb	01:59:22
3	Ni 231.604†	1967.0	1892.0	42.968 ug/L	42.968 ppb	01:59:22
3	P 214.914†	1779.7	1552.7	701.90 ug/L	701.90 ppb	01:59:22
3	Pb 220.353†	656.8	730.8	79.112 ug/L	79.112 ppb	01:59:22
3	S 181.975 Axial†	403.3	353.1	418.55 ug/L	418.55 ppb	01:59:22
3	Sb 206.836†	88.6	53.5	-2.5654 ug/L	-2.5654 ppb	01:59:22
3	Se 196.026†	-617.3	-590.4	34.775 ug/L	34.775 ppb	01:59:22
3	Si 251.611†	709396.6	711890.3	21181 ug/L	21181 ppb	01:58:56
3	Sn 189.927†	-61.1	-79.0	-8.7926 ug/L	-8.7926 ppb	01:59:22
3	Ti 334.940†	3304096.0	3319685.1	5098.2 ug/L	5098.2 ppb	01:58:56
3	Tl 190.801†	-234.9	-192.6	0.6037 ug/L	0.6037 ppb	01:59:22
3	U 409.014†	-10179.2	-5897.3	-204.64 ug/L	-204.64 ppb	01:58:56
3	V 292.402†	22828.3	24632.1	148.60 ug/L	148.60 ppb	01:59:02
3	Zn 213.857†	46733.0	46184.5	383.58 ug/L	383.58 ppb	01:59:02
3	SiO2†	706494.3	708932.9	45247 ug/L	45247 ppb	01:59:38

Mean Data: 245113010|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	858633.7	99.291 %		0.9189			0.93%
Sc Radial	3711.7	93.7 %		0.39			0.42%
Y 371.029	773195.0	113.36 %		1.120			0.99%
Y RADIAL	4848.0	106.8 %		0.88			0.83%
Ag 328.068†	-7596.4	4.3530 ug/L		0.71958	4.3530 ppb	0.71958	16.53%
Al 396.153Radial†	50810.2	45646 ug/L		696.8	45646 ppb	696.8	1.53%
As 188.979†	-68.5	44.466 ug/L		0.4799	44.466 ppb	0.4799	1.08%
B 249.677†	974.6	2.2475 ug/L		0.77086	2.2475 ppb	0.77086	34.30%
Ba 233.527†	87822.6	665.52 ug/L		8.491	665.52 ppb	8.491	1.28%
Be 313.107†	-15277.0	6.3514 ug/L		0.10368	6.3514 ppb	0.10368	1.63%
Ca 317.933Radial†	6814.1	13510 ug/L		230.4	13510 ppb	230.4	1.71%
Cd 226.502†	1051.0	-0.7231 ug/L		0.27226	-0.7231 ppb	0.27226	37.65%
Co 228.616†	1915.0	23.601 ug/L		0.3374	23.601 ppb	0.3374	1.43%
Cr 267.716†	5522.1	61.430 ug/L		0.9216	61.430 ppb	0.9216	1.50%
Cu 324.752†	10966.5	37.566 ug/L		0.5006	37.566 ppb	0.5006	1.33%
Fe 238.204 Radial†	9491.6	113050 ug/L		1820.2	113050 ppb	1820.2	1.61%
K 766.490 Radial†	38233.1	6660.0 ug/L		122.30	6660.0 ppb	122.30	1.84%

Mg 279.077 IEC†	179.3	7683.9 ug/L	71.12	7683.9 ppb	71.12	0.93%
Mn 257.610†	2823613.7	2901.6 ug/L	4.44	2901.6 ppb	4.44	0.15%
Mo 202.031†	31.8	11.102 ug/L	0.3966	11.102 ppb	0.3966	3.57%
Na 589.592 Radial†	1473.2	422.42 ug/L	20.554	422.42 ppb	20.554	4.87%
Ni 231.604†	1908.5	43.341 ug/L	0.7390	43.341 ppb	0.7390	1.70%
P 214.914†	1577.9	716.13 ug/L	14.896	716.13 ppb	14.896	2.08%
Pb 220.353†	740.2	80.171 ug/L	1.8480	80.171 ppb	1.8480	2.31%
S 181.975 Axial†	357.4	423.89 ug/L	5.175	423.89 ppb	5.175	1.22%
Sb 206.836†	50.3	-3.4575 ug/L	1.41877	-3.4575 ppb	1.41877	41.04%
Se 196.026†	-591.6	27.721 ug/L	6.9575	27.721 ppb	6.9575	25.10%
Si 251.611†	710293.9	21134 ug/L	42.3	21134 ppb	42.3	0.20%
Sn 189.927†	-79.4	-8.9417 ug/L	1.07193	-8.9417 ppb	1.07193	11.99%
Sr 421.552†	15723.2	106.12 ug/L	1.865	106.12 ppb	1.865	1.76%
Ti 334.940†	3316552.7	5093.3 ug/L	5.57	5093.3 ppb	5.57	0.11%
Tl 190.801†	-188.0	1.8705 ug/L	2.02758	1.8705 ppb	2.02758	108.40%
U 409.014†	-5902.7	-204.58 ug/L	0.853	-204.58 ppb	0.853	0.42%
V 292.402†	24851.0	150.44 ug/L	2.329	150.44 ppb	2.329	1.55%
Zn 213.857†	46578.0	387.15 ug/L	5.282	387.15 ppb	5.282	1.36%
SiO2†	712274.7	45460 ug/L	368.2	45460 ppb	368.2	0.81%

Sequence No.: 88

Sample ID: 245113011|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 91

Date Collected: 2/4/2010 02:01:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113011|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3826.1	3826.1	96.6 %		02:04:03
1	Y RADIAL	4730.5	4730.5	104.2 %		02:03:43
1	Al 396.153Radial†	37911.5	39433.9	35425 ug/L	35425 ppb	02:03:43
1	Ca 317.933Radial†	4836.7	4989.7	9892.7 ug/L	9892.7 ppb	02:03:43
1	Fe 238.204 Radial†	11162.1	11540.9	137450 ug/L	137450 ppb	02:03:43
1	K 766.490 Radial†	32724.6	30838.9	5372.0 ug/L	5372.0 ppb	02:03:43
1	Mg 279.077 IEC†	158.6	160.8	6854.9 ug/L	6854.9 ppb	02:04:03
1	Na 589.592 Radial†	1280.0	2909.9	834.38 ug/L	834.38 ppb	02:03:43
1	Sr 421.552†	11187.3	11578.3	78.143 ug/L	78.143 ppb	02:03:43
1	Sc 361.383	828646.4	828646.4	95.824 %		02:05:06
1	Y 371.029	746187.5	746187.5	109.40 %		02:05:01
1	Ag 328.068†	-8356.7	-9156.0	5.6017 ug/L	5.6017 ppb	02:05:06
1	As 188.979†	-113.4	-82.9	52.366 ug/L	52.366 ppb	02:05:26
1	B 249.677†	249.8	867.5	-3.9817 ug/L	-3.9817 ppb	02:05:06
1	Ba 233.527†	55599.9	58041.1	441.90 ug/L	441.90 ppb	02:05:06
1	Be 313.107†	-27250.4	-24494.0	5.2238 ug/L	5.2238 ppb	02:05:06
1	Cd 226.502†	984.6	1227.1	-1.4015 ug/L	-1.4015 ppb	02:05:26
1	Co 228.616†	1591.7	1747.5	18.173 ug/L	18.173 ppb	02:05:26
1	Cr 267.716†	6707.6	6910.9	76.734 ug/L	76.734 ppb	02:05:26
1	Cu 324.752†	16183.5	10040.5	36.201 ug/L	36.201 ppb	02:05:06
1	Mn 257.610†	2420018.2	2524997.3	2598.3 ug/L	2598.3 ppb	02:05:01
1	Mo 202.031†	106.2	108.0	18.144 ug/L	18.144 ppb	02:05:26
1	Ni 231.604†	2302.5	2319.6	52.686 ug/L	52.686 ppb	02:05:26
1	P 214.914†	1393.8	1220.0	512.61 ug/L	512.61 ppb	02:05:26
1	Pb 220.353†	695.6	797.1	81.823 ug/L	81.823 ppb	02:05:26
1	S 181.975 Axial†	569.4	542.3	649.58 ug/L	649.58 ppb	02:05:26
1	Sb 206.836†	108.2	77.3	2.2184 ug/L	2.2184 ppb	02:05:26
1	Se 196.026†	-708.9	-710.3	38.891 ug/L	38.891 ppb	02:05:26
1	Si 251.611†	663030.6	691437.9	20572 ug/L	20572 ppb	02:05:06
1	Sn 189.927†	-2.1	-19.9	0.5928 ug/L	0.5928 ppb	02:05:26
1	Ti 334.940†	3730385.2	3894661.0	5980.5 ug/L	5980.5 ppb	02:05:01
1	Tl 190.801†	-236.5	-203.6	3.3052 ug/L	3.3052 ppb	02:05:26
1	U 409.014†	-9848.8	-5953.3	-209.04 ug/L	-209.04 ppb	02:05:06
1	V 292.402†	23457.7	26187.9	155.27 ug/L	155.27 ppb	02:05:26
1	Zn 213.857†	57193.3	58940.9	490.47 ug/L	490.47 ppb	02:05:06
1	SiO2†	680785.6	709923.8	45310 ug/L	45310 ppb	02:06:35
2	Sc Radial	3822.5	3822.5	96.5 %		02:04:28
2	Y RADIAL	4723.6	4723.6	104.1 %		02:04:08
2	Al 396.153Radial†	37860.8	39418.9	35412 ug/L	35412 ppb	02:04:08
2	Ca 317.933Radial†	4855.5	5013.9	9940.7 ug/L	9940.7 ppb	02:04:08
2	Fe 238.204 Radial†	11162.3	11552.1	137590 ug/L	137590 ppb	02:04:08
2	K 766.490 Radial†	32763.5	30911.7	5384.6 ug/L	5384.6 ppb	02:04:08
2	Mg 279.077 IEC†	156.8	159.1	6782.0 ug/L	6782.0 ppb	02:04:28
2	Na 589.592 Radial†	1384.3	3019.2	865.72 ug/L	865.72 ppb	02:04:08
2	Sr 421.552†	11226.4	11629.9	78.491 ug/L	78.491 ppb	02:04:08
2	Sc 361.383	834215.1	834215.1	96.468 %		02:05:38
2	Y 371.029	748960.2	748960.2	109.80 %		02:05:33
2	Ag 328.068†	-8232.8	-8969.4	6.4963 ug/L	6.4963 ppb	02:05:38
2	As 188.979†	-121.9	-90.9	49.336 ug/L	49.336 ppb	02:05:58
2	B 249.677†	372.9	993.3	-1.3317 ug/L	-1.3317 ppb	02:05:38
2	Ba 233.527†	56041.7	58111.8	442.43 ug/L	442.43 ppb	02:05:38
2	Be 313.107†	-27434.7	-24495.2	5.2221 ug/L	5.2221 ppb	02:05:38
2	Cd 226.502†	991.4	1227.3	-1.4137 ug/L	-1.4137 ppb	02:05:58
2	Co 228.616†	1618.7	1764.4	18.487 ug/L	18.487 ppb	02:05:58
2	Cr 267.716†	6777.5	6936.7	77.013 ug/L	77.013 ppb	02:05:58
2	Cu 324.752†	16271.7	10019.2	36.148 ug/L	36.148 ppb	02:05:38
2	Mn 257.610†	2439417.3	2528248.3	2601.7 ug/L	2601.7 ppb	02:05:33
2	Mo 202.031†	116.2	117.6	18.814 ug/L	18.814 ppb	02:05:58
2	Ni 231.604†	2306.6	2307.8	52.417 ug/L	52.417 ppb	02:05:58

2	P 214.914†	1397.9	1214.6	509.76 ug/L	509.76 ppb	02:05:58
2	Pb 220.353†	699.7	796.5	81.741 ug/L	81.741 ppb	02:05:58
2	S 181.975 Axial†	589.9	559.6	670.54 ug/L	670.54 ppb	02:05:58
2	Sb 206.836†	88.0	55.7	-4.4293 ug/L	-4.4293 ppb	02:05:58
2	Se 196.026†	-705.6	-701.9	43.838 ug/L	43.838 ppb	02:05:58
2	Si 251.611†	669287.2	693304.7	20628 ug/L	20628 ppb	02:05:38
2	Sn 189.927†	-3.4	-21.1	0.3960 ug/L	0.3960 ppb	02:05:58
2	Ti 334.940†	3755091.6	3894285.3	5979.9 ug/L	5979.9 ppb	02:05:33
2	Tl 190.801†	-247.6	-213.4	0.5016 ug/L	0.5016 ppb	02:05:58
2	U 409.014†	-9964.3	-6004.4	-210.71 ug/L	-210.71 ppb	02:05:38
2	V 292.402†	23670.7	26245.2	155.66 ug/L	155.66 ppb	02:05:58
2	Zn 213.857†	57666.2	59032.7	491.25 ug/L	491.25 ppb	02:05:38
2	SiO2†	685977.7	710563.6	45351 ug/L	45351 ppb	02:06:41
3	Sc Radial	3845.5	3845.5	97.1 %		02:04:53
3	Y RADIAL	4788.3	4788.3	105.5 %		02:04:33
3	Al 396.153Radial†	37455.4	38766.3	34826 ug/L	34826 ppb	02:04:33
3	Ca 317.933Radial†	4779.5	4905.5	9725.8 ug/L	9725.8 ppb	02:04:33
3	Fe 238.204 Radial†	10964.5	11279.1	134340 ug/L	134340 ppb	02:04:33
3	K 766.490 Radial†	32359.5	30292.2	5276.7 ug/L	5276.7 ppb	02:04:33
3	Mg 279.077 IEC†	162.0	163.5	6976.8 ug/L	6976.8 ppb	02:04:53
3	Na 589.592 Radial†	1298.8	2922.6	838.00 ug/L	838.00 ppb	02:04:33
3	Sr 421.552†	11019.3	11346.9	76.581 ug/L	76.581 ppb	02:04:33
3	Sc 361.383	836227.2	836227.2	96.700 %		02:06:10
3	Y 371.029	741911.0	741911.0	108.77 %		02:06:04
3	Ag 328.068†	-8359.8	-9080.2	4.8931 ug/L	4.8931 ppb	02:06:10
3	As 188.979†	-121.4	-90.1	48.583 ug/L	48.583 ppb	02:06:30
3	B 249.677†	350.6	969.4	-1.3117 ug/L	-1.3117 ppb	02:06:10
3	Ba 233.527†	56500.6	58446.6	444.85 ug/L	444.85 ppb	02:06:10
3	Be 313.107†	-27181.7	-24165.2	5.2559 ug/L	5.2559 ppb	02:06:10
3	Cd 226.502†	1002.7	1236.5	-0.9816 ug/L	-0.9816 ppb	02:06:30
3	Co 228.616†	1622.6	1764.4	18.606 ug/L	18.606 ppb	02:06:30
3	Cr 267.716†	6779.7	6922.0	76.791 ug/L	76.791 ppb	02:06:30
3	Cu 324.752†	16435.1	10147.6	36.343 ug/L	36.343 ppb	02:06:10
3	Mn 257.610†	2431023.9	2513483.8	2586.2 ug/L	2586.2 ppb	02:06:04
3	Mo 202.031†	105.3	106.1	17.771 ug/L	17.771 ppb	02:06:30
3	Ni 231.604†	2297.9	2293.1	52.083 ug/L	52.083 ppb	02:06:30
3	P 214.914†	1375.4	1187.8	498.53 ug/L	498.53 ppb	02:06:30
3	Pb 220.353†	723.5	819.3	84.422 ug/L	84.422 ppb	02:06:30
3	S 181.975 Axial†	577.9	545.7	653.77 ug/L	653.77 ppb	02:06:30
3	Sb 206.836†	98.9	66.7	-0.9007 ug/L	-0.9007 ppb	02:06:30
3	Se 196.026†	-702.3	-696.8	36.619 ug/L	36.619 ppb	02:06:30
3	Si 251.611†	672528.4	694987.1	20678 ug/L	20678 ppb	02:06:10
3	Sn 189.927†	-3.7	-21.5	0.2513 ug/L	0.2513 ppb	02:06:30
3	Ti 334.940†	3742315.9	3871707.2	5945.2 ug/L	5945.2 ppb	02:06:04
3	Tl 190.801†	-224.3	-188.7	7.2074 ug/L	7.2074 ppb	02:06:30
3	U 409.014†	-9925.0	-5938.9	-208.22 ug/L	-208.22 ppb	02:06:10
3	V 292.402†	23601.6	26114.8	155.26 ug/L	155.26 ppb	02:06:30
3	Zn 213.857†	58127.0	59365.3	494.41 ug/L	494.41 ppb	02:06:10
3	SiO2†	681321.7	704037.6	44935 ug/L	44935 ppb	02:06:46

Mean Data: 245113011|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	833029.6	96.331 %		0.4541			0.47%
Sc Radial	3831.4	96.8 %		0.31			0.32%
Y 371.029	745686.2	109.32 %		0.521			0.48%
Y RADIAL	4747.5	104.6 %		0.78			0.75%
Ag 328.068†	-9068.5	5.6637 ug/L		0.80339	5.6637 ppb	0.80339	14.18%
Al 396.153Radial†	39206.4	35221 ug/L		342.4	35221 ppb	342.4	0.97%
As 188.979†	-88.0	50.095 ug/L		2.0024	50.095 ppb	2.0024	4.00%
B 249.677†	943.4	-2.2084 ug/L		1.53579	-2.2084 ppb	1.53579	69.54%
Ba 233.527†	58199.8	443.06 ug/L		1.576	443.06 ppb	1.576	0.36%
Be 313.107†	-24384.8	5.2340 ug/L		0.01906	5.2340 ppb	0.01906	0.36%
Ca 317.933Radial†	4969.7	9853.1 ug/L		112.82	9853.1 ppb	112.82	1.15%
Cd 226.502†	1230.3	-1.2656 ug/L		0.24600	-1.2656 ppb	0.24600	19.44%
Co 228.616†	1758.8	18.422 ug/L		0.2240	18.422 ppb	0.2240	1.22%
Cr 267.716†	6923.2	76.846 ug/L		0.1474	76.846 ppb	0.1474	0.19%
Cu 324.752†	10069.1	36.231 ug/L		0.1009	36.231 ppb	0.1009	0.28%
Fe 238.204 Radial†	11457.4	136460 ug/L		1839.6	136460 ppb	1839.6	1.35%
K 766.490 Radial†	30681.0	5344.4 ug/L		58.99	5344.4 ppb	58.99	1.10%

Mg 279.077 IEC†	161.2	6871.3 ug/L	98.41	6871.3 ppb	98.41	1.43%
Mn 257.610†	2522243.1	2595.4 ug/L	8.13	2595.4 ppb	8.13	0.31%
Mo 202.031†	110.6	18.243 ug/L	0.5289	18.243 ppb	0.5289	2.90%
Na 589.592 Radial†	2950.6	846.03 ug/L	17.144	846.03 ppb	17.144	2.03%
Ni 231.604†	2306.9	52.395 ug/L	0.3022	52.395 ppb	0.3022	0.58%
P 214.914†	1207.5	506.97 ug/L	7.446	506.97 ppb	7.446	1.47%
Pb 220.353†	804.3	82.662 ug/L	1.5247	82.662 ppb	1.5247	1.84%
S 181.975 Axial†	549.2	657.97 ug/L	11.093	657.97 ppb	11.093	1.69%
Sb 206.836†	66.6	-1.0372 ug/L	3.32594	-1.0372 ppb	3.32594	320.66%
Se 196.026†	-703.0	39.783 ug/L	3.6916	39.783 ppb	3.6916	9.28%
Si 251.611†	693243.3	20626 ug/L	52.8	20626 ppb	52.8	0.26%
Sn 189.927†	-20.8	0.4133 ug/L	0.17141	0.4133 ppb	0.17141	41.47%
Sr 421.552†	11518.3	77.738 ug/L	1.0172	77.738 ppb	1.0172	1.31%
Ti 334.940†	3886884.5	5968.6 ug/L	20.20	5968.6 ppb	20.20	0.34%
Tl 190.801†	-201.9	3.6714 ug/L	3.36787	3.6714 ppb	3.36787	91.73%
U 409.014†	-5965.5	-209.32 ug/L	1.273	-209.32 ppb	1.273	0.61%
V 292.402†	26182.7	155.40 ug/L	0.226	155.40 ppb	0.226	0.15%
Zn 213.857†	59112.9	492.04 ug/L	2.086	492.04 ppb	2.086	0.42%
SiO2†	708175.0	45199 ug/L	229.6	45199 ppb	229.6	0.51%

Sequence No.: 89

Sample ID: 245113012|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 92

Date Collected: 2/4/2010 02:08:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113012|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3781.7	3781.7	95.5 %		02:11:11
1	Y RADIAL	4791.1	4791.1	105.6 %		02:10:51
1	Al 396.153Radial†	34766.2	36600.7	32880 ug/L	32880 ppb	02:10:51
1	Ca 317.933Radial†	4648.8	4851.6	9619.0 ug/L	9619.0 ppb	02:10:51
1	Fe 238.204 Radial†	8061.3	8429.5	100400 ug/L	100400 ppb	02:10:51
1	K 766.490 Radial†	30530.3	28938.7	5040.9 ug/L	5040.9 ppb	02:10:51
1	Mg 279.077 IEC†	144.6	148.1	6341.4 ug/L	6341.4 ppb	02:11:11
1	Na 589.592 Radial†	1939.3	3615.8	1036.8 ug/L	1036.8 ppb	02:10:51
1	Sr 421.552†	9771.7	10231.8	69.049 ug/L	69.049 ppb	02:10:51
1	Sc 361.383	869312.4	869312.4	100.53 %		02:12:10
1	Y 371.029	765242.9	765242.9	112.19 %		02:12:10
1	Ag 328.068†	-6237.2	-6639.7	4.2794 ug/L	4.2794 ppb	02:12:10
1	As 188.979†	-71.7	-35.9	44.551 ug/L	44.551 ppb	02:12:30
1	B 249.677†	100.7	707.0	-1.3489 ug/L	-1.3489 ppb	02:12:10
1	Ba 233.527†	42905.4	42698.8	325.04 ug/L	325.04 ppb	02:12:10
1	Be 313.107†	-15920.7	-11893.2	5.0439 ug/L	5.0439 ppb	02:12:10
1	Cd 226.502†	701.3	897.2	-1.0141 ug/L	-1.0141 ppb	02:12:30
1	Co 228.616†	1169.4	1249.6	13.511 ug/L	13.511 ppb	02:12:30
1	Cr 267.716†	9104.4	8967.7	97.875 ug/L	97.875 ppb	02:12:30
1	Cu 324.752†	19680.5	12729.2	41.964 ug/L	41.964 ppb	02:12:10
1	Mn 257.610†	1938707.5	1928065.5	1983.6 ug/L	1983.6 ppb	02:12:10
1	Mo 202.031†	79.7	76.5	13.120 ug/L	13.120 ppb	02:12:30
1	Ni 231.604†	2633.8	2536.9	57.627 ug/L	57.627 ppb	02:12:30
1	P 214.914†	1555.2	1312.6	587.30 ug/L	587.30 ppb	02:12:30
1	Pb 220.353†	383.7	452.9	47.146 ug/L	47.146 ppb	02:12:30
1	S 181.975 Axial†	786.7	730.6	877.96 ug/L	877.96 ppb	02:12:30
1	Sb 206.836†	63.2	27.3	-6.4432 ug/L	-6.4432 ppb	02:12:30
1	Se 196.026†	-546.9	-514.5	30.630 ug/L	30.630 ppb	02:12:30
1	Si 251.611†	653350.6	649440.6	19323 ug/L	19323 ppb	02:12:10
1	Sn 189.927†	-25.2	-42.7	-3.7771 ug/L	-3.7771 ppb	02:12:30
1	Ti 334.940†	2622469.0	2610434.3	4008.8 ug/L	4008.8 ppb	02:12:10
1	Tl 190.801†	-189.6	-145.4	0.8058 ug/L	0.8058 ppb	02:12:30
1	U 409.014†	-10717.2	-6336.3	-217.30 ug/L	-217.30 ppb	02:12:10
1	V 292.402†	15736.5	17361.9	101.42 ug/L	101.42 ppb	02:12:30
1	Zn 213.857†	46038.3	45052.2	375.22 ug/L	375.22 ppb	02:12:10
1	SiO2†	649568.0	645635.0	41207 ug/L	41207 ppb	02:13:29
2	Sc Radial	3794.2	3794.2	95.8 %		02:11:36
2	Y RADIAL	4865.7	4865.7	107.2 %		02:11:16
2	Al 396.153Radial†	35355.8	37096.0	33325 ug/L	33325 ppb	02:11:16
2	Ca 317.933Radial†	4744.0	4934.9	9784.1 ug/L	9784.1 ppb	02:11:16
2	Fe 238.204 Radial†	8165.8	8510.7	101370 ug/L	101370 ppb	02:11:16
2	K 766.490 Radial†	31085.3	29412.5	5123.5 ug/L	5123.5 ppb	02:11:16
2	Mg 279.077 IEC†	142.7	145.7	6232.9 ug/L	6232.9 ppb	02:11:36
2	Na 589.592 Radial†	1965.0	3635.9	1042.5 ug/L	1042.5 ppb	02:11:16
2	Sr 421.552†	9935.5	10369.1	69.975 ug/L	69.975 ppb	02:11:16
2	Sc 361.383	874181.9	874181.9	101.09 %		02:12:36
2	Y 371.029	768676.2	768676.2	112.69 %		02:12:36
2	Ag 328.068†	-6274.7	-6642.2	4.5917 ug/L	4.5917 ppb	02:12:36
2	As 188.979†	-87.1	-50.7	39.165 ug/L	39.165 ppb	02:12:57
2	B 249.677†	131.9	737.2	-0.8621 ug/L	-0.8621 ppb	02:12:36
2	Ba 233.527†	43281.8	42833.4	326.08 ug/L	326.08 ppb	02:12:36
2	Be 313.107†	-15848.0	-11733.2	5.1151 ug/L	5.1151 ppb	02:12:36
2	Cd 226.502†	678.0	870.3	-1.3963 ug/L	-1.3963 ppb	02:12:57
2	Co 228.616†	1161.4	1235.3	13.216 ug/L	13.216 ppb	02:12:57
2	Cr 267.716†	9049.6	8863.1	96.778 ug/L	96.778 ppb	02:12:57
2	Cu 324.752†	19873.2	12810.7	42.252 ug/L	42.252 ppb	02:12:36
2	Mn 257.610†	1955417.9	1933853.0	1989.6 ug/L	1989.6 ppb	02:12:36
2	Mo 202.031†	73.7	70.1	12.759 ug/L	12.759 ppb	02:12:57
2	Ni 231.604†	2630.8	2519.2	57.227 ug/L	57.227 ppb	02:12:57

2	P 214.914†	1552.4	1301.2	580.80 ug/L	580.80 ppb	02:12:57
2	Pb 220.353†	389.1	456.1	47.506 ug/L	47.506 ppb	02:12:57
2	S 181.975 Axial†	785.8	725.4	871.59 ug/L	871.59 ppb	02:12:57
2	Sb 206.836†	83.9	47.5	-0.3338 ug/L	-0.3338 ppb	02:12:57
2	Se 196.026†	-536.4	-501.1	40.862 ug/L	40.862 ppb	02:12:57
2	Si 251.611†	659031.3	651439.8	19382 ug/L	19382 ppb	02:12:36
2	Sn 189.927†	-34.7	-52.0	-5.2469 ug/L	-5.2469 ppb	02:12:57
2	Ti 334.940†	2641987.5	2615210.8	4016.1 ug/L	4016.1 ppb	02:12:36
2	Tl 190.801†	-193.2	-147.9	0.1982 ug/L	0.1982 ppb	02:12:57
2	U 409.014†	-10951.4	-6508.6	-222.99 ug/L	-222.99 ppb	02:12:36
2	V 292.402†	15637.0	17176.3	99.966 ug/L	99.966 ppb	02:12:57
2	Zn 213.857†	46459.0	45213.2	376.51 ug/L	376.51 ppb	02:12:36
2	SiO2†	654331.4	646747.6	41278 ug/L	41278 ppb	02:13:35
3	Sc Radial	3804.8	3804.8	96.1 %		02:12:01
3	Y RADIAL	4841.4	4841.4	106.7 %		02:11:41
3	Al 396.153Radial†	35054.8	36680.1	32952 ug/L	32952 ppb	02:11:41
3	Ca 317.933Radial†	4701.1	4876.5	9668.3 ug/L	9668.3 ppb	02:11:41
3	Fe 238.204 Radial†	8068.9	8386.2	99882 ug/L	99882 ppb	02:11:41
3	K 766.490 Radial†	30840.6	29067.5	5063.4 ug/L	5063.4 ppb	02:11:41
3	Mg 279.077 IEC†	144.1	146.6	6276.7 ug/L	6276.7 ppb	02:12:01
3	Na 589.592 Radial†	1882.8	3544.7	1016.4 ug/L	1016.4 ppb	02:11:41
3	Sr 421.552†	9843.1	10244.1	69.131 ug/L	69.131 ppb	02:11:41
3	Sc 361.383	861163.5	861163.5	99.584 %		02:13:03
3	Y 371.029	757585.2	757585.2	111.07 %		02:13:03
3	Ag 328.068†	-6243.3	-6704.5	3.8162 ug/L	3.8162 ppb	02:13:03
3	As 188.979†	-87.4	-52.3	38.203 ug/L	38.203 ppb	02:13:24
3	B 249.677†	89.6	696.7	-1.4822 ug/L	-1.4822 ppb	02:13:03
3	Ba 233.527†	42658.8	42855.0	326.20 ug/L	326.20 ppb	02:13:03
3	Be 313.107†	-15610.0	-11731.2	5.1118 ug/L	5.1118 ppb	02:13:03
3	Cd 226.502†	667.9	870.3	-1.2432 ug/L	-1.2432 ppb	02:13:24
3	Co 228.616†	1156.2	1247.4	13.465 ug/L	13.465 ppb	02:13:24
3	Cr 267.716†	9007.5	8956.1	97.744 ug/L	97.744 ppb	02:13:24
3	Cu 324.752†	19627.8	12861.5	42.320 ug/L	42.320 ppb	02:13:03
3	Mn 257.610†	1924550.7	1932098.7	1987.6 ug/L	1987.6 ppb	02:13:03
3	Mo 202.031†	70.1	67.5	12.471 ug/L	12.471 ppb	02:13:24
3	Ni 231.604†	2622.7	2550.5	57.937 ug/L	57.937 ppb	02:13:24
3	P 214.914†	1535.1	1307.0	584.84 ug/L	584.84 ppb	02:13:24
3	Pb 220.353†	388.2	461.0	48.102 ug/L	48.102 ppb	02:13:24
3	S 181.975 Axial†	782.7	734.0	882.01 ug/L	882.01 ppb	02:13:24
3	Sb 206.836†	77.9	42.7	-1.7430 ug/L	-1.7430 ppb	02:13:24
3	Se 196.026†	-536.6	-509.3	31.855 ug/L	31.855 ppb	02:13:24
3	Si 251.611†	649100.8	651323.1	19379 ug/L	19379 ppb	02:13:03
3	Sn 189.927†	-25.2	-43.0	-3.8271 ug/L	-3.8271 ppb	02:13:24
3	Ti 334.940†	2601510.7	2614074.0	4014.4 ug/L	4014.4 ppb	02:13:03
3	Tl 190.801†	-194.1	-151.7	-0.9205 ug/L	-0.9205 ppb	02:13:24
3	U 409.014†	-10823.9	-6544.4	-223.99 ug/L	-223.99 ppb	02:13:03
3	V 292.402†	15601.5	17374.5	101.56 ug/L	101.56 ppb	02:13:24
3	Zn 213.857†	45653.3	45098.9	375.67 ug/L	375.67 ppb	02:13:03
3	SiO2†	653989.6	656189.4	41881 ug/L	41881 ppb	02:13:40

Mean Data: 245113012|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	868219.2	100.40 %		0.761			0.76%
Sc Radial	3793.6	95.8 %		0.29			0.30%
Y 371.029	763834.8	111.98 %		0.832			0.74%
Y RADIAL	4832.8	106.5 %		0.84			0.79%
Ag 328.068†	-6662.1	4.2291 ug/L		0.39016	4.2291 ppb	0.39016	9.23%
Al 396.153Radial†	36792.3	33052 ug/L		239.0	33052 ppb	239.0	0.72%
As 188.979†	-46.3	40.640 ug/L		3.4214	40.640 ppb	3.4214	8.42%
B 249.677†	713.7	-1.2311 ug/L		0.32643	-1.2311 ppb	0.32643	26.52%
Ba 233.527†	42795.7	325.77 ug/L		0.639	325.77 ppb	0.639	0.20%
Be 313.107†	-11785.9	5.0903 ug/L		0.04021	5.0903 ppb	0.04021	0.79%
Ca 317.933Radial†	4887.7	9690.5 ug/L		84.76	9690.5 ppb	84.76	0.87%
Cd 226.502†	879.3	-1.2179 ug/L		0.19238	-1.2179 ppb	0.19238	15.80%
Co 228.616†	1244.1	13.397 ug/L		0.1591	13.397 ppb	0.1591	1.19%
Cr 267.716†	8929.0	97.466 ug/L		0.5992	97.466 ppb	0.5992	0.61%
Cu 324.752†	12800.5	42.179 ug/L		0.1892	42.179 ppb	0.1892	0.45%
Fe 238.204 Radial†	8442.1	100550 ug/L		753.0	100550 ppb	753.0	0.75%
K 766.490 Radial†	29139.6	5075.9 ug/L		42.67	5075.9 ppb	42.67	0.84%

Mg 279.077 IEC†	146.8	6283.7 ug/L	54.55	6283.7 ppb	54.55	0.87%
Mn 257.610†	1931339.0	1986.9 ug/L	3.08	1986.9 ppb	3.08	0.15%
Mo 202.031†	71.4	12.783 ug/L	0.3250	12.783 ppb	0.3250	2.54%
Na 589.592 Radial†	3598.8	1031.9 ug/L	13.75	1031.9 ppb	13.75	1.33%
Ni 231.604†	2535.5	57.597 ug/L	0.3559	57.597 ppb	0.3559	0.62%
P 214.914†	1307.0	584.31 ug/L	3.283	584.31 ppb	3.283	0.56%
Pb 220.353†	456.7	47.585 ug/L	0.4831	47.585 ppb	0.4831	1.02%
S 181.975 Axial†	730.0	877.19 ug/L	5.255	877.19 ppb	5.255	0.60%
Sb 206.836†	39.2	-2.8400 ug/L	3.19901	-2.8400 ppb	3.19901	112.64%
Se 196.026†	-508.3	34.449 ug/L	5.5876	34.449 ppb	5.5876	16.22%
Si 251.611†	650734.5	19361 ug/L	33.4	19361 ppb	33.4	0.17%
Sn 189.927†	-45.9	-4.2837 ug/L	0.83450	-4.2837 ppb	0.83450	19.48%
Sr 421.552†	10281.7	69.385 ug/L	0.5125	69.385 ppb	0.5125	0.74%
Ti 334.940†	2613239.7	4013.1 ug/L	3.85	4013.1 ppb	3.85	0.10%
Tl 190.801†	-148.3	0.0278 ug/L	0.87568	0.0278 ppb	0.87568	>999.9%
U 409.014†	-6463.1	-221.43 ug/L	3.612	-221.43 ppb	3.612	1.63%
V 292.402†	17304.3	100.98 ug/L	0.882	100.98 ppb	0.882	0.87%
Zn 213.857†	45121.5	375.80 ug/L	0.653	375.80 ppb	0.653	0.17%
SiO2†	649524.0	41455 ug/L	370.1	41455 ppb	370.1	0.89%

Sequence No.: 90

Sample ID: 245113013|944124|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 93

Date Collected: 2/4/2010 02:15:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245113013|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3749.2	3749.2	94.7	%		02:18:05
1	Y RADIAL	4588.6	4588.6	101.1	%		02:17:45
1	Al 396.153Radial†	35197.9	37372.3	33573	ug/L	33573 ppb	02:17:45
1	Ca 317.933Radial†	4386.2	4616.5	9152.7	ug/L	9152.7 ppb	02:17:45
1	Fe 238.204 Radial†	13525.9	14274.4	170010	ug/L	170010 ppb	02:17:45
1	K 766.490 Radial†	27984.4	26526.8	4620.3	ug/L	4620.3 ppb	02:17:45
1	Mg 279.077 IEC†	154.1	159.5	6762.8	ug/L	6762.8 ppb	02:18:05
1	Na 589.592 Radial†	2030.6	3729.8	1069.5	ug/L	1069.5 ppb	02:17:45
1	Sr 421.552†	9146.5	9660.3	65.192	ug/L	65.192 ppb	02:17:45
1	Sc 361.383	830005.6	830005.6	95.981	%		02:19:08
1	Y 371.029	721874.2	721874.2	105.83	%		02:19:08
1	Ag 328.068†	-10850.6	-11740.1	5.0533	ug/L	5.0533 ppb	02:19:08
1	As 188.979†	-180.7	-152.8	55.929	ug/L	55.929 ppb	02:19:28
1	B 249.677†	524.6	1153.4	-3.2074	ug/L	-3.2074 ppb	02:19:08
1	Ba 233.527†	40595.4	42313.3	324.50	ug/L	324.50 ppb	02:19:08
1	Be 313.107†	-43226.8	-41092.8	5.4898	ug/L	5.4898 ppb	02:19:08
1	Cd 226.502†	1364.5	1621.3	-0.6531	ug/L	-0.6531 ppb	02:19:28
1	Co 228.616†	1803.4	1965.3	16.225	ug/L	16.225 ppb	02:19:28
1	Cr 267.716†	7194.8	7407.0	82.719	ug/L	82.719 ppb	02:19:28
1	Cu 324.752†	12675.1	6357.5	27.336	ug/L	27.336 ppb	02:19:08
1	Mn 257.610†	2439587.7	2541250.6	2618.2	ug/L	2618.2 ppb	02:19:03
1	Mo 202.031†	112.6	114.5	21.109	ug/L	21.109 ppb	02:19:28
1	Ni 231.604†	1829.5	1822.9	41.398	ug/L	41.398 ppb	02:19:28
1	P 214.914†	1960.1	1807.7	786.82	ug/L	786.82 ppb	02:19:28
1	Pb 220.353†	735.5	837.5	82.730	ug/L	82.730 ppb	02:19:28
1	S 181.975 Axial†	794.1	775.4	932.00	ug/L	932.00 ppb	02:19:28
1	Sb 206.836†	127.4	97.2	-0.4171	ug/L	-0.4171 ppb	02:19:28
1	Se 196.026†	-920.2	-929.3	20.777	ug/L	20.777 ppb	02:19:28
1	Si 251.611†	648443.4	675106.7	20087	ug/L	20087 ppb	02:19:08
1	Sn 189.927†	16.1	-0.8	4.1176	ug/L	4.1176 ppb	02:19:28
1	Ti 334.940†	5368183.6	5594665.7	8590.5	ug/L	8590.5 ppb	02:19:03
1	Tl 190.801†	-275.7	-244.1	13.365	ug/L	13.365 ppb	02:19:28
1	U 409.014†	-8917.3	-4965.9	-180.72	ug/L	-180.72 ppb	02:19:08
1	V 292.402†	30542.0	33528.7	198.79	ug/L	198.79 ppb	02:19:08
1	Zn 213.857†	76422.8	78877.8	657.94	ug/L	657.94 ppb	02:19:08
1	SiO2†	658844.9	685900.9	43777	ug/L	43777 ppb	02:20:37
2	Sc Radial	3754.6	3754.6	94.8	%		02:18:30
2	Y RADIAL	4607.8	4607.8	101.5	%		02:18:10
2	Al 396.153Radial†	35378.2	37509.5	33696	ug/L	33696 ppb	02:18:10
2	Ca 317.933Radial†	4390.9	4614.8	9149.6	ug/L	9149.6 ppb	02:18:10
2	Fe 238.204 Radial†	13578.5	14309.5	170430	ug/L	170430 ppb	02:18:10
2	K 766.490 Radial†	28094.0	26600.3	4633.1	ug/L	4633.1 ppb	02:18:10
2	Mg 279.077 IEC†	150.8	155.8	6601.9	ug/L	6601.9 ppb	02:18:30
2	Na 589.592 Radial†	1979.8	3673.3	1053.3	ug/L	1053.3 ppb	02:18:10
2	Sr 421.552†	9229.4	9733.8	65.689	ug/L	65.689 ppb	02:18:10
2	Sc 361.383	824173.4	824173.4	95.306	%		02:19:39
2	Y 371.029	715166.9	715166.9	104.85	%		02:19:39
2	Ag 328.068†	-10829.6	-11798.1	4.9361	ug/L	4.9361 ppb	02:19:39
2	As 188.979†	-181.7	-155.1	55.871	ug/L	55.871 ppb	02:20:00
2	B 249.677†	600.6	1237.0	-1.4978	ug/L	-1.4978 ppb	02:19:39
2	Ba 233.527†	40445.0	42454.8	325.58	ug/L	325.58 ppb	02:19:39
2	Be 313.107†	-42686.3	-40844.3	5.7654	ug/L	5.7654 ppb	02:19:39
2	Cd 226.502†	1351.4	1617.6	-0.7351	ug/L	-0.7351 ppb	02:20:00
2	Co 228.616†	1786.8	1961.2	15.969	ug/L	15.969 ppb	02:20:00
2	Cr 267.716†	7106.4	7367.3	82.305	ug/L	82.305 ppb	02:20:00
2	Cu 324.752†	12654.7	6429.6	27.565	ug/L	27.565 ppb	02:19:39
2	Mn 257.610†	2445101.0	2565021.8	2642.6	ug/L	2642.6 ppb	02:19:34
2	Mo 202.031†	124.2	127.5	22.029	ug/L	22.029 ppb	02:20:00
2	Ni 231.604†	1802.3	1807.9	41.055	ug/L	41.055 ppb	02:20:00

2	P 214.914†	1949.5	1811.0	788.13 ug/L	788.13 ppb	02:20:00
2	Pb 220.353†	754.9	863.2	85.534 ug/L	85.534 ppb	02:20:00
2	S 181.975 Axial†	785.6	772.4	928.33 ug/L	928.33 ppb	02:20:00
2	Sb 206.836†	109.7	79.5	-6.1222 ug/L	-6.1222 ppb	02:20:00
2	Se 196.026†	-899.5	-914.3	30.174 ug/L	30.174 ppb	02:20:00
2	Si 251.611†	645920.9	677240.8	20150 ug/L	20150 ppb	02:19:39
2	Sn 189.927†	13.6	-3.3	3.7186 ug/L	3.7186 ppb	02:20:00
2	Ti 334.940†	5382645.5	5649417.8	8674.6 ug/L	8674.6 ppb	02:19:34
2	Tl 190.801†	-300.9	-272.5	6.0488 ug/L	6.0488 ppb	02:20:00
2	U 409.014†	-8839.2	-4949.7	-180.24 ug/L	-180.24 ppb	02:19:39
2	V 292.402†	30501.4	33711.4	199.92 ug/L	199.92 ppb	02:19:39
2	Zn 213.857†	76330.7	79344.6	661.90 ug/L	661.90 ppb	02:19:39
2	SiO2†	656986.1	688808.1	43962 ug/L	43962 ppb	02:20:42
3	Sc Radial	3723.1	3723.1	94.0 %		02:18:55
3	Y RADIAL	4659.6	4659.6	102.7 %		02:18:35
3	Al 396.153Radial†	35767.4	38239.0	34352 ug/L	34352 ppb	02:18:35
3	Ca 317.933Radial†	4432.6	4698.3	9315.1 ug/L	9315.1 ppb	02:18:35
3	Fe 238.204 Radial†	13649.7	14506.3	172770 ug/L	172770 ppb	02:18:35
3	K 766.490 Radial†	28091.8	26848.4	4676.3 ug/L	4676.3 ppb	02:18:35
3	Mg 279.077 IEC†	147.1	153.1	6483.8 ug/L	6483.8 ppb	02:18:55
3	Na 589.592 Radial†	1975.5	3686.3	1057.0 ug/L	1057.0 ppb	02:18:35
3	Sr 421.552†	9294.3	9885.2	66.710 ug/L	66.710 ppb	02:18:35
3	Sc 361.383	829347.5	829347.5	95.905 %		02:20:11
3	Y 371.029	721683.5	721683.5	105.80 %		02:20:11
3	Ag 328.068†	-10916.8	-11818.1	5.6319 ug/L	5.6319 ppb	02:20:11
3	As 188.979†	-181.7	-154.0	56.472 ug/L	56.472 ppb	02:20:31
3	B 249.677†	594.1	1226.2	-2.1068 ug/L	-2.1068 ppb	02:20:11
3	Ba 233.527†	40429.2	42173.5	323.53 ug/L	323.53 ppb	02:20:11
3	Be 313.107†	-43319.6	-41225.3	5.5346 ug/L	5.5346 ppb	02:20:11
3	Cd 226.502†	1357.6	1615.2	-1.0020 ug/L	-1.0020 ppb	02:20:31
3	Co 228.616†	1791.6	1954.5	15.901 ug/L	15.901 ppb	02:20:31
3	Cr 267.716†	7221.2	7440.6	83.131 ug/L	83.131 ppb	02:20:31
3	Cu 324.752†	12715.4	6410.1	27.633 ug/L	27.633 ppb	02:20:11
3	Mn 257.610†	2444128.5	2548002.4	2625.4 ug/L	2625.4 ppb	02:20:06
3	Mo 202.031†	117.1	119.3	21.653 ug/L	21.653 ppb	02:20:31
3	Ni 231.604†	1825.9	1820.6	41.345 ug/L	41.345 ppb	02:20:31
3	P 214.914†	1963.8	1813.2	787.54 ug/L	787.54 ppb	02:20:31
3	Pb 220.353†	728.2	830.5	81.868 ug/L	81.868 ppb	02:20:31
3	S 181.975 Axial†	784.7	766.3	920.79 ug/L	920.79 ppb	02:20:31
3	Sb 206.836†	120.2	89.8	-2.8871 ug/L	-2.8871 ppb	02:20:31
3	Se 196.026†	-895.9	-904.7	42.624 ug/L	42.624 ppb	02:20:31
3	Si 251.611†	648882.1	676100.4	20116 ug/L	20116 ppb	02:20:11
3	Sn 189.927†	6.1	-11.3	2.4904 ug/L	2.4904 ppb	02:20:31
3	Ti 334.940†	5388669.5	5620464.8	8630.1 ug/L	8630.1 ppb	02:20:06
3	Tl 190.801†	-289.5	-258.6	9.5662 ug/L	9.5662 ppb	02:20:31
3	U 409.014†	-8918.2	-4974.3	-181.31 ug/L	-181.31 ppb	02:20:11
3	V 292.402†	30589.3	33603.3	198.86 ug/L	198.86 ppb	02:20:11
3	Zn 213.857†	76470.4	78990.6	658.64 ug/L	658.64 ppb	02:20:11
3	SiO2†	665072.0	692938.7	44226 ug/L	44226 ppb	02:20:48

Mean Data: 245113013|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	827842.2	95.731 %		0.3694				0.39%
Sc Radial	3742.3	94.5 %		0.43				0.45%
Y 371.029	719574.8	105.50 %		0.560				0.53%
Y RADIAL	4618.7	101.8 %		0.81				0.80%
Ag 328.068†	-11785.4	5.2071 ug/L		0.37255	5.2071 ppb		0.37255	7.15%
Al 396.153Radial†	37706.9	33874 ug/L		418.5	33874 ppb		418.5	1.24%
As 188.979†	-154.0	56.091 ug/L		0.3315	56.091 ppb		0.3315	0.59%
B 249.677†	1205.5	-2.2707 ug/L		0.86651	-2.2707 ppb		0.86651	38.16%
Ba 233.527†	42313.9	324.53 ug/L		1.025	324.53 ppb		1.025	0.32%
Be 313.107†	-41054.2	5.5966 ug/L		0.14789	5.5966 ppb		0.14789	2.64%
Ca 317.933Radial†	4643.2	9205.8 ug/L		94.65	9205.8 ppb		94.65	1.03%
Cd 226.502†	1618.0	-0.7968 ug/L		0.18245	-0.7968 ppb		0.18245	22.90%
Co 228.616†	1960.3	16.031 ug/L		0.1708	16.031 ppb		0.1708	1.07%
Cr 267.716†	7404.9	82.718 ug/L		0.4133	82.718 ppb		0.4133	0.50%
Cu 324.752†	6399.1	27.511 ug/L		0.1556	27.511 ppb		0.1556	0.57%
Fe 238.204 Radial†	14363.4	171070 ug/L		1488.9	171070 ppb		1488.9	0.87%
K 766.490 Radial†	26658.5	4643.3 ug/L		29.36	4643.3 ppb		29.36	0.63%

Mg 279.077 IEC†	156.1	6616.2 ug/L	140.03	6616.2 ppb	140.03	2.12%
Mn 257.610†	2551424.9	2628.7 ug/L	12.53	2628.7 ppb	12.53	0.48%
Mo 202.031†	120.5	21.597 ug/L	0.4621	21.597 ppb	0.4621	2.14%
Na 589.592 Radial†	3696.5	1059.9 ug/L	8.49	1059.9 ppb	8.49	0.80%
Ni 231.604†	1817.1	41.266 ug/L	0.1845	41.266 ppb	0.1845	0.45%
P 214.914†	1810.7	787.50 ug/L	0.655	787.50 ppb	0.655	0.08%
Pb 220.353†	843.7	83.377 ug/L	1.9170	83.377 ppb	1.9170	2.30%
S 181.975 Axial†	771.4	927.04 ug/L	5.713	927.04 ppb	5.713	0.62%
Sb 206.836†	88.8	-3.1421 ug/L	2.86112	-3.1421 ppb	2.86112	91.06%
Se 196.026†	-916.1	31.192 ug/L	10.9591	31.192 ppb	10.9591	35.13%
Si 251.611†	676149.3	20118 ug/L	31.8	20118 ppb	31.8	0.16%
Sn 189.927†	-5.1	3.4422 ug/L	0.84805	3.4422 ppb	0.84805	24.64%
Sr 421.552†	9759.8	65.863 ug/L	0.7742	65.863 ppb	0.7742	1.18%
Ti 334.940†	5621516.1	8631.7 ug/L	42.06	8631.7 ppb	42.06	0.49%
Tl 190.801†	-258.4	9.6598 ug/L	3.65877	9.6598 ppb	3.65877	37.88%
U 409.014†	-4963.3	-180.75 ug/L	0.534	-180.75 ppb	0.534	0.30%
V 292.402†	33614.5	199.19 ug/L	0.632	199.19 ppb	0.632	0.32%
Zn 213.857†	79071.0	659.49 ug/L	2.111	659.49 ppb	2.111	0.32%
SiO2†	689215.9	43989 ug/L	225.7	43989 ppb	225.7	0.51%

Sequence No.: 91
 Sample ID: 245113014|944124|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 94
 Date Collected: 2/4/2010 02:23:00
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 245113014|944124|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3799.7	3799.7	96.0 %		02:25:13
1	Y RADIAL	4687.0	4687.0	103.3 %		02:24:53
1	Al 396.153Radial†	35028.7	36702.6	32972 ug/L	32972 ppb	02:24:53
1	Ca 317.933Radial†	5121.0	5320.8	10549 ug/L	10549 ppb	02:24:53
1	Fe 238.204 Radial†	6805.1	7080.4	84330 ug/L	84330 ppb	02:24:53
1	K 766.490 Radial†	31408.0	29702.5	5173.9 ug/L	5173.9 ppb	02:24:53
1	Mg 279.077 IEC†	154.1	157.3	6756.0 ug/L	6756.0 ppb	02:25:13
1	Na 589.592 Radial†	1668.2	3323.7	953.02 ug/L	953.02 ppb	02:24:53
1	Sr 421.552†	10831.9	11288.6	76.181 ug/L	76.181 ppb	02:24:53
1	Sc 361.383	854747.2	854747.2	98.842 %		02:26:11
1	Y 371.029	738361.6	738361.6	108.25 %		02:26:11
1	Ag 328.068†	-5075.6	-5570.2	3.6020 ug/L	3.6020 ppb	02:26:16
1	As 188.979†	-59.1	-24.4	37.831 ug/L	37.831 ppb	02:26:36
1	B 249.677†	125.6	733.9	1.8340 ug/L	1.8340 ppb	02:26:16
1	Ba 233.527†	51073.1	51689.5	392.26 ug/L	392.26 ppb	02:26:16
1	Be 313.107†	-11520.5	-7711.4	4.5478 ug/L	4.5478 ppb	02:26:16
1	Cd 226.502†	554.4	760.5	-0.7686 ug/L	-0.7686 ppb	02:26:36
1	Co 228.616†	1129.6	1229.3	15.169 ug/L	15.169 ppb	02:26:36
1	Cr 267.716†	8663.9	8676.4	94.415 ug/L	94.415 ppb	02:26:16
1	Cu 324.752†	24530.4	17969.5	56.120 ug/L	56.120 ppb	02:26:16
1	Mn 257.610†	1763736.2	1783907.3	1834.4 ug/L	1834.4 ppb	02:26:11
1	Mo 202.031†	60.9	58.8	10.679 ug/L	10.679 ppb	02:26:36
1	Ni 231.604†	2611.6	2559.0	58.131 ug/L	58.131 ppb	02:26:36
1	P 214.914†	1591.7	1375.9	629.42 ug/L	629.42 ppb	02:26:36
1	Pb 220.353†	598.9	677.1	73.237 ug/L	73.237 ppb	02:26:36
1	S 181.975 Axial†	843.9	801.9	964.16 ug/L	964.16 ppb	02:26:36
1	Sb 206.836†	75.6	41.0	0.6444 ug/L	0.6444 ppb	02:26:36
1	Se 196.026†	-453.9	-429.7	26.984 ug/L	26.984 ppb	02:26:36
1	Si 251.611†	655727.9	662920.7	19724 ug/L	19724 ppb	02:26:11
1	Sn 189.927†	-35.7	-53.8	-5.7060 ug/L	-5.7060 ppb	02:26:36
1	Ti 334.940†	2033532.4	2059051.5	3162.3 ug/L	3162.3 ppb	02:26:11
1	Tl 190.801†	-158.4	-117.1	1.2029 ug/L	1.2029 ppb	02:26:36
1	U 409.014†	-8646.9	-4423.4	-153.38 ug/L	-153.38 ppb	02:26:16
1	V 292.402†	13918.1	15789.0	93.850 ug/L	93.850 ppb	02:26:16
1	Zn 213.857†	38026.3	37726.7	314.10 ug/L	314.10 ppb	02:26:16
1	SiO2†	661166.0	668379.6	42659 ug/L	42659 ppb	02:27:44
2	Sc Radial	3810.1	3810.1	96.2 %		02:25:38
2	Y RADIAL	4689.5	4689.5	103.3 %		02:25:18
2	Al 396.153Radial†	35113.4	36690.7	32961 ug/L	32961 ppb	02:25:18
2	Ca 317.933Radial†	5114.1	5299.1	10506 ug/L	10506 ppb	02:25:18
2	Fe 238.204 Radial†	6801.3	7057.1	84052 ug/L	84052 ppb	02:25:18
2	K 766.490 Radial†	31462.5	29669.7	5168.2 ug/L	5168.2 ppb	02:25:18
2	Mg 279.077 IEC†	148.7	151.3	6495.6 ug/L	6495.6 ppb	02:25:38
2	Na 589.592 Radial†	1653.0	3303.2	947.14 ug/L	947.14 ppb	02:25:18
2	Sr 421.552†	10812.4	11237.4	75.836 ug/L	75.836 ppb	02:25:18
2	Sc 361.383	861394.5	861394.5	99.611 %		02:26:42
2	Y 371.029	744142.5	744142.5	109.10 %		02:26:42
2	Ag 328.068†	-4994.4	-5449.1	4.0613 ug/L	4.0613 ppb	02:26:47
2	As 188.979†	-59.4	-24.1	37.873 ug/L	37.873 ppb	02:27:07
2	B 249.677†	129.0	736.3	1.9295 ug/L	1.9295 ppb	02:26:47
2	Ba 233.527†	51242.4	51460.8	390.53 ug/L	390.53 ppb	02:26:47
2	Be 313.107†	-11550.5	-7651.6	4.5710 ug/L	4.5710 ppb	02:26:47
2	Cd 226.502†	549.0	750.7	-0.8429 ug/L	-0.8429 ppb	02:27:07
2	Co 228.616†	1134.1	1224.9	15.088 ug/L	15.088 ppb	02:27:07
2	Cr 267.716†	8739.7	8684.8	94.501 ug/L	94.501 ppb	02:26:47
2	Cu 324.752†	24394.9	17641.9	55.169 ug/L	55.169 ppb	02:26:47
2	Mn 257.610†	1775363.1	1781809.8	1832.2 ug/L	1832.2 ppb	02:26:42
2	Mo 202.031†	57.9	55.3	10.415 ug/L	10.415 ppb	02:27:07
2	Ni 231.604†	2615.4	2542.5	57.755 ug/L	57.755 ppb	02:27:07

2	P 214.914†	1597.1	1368.8	626.27 ug/L	626.27 ppb	02:27:07
2	Pb 220.353†	576.5	649.9	70.288 ug/L	70.288 ppb	02:27:07
2	S 181.975 Axial†	850.9	802.3	964.67 ug/L	964.67 ppb	02:27:07
2	Sb 206.836†	86.5	51.3	3.8342 ug/L	3.8342 ppb	02:27:07
2	Se 196.026†	-457.1	-429.4	26.315 ug/L	26.315 ppb	02:27:07
2	Si 251.611†	660356.2	662447.7	19710 ug/L	19710 ppb	02:26:42
2	Sn 189.927†	-33.3	-51.1	-5.2807 ug/L	-5.2807 ppb	02:27:07
2	Ti 334.940†	2050139.0	2059846.7	3163.5 ug/L	3163.5 ppb	02:26:42
2	Tl 190.801†	-160.0	-117.4	1.0970 ug/L	1.0970 ppb	02:27:07
2	U 409.014†	-8896.7	-4606.7	-159.29 ug/L	-159.29 ppb	02:26:47
2	V 292.402†	13946.6	15709.0	93.314 ug/L	93.314 ppb	02:26:47
2	Zn 213.857†	38044.5	37448.2	311.74 ug/L	311.74 ppb	02:26:47
2	SiO2†	663445.2	665505.9	42475 ug/L	42475 ppb	02:27:49
3	Sc Radial	3803.7	3803.7	96.1 %		02:26:03
3	Y RADIAL	4711.0	4711.0	103.8 %		02:25:43
3	Al 396.153Radial†	34990.9	36624.4	32901 ug/L	32901 ppb	02:25:43
3	Ca 317.933Radial†	5118.1	5312.1	10532 ug/L	10532 ppb	02:25:43
3	Fe 238.204 Radial†	6767.6	7033.8	83775 ug/L	83775 ppb	02:25:43
3	K 766.490 Radial†	31232.5	29485.1	5136.0 ug/L	5136.0 ppb	02:25:43
3	Mg 279.077 IEC†	157.0	160.2	6883.4 ug/L	6883.4 ppb	02:26:03
3	Na 589.592 Radial†	1658.2	3311.5	949.52 ug/L	949.52 ppb	02:25:43
3	Sr 421.552†	10781.6	11224.1	75.746 ug/L	75.746 ppb	02:25:43
3	Sc 361.383	849929.3	849929.3	98.285 %		02:27:13
3	Y 371.029	735542.9	735542.9	107.84 %		02:27:13
3	Ag 328.068†	-5124.0	-5648.6	3.0698 ug/L	3.0698 ppb	02:27:18
3	As 188.979†	-58.5	-24.0	37.829 ug/L	37.829 ppb	02:27:38
3	B 249.677†	120.8	729.7	1.8349 ug/L	1.8349 ppb	02:27:18
3	Ba 233.527†	51464.0	52380.1	397.45 ug/L	397.45 ppb	02:27:18
3	Be 313.107†	-11847.9	-8110.5	4.4101 ug/L	4.4101 ppb	02:27:18
3	Cd 226.502†	557.3	766.6	-0.6483 ug/L	-0.6483 ppb	02:27:38
3	Co 228.616†	1131.9	1238.0	15.344 ug/L	15.344 ppb	02:27:38
3	Cr 267.716†	8836.3	8901.5	96.810 ug/L	96.810 ppb	02:27:18
3	Cu 324.752†	24645.6	18227.4	56.834 ug/L	56.834 ppb	02:27:18
3	Mn 257.610†	1751074.7	1781140.1	1831.5 ug/L	1831.5 ppb	02:27:13
3	Mo 202.031†	69.0	67.4	11.220 ug/L	11.220 ppb	02:27:38
3	Ni 231.604†	2584.6	2546.5	57.845 ug/L	57.845 ppb	02:27:38
3	P 214.914†	1575.9	1368.9	626.18 ug/L	626.18 ppb	02:27:38
3	Pb 220.353†	567.6	648.7	70.170 ug/L	70.170 ppb	02:27:38
3	S 181.975 Axial†	849.1	812.0	976.36 ug/L	976.36 ppb	02:27:38
3	Sb 206.836†	79.6	45.5	2.0379 ug/L	2.0379 ppb	02:27:38
3	Se 196.026†	-452.8	-431.2	24.458 ug/L	24.458 ppb	02:27:38
3	Si 251.611†	650961.3	661831.6	19692 ug/L	19692 ppb	02:27:13
3	Sn 189.927†	-40.5	-58.8	-6.5373 ug/L	-6.5373 ppb	02:27:38
3	Ti 334.940†	2021617.8	2058591.4	3161.5 ug/L	3161.5 ppb	02:27:13
3	Tl 190.801†	-153.5	-113.0	2.3502 ug/L	2.3502 ppb	02:27:38
3	U 409.014†	-8725.8	-4553.3	-157.53 ug/L	-157.53 ppb	02:27:18
3	V 292.402†	14081.3	16034.9	95.640 ug/L	95.640 ppb	02:27:18
3	Zn 213.857†	38268.7	38191.4	318.13 ug/L	318.13 ppb	02:27:18
3	SiO2†	664489.4	675552.9	43117 ug/L	43117 ppb	02:27:55

Mean Data: 245113014|944124|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	855357.0	98.912 %		0.6657			0.67%
Sc Radial	3804.5	96.1 %		0.13			0.14%
Y 371.029	739349.0	108.39 %		0.643			0.59%
Y RADIAL	4695.8	103.5 %		0.29			0.28%
Ag 328.068†	-5555.9	3.5777 ug/L		0.49621	3.5777 ppb	0.49621	13.87%
Al 396.153Radial†	36672.6	32945 ug/L		37.9	32945 ppb	37.9	0.12%
As 188.979†	-24.2	37.844 ug/L		0.0247	37.844 ppb	0.0247	0.07%
B 249.677†	733.3	1.8661 ug/L		0.05489	1.8661 ppb	0.05489	2.94%
Ba 233.527†	51843.4	393.42 ug/L		3.603	393.42 ppb	3.603	0.92%
Be 313.107†	-7824.5	4.5097 ug/L		0.08696	4.5097 ppb	0.08696	1.93%
Ca 317.933Radial†	5310.7	10529 ug/L		21.7	10529 ppb	21.7	0.21%
Cd 226.502†	759.3	-0.7532 ug/L		0.09820	-0.7532 ppb	0.09820	13.04%
Co 228.616†	1230.7	15.201 ug/L		0.1310	15.201 ppb	0.1310	0.86%
Cr 267.716†	8754.2	95.242 ug/L		1.3583	95.242 ppb	1.3583	1.43%
Cu 324.752†	17946.3	56.041 ug/L		0.8353	56.041 ppb	0.8353	1.49%
Fe 238.204 Radial†	7057.1	84052 ug/L		277.3	84052 ppb	277.3	0.33%
K 766.490 Radial†	29619.1	5159.4 ug/L		20.44	5159.4 ppb	20.44	0.40%

Mg 279.077 IEC†	156.2	6711.7 ug/L	197.67	6711.7 ppb	197.67	2.95%
Mn 257.610†	1782285.7	1832.7 ug/L	1.50	1832.7 ppb	1.50	0.08%
Mo 202.031†	60.5	10.771 ug/L	0.4103	10.771 ppb	0.4103	3.81%
Na 589.592 Radial†	3312.8	949.89 ug/L	2.960	949.89 ppb	2.960	0.31%
Ni 231.604†	2549.3	57.910 ug/L	0.1962	57.910 ppb	0.1962	0.34%
P 214.914†	1371.2	627.29 ug/L	1.846	627.29 ppb	1.846	0.29%
Pb 220.353†	658.6	71.232 ug/L	1.7374	71.232 ppb	1.7374	2.44%
S 181.975 Axial†	805.4	968.40 ug/L	6.902	968.40 ppb	6.902	0.71%
Sb 206.836†	45.9	2.1722 ug/L	1.59917	2.1722 ppb	1.59917	73.62%
Se 196.026†	-430.1	25.919 ug/L	1.3086	25.919 ppb	1.3086	5.05%
Si 251.611†	662400.0	19709 ug/L	16.3	19709 ppb	16.3	0.08%
Sn 189.927†	-54.5	-5.8413 ug/L	0.63915	-5.8413 ppb	0.63915	10.94%
Sr 421.552†	11250.0	75.921 ug/L	0.2298	75.921 ppb	0.2298	0.30%
Ti 334.940†	2059163.2	3162.4 ug/L	0.99	3162.4 ppb	0.99	0.03%
Tl 190.801†	-115.8	1.5500 ug/L	0.69494	1.5500 ppb	0.69494	44.83%
U 409.014†	-4527.8	-156.73 ug/L	3.038	-156.73 ppb	3.038	1.94%
V 292.402†	15844.3	94.268 ug/L	1.2183	94.268 ppb	1.2183	1.29%
Zn 213.857†	37788.8	314.65 ug/L	3.227	314.65 ppb	3.227	1.03%
SiO2†	669812.8	42750 ug/L	330.3	42750 ppb	330.3	0.77%

Sequence No.: 92

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/4/2010 02:30:06

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	3714.9	3714.9	93.8 %		02:32:18
1	Y RADIAL	4166.6	4166.6	91.81 %		02:31:58
1	Al 396.153Radial†	5289.8	5834.6	5217.4 ug/L	5217.4 ppb	02:31:58
1	Ca 317.933Radial†	2533.0	2683.8	5321.0 ug/L	5321.0 ppb	02:32:18
1	Fe 238.204 Radial†	426.5	442.8	5288.8 ug/L	5288.8 ppb	02:32:18
1	K 766.490 Radial†	30090.0	29044.3	5057.6 ug/L	5057.6 ppb	02:31:58
1	Mg 279.077 IEC†	120.4	125.0	5440.7 ug/L	5440.7 ppb	02:32:18
1	Na 589.592 Radial†	28867.4	32356.9	9277.8 ug/L	9277.8 ppb	02:31:58
1	Sr 421.552†	67663.0	72126.3	487.21 ug/L	487.21 ppb	02:31:58
1	Sc 361.383	846179.9	846179.9	97.851 %		02:33:17
1	Y 371.029	657823.5	657823.5	96.442 %		02:33:17
1	Ag 328.068†	106991.8	108906.1	497.63 ug/L	497.63 ppb	02:33:17
1	As 188.979†	1218.5	1280.7	492.86 ug/L	492.86 ppb	02:33:37
1	B 249.677†	21594.9	22675.9	479.56 ug/L	479.56 ppb	02:33:17
1	Ba 233.527†	64093.7	65519.2	494.90 ug/L	494.90 ppb	02:33:17
1	Be 313.107†	1421468.6	1456626.9	497.81 ug/L	497.81 ppb	02:33:17
1	Cd 226.502†	45060.6	46249.7	482.32 ug/L	482.32 ppb	02:33:37
1	Co 228.616†	25579.9	26228.0	487.68 ug/L	487.68 ppb	02:33:37
1	Cr 267.716†	45662.0	46575.7	497.51 ug/L	497.51 ppb	02:33:17
1	Cu 324.752†	174672.8	171660.2	492.73 ug/L	492.73 ppb	02:33:17
1	Mn 257.610†	472273.8	482152.1	493.91 ug/L	493.91 ppb	02:33:17
1	Mo 202.031†	7158.8	7313.2	498.74 ug/L	498.74 ppb	02:33:37
1	Ni 231.604†	21251.4	21634.8	491.28 ug/L	491.28 ppb	02:33:37
1	P 214.914†	4941.6	4815.6	2352.0 ug/L	2352.0 ppb	02:33:37
1	Pb 220.353†	4371.4	4538.6	498.19 ug/L	498.19 ppb	02:33:37
1	S 181.975 Axial†	845.0	811.7	981.20 ug/L	981.20 ppb	02:33:37
1	Sb 206.836†	1588.0	1587.3	506.48 ug/L	506.48 ppb	02:33:37
1	Se 196.026†	866.6	915.2	513.60 ug/L	513.60 ppb	02:33:37
1	Si 251.611†	82571.0	83894.6	2490.0 ug/L	2490.0 ppb	02:33:17
1	Sn 189.927†	2993.8	3041.9	494.79 ug/L	494.79 ppb	02:33:37
1	Ti 334.940†	319861.8	328580.3	504.37 ug/L	504.37 ppb	02:33:17
1	Tl 190.801†	1656.0	1735.5	499.44 ug/L	499.44 ppb	02:33:37
1	U 409.014†	10109.5	14656.3	473.93 ug/L	473.93 ppb	02:33:17
1	V 292.402†	67875.6	71073.9	499.94 ug/L	499.94 ppb	02:33:17
1	Zn 213.857†	57148.1	57658.0	488.90 ug/L	488.90 ppb	02:33:17
1	SiO2†	82835.3	84121.8	5355.4 ug/L	5355.4 ppb	02:34:37
2	Sc Radial	3715.1	3715.1	93.8 %		02:32:43
2	Y RADIAL	4128.7	4128.7	90.97 %		02:32:23
2	Al 396.153Radial†	5201.2	5739.8	5132.5 ug/L	5132.5 ppb	02:32:23
2	Ca 317.933Radial†	2522.2	2672.1	5297.9 ug/L	5297.9 ppb	02:32:43
2	Fe 238.204 Radial†	424.1	440.2	5257.2 ug/L	5257.2 ppb	02:32:43
2	K 766.490 Radial†	29732.8	28661.6	4990.9 ug/L	4990.9 ppb	02:32:23
2	Mg 279.077 IEC†	117.7	122.2	5315.9 ug/L	5315.9 ppb	02:32:43
2	Na 589.592 Radial†	28623.3	32094.8	9202.7 ug/L	9202.7 ppb	02:32:23
2	Sr 421.552†	67163.7	71589.6	483.58 ug/L	483.58 ppb	02:32:23
2	Sc 361.383	850236.3	850236.3	98.320 %		02:33:44
2	Y 371.029	660914.8	660914.8	96.895 %		02:33:44
2	Ag 328.068†	107779.0	109185.1	498.88 ug/L	498.88 ppb	02:33:44
2	As 188.979†	1212.0	1268.1	488.07 ug/L	488.07 ppb	02:34:04
2	B 249.677†	21770.2	22748.9	481.13 ug/L	481.13 ppb	02:33:44
2	Ba 233.527†	64360.6	65478.1	494.59 ug/L	494.59 ppb	02:33:44
2	Be 313.107†	1427412.9	1455742.3	497.50 ug/L	497.50 ppb	02:33:44
2	Cd 226.502†	44557.1	45517.9	474.68 ug/L	474.68 ppb	02:34:04
2	Co 228.616†	25276.3	25794.5	479.61 ug/L	479.61 ppb	02:34:04
2	Cr 267.716†	45687.6	46379.0	495.40 ug/L	495.40 ppb	02:33:44
2	Cu 324.752†	175763.8	171918.2	493.46 ug/L	493.46 ppb	02:33:44
2	Mn 257.610†	474237.8	481847.1	493.60 ug/L	493.60 ppb	02:33:44
2	Mo 202.031†	7092.2	7210.5	491.74 ug/L	491.74 ppb	02:34:04
2	Ni 231.604†	21029.7	21305.8	483.81 ug/L	483.81 ppb	02:34:04

2	P 214.914†	4865.3	4714.0	2300.0 ug/L	2300.0 ppb	02:34:04
2	Pb 220.353†	4348.5	4493.9	493.27 ug/L	493.27 ppb	02:34:04
2	S 181.975 Axial†	832.9	795.2	961.28 ug/L	961.28 ppb	02:34:04
2	Sb 206.836†	1567.7	1558.9	497.40 ug/L	497.40 ppb	02:34:04
2	Se 196.026†	855.1	899.2	504.85 ug/L	504.85 ppb	02:34:04
2	Si 251.611†	82877.1	83803.4	2487.4 ug/L	2487.4 ppb	02:33:44
2	Sn 189.927†	2935.6	2968.1	482.82 ug/L	482.82 ppb	02:34:04
2	Ti 334.940†	321475.9	328662.5	504.50 ug/L	504.50 ppb	02:33:44
2	Tl 190.801†	1630.4	1701.5	489.74 ug/L	489.74 ppb	02:34:04
2	U 409.014†	10380.9	14883.0	481.30 ug/L	481.30 ppb	02:33:44
2	V 292.402†	68176.7	71049.3	499.69 ug/L	499.69 ppb	02:33:44
2	Zn 213.857†	57372.8	57607.8	488.52 ug/L	488.52 ppb	02:33:44
2	SiO2†	82425.1	83300.7	5303.2 ug/L	5303.2 ppb	02:34:42
3	Sc Radial	3712.2	3712.2	93.7 %		02:33:08
3	Y RADIAL	4110.9	4110.9	90.58 %		02:32:48
3	Al 396.153Radial†	5253.5	5799.9	5186.3 ug/L	5186.3 ppb	02:32:48
3	Ca 317.933Radial†	2522.9	2674.9	5303.4 ug/L	5303.4 ppb	02:33:08
3	Fe 238.204 Radial†	425.0	441.5	5272.9 ug/L	5272.9 ppb	02:33:08
3	K 766.490 Radial†	29857.9	28819.8	5018.5 ug/L	5018.5 ppb	02:32:48
3	Mg 279.077 IEC†	119.8	124.5	5417.6 ug/L	5417.6 ppb	02:33:08
3	Na 589.592 Radial†	28393.3	31873.2	9139.1 ug/L	9139.1 ppb	02:32:48
3	Sr 421.552†	67356.0	71850.6	485.35 ug/L	485.35 ppb	02:32:48
3	Sc 361.383	848867.0	848867.0	98.162 %		02:34:11
3	Y 371.029	661477.5	661477.5	96.978 %		02:34:11
3	Ag 328.068†	107216.2	108788.6	497.09 ug/L	497.09 ppb	02:34:11
3	As 188.979†	1234.4	1292.9	497.51 ug/L	497.51 ppb	02:34:31
3	B 249.677†	21627.6	22639.3	478.79 ug/L	478.79 ppb	02:34:11
3	Ba 233.527†	64089.8	65307.9	493.31 ug/L	493.31 ppb	02:34:11
3	Be 313.107†	1425132.0	1455760.5	497.51 ug/L	497.51 ppb	02:34:11
3	Cd 226.502†	44926.9	45967.8	479.38 ug/L	479.38 ppb	02:34:31
3	Co 228.616†	25563.9	26129.0	485.84 ug/L	485.84 ppb	02:34:31
3	Cr 267.716†	45618.2	46383.3	495.45 ug/L	495.45 ppb	02:34:11
3	Cu 324.752†	175121.2	171551.9	492.41 ug/L	492.41 ppb	02:34:11
3	Mn 257.610†	471976.8	480321.7	492.04 ug/L	492.04 ppb	02:34:11
3	Mo 202.031†	7172.8	7304.3	498.13 ug/L	498.13 ppb	02:34:31
3	Ni 231.604†	21212.1	21526.0	488.81 ug/L	488.81 ppb	02:34:31
3	P 214.914†	4927.6	4785.4	2336.6 ug/L	2336.6 ppb	02:34:31
3	Pb 220.353†	4349.9	4502.5	494.23 ug/L	494.23 ppb	02:34:31
3	S 181.975 Axial†	839.8	803.6	971.48 ug/L	971.48 ppb	02:34:31
3	Sb 206.836†	1579.2	1573.3	502.05 ug/L	502.05 ppb	02:34:31
3	Se 196.026†	861.2	906.9	509.05 ug/L	509.05 ppb	02:34:31
3	Si 251.611†	82473.7	83528.4	2479.1 ug/L	2479.1 ppb	02:34:11
3	Sn 189.927†	2968.1	3006.0	488.97 ug/L	488.97 ppb	02:34:31
3	Ti 334.940†	320290.6	327982.4	503.45 ug/L	503.45 ppb	02:34:11
3	Tl 190.801†	1649.4	1723.5	495.99 ug/L	495.99 ppb	02:34:31
3	U 409.014†	10238.7	14755.2	477.15 ug/L	477.15 ppb	02:34:11
3	V 292.402†	67910.9	70890.3	498.67 ug/L	498.67 ppb	02:34:11
3	Zn 213.857†	57183.6	57509.2	487.64 ug/L	487.64 ppb	02:34:11
3	SiO2†	82021.8	83025.1	5285.5 ug/L	5285.5 ppb	02:34:47

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	848427.7	98.111 %	0.2386			0.24%
Sc Radial	3714.1	93.8 %	0.04			0.04%
Y 371.029	660071.9	96.772 %	0.2884			0.30%
Y RADIAL	4135.4	91.12 %	0.627			0.69%
Ag 328.068†	108959.9	497.87 ug/L	0.920	497.87 ppb	0.920	0.18%
QC value within limits for Ag 328.068 Recovery = 99.57%						
Al 396.153Radial†	5791.4	5178.7 ug/L	42.91	5178.7 ppb	42.91	0.83%
QC value within limits for Al 396.153Radial Recovery = 103.57%						
As 188.979†	1280.6	492.81 ug/L	4.721	492.81 ppb	4.721	0.96%
QC value within limits for As 188.979 Recovery = 98.56%						
B 249.677†	22688.0	479.83 ug/L	1.197	479.83 ppb	1.197	0.25%
QC value within limits for B 249.677 Recovery = 95.97%						
Ba 233.527†	65435.1	494.27 ug/L	0.846	494.27 ppb	0.846	0.17%
QC value within limits for Ba 233.527 Recovery = 98.85%						
Be 313.107†	1456043.3	497.61 ug/L	0.173	497.61 ppb	0.173	0.03%
QC value within limits for Be 313.107 Recovery = 99.52%						
Ca 317.933Radial†	2677.0	5307.4 ug/L	12.07	5307.4 ppb	12.07	0.23%

QC value within limits for Ca 317.933 Radial Recovery = 106.15%							
Cd 226.502†	45911.8	478.79 ug/L	3.850	478.79 ppb	3.850	0.80%	
QC value within limits for Cd 226.502 Recovery = 95.76%							
Co 228.616†	26050.5	484.38 ug/L	4.233	484.38 ppb	4.233	0.87%	
QC value within limits for Co 228.616 Recovery = 96.88%							
Cr 267.716†	46446.0	496.12 ug/L	1.200	496.12 ppb	1.200	0.24%	
QC value within limits for Cr 267.716 Recovery = 99.22%							
Cu 324.752†	171710.1	492.87 ug/L	0.538	492.87 ppb	0.538	0.11%	
QC value within limits for Cu 324.752 Recovery = 98.57%							
Fe 238.204 Radial†	441.5	5273.0 ug/L	15.83	5273.0 ppb	15.83	0.30%	
QC value within limits for Fe 238.204 Radial Recovery = 105.46%							
K 766.490 Radial†	28841.9	5022.3 ug/L	33.51	5022.3 ppb	33.51	0.67%	
QC value within limits for K 766.490 Radial Recovery = 100.45%							
Mg 279.077 IEC†	123.9	5391.4 ug/L	66.40	5391.4 ppb	66.40	1.23%	
QC value within limits for Mg 279.077 IEC Recovery = 107.83%							
Mn 257.610†	481440.3	493.19 ug/L	1.005	493.19 ppb	1.005	0.20%	
QC value within limits for Mn 257.610 Recovery = 98.64%							
Mo 202.031†	7276.0	496.20 ug/L	3.878	496.20 ppb	3.878	0.78%	
QC value within limits for Mo 202.031 Recovery = 99.24%							
Na 589.592 Radial†	32108.3	9206.5 ug/L	69.43	9206.5 ppb	69.43	0.75%	
QC value within limits for Na 589.592 Radial Recovery = 92.07%							
Ni 231.604†	21488.9	487.97 ug/L	3.806	487.97 ppb	3.806	0.78%	
QC value within limits for Ni 231.604 Recovery = 97.59%							
P 214.914†	4771.7	2329.5 ug/L	26.68	2329.5 ppb	26.68	1.15%	
QC value within limits for P 214.914 Recovery = 93.18%							
Pb 220.353†	4511.7	495.23 ug/L	2.609	495.23 ppb	2.609	0.53%	
QC value within limits for Pb 220.353 Recovery = 99.05%							
S 181.975 Axial†	803.5	971.32 ug/L	9.958	971.32 ppb	9.958	1.03%	
QC value within limits for S 181.975 Axial Recovery = 97.13%							
Sb 206.836†	1573.2	501.98 ug/L	4.543	501.98 ppb	4.543	0.90%	
QC value within limits for Sb 206.836 Recovery = 100.40%							
Se 196.026†	907.1	509.17 ug/L	4.375	509.17 ppb	4.375	0.86%	
QC value within limits for Se 196.026 Recovery = 101.83%							
Si 251.611†	83742.1	2485.5 ug/L	5.68	2485.5 ppb	5.68	0.23%	
QC value within limits for Si 251.611 Recovery = 99.42%							
Sn 189.927†	3005.3	488.86 ug/L	5.988	488.86 ppb	5.988	1.22%	
QC value within limits for Sn 189.927 Recovery = 97.77%							
Sr 421.552†	71855.5	485.38 ug/L	1.813	485.38 ppb	1.813	0.37%	
QC value within limits for Sr 421.552 Recovery = 97.08%							
Ti 334.940†	328408.4	504.11 ug/L	0.572	504.11 ppb	0.572	0.11%	
QC value within limits for Ti 334.940 Recovery = 100.82%							
Tl 190.801†	1720.2	495.06 ug/L	4.916	495.06 ppb	4.916	0.99%	
QC value within limits for Tl 190.801 Recovery = 99.01%							
U 409.014†	14764.8	477.46 ug/L	3.693	477.46 ppb	3.693	0.77%	
QC value within limits for U 409.014 Recovery = 95.49%							
V 292.402†	71004.5	499.43 ug/L	0.674	499.43 ppb	0.674	0.13%	
QC value within limits for V 292.402 Recovery = 99.89%							
Zn 213.857†	57591.7	488.35 ug/L	0.644	488.35 ppb	0.644	0.13%	
QC value within limits for Zn 213.857 Recovery = 97.67%							
SiO2†	83482.6	5314.7 ug/L	36.38	5314.7 ppb	36.38	0.68%	
QC value within limits for SiO2 Recovery = 99.39%							
All analyte(s) passed QC.							

Sequence No.: 93

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/4/2010 02:36:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3659.7	3659.7	92.4 %		02:39:09
1	Y RADIAL	4151.2	4151.2	91.47 %		02:38:49
1	Al 396.153Radial†	-191.5	-11.4	-10.283 ug/L	-10.283 ppb	02:38:49
1	Ca 317.933Radial†	11.0	-4.4	-8.7616 ug/L	-8.7616 ppb	02:39:09
1	Fe 238.204 Radial†	8.1	-3.0	-36.236 ug/L	-36.236 ppb	02:39:09
1	K 766.490 Radial†	3014.4	231.0	40.278 ug/L	40.278 ppb	02:38:49
1	Mg 279.077 IEC†	2.1	-1.0	-42.484 ug/L	-42.484 ppb	02:39:09
1	Na 589.592 Radial†	-1462.9	2.2	0.6239 ug/L	0.6239 ppb	02:38:49
1	Sr 421.552†	10.5	10.9	0.0737 ug/L	0.0737 ppb	02:38:49
1	Sc 361.383	848528.1	848528.1	98.123 %		02:40:06
1	Y 371.029	670392.2	670392.2	98.285 %		02:40:06
1	Ag 328.068†	399.7	-27.8	-0.1350 ug/L	-0.1350 ppb	02:40:06
1	As 188.979†	-25.9	9.1	3.4564 ug/L	3.4564 ppb	02:40:26
1	B 249.677†	-615.0	-20.0	-0.4189 ug/L	-0.4189 ppb	02:40:06
1	Ba 233.527†	6.4	24.6	0.1844 ug/L	0.1844 ppb	02:40:26
1	Be 313.107†	-3809.9	61.3	0.0208 ug/L	0.0208 ppb	02:40:06
1	Cd 226.502†	-216.5	-21.0	-0.2163 ug/L	-0.2163 ppb	02:40:26
1	Co 228.616†	-88.1	-3.4	-0.0625 ug/L	-0.0625 ppb	02:40:26
1	Cr 267.716†	41.1	-47.1	-0.5021 ug/L	-0.5021 ppb	02:40:06
1	Cu 324.752†	6824.3	106.6	0.3058 ug/L	0.3058 ppb	02:40:06
1	Mn 257.610†	563.0	81.3	0.0814 ug/L	0.0814 ppb	02:40:26
1	Mo 202.031†	3.0	0.2	0.0137 ug/L	0.0137 ppb	02:40:26
1	Ni 231.604†	78.4	-3.3	-0.0754 ug/L	-0.0754 ppb	02:40:26
1	P 214.914†	230.5	0.4	0.1631 ug/L	0.1631 ppb	02:40:26
1	Pb 220.353†	-56.8	13.3	1.4514 ug/L	1.4514 ppb	02:40:26
1	S 181.975 Axial†	55.6	4.7	5.6901 ug/L	5.6901 ppb	02:40:26
1	Sb 206.836†	50.9	16.3	4.9736 ug/L	4.9736 ppb	02:40:26
1	Se 196.026†	-29.0	-0.0	-0.1176 ug/L	-0.1176 ppb	02:40:26
1	Si 251.611†	571.8	93.2	2.7715 ug/L	2.7715 ppb	02:40:26
1	Sn 189.927†	1.2	-16.4	-2.6649 ug/L	-2.6649 ppb	02:40:26
1	Ti 334.940†	-1681.8	-19.4	-0.0259 ug/L	-0.0259 ppb	02:40:06
1	Tl 190.801†	-42.0	0.4	0.1271 ug/L	0.1271 ppb	02:40:26
1	U 409.014†	-4343.6	-102.0	-3.3039 ug/L	-3.3039 ppb	02:40:06
1	V 292.402†	-1653.8	22.4	0.1539 ug/L	0.1539 ppb	02:40:06
1	Zn 213.857†	726.9	-4.3	-0.0331 ug/L	-0.0331 ppb	02:40:26
1	SiO2†	562.2	40.5	2.5837 ug/L	2.5837 ppb	02:41:22
2	Sc Radial	3677.4	3677.4	92.9 %		02:39:34
2	Y RADIAL	4099.5	4099.5	90.33 %		02:39:14
2	Al 396.153Radial†	-186.3	-4.8	-4.3301 ug/L	-4.3301 ppb	02:39:14
2	Ca 317.933Radial†	16.0	1.0	1.9718 ug/L	1.9718 ppb	02:39:34
2	Fe 238.204 Radial†	9.4	-1.7	-20.038 ug/L	-20.038 ppb	02:39:34
2	K 766.490 Radial†	2975.6	173.5	30.253 ug/L	30.253 ppb	02:39:14
2	Mg 279.077 IEC†	2.4	-0.7	-30.909 ug/L	-30.909 ppb	02:39:34
2	Na 589.592 Radial†	-1549.0	-82.9	-23.772 ug/L	-23.772 ppb	02:39:14
2	Sr 421.552†	8.3	8.5	0.0572 ug/L	0.0572 ppb	02:39:14
2	Sc 361.383	833034.5	833034.5	96.331 %		02:40:31
2	Y 371.029	657005.6	657005.6	96.322 %		02:40:31
2	Ag 328.068†	387.3	-33.1	-0.1540 ug/L	-0.1540 ppb	02:40:31
2	As 188.979†	-33.7	0.5	0.1883 ug/L	0.1883 ppb	02:40:51
2	B 249.677†	-541.4	44.8	0.9561 ug/L	0.9561 ppb	02:40:31
2	Ba 233.527†	2.6	20.7	0.1544 ug/L	0.1544 ppb	02:40:51
2	Be 313.107†	-3912.3	-117.2	-0.0402 ug/L	-0.0402 ppb	02:40:31
2	Cd 226.502†	-218.7	-27.4	-0.2844 ug/L	-0.2844 ppb	02:40:51
2	Co 228.616†	-90.9	-8.0	-0.1460 ug/L	-0.1460 ppb	02:40:51
2	Cr 267.716†	60.1	-26.6	-0.2826 ug/L	-0.2826 ppb	02:40:31
2	Cu 324.752†	6869.1	282.4	0.8128 ug/L	0.8128 ppb	02:40:31
2	Mn 257.610†	620.8	152.0	0.1549 ug/L	0.1549 ppb	02:40:51
2	Mo 202.031†	16.2	14.0	0.9501 ug/L	0.9501 ppb	02:40:51
2	Ni 231.604†	111.6	32.7	0.7430 ug/L	0.7430 ppb	02:40:51

2	P 214.914†	222.4	-3.6	-1.9862 ug/L	-1.9862 ppb	02:40:51
2	Pb 220.353†	-87.5	-19.7	-2.1498 ug/L	-2.1498 ppb	02:40:51
2	S 181.975 Axial†	41.4	-9.0	-10.862 ug/L	-10.862 ppb	02:40:51
2	Sb 206.836†	37.7	3.6	1.0947 ug/L	1.0947 ppb	02:40:51
2	Se 196.026†	-21.7	7.0	3.7488 ug/L	3.7488 ppb	02:40:51
2	Si 251.611†	564.1	96.0	2.8455 ug/L	2.8455 ppb	02:40:51
2	Sn 189.927†	6.2	-11.2	-1.8217 ug/L	-1.8217 ppb	02:40:51
2	Ti 334.940†	-1694.0	-64.0	-0.0929 ug/L	-0.0929 ppb	02:40:31
2	Tl 190.801†	-38.2	3.6	1.0218 ug/L	1.0218 ppb	02:40:51
2	U 409.014†	-4333.4	-173.6	-5.6318 ug/L	-5.6318 ppb	02:40:31
2	V 292.402†	-1698.7	-55.5	-0.3803 ug/L	-0.3803 ppb	02:40:31
2	Zn 213.857†	706.9	-11.2	-0.0998 ug/L	-0.0998 ppb	02:40:51
2	SiO2†	571.8	61.2	3.8779 ug/L	3.8779 ppb	02:41:27
3	Sc Radial	3662.8	3662.8	92.5 %		02:39:59
3	Y RADIAL	4066.9	4066.9	89.61 %		02:39:39
3	Al 396.153Radial†	-200.4	-20.8	-18.764 ug/L	-18.764 ppb	02:39:39
3	Ca 317.933Radial†	11.5	-3.9	-7.6448 ug/L	-7.6448 ppb	02:39:59
3	Fe 238.204 Radial†	10.0	-1.0	-11.601 ug/L	-11.601 ppb	02:39:59
3	K 766.490 Radial†	3094.1	314.5	54.832 ug/L	54.832 ppb	02:39:39
3	Mg 279.077 IEC†	7.4	4.7	205.30 ug/L	205.30 ppb	02:39:59
3	Na 589.592 Radial†	-1520.7	-59.0	-16.921 ug/L	-16.921 ppb	02:39:39
3	Sr 421.552†	-32.1	-35.1	-0.2372 ug/L	-0.2372 ppb	02:39:39
3	Sc 361.383	839694.0	839694.0	97.101 %		02:40:57
3	Y 371.029	664395.0	664395.0	97.405 %		02:40:57
3	Ag 328.068†	395.5	-27.8	-0.1255 ug/L	-0.1255 ppb	02:40:57
3	As 188.979†	-25.7	9.0	3.4146 ug/L	3.4146 ppb	02:41:17
3	B 249.677†	-621.8	-33.6	-0.7115 ug/L	-0.7115 ppb	02:40:57
3	Ba 233.527†	2.1	20.2	0.1507 ug/L	0.1507 ppb	02:41:17
3	Be 313.107†	-3716.7	116.5	0.0396 ug/L	0.0396 ppb	02:40:57
3	Cd 226.502†	-221.0	-28.0	-0.2919 ug/L	-0.2919 ppb	02:41:17
3	Co 228.616†	-79.6	4.4	0.0839 ug/L	0.0839 ppb	02:41:17
3	Cr 267.716†	109.2	23.5	0.2526 ug/L	0.2526 ppb	02:40:57
3	Cu 324.752†	6839.0	194.8	0.5629 ug/L	0.5629 ppb	02:40:57
3	Mn 257.610†	566.9	91.4	0.0841 ug/L	0.0841 ppb	02:41:17
3	Mo 202.031†	13.4	11.0	0.7490 ug/L	0.7490 ppb	02:41:17
3	Ni 231.604†	114.1	34.3	0.7792 ug/L	0.7792 ppb	02:41:17
3	P 214.914†	222.8	-5.0	-2.6532 ug/L	-2.6532 ppb	02:41:17
3	Pb 220.353†	-89.2	-20.7	-2.2662 ug/L	-2.2662 ppb	02:41:17
3	S 181.975 Axial†	55.8	5.6	6.7447 ug/L	6.7447 ppb	02:41:17
3	Sb 206.836†	41.1	6.8	2.0825 ug/L	2.0825 ppb	02:41:17
3	Se 196.026†	-31.6	-3.1	-1.6879 ug/L	-1.6879 ppb	02:41:17
3	Si 251.611†	550.5	77.4	2.2937 ug/L	2.2937 ppb	02:41:17
3	Sn 189.927†	11.3	-6.0	-0.9724 ug/L	-0.9724 ppb	02:41:17
3	Ti 334.940†	-1671.8	-27.2	-0.0562 ug/L	-0.0562 ppb	02:40:57
3	Tl 190.801†	-42.4	-0.4	-0.1128 ug/L	-0.1128 ppb	02:41:17
3	U 409.014†	-4430.8	-238.3	-7.7334 ug/L	-7.7334 ppb	02:40:57
3	V 292.402†	-1715.4	-58.8	-0.4068 ug/L	-0.4068 ppb	02:40:57
3	Zn 213.857†	710.6	-13.3	-0.1183 ug/L	-0.1183 ppb	02:41:17
3	SiO2†	579.9	64.7	4.1121 ug/L	4.1121 ppb	02:41:32

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	840418.9	97.185 %	0.8988			0.92%
Sc Radial	3666.6	92.6 %	0.24			0.26%
Y 371.029	663930.9	97.337 %	0.9831			1.01%
Y RADIAL	4105.8	90.47 %	0.936			1.04%
Ag 328.068†	-29.6	-0.1381 ug/L	0.01450	-0.1381 ppb	0.01450	10.50%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-12.4	-11.126 ug/L	7.2539	-11.126 ppb	7.2539	65.20%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	6.2	2.3531 ug/L	1.87490	2.3531 ppb	1.87490	79.68%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-2.9	-0.0581 ug/L	0.89039	-0.0581 ppb	0.89039	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	21.8	0.1632 ug/L	0.01850	0.1632 ppb	0.01850	11.34%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	20.2	0.0068 ug/L	0.04173	0.0068 ppb	0.04173	617.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.4	-4.8115 ug/L	5.90103	-4.8115 ppb	5.90103	122.64%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	-25.5	-0.2642 ug/L	0.04165	-0.2642 ppb	0.04165	15.77%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	-2.3	-0.0415 ug/L	0.11636	-0.0415 ppb	0.11636	280.17%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-16.8	-0.1774 ug/L	0.38817	-0.1774 ppb	0.38817	218.83%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	194.6	0.5605 ug/L	0.25351	0.5605 ppb	0.25351	45.23%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-1.9	-22.625 ug/L	12.5195	-22.625 ppb	12.5195	55.34%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	239.6	41.788 ug/L	12.3588	41.788 ppb	12.3588	29.58%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	1.0	43.968 ug/L	139.8349	43.968 ppb	139.8349	318.04%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	108.3	0.1068 ug/L	0.04168	0.1068 ppb	0.04168	39.02%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	8.4	0.5709 ug/L	0.49293	0.5709 ppb	0.49293	86.34%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-46.6	-13.357 ug/L	12.5827	-13.357 ppb	12.5827	94.21%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	21.2	0.4822 ug/L	0.48326	0.4822 ppb	0.48326	100.21%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-2.7	-1.4921 ug/L	1.47173	-1.4921 ppb	1.47173	98.64%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-9.0	-0.9882 ug/L	2.11355	-0.9882 ppb	2.11355	213.88%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	0.4	0.5244 ug/L	9.87464	0.5244 ppb	9.87464	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	8.9	2.7169 ug/L	2.01578	2.7169 ppb	2.01578	74.19%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	1.3	0.6478 ug/L	2.79800	0.6478 ppb	2.79800	431.94%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	88.9	2.6369 ug/L	0.29949	2.6369 ppb	0.29949	11.36%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-11.2	-1.8197 ug/L	0.84622	-1.8197 ppb	0.84622	46.50%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-5.3	-0.0355 ug/L	0.17491	-0.0355 ppb	0.17491	493.23%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-36.9	-0.0583 ug/L	0.03353	-0.0583 ppb	0.03353	57.50%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	1.2	0.3454 ug/L	0.59794	0.3454 ppb	0.59794	173.14%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-171.3	-5.5563 ug/L	2.21572	-5.5563 ppb	2.21572	39.88%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-30.7	-0.2111 ug/L	0.31635	-0.2111 ppb	0.31635	149.89%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-9.6	-0.0837 ug/L	0.04480	-0.0837 ppb	0.04480	53.50%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		55.5	3.5246 ug/L	0.82321	3.5246 ppb	0.82321	23.36%
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, February 13, 2010 14:53:47

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\100125\Sample.320

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	1166.8	1166.848	36.468	3.1
Mg	24.0	14132.2	14132.187	94.630	0.7
Co	58.9	44494.4	44494.392	551.949	1.2
Rh	102.9	86899.9	86899.920	746.363	0.9
In	114.9	120318.0	120317.952	320.860	0.3
Pb	208.0	48341.3	48341.261	540.347	1.1
[> Ba	137.9	96325.0	96324.966	554.527	0.6
[Ba++	69.0	1075.7	0.011	0.000	3.4
[> Ce	139.9	112930.2	112930.212	483.271	0.4
[CeO	155.9	2573.6	0.023	0.000	1.7
Bkgd	220.0	2.2	2.200	0.570	25.9

Current Optimization File Data

Current Value	Description
0.91	Nebulizer Gas Flow
4.50	Lens Voltage
1000.00	ICP RF Power
-2000.00	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	17	4.3	920.7
Co	59	17	4.8	30244.0
In	115	17	5.5	86185.9

ICPMS #4 TUNING REPORT

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	603	2060	0.705
Be	9.0	9.0	2045	2045	0.720
Mg	24.0	24.0	5678	2065	0.711
Mg	25.0	25.0	5941	2080	0.701
Mg	26.0	26.0	6157	2085	0.699
Co	58.9	59.0	14186	2140	0.662
Rh	102.9	102.9	24867	2230	0.676
In	114.9	114.9	27777	2255	0.695
Ce	139.9	139.9	33853	2310	0.661
Pb	206.0	205.9	49924	2500	0.612
Pb	207.0	206.9	50101	2375	0.618
Pb	208.0	208.0	50436	2570	0.602
U	238.1	238.1	57689	2510	0.645

ICPMS#4 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, February 13, 2010 17:54:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\Blank.067

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		133245	
[	U	238	ug/L		108	

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Simple Linear	
U	238Simple Linear	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Saturday, February 13, 2010 17:54:18

Page 1

ICPMS#4 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, February 13, 2010 17:56:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\Standard 1.068

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		133045	133045.347
[	U 238	10.000	ug/L	0.899	113896	0.855

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175					
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Saturday, February 13, 2010 17:56:27

Page 1

ICPMS#4 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, February 13, 2010 17:57:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\Standard 2.069

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		132397	132397.025
[	U 238	99.978	ug/L	1.656	1108159	8.370

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175					
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, February 13, 2010 17:59:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 1.070

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		132454	132453.536
[	U 238	52.696	ug/L	0.359	584429	4.412

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			99.4		
[U 238	105.393				

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

Sample ID: QC Std 1

Report Date/Time: Saturday, February 13, 2010 17:59:46

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, February 13, 2010 18:01:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 2.071

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		133000	132999.689
[	U 238	0.032	ug/L	2.638	467	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			99.8		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, February 13, 2010 18:03:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 3.072

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		134508	134508.356
[	U 238	0.247	ug/L	0.076	2885	0.021

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			100.9		
[U 238	123.260				

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

Sample ID: QC Std 3

Report Date/Time: Saturday, February 13, 2010 18:03:11

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, February 13, 2010 18:04:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 4.073

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		125043	125043.467
[	U	238	ug/L	92.634	89	-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 % Diff	Dup. Rel. % Diff
[>	Lu	175		93.8		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, February 13, 2010 18:06:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 5.074

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		125216	125215.619
[	U 238	19.703	ug/L	0.737	206640	1.649

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			94.0		
[U 238	98.513				

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

Sample ID: QC Std 5

Report Date/Time: Saturday, February 13, 2010 18:06:34

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 13, 2010 18:08:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.075

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		130951	130950.758
[	U 238	53.170	ug/L	0.111	582989	4.451

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			98.3		
[U 238	106.339				

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

Sample ID: QC Std 6

Report Date/Time: Saturday, February 13, 2010 18:08:16

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 13, 2010 18:09:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.076

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		124780	124779.841
[	U	238	ug/L	4.215	383	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		93.6		
[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

Sample ID: QC Std 7

Report Date/Time: Saturday, February 13, 2010 18:10:00

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 13, 2010 18:21:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.083

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		127120	127120.012
[U 238	54.345	ug/L	0.583	578437	4.550

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			95.4		
[U 238	108.689				

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#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 13, 2010 18:23:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.084

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		124686	124686.072
[	U	238	0.027 ug/L	4.586	384	0.002

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		93.6		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Saturday, February 13, 2010 18:23:42

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 13, 2010 18:37:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.092

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		126412	126412.105
[	U 238	55.068	ug/L	0.873	582853	4.610

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			94.9		
[	U 238	110.135				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	U	238CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

Sample ID: QC Std 6

Report Date/Time: Saturday, February 13, 2010 18:37:25

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 13, 2010 18:38:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.093

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		126115	126114.858
[	U	238	0.030 ug/L	3.033	420	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		94.6		
[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

Sample ID: QC Std 7

Report Date/Time: Saturday, February 13, 2010 18:39:09

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202021617

Sample Date/Time: Saturday, February 13, 2010 18:40:41

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944127[2]skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\1202021617.094

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		127943	127943.067
[	U 238	0.003	ug/L	31.542	138	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 % Diff	Dup. Rel. % Diff
[>	Lu 175			96.0		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021617

Report Date/Time: Saturday, February 13, 2010 18:40:54

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202021622

Sample Date/Time: Saturday, February 13, 2010 18:42:24

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944127|40|sk|

Method File: c:\elandata\Method\lu only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\1202021622.095

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		128067	128067.093
[	U 238	0.426	ug/L	1.722	4668	0.036

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			96.1		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245113001

Sample Date/Time: Saturday, February 13, 2010 18:44:06

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|sk|

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113001.096

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		132382	132382.201
[	U 238	50.007	ug/L	0.227	554312	4.186

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			99.4		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113001

Report Date/Time: Saturday, February 13, 2010 18:44:18

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202021618

Sample Date/Time: Saturday, February 13, 2010 18:45:49

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944127|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\1202021618.097

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		130195	130194.559
[	U	238	34.987 ug/L	0.634	381436	2.929

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.7		
[U	238				

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

Sample ID: 1202021618

Report Date/Time: Saturday, February 13, 2010 18:46:01

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202021620

Sample Date/Time: Saturday, February 13, 2010 18:47:32

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944127[2]skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\1202021620.098

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		130682	130681.800
[U 238	68.332	ug/L	1.345	747715	5.721

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			98.1		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202021621

Sample Date/Time: Saturday, February 13, 2010 18:49:16

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 944127[2]skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\1202021621.099

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		132862	132862.033
[	U 238	71.988	ug/L	0.550	800781	6.027

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			99.7		
[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

Sample ID: 1202021621

Report Date/Time: Saturday, February 13, 2010 18:49:29

Page 1

ICPMS#4 - Summary Report

Sample ID: 1202021619

Sample Date/Time: Saturday, February 13, 2010 18:51:01

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944127|10|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\1202021619.100

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		129498	129497.981
[U 238	9.707	ug/L	1.408	105331	0.813

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			97.2		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021619

Report Date/Time: Saturday, February 13, 2010 18:51:14

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 13, 2010 18:52:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.101

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		123789	123788.635
[	U 238	54.195	ug/L	0.733	561707	4.537

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			92.9		
[U 238	108.389				

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

Sample ID: QC Std 6

Report Date/Time: Saturday, February 13, 2010 18:52:56

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 13, 2010 18:54:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.102

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		123745	123744.892
[	U 238	0.033	ug/L	4.217	447	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			92.9		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Saturday, February 13, 2010 18:54:41

Page 1

ICPMS#4 - Summary Report

Sample ID: 245113002

Sample Date/Time: Saturday, February 13, 2010 18:56:13

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113002.103

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		128475	128475.070
[U 238	6.300	ug/L	1.179	67860	0.527

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			96.4		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113002

Report Date/Time: Saturday, February 13, 2010 18:56:26

Page 1

ICPMS#4 - Summary Report

Sample ID: 245113003

Sample Date/Time: Saturday, February 13, 2010 18:57:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127[2]skj

Method File: c:\elandata\Method\w only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113003.104

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		129017	129016.596
[	U 238	14.646	ug/L	0.743	158292	1.226

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			96.8		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113003

Report Date/Time: Saturday, February 13, 2010 18:58:09

Page 1

ICPMS#4 - Summary Report

Sample ID: 245113004

Sample Date/Time: Saturday, February 13, 2010 18:59:40

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113004.105

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		129110	129109.518
[	U 238	15.800	ug/L	1.375	170860	1.323

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			96.9		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245113005

Sample Date/Time: Saturday, February 13, 2010 19:01:23

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|sk|

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113005.106

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		130764	130764.108
[	U 238	24.935	ug/L	0.275	273077	2.087

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			98.1		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245113006

Sample Date/Time: Saturday, February 13, 2010 19:03:07

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127[2]sk

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113006.107

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		130296	130295.799
[	U	238	2.727 ug/L	1.153	29852	0.228

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.8		
[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#4 - Summary Report

Sample ID: 245113007

Sample Date/Time: Saturday, February 13, 2010 19:04:52

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113007.108

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		133135	133134.929
[	U 238	18.017	ug/L	0.871	200900	1.508

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			99.9		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113007

Report Date/Time: Saturday, February 13, 2010 19:05:05

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 13, 2010 19:06:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.109

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		125201	125201.183
[	U 238	53.677	ug/L	0.871	562691	4.494

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			94.0		
[U 238	107.355				

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

Sample ID: QC Std 6

Report Date/Time: Saturday, February 13, 2010 19:06:47

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 13, 2010 19:08:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.110

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		124477	124476.638
[U 238	0.029	ug/L	3.003	403	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			93.4		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Saturday, February 13, 2010 19:08:32

Page 1

ICPMS#4 - Summary Report

Sample ID: 245113008

Sample Date/Time: Saturday, February 13, 2010 19:10:04

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113008.111

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		135355	135354.569
[	U 238	3.666	ug/L	0.102	41652	0.307

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			101.6		
[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#4 - Summary Report

Sample ID: 245113009

Sample Date/Time: Saturday, February 13, 2010 19:11:50

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127[2]skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113009.112

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		131411	131411.011
[	U 238	9.425	ug/L	1.508	103785	0.789

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			98.6		
[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

Sample ID: 245113009

Report Date/Time: Saturday, February 13, 2010 19:12:04

Page 1

ICPMS#4 - Summary Report

Sample ID: 245113010

Sample Date/Time: Saturday, February 13, 2010 19:13:34

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127[2]skj

Method File: c:\elandata\Method\w only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113010.113

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		133359	133358.902
[	U 238	5.119	ug/L	0.614	57255	0.429

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			100.1		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245113011

Sample Date/Time: Saturday, February 13, 2010 19:15:18

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113011.114

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		130544	130544.094
[	U	238	4.955 ug/L	0.292	54258	0.415

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		98.0		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113011

Report Date/Time: Saturday, February 13, 2010 19:15:31

Page 1

ICPMS#4 - Summary Report

Sample ID: 245113012

Sample Date/Time: Saturday, February 13, 2010 19:17:02

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113012.115

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		131496	131496.414
[	U 238	3.013	ug/L	1.310	33273	0.252

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			98.7		
[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#4 - Summary Report

Sample ID: 245113013

Sample Date/Time: Saturday, February 13, 2010 19:18:47

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113013.116

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		130950	130950.092
[	U	238	2.291 ug/L	1.167	25222	0.192

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		98.3		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113013

Report Date/Time: Saturday, February 13, 2010 19:19:00

Page 1

ICPMS#4 - Summary Report

Sample ID: 245113014

Sample Date/Time: Saturday, February 13, 2010 19:20:32

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127[2]skj

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\245113014.117

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		131622	131621.583
[U 238	5.479	ug/L	1.022	60477	0.459

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			98.8		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113014

Report Date/Time: Saturday, February 13, 2010 19:20:45

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 13, 2010 19:22:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.118

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		127443	127442.892
[	U 238	54.298	ug/L	0.522	579423	4.546

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			95.6		
[U 238	108.595				

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

Sample ID: QC Std 6

Report Date/Time: Saturday, February 13, 2010 19:22:28

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 13, 2010 19:23:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only no lrs.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.119

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		126455	126454.859
[	U 238	0.026	ug/L	3.052	376	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			94.9		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Saturday, February 13, 2010 19:24:12

Page 1

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Thursday, February 11, 2010 10:54:49

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.448

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	3282.4	3282.377	72.587	2.2
Mg	24.0	37676.0	37676.019	284.629	0.8
Co	58.9	89175.9	89175.882	762.374	0.9
Rh	102.9	162269.9	162269.932	2201.988	1.4
In	114.9	223768.6	223768.626	2012.684	0.9
Pb	208.0	234733.2	234733.170	2679.018	1.1
[> Ba	137.9	216113.0	216113.021	1814.306	0.8
[Ba++	69.0	4053.4	0.019	0.000	1.1
[> Ce	139.9	271406.7	271406.654	2415.007	0.9
[CeO	155.9	7019.2	0.026	0.001	3.2
Bkgd	220.0	10.8	10.800	4.424	41.0

Current Optimization File Data

Current Value	Description
0.90	Nebulizer Gas Flow
10.25	Lens Voltage
1450.00	ICP RF Power
-1718.75	Analog Stage Voltage
1200.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	10.3	5020.9
Co	59	21	11.5	81747.9
In	115	21	13.0	216964.8

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	583	2060	0.649
Be	9.0	9.0	2053	2080	0.633
Mg	24.0	24.0	5689	2090	0.582
Mg	25.0	25.0	5941	2085	0.613
Mg	26.0	26.0	6157	2085	0.637
Co	58.9	58.9	14182	2115	0.609
Rh	102.9	102.9	24881	2175	0.598
In	114.9	114.9	27795	2190	0.610
Ce	139.9	139.9	33867	2210	0.619
Pb	206.0	206.0	49948	2300	0.607
Pb	207.0	207.0	50159	2245	0.634
Pb	208.0	208.0	50451	2280	0.689
U	238.1	238.1	57733	2300	0.688

ICPMS#5 - Summary Report

Sample ID: Blank
 Sample Date/Time: Thursday, February 11, 2010 19:57:33
 Sample Type:
 Sample Description:
 Number of Replicates: 3
 Batch ID:
 Method File: c:\elandata\Method\6020 2.mth
 Dataset File: C:\elandata\Dataset\100211\Blank.165

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7		ug/L		34	
|	Be	9		ug/L		15	
|	B	11		ug/L		564	
|	Na	23		ug/L		20682	
|	Mg	24		ug/L		4001	
|	Al	27		ug/L		6668	
|	P	31		ug/L		7202	
|	K	39		ug/L		434515	
|	Ca	43		ug/L		171	
>	Sc	45		ug/L		396086	
|	Ti	47		ug/L		253	
|	V	51		ug/L		4711	
|	Cr	52		ug/L		2311	
|	Cr	53		ug/L		90698	
|	Mn	55		ug/L		922	
|	Fe	57		ug/L		4051	
|	Co	59		ug/L		99	
|	Ni	60		ug/L		119	
|	Cu	63		ug/L		138	
|	Cu	65		ug/L		99	
|	Zn	66		ug/L		224	
|	Zn	67		ug/L		10244	
|	Zn	68		ug/L		1001	
>	Ge	74		ug/L		356838	
|	As	75		ug/L		-432	
|	Se	77		ug/L		5380	
|	Se	82		ug/L		25	
|	Kr	83		ug/L		76	
|	Sr	88		ug/L		183	
|	Y	89		ug/L		44	
|	Mo	98		ug/L		111	
|	Ag	107		ug/L		49	
|	Cd	111		ug/L		17	
|	Cd	114		ug/L		46	
>	In	115		ug/L		247079	
|	Sn	120		ug/L		263	
|	Sb	121		ug/L		291	
|	Sb	123		ug/L		244	
|	Ba	135		ug/L		30	
|	Ba	137		ug/L		42	
|	Ho	165		ug/L		12	
>	Lu	175		ug/L		452785	
|	Tl	205		ug/L		829	
|	Pb	208		ug/L		482	
|	Bi	209		ug/L		206	
|	Th	232		ug/L		662	
|	U	238		ug/L		516	

Sample ID: Blank
 Report Date/Time: Thursday, February 11, 2010 20:00:17
 Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	
Be	9Linear Thru Zero	
B	11Simple Linear	
Na	23Simple Linear	
Mg	24Simple Linear	
Al	27Simple Linear	
P	31Simple Linear	
K	39Simple Linear	
Ca	43Simple Linear	
Sc	45Linear Thru Zero	
Ti	47Simple Linear	
V	51Simple Linear	
Cr	52Simple Linear	
Cr	53Simple Linear	
Mn	55Simple Linear	
Fe	57Simple Linear	
Co	59Simple Linear	
Ni	60Simple Linear	
Cu	63Simple Linear	
Cu	65Simple Linear	
Zn	66Simple Linear	
Zn	67Simple Linear	
Zn	68Simple Linear	
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Sr	88Simple Linear	
Y	89Simple Linear	
Mo	98Simple Linear	
Ag	107Simple Linear	
Cd	111Simple Linear	
Cd	114Simple Linear	
In	115Simple Linear	
Sn	120Simple Linear	
Sb	121Simple Linear	
Sb	123Simple Linear	
Ba	135Simple Linear	
Ba	137Simple Linear	
Ho	165Simple Linear	
Lu	175Simple Linear	
Tl	205Simple Linear	
Pb	208Simple Linear	
Bi	209Simple Linear	
Th	232Simple Linear	
U	238Simple Linear	

Sample ID: Blank

Report Date/Time: Thursday, February 11, 2010 20:00:17

Page 2

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
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					
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					
Bi	209					
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: Blank

Report Date/Time: Thursday, February 11, 2010 20:00:17

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ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, February 11, 2010 20:03:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\Standard 1.166

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	3.175	17973	0.045
Be	9	10.000	ug/L	3.035	4962	0.012
B	11	20.000	ug/L	0.410	11054	0.026
Na	23	1000.000	ug/L	8.107	4530902	11.312
Mg	24	1000.000	ug/L	7.826	3064119	7.678
Al	27	1000.000	ug/L	5.384	4195868	10.504
P	31	1000.000	ug/L	1.908	244409	0.595
K	39	1000.000	ug/L	9.135	5608002	12.972
Ca	43	1000.000	ug/L	2.175	12686	0.031
> Sc	45		ug/L		398728	398727.865
Ti	47	10.000	ug/L	3.149	6442	0.016
V	51	10.000	ug/L	6.366	67431	0.157
Cr	52	10.000	ug/L	0.416	53244	0.128
Cr	53		ug/L		90006	-0.003
Mn	55	10.000	ug/L	1.705	86652	0.215
Fe	57	1000.000	ug/L	2.413	174128	0.427
Co	59	10.000	ug/L	1.085	64931	0.163
Ni	60	10.000	ug/L	1.165	13932	0.035
Cu	63		ug/L		32633	0.081
Cu	65	10.000	ug/L	1.188	15815	0.039
Zn	66	10.000	ug/L	1.020	10828	0.029
Zn	67		ug/L		11363	0.003
Zn	68		ug/L		8404	0.020
> Ge	74		ug/L		360715	360715.161
As	75	10.000	ug/L	5.796	9453	0.027
Se	77		ug/L		5675	0.001
Se	82	10.000	ug/L	9.775	1113	0.003
Kr	83		ug/L		71	-0.000
Sr	88	10.000	ug/L	1.033	129918	0.522
Y	89		ug/L		52	0.000
Mo	98	10.000	ug/L	1.350	30136	0.121
Ag	107	10.000	ug/L	1.513	54671	0.220
Cd	111	10.000	ug/L	3.102	13771	0.055
Cd	114		ug/L		32285	0.130
> In	115		ug/L		248665	248665.358
Sn	120	10.000	ug/L	1.200	57948	0.232
Sb	121	10.000	ug/L	3.345	43739	0.175
Sb	123		ug/L		33994	0.136
Ba	135		ug/L		14074	0.031
Ba	137	10.000	ug/L	1.478	24928	0.054
Ho	165		ug/L		12	-0.000
> Lu	175		ug/L		458919	458918.633
Tl	205	10.000	ug/L	1.554	198896	0.432
Pb	208	10.000	ug/L	2.308	333556	0.726
Bi	209		ug/L		262	0.000
Th	232	10.000	ug/L	1.468	392508	0.854
U	238	10.000	ug/L	1.255	416507	0.907

Sample ID: Standard 1

Report Date/Time: Thursday, February 11, 2010 20:06:21

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	
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
Bi	209Linear Thru Zero	
Th	232Linear 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
|	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					
|	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					
|	Bi	209					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, February 11, 2010 20:09:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\Standard 2.167

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	100.027	ug/L	2.608	177939	0.462
Be	9	100.001	ug/L	0.736	47816	0.124
B	11	200.008	ug/L	0.638	102150	0.264
Na	23	10003.877	ug/L	2.765	45331068	117.725
Mg	24	9999.178	ug/L	5.666	29300639	76.148
Al	27	9992.847	ug/L	7.301	37710089	97.959
P	31	9987.713	ug/L	3.843	2042822	5.290
K	39	10004.886	ug/L	4.351	52947622	136.455
Ca	43	9999.785	ug/L	2.810	120662	0.313
> Sc	45		ug/L		384817	384816.861
Ti	47	99.991	ug/L	1.539	59436	0.154
V	51	99.998	ug/L	0.353	608663	1.570
Cr	52	99.950	ug/L	0.450	469857	1.215
Cr	53		ug/L		126203	0.099
Mn	55	99.932	ug/L	0.369	775092	2.012
Fe	57	9986.136	ug/L	0.396	1443487	3.741
Co	59	99.934	ug/L	0.635	586814	1.525
Ni	60	99.968	ug/L	1.529	129289	0.336
Cu	63		ug/L		300980	0.782
Cu	65	99.973	ug/L	1.065	147744	0.384
Zn	66	99.962	ug/L	1.310	98479	0.283
Zn	67		ug/L		24293	0.041
Zn	68		ug/L		70555	0.200
> Ge	74		ug/L		347218	347217.710
As	75	100.010	ug/L	2.616	95784	0.277
Se	77		ug/L		11874	0.019
Se	82	100.008	ug/L	2.180	10584	0.030
Kr	83		ug/L		78	0.000
Sr	88	99.908	ug/L	2.648	1140859	4.773
Y	89		ug/L		147	0.000
Mo	98	100.004	ug/L	1.431	289824	1.212
Ag	107	99.954	ug/L	3.380	501571	2.099
Cd	111	99.990	ug/L	2.201	130901	0.548
Cd	114		ug/L		306353	1.282
> In	115		ug/L		239023	239023.410
Sn	120	99.965	ug/L	1.608	535537	2.240
Sb	121	100.000	ug/L	2.653	417694	1.747
Sb	123		ug/L		326909	1.367
Ba	135		ug/L		133792	0.300
Ba	137	99.984	ug/L	1.020	237779	0.534
Ho	165		ug/L		21	0.000
> Lu	175		ug/L		445535	445535.411
Tl	205	99.797	ug/L	3.259	1595236	3.579
Pb	208	99.855	ug/L	1.449	2820468	6.330
Bi	209		ug/L		463	0.001
Th	232	99.725	ug/L	3.176	2976147	6.680
U	238	99.735	ug/L	1.700	3183800	7.146

Sample ID: Standard 2

Report Date/Time: Thursday, February 11, 2010 20:12:26

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
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					
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					
Bi	209					
Th	232					
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: Thursday, February 11, 2010 20:12:26

Page 3

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, February 11, 2010 20:15:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 1.168

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.186	ug/L	2.037	92636	0.237
Be	9	51.463	ug/L	1.153	25035	0.064
B	11	107.164	ug/L	1.753	55926	0.141
Na	23	4484.805	ug/L	3.361	20686710	52.777
Mg	24	5137.758	ug/L	6.093	15329572	39.126
Al	27	5514.096	ug/L	2.901	21171610	54.054
P	31	5318.776	ug/L	2.386	1109753	2.817
K	39	5069.324	ug/L	10.041	27512681	69.140
Ca	43	4950.806	ug/L	1.125	60849	0.155
> Sc	45		ug/L		391440	391439.826
Ti	47	50.112	ug/L	1.885	30420	0.077
V	51	51.413	ug/L	2.848	320496	0.807
Cr	52	51.929	ug/L	1.578	249405	0.631
Cr	53		ug/L		98629	0.023
Mn	55	52.236	ug/L	0.843	412520	1.052
Fe	57	5373.446	ug/L	3.040	791706	2.013
Co	59	51.688	ug/L	1.293	308742	0.789
Ni	60	52.333	ug/L	2.472	68890	0.176
Cu	63		ug/L		158122	0.404
Cu	65	51.604	ug/L	0.884	77612	0.198
Zn	66	53.308	ug/L	2.495	53720	0.151
Zn	67		ug/L		16809	0.019
Zn	68		ug/L		38100	0.105
> Ge	74		ug/L		354635	354634.536
As	75	48.475	ug/L	2.382	47181	0.134
Se	77		ug/L		7959	0.007
Se	82	49.737	ug/L	2.561	5387	0.015
Kr	83		ug/L		76	0.000
Sr	88	52.860	ug/L	2.280	617640	2.525
Y	89		ug/L		70	0.000
Mo	98	50.158	ug/L	2.088	148764	0.608
Ag	107	51.697	ug/L	2.573	265431	1.086
Cd	111	50.507	ug/L	2.565	67653	0.277
Cd	114		ug/L		160187	0.655
> In	115		ug/L		244547	244547.427
Sn	120	51.145	ug/L	1.677	280438	1.146
Sb	121	52.061	ug/L	1.997	222629	0.909
Sb	123		ug/L		173314	0.708
Ba	135		ug/L		68447	0.151
Ba	137	50.388	ug/L	0.431	122047	0.269
Ho	165		ug/L		37	0.000
> Lu	175		ug/L		453672	453672.223
Tl	205	53.279	ug/L	1.887	867810	1.911
Pb	208	54.203	ug/L	0.930	1559341	3.436
Bi	209		ug/L		526	0.001
Th	232	54.414	ug/L	1.330	1654252	3.645
U	238	55.112	ug/L	0.677	1791856	3.949

Sample ID: QC Std 1

Report Date/Time: Thursday, February 11, 2010 20:18:30

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7	102.372				
Be	9	102.925				
B	11	107.164				
Na	23	89.696				
Mg	24	102.755				
Al	27	109.190				
P	31	106.376				
K	39	101.386				
Ca	43	99.016				
> Sc	45		98.8			
Ti	47	100.225				
V	51	102.826				
Cr	52	103.858				
Cr	53					
Mn	55	104.472				
Fe	57	107.469				
Co	59	103.376				
Ni	60	104.666				
Cu	63					
Cu	65	103.209				
Zn	66	106.616				
Zn	67					
Zn	68					
> Ge	74		99.4			
As	75	96.949				
Se	77					
Se	82	99.473				
Kr	83					
Sr	88	105.719				
Y	89					
Mo	98	100.317				
Ag	107	103.394				
Cd	111	101.013				
Cd	114					
> In	115		99.0			
Sn	120	102.290				
Sb	121	104.121				
Sb	123					
Ba	135					
Ba	137	100.776				
Ho	165					
> Lu	175		100.2			
Tl	205	106.557				
Pb	208	108.407				
Bi	209					
Th	232	108.827				
U	238	110.224				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	Na	23	ICV is out of limits (+/- 10%)
QC Std 1	U	238	ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, February 11, 2010 20:21:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 2.169

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.010	ug/L	3.596	53	0.000
Be	9	0.004	ug/L	121.752	17	0.000
B	11	5.485	ug/L	13.874	3492	0.007
Na	23	-0.143	ug/L	500.729	20348	-0.002
Mg	24	-0.244	ug/L	196.947	3334	-0.002
Al	27	0.063	ug/L	1483.551	7002	0.001
P	31	-4.026	ug/L	45.889	6470	-0.002
K	39	-3.882	ug/L	57.356	420776	-0.053
Ca	43	-0.979	ug/L	24.525	162	-0.000
> Sc	45		ug/L		403083	403083.188
Ti	47	-0.022	ug/L	41.958	244	-0.000
V	51	-0.009	ug/L	2605.369	4738	-0.000
Cr	52	-0.092	ug/L	25.871	1904	-0.001
Cr	53		ug/L		79263	-0.032
Mn	55	-0.010	ug/L	6.859	861	-0.000
Fe	57	-0.930	ug/L	40.591	3981	-0.000
Co	59	0.003	ug/L	15.470	117	0.000
Ni	60	-0.004	ug/L	159.068	116	-0.000
Cu	63		ug/L		199	0.000
Cu	65	0.009	ug/L	48.645	114	0.000
Zn	66	0.028	ug/L	45.353	254	0.000
Zn	67		ug/L		9467	-0.002
Zn	68		ug/L		986	-0.000
> Ge	74		ug/L		359187	359187.053
As	75	-0.155	ug/L	130.016	-589	-0.000
Se	77		ug/L		4627	-0.002
Se	82	0.096	ug/L	75.744	36	0.000
Kr	83		ug/L		77	0.000
Sr	88	0.001	ug/L	109.993	198	0.000
Y	89		ug/L		45	0.000
Mo	98	0.046	ug/L	23.639	249	0.001
Ag	107	0.003	ug/L	16.220	66	0.000
Cd	111	0.005	ug/L	33.163	24	0.000
Cd	114		ug/L		48	0.000
> In	115		ug/L		247124	247124.330
Sn	120	0.023	ug/L	30.630	387	0.001
Sb	121	0.526	ug/L	14.582	2561	0.009
Sb	123		ug/L		1995	0.007
Ba	135		ug/L		32	0.000
Ba	137	0.002	ug/L	149.816	48	0.000
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		458066	458066.338
Tl	205	0.213	ug/L	24.762	4350	0.008
Pb	208	-0.000	ug/L	48.451	475	-0.000
Bi	209		ug/L		238	0.000
Th	232	0.042	ug/L	20.557	1974	0.003
U	238	0.003	ug/L	36.621	628	0.000

Sample ID: QC Std 2

Report Date/Time: Thursday, February 11, 2010 20:24:40

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		101.8			
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		100.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		100.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		101.2			
Tl	205					
Pb	208					
Bi	209					
Th	232					
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: Thursday, February 11, 2010 20:24:40

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ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, February 11, 2010 20:28:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 3.170

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.755	ug/L	2.679	20079	0.050
Be	9	0.565	ug/L	4.792	298	0.001
B	11	17.891	ug/L	4.012	10094	0.024
Na	23	238.050	ug/L	3.470	1150575	2.801
Mg	24	15.314	ug/L	6.548	51091	0.117
Al	27	37.218	ug/L	7.859	153826	0.365
P	31	55.376	ug/L	0.726	19157	0.029
K	39	273.960	ug/L	3.548	1949227	3.736
Ca	43	211.404	ug/L	3.760	2843	0.007
> Sc	45		ug/L		403204	403203.956
Ti	47	8.459	ug/L	0.800	5503	0.013
V	51	11.116	ug/L	1.757	75146	0.175
Cr	52	10.787	ug/L	2.048	55225	0.131
Cr	53		ug/L		77321	-0.037
Mn	55	5.839	ug/L	0.321	48335	0.118
Fe	57	120.533	ug/L	1.833	22327	0.045
Co	59	1.119	ug/L	2.899	6984	0.017
Ni	60	2.196	ug/L	1.998	3094	0.007
Cu	63		ug/L		3873	0.009
Cu	65	1.174	ug/L	3.593	1917	0.005
Zn	66	11.825	ug/L	2.000	12237	0.033
Zn	67		ug/L		9968	-0.001
Zn	68		ug/L		9020	0.022
> Ge	74		ug/L		358838	358838.123
As	75	5.837	ug/L	5.993	5368	0.016
Se	77		ug/L		4598	-0.002
Se	82	5.488	ug/L	3.964	624	0.002
Kr	83		ug/L		68	-0.000
Sr	88	12.041	ug/L	0.895	142885	0.575
Y	89		ug/L		40	-0.000
Mo	98	0.563	ug/L	1.675	1805	0.007
Ag	107	1.064	ug/L	2.254	5590	0.022
Cd	111	1.108	ug/L	2.060	1522	0.006
Cd	114		ug/L		3596	0.014
> In	115		ug/L		248073	248072.822
Sn	120	5.548	ug/L	3.197	31095	0.124
Sb	121	3.222	ug/L	4.064	14253	0.056
Sb	123		ug/L		10964	0.043
Ba	135		ug/L		3007	0.007
Ba	137	2.121	ug/L	1.301	5220	0.011
Ho	165		ug/L		15	0.000
> Lu	175		ug/L		457265	457264.929
Tl	205	1.330	ug/L	2.439	22641	0.048
Pb	208	2.486	ug/L	0.811	72554	0.158
Bi	209		ug/L		263	0.000
Th	232	1.415	ug/L	2.298	43989	0.095
U	238	0.293	ug/L	1.548	10122	0.021

Sample ID: QC Std 3

Report Date/Time: Thursday, February 11, 2010 20:30:45

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7	107.546				
Be	9	113.081				
B	11	119.271				
Na	23	95.220				
Mg	24	102.094				
Al	27	124.060				
P	31	110.751				
K	39	91.320				
Ca	43	105.702				
> Sc	45		101.8			
Ti	47	84.590				
V	51	111.158				
Cr	52	107.872				
Cr	53					
Mn	55	116.780				
Fe	57	120.533				
Co	59	111.921				
Ni	60	109.798				
Cu	63					
Cu	65	117.363				
Zn	66	118.246				
Zn	67					
Zn	68					
> Ge	74		100.6			
As	75	116.734				
Se	77					
Se	82	109.765				
Kr	83					
Sr	88	120.411				
Y	89					
Mo	98	112.597				
Ag	107	106.371				
Cd	111	110.784				
Cd	114					
> In	115		100.4			
Sn	120	110.963				
Sb	121	107.409				
Sb	123					
Ba	135					
Ba	137	106.068				
Ho	165					
> Lu	175		101.0			
Tl	205	132.962				
Pb	208	124.316				
Bi	209					
Th	232	141.455				
U	238	146.532				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Ti	205	CRDL is out of limits
QC Std 3	Th	232	CRDL is out of limits
QC Std 3	U	238	CRDL is out of limits

QC Action

Sample ID: QC Std 3
 Report Date/Time: Thursday, February 11, 2010 20:30:45
 Page 3

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, February 11, 2010 20:34:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 4.171

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.111	ug/L	10.844	206	0.001
Be	9	0.115	ug/L	5.762	62	0.000
B	11	2.387	ug/L	2.856	1574	0.003
Na	23	93522.237	ug/L	2.609	378699627	1100.565
Mg	24	97936.375	ug/L	1.025	256619972	745.828
Al	27	100154.722	ug/L	6.088	337803006	981.807
P	31	93950.810	ug/L	1.652	17127210	49.762
K	39	90876.064	ug/L	0.973	426814422	1239.446
Ca	43	92729.902	ug/L	0.848	999142	2.904
> Sc	45		ug/L		344062	344061.707
Ti	47	1714.332	ug/L	1.874	907436	2.637
V	51	-0.208	ug/L	391.152	2961	-0.003
Cr	52	2.468	ug/L	1.093	12330	0.030
Cr	53		ug/L		57156	-0.063
Mn	55	6.135	ug/L	0.822	43298	0.124
Fe	57	96731.860	ug/L	1.728	12470962	36.237
Co	59	0.327	ug/L	2.802	1803	0.005
Ni	60	3.549	ug/L	3.112	4203	0.012
Cu	63		ug/L		7078	0.020
Cu	65	3.527	ug/L	2.986	4743	0.014
Zn	66	4.518	ug/L	2.146	4178	0.013
Zn	67		ug/L		8058	-0.003
Zn	68		ug/L		1411	0.002
> Ge	74		ug/L		311401	311400.954
As	75	0.213	ug/L	122.763	-195	0.001
Se	77		ug/L		5111	0.001
Se	82	-1.319	ug/L	35.801	-103	-0.000
Kr	83		ug/L		235	0.001
Sr	88	3.190	ug/L	1.832	33103	0.152
Y	89		ug/L		386	0.002
Mo	98	1997.708	ug/L	2.800	5233379	24.216
Ag	107	0.112	ug/L	4.227	550	0.002
Cd	111	0.408	ug/L	11.049	499	0.002
Cd	114		ug/L		8221	0.038
> In	115		ug/L		216180	216180.329
Sn	120	0.293	ug/L	0.779	1646	0.007
Sb	121	0.234	ug/L	21.973	1141	0.004
Sb	123		ug/L		880	0.003
Ba	135		ug/L		932	0.002
Ba	137	0.745	ug/L	2.626	1657	0.004
Ho	165		ug/L		7793	0.019
> Lu	175		ug/L		407024	407023.658
Tl	205	0.042	ug/L	7.199	1357	0.002
Pb	208	0.239	ug/L	0.880	6604	0.015
Bi	209		ug/L		4606	0.011
Th	232	0.047	ug/L	42.751	1865	0.003
U	238	-0.007	ug/L	9.570	261	-0.000

Sample ID: QC Std 4

Report Date/Time: Thursday, February 11, 2010 20:36:51

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23	93.522				
Mg	24	97.936				
Al	27	100.155				
P	31	93.951				
K	39	90.876				
Ca	43	92.730				
> Sc	45		86.9			
Ti	47	85.717				
V	51					
Cr	52	74.779				
Cr	53					
Mn	55	105.781				
Fe	57	96.732				
Co	59	139.217				
Ni	60	107.223				
Cu	63					
Cu	65	105.586				
Zn	66	120.156				
Zn	67					
Zn	68					
> Ge	74		87.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88	107.787				
Y	89					
Mo	98	99.885				
Ag	107					
Cd	111	91.987				
Cd	114					
> In	115		87.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137	93.401				
Ho	165					
> Lu	175		89.9			
Tl	205					
Pb	208	126.537				
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, February 11, 2010 20:40:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 5.172

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	22.945	ug/L	2.319	36006	0.106
Be	9	19.806	ug/L	1.269	8358	0.025
B	11	19.538	ug/L	0.736	9231	0.026
Na	23	89514.598	ug/L	1.865	357356984	1053.403
Mg	24	99259.780	ug/L	2.532	256428465	755.906
Al	27	98159.562	ug/L	6.219	326489979	962.249
P	31	94341.566	ug/L	1.574	16957716	49.969
K	39	92233.043	ug/L	4.547	427016512	1257.954
Ca	43	92798.477	ug/L	0.807	985841	2.906
> Sc	45		ug/L		339223	339223.073
Ti	47	1709.271	ug/L	1.311	892083	2.629
V	51	21.621	ug/L	0.712	119175	0.339
Cr	52	23.727	ug/L	0.394	99836	0.288
Cr	53		ug/L		65604	-0.036
Mn	55	27.343	ug/L	1.770	187521	0.550
Fe	57	96740.011	ug/L	1.027	12296495	36.240
Co	59	20.760	ug/L	2.289	107514	0.317
Ni	60	22.906	ug/L	0.967	26193	0.077
Cu	63		ug/L		56448	0.166
Cu	65	22.114	ug/L	1.414	28874	0.085
Zn	66	22.519	ug/L	0.944	19744	0.064
Zn	67		ug/L		10535	0.006
Zn	68		ug/L		12634	0.038
> Ge	74		ug/L		306682	306682.029
As	75	20.986	ug/L	4.231	17459	0.058
Se	77		ug/L		6357	0.006
Se	82	17.989	ug/L	4.341	1699	0.005
Kr	83		ug/L		271	0.001
Sr	88	25.476	ug/L	1.138	259088	1.217
Y	89		ug/L		397	0.002
Mo	98	2010.676	ug/L	0.342	5185350	24.373
Ag	107	19.487	ug/L	0.775	87092	0.409
Cd	111	19.569	ug/L	0.997	22818	0.107
Cd	114		ug/L		60653	0.285
> In	115		ug/L		212746	212746.205
Sn	120	21.023	ug/L	1.192	100433	0.471
Sb	121	21.583	ug/L	0.842	80453	0.377
Sb	123		ug/L		63005	0.295
Ba	135		ug/L		24617	0.063
Ba	137	21.127	ug/L	0.723	43965	0.113
Ho	165		ug/L		7585	0.019
> Lu	175		ug/L		389591	389591.162
Tl	205	22.567	ug/L	2.575	316048	0.809
Pb	208	22.153	ug/L	1.195	547506	1.404
Bi	209		ug/L		4880	0.012
Th	232	25.192	ug/L	1.350	657945	1.687
U	238	26.088	ug/L	0.813	728655	1.869

Sample ID: QC Std 5

Report Date/Time: Thursday, February 11, 2010 20:42:58

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7	114.723				
Be	9	99.030				
B	11	97.690				
Na	23	89.515				
Mg	24	99.260				
Al	27	98.160				
P	31	94.342				
K	39	92.233				
Ca	43	92.798				
> Sc	45		85.6			
Ti	47	85.464				
V	51	108.104				
Cr	52	101.833				
Cr	53					
Mn	55	105.981				
Fe	57	96.740				
Co	59	102.593				
Ni	60	98.268				
Cu	63					
Cu	65	94.747				
Zn	66	94.778				
Zn	67					
Zn	68					
> Ge	74		85.9			
As	75	104.930				
Se	77					
Se	82	89.947				
Kr	83					
Sr	88	110.958				
Y	89					
Mo	98	100.534				
Ag	107	97.433				
Cd	111	95.719				
Cd	114					
> In	115		86.1			
Sn	120	105.115				
Sb	121	107.913				
Sb	123					
Ba	135					
Ba	137	101.581				
Ho	165					
> Lu	175		86.0			
Tl	205	112.837				
Pb	208	109.728				
Bi	209					
Th	232	125.958				
U	238	130.441				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Th	232	ICSAB is out of limits
QC Std 5	U	238	ICSAB is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 6
 Sample Date/Time: Thursday, February 11, 2010 20:46:22
 Sample Type:
 Sample Description:
 Number of Replicates: 3
 Batch ID:
 Method File: c:\elandata\Method\6020 2.mth
 Dataset File: C:\elandata\Dataset\100211\QC Std 6.173

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	58.058	ug/L	2.051	98185	0.268
Be	9	53.134	ug/L	2.673	24148	0.066
B	11	101.734	ug/L	2.365	49661	0.134
Na	23	4448.625	ug/L	4.875	19184677	52.351
Mg	24	5102.140	ug/L	3.732	14213443	38.855
Al	27	5014.321	ug/L	0.690	17986720	49.155
P	31	5168.202	ug/L	1.004	1008070	2.737
K	39	4324.353	ug/L	4.325	21967832	58.979
Ca	43	4874.403	ug/L	0.367	55998	0.153
> Sc	45		ug/L		365832	365832.498
Ti	47	49.500	ug/L	2.227	28078	0.076
V	51	50.886	ug/L	3.284	296488	0.799
Cr	52	51.563	ug/L	2.123	231427	0.627
Cr	53		ug/L		88805	0.014
Mn	55	52.382	ug/L	1.817	386532	1.055
Fe	57	5427.350	ug/L	2.838	747223	2.033
Co	59	50.878	ug/L	2.350	283973	0.776
Ni	60	51.544	ug/L	2.448	63399	0.173
Cu	63		ug/L		146681	0.401
Cu	65	50.444	ug/L	1.935	70891	0.194
Zn	66	52.054	ug/L	2.895	48924	0.147
Zn	67		ug/L		15081	0.017
Zn	68		ug/L		34863	0.103
> Ge	74		ug/L		330745	330745.418
As	75	48.500	ug/L	0.206	44041	0.134
Se	77		ug/L		7585	0.008
Se	82	48.541	ug/L	0.562	4905	0.015
Kr	83		ug/L		72	0.000
Sr	88	52.999	ug/L	0.859	569435	2.532
Y	89		ug/L		82	0.000
Mo	98	50.441	ug/L	1.872	137563	0.611
Ag	107	52.182	ug/L	0.601	246385	1.096
Cd	111	50.823	ug/L	1.768	62601	0.278
Cd	114		ug/L		146948	0.653
> In	115		ug/L		224827	224826.804
Sn	120	50.667	ug/L	0.741	255465	1.135
Sb	121	51.002	ug/L	1.547	200551	0.891
Sb	123		ug/L		156303	0.694
Ba	135		ug/L		60357	0.145
Ba	137	48.745	ug/L	1.143	108315	0.260
Ho	165		ug/L		31	0.000
> Lu	175		ug/L		416204	416203.683
Tl	205	51.993	ug/L	0.407	776908	1.865
Pb	208	52.886	ug/L	1.131	1395687	3.353
Bi	209		ug/L		487	0.001
Th	232	55.277	ug/L	0.761	1541573	3.703
U	238	55.835	ug/L	1.707	1665259	4.000

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

Sample ID: QC Std 6

Report Date/Time: Thursday, February 11, 2010 20:49:05

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	116.116				
Be	9	106.267				
B	11	101.734				
Na	23	88.972				
Mg	24	102.043				
Al	27	99.293				
P	31	103.364				
K	39	86.487				
Ca	43	97.488				
> Sc	45		92.4			
Ti	47	99.001				
V	51	101.772				
Cr	52	103.126				
Cr	53					
Mn	55	104.763				
Fe	57	108.547				
Co	59	101.756				
Ni	60	103.088				
Cu	63					
Cu	65	100.888				
Zn	66	104.108				
Zn	67					
Zn	68					
> Ge	74		92.7			
As	75	97.000				
Se	77					
Se	82	97.081				
Kr	83					
Sr	88	105.997				
Y	89					
Mo	98	100.882				
Ag	107	104.365				
Cd	111	101.645				
Cd	114					
> In	115		91.0			
Sn	120	101.335				
Sb	121	102.004				
Sb	123					
Ba	135					
Ba	137	97.490				
Ho	165					
> Lu	175		91.9			
Tl	205	103.986				
Pb	208	105.772				
Bi	209					
Th	232	110.553				
U	238	111.670				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	Na	23	23CCV is out of limits (+/- 10%)
QC Std 6	K	39	39CCV is out of limits (+/- 10%)
QC Std 6	Th	232	232CCV is out of limits (+/- 10%)
QC Std 6	U	238	238CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, February 11, 2010 20:52:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 7.174

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.023	ug/L	37.047	71	0.000
Be	9	0.005	ug/L	22.420	16	0.000
B	11	3.579	ug/L	18.063	2311	0.005
Na	23	-0.292	ug/L	366.671	18346	-0.003
Mg	24	0.542	ug/L	201.031	5335	0.004
Al	27	1.271	ug/L	59.441	11004	0.012
P	31	-3.460	ug/L	33.889	6154	-0.002
K	39	3.041	ug/L	20.404	428671	0.041
Ca	43	1.742	ug/L	78.620	183	0.000
> Sc	45		ug/L		376535	376535.015
Ti	47	0.036	ug/L	53.504	261	0.000
V	51	-0.314	ug/L	164.044	2623	-0.005
Cr	52	0.171	ug/L	6.732	2979	0.002
Cr	53		ug/L		75321	-0.029
Mn	55	-0.005	ug/L	112.700	837	-0.000
Fe	57	2.666	ug/L	5.521	4227	0.001
Co	59	0.000	ug/L	379.107	95	0.000
Ni	60	-0.012	ug/L	47.295	97	-0.000
Cu	63		ug/L		154	0.000
Cu	65	0.004	ug/L	196.911	99	0.000
Zn	66	0.021	ug/L	117.225	234	0.000
Zn	67		ug/L		8456	-0.004
Zn	68		ug/L		799	-0.000
> Ge	74		ug/L		339803	339802.706
As	75	0.137	ug/L	77.106	-283	0.000
Se	77		ug/L		4947	-0.001
Se	82	-0.003	ug/L	4378.509	24	-0.000
Kr	83		ug/L		66	-0.000
Sr	88	-0.000	ug/L	28843.332	170	-0.000
Y	89		ug/L		40	-0.000
Mo	98	0.074	ug/L	19.561	309	0.001
Ag	107	0.001	ug/L	101.361	50	0.000
Cd	111	0.008	ug/L	74.624	26	0.000
Cd	114		ug/L		46	0.000
> In	115		ug/L		229683	229683.491
Sn	120	0.013	ug/L	23.179	312	0.000
Sb	121	0.203	ug/L	25.314	1084	0.004
Sb	123		ug/L		895	0.003
Ba	135		ug/L		26	-0.000
Ba	137	0.001	ug/L	103.950	43	0.000
Ho	165		ug/L		15	0.000
> Lu	175		ug/L		422257	422256.846
Tl	205	0.318	ug/L	21.957	5594	0.011
Pb	208	-0.000	ug/L	245.899	440	-0.000
Bi	209		ug/L		211	0.000
Th	232	0.046	ug/L	21.709	1920	0.003
U	238	0.003	ug/L	51.666	574	0.000

Sample ID: QC Std 7

Report Date/Time: Thursday, February 11, 2010 20:55:15

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		95.1			
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		95.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		93.3			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Thursday, February 11, 2010 20:58:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 10.175

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	991.707	ug/L	4.457	1541318	4.584
Be	9	1000.656	ug/L	1.620	418029	1.243
B	11	1.876	ug/L	11.644	1310	0.002
Na	23	49443.595	ug/L	3.195	195787883	581.850
Mg	24	53063.288	ug/L	4.518	135970284	404.100
Al	27	50192.671	ug/L	5.410	165527442	492.034
P	31	24523.820	ug/L	1.876	4375632	12.989
K	39	44675.098	ug/L	2.506	205323604	609.317
Ca	43	48537.901	ug/L	2.442	511468	1.520
Sc	45		ug/L		336349	336349.163
Ti	47	45.620	ug/L	2.288	23810	0.070
V	51	925.602	ug/L	1.675	4891988	14.531
Cr	52	921.360	ug/L	0.115	3769621	11.202
Cr	53		ug/L		536459	1.366
Mn	55	897.319	ug/L	1.864	6077714	18.065
Fe	57	49021.480	ug/L	1.928	6181368	18.364
Co	59	867.324	ug/L	0.699	4450659	13.232
Ni	60	874.536	ug/L	0.779	987686	2.936
Cu	63		ug/L		2066522	6.138
Cu	65	841.274	ug/L	1.030	1086044	3.229
Zn	66	1990.550	ug/L	1.565	1727054	5.635
Zn	67		ug/L		319323	1.013
Zn	68		ug/L		1302103	4.246
Ge	74		ug/L		306418	306417.565
As	75	868.161	ug/L	1.377	736618	2.405
Se	77		ug/L		36364	0.104
Se	82	465.313	ug/L	0.475	43382	0.142
Kr	83		ug/L		154	0.000
Sr	88	933.904	ug/L	3.776	9486667	44.617
Y	89		ug/L		360	0.002
Mo	98	1010.845	ug/L	1.884	2605233	12.253
Ag	107	226.257	ug/L	1.271	1010208	4.751
Cd	111	895.344	ug/L	1.756	1042680	4.904
Cd	114		ug/L		2571942	12.097
In	115		ug/L		212635	212635.486
Sn	120	970.927	ug/L	1.645	4625657	21.754
Sb	121	247.635	ug/L	2.555	919877	4.325
Sb	123		ug/L		728812	3.427
Ba	135		ug/L		1085350	2.514
Ba	137	761.066	ug/L	0.791	1753448	4.062
Ho	165		ug/L		312	0.001
Lu	175		ug/L		431659	431658.703
Tl	205	447.357	ug/L	2.579	6928441	16.046
Pb	208	4651.607	ug/L	0.396	127290555	294.878
Bi	209		ug/L		3934	0.009
Th	232	2577.948	ug/L	0.694	74542616	172.680
U	238	5392.414	ug/L	1.141	166784939	386.348

Sample ID: QC Std 10

Report Date/Time: Thursday, February 11, 2010 21:01:19

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7	99.171				
Be	9	100.066				
B	11					
Na	23	98.887				
Mg	24	106.127				
Al	27	100.385				
P	31	98.095				
K	39	89.350				
Ca	43	97.076				
> Sc	45		84.9			
Ti	47					
V	51	92.560				
Cr	52	92.136				
Cr	53					
Mn	55	89.732				
Fe	57	98.043				
Co	59	86.732				
Ni	60	87.454				
Cu	63					
Cu	65	84.127				
Zn	66	79.622				
Zn	67					
Zn	68					
> Ge	74		85.9			
As	75	86.816				
Se	77					
Se	82	93.063				
Kr	83					
Sr	88	93.390				
Y	89					
Mo	98	101.085				
Ag	107	90.503				
Cd	111	89.534				
Cd	114					
> In	115		86.1			
Sn	120	97.093				
Sb	121	99.054				
Sb	123					
Ba	135					
Ba	137	76.107				
Ho	165					
> Lu	175		95.3			
Tl	205	89.471				
Pb	208	93.032				
Bi	209					
Th	232	103.118				
U	238	107.848				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	K	39	LRS is out of limits (+/- 10%)
QC Std 10	Mn	55	LRS is out of limits (+/- 10%)
QC Std 10	Co	59	LRS is out of limits (+/- 10%)
QC Std 10	Ni	60	LRS is out of limits (+/- 10%)
QC Std 10	Cu	65	LRS is out of limits (+/- 10%)
QC Std 10	Zn	66	LRS is out of limits (+/- 10%)
QC Std 10	As	75	LRS is out of limits (+/- 10%)

Sample ID: QC Std 10

Report Date/Time: Thursday, February 11, 2010 21:01:19

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QC Std 10	Cd	111LRS is out of limits (+/- 10%)
QC Std 10	Ba	137LRS is out of limits (+/- 10%)
QC Std 10	Tl	205LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Thursday, February 11, 2010 21:04:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 11.176

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.483	ug/L	3.276	91057	0.238
Be	9	51.840	ug/L	3.597	24641	0.064
B	11	102.657	ug/L	2.802	52396	0.136
Na	23	5054.252	ug/L	6.268	22797823	59.478
Mg	24	5345.109	ug/L	1.887	15583918	40.705
Al	27	5249.405	ug/L	5.089	19717166	51.459
P	31	5252.976	ug/L	1.943	1071421	2.782
K	39	4605.300	ug/L	5.877	24430806	62.811
Ca	43	4940.852	ug/L	0.788	59371	0.155
> Sc	45		ug/L		382752	382751.712
Ti	47	49.084	ug/L	2.711	29125	0.075
V	51	50.709	ug/L	3.569	309004	0.796
Cr	52	51.267	ug/L	1.613	240711	0.623
Cr	53		ug/L		92713	0.013
Mn	55	52.798	ug/L	2.902	407500	1.063
Fe	57	5426.553	ug/L	2.853	781511	2.033
Co	59	51.470	ug/L	1.505	300556	0.785
Ni	60	52.000	ug/L	2.202	66910	0.175
Cu	63		ug/L		154437	0.403
Cu	65	51.134	ug/L	2.801	75160	0.196
Zn	66	53.636	ug/L	1.354	52352	0.152
Zn	67		ug/L		16541	0.019
Zn	68		ug/L		37552	0.107
> Ge	74		ug/L		343389	343388.895
As	75	49.682	ug/L	2.516	46838	0.138
Se	77		ug/L		7484	0.007
Se	82	50.437	ug/L	2.916	5290	0.015
Kr	83		ug/L		79	0.000
Sr	88	53.013	ug/L	1.508	612497	2.533
Y	89		ug/L		61	0.000
Mo	98	50.239	ug/L	0.833	147367	0.609
Ag	107	51.049	ug/L	2.849	259159	1.072
Cd	111	51.005	ug/L	1.661	67569	0.279
Cd	114		ug/L		159429	0.659
> In	115		ug/L		241813	241812.856
Sn	120	51.852	ug/L	1.119	281144	1.162
Sb	121	52.916	ug/L	0.901	223773	0.924
Sb	123		ug/L		174989	0.723
Ba	135		ug/L		67545	0.150
Ba	137	50.006	ug/L	1.250	120286	0.267
Ho	165		ug/L		40	0.000
> Lu	175		ug/L		450586	450585.738
Tl	205	54.320	ug/L	1.648	878663	1.948
Pb	208	54.696	ug/L	1.331	1562637	3.467
Bi	209		ug/L		496	0.001
Th	232	55.112	ug/L	1.513	1663830	3.692
U	238	55.953	ug/L	1.271	1806663	4.009

Sample ID: QC Std 11

Report Date/Time: Thursday, February 11, 2010 21:07:24

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

Sample ID: QC Std 11

Report Date/Time: Thursday, February 11, 2010 21:07:24

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7	102.965				
Be	9	103.681				
B	11	102.657				
Na	23	101.085				
Mg	24	106.902				
Al	27	103.949				
P	31	105.060				
K	39	92.106				
Ca	43	98.817				
> Sc	45		96.6			
Ti	47	98.169				
V	51	101.418				
Cr	52	102.533				
Cr	53					
Mn	55	105.595				
Fe	57	108.531				
Co	59	102.940				
Ni	60	104.000				
Cu	63					
Cu	65	102.268				
Zn	66	107.272				
Zn	67					
Zn	68					
> Ge	74		96.2			
As	75	99.363				
Se	77					
Se	82	100.874				
Kr	83					
Sr	88	106.026				
Y	89					
Mo	98	100.478				
Ag	107	102.099				
Cd	111	102.009				
Cd	114					
> In	115		97.9			
Sn	120	103.704				
Sb	121	105.832				
Sb	123					
Ba	135					
Ba	137	100.013				
Ho	165					
> Lu	175		99.5			
Tl	205	108.640				
Pb	208	109.391				
Bi	209					
Th	232	110.223				
U	238	111.907				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	Th	232	CCV is out of limits (+/- 10%)
QC Std 11	U	238	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Thursday, February 11, 2010 21:10:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 12.177

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.066	ug/L	4.241	155	0.000
Be	9	0.022	ug/L	14.974	26	0.000
B	11	3.504	ug/L	12.995	2406	0.005
Na	23	1.196	ug/L	76.559	26358	0.014
Mg	24	0.432	ug/L	232.119	5335	0.003
Al	27	0.677	ug/L	22.058	9336	0.007
P	31	-3.152	ug/L	60.490	6569	-0.002
K	39	-6.355	ug/L	27.862	401910	-0.087
Ca	43	0.371	ug/L	302.540	177	0.000
> Sc	45		ug/L		397821	397820.740
Ti	47	-0.054	ug/L	56.695	221	-0.000
V	51	-0.602	ug/L	127.261	963	-0.009
Cr	52	0.183	ug/L	47.976	3206	0.002
Cr	53		ug/L		75815	-0.038
Mn	55	0.004	ug/L	6.775	962	0.000
Fe	57	0.184	ug/L	400.835	4096	0.000
Co	59	0.014	ug/L	30.423	183	0.000
Ni	60	0.005	ug/L	90.607	125	0.000
Cu	63		ug/L		256	0.000
Cu	65	0.037	ug/L	21.128	155	0.000
Zn	66	0.040	ug/L	24.838	264	0.000
Zn	67		ug/L		9345	-0.002
Zn	68		ug/L		937	-0.000
> Ge	74		ug/L		355606	355605.736
As	75	0.126	ug/L	228.122	-305	0.000
Se	77		ug/L		4356	-0.003
Se	82	0.108	ug/L	122.843	37	0.000
Kr	83		ug/L		76	0.000
Sr	88	0.013	ug/L	39.278	335	0.001
Y	89		ug/L		44	0.000
Mo	98	0.150	ug/L	7.965	557	0.002
Ag	107	0.008	ug/L	43.027	91	0.000
Cd	111	0.009	ug/L	58.539	29	0.000
Cd	114		ug/L		86	0.000
> In	115		ug/L		245632	245631.721
Sn	120	0.124	ug/L	4.677	942	0.003
Sb	121	0.997	ug/L	9.558	4567	0.017
Sb	123		ug/L		3624	0.014
Ba	135		ug/L		41	0.000
Ba	137	0.011	ug/L	29.864	70	0.000
Ho	165		ug/L		13	0.000
> Lu	175		ug/L		457482	457482.108
Tl	205	0.320	ug/L	14.700	6089	0.011
Pb	208	0.058	ug/L	24.207	2164	0.004
Bi	209		ug/L		203	-0.000
Th	232	0.120	ug/L	3.613	4359	0.008
U	238	0.086	ug/L	20.241	3349	0.006

Sample ID: QC Std 12

Report Date/Time: Thursday, February 11, 2010 21:13:33

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		100.4			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
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		101.0			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021617

Sample Date/Time: Thursday, February 11, 2010 21:16:57

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\1202021617.178

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.030	ug/L	13.649	88	0.000
Be	9	0.004	ug/L	366.703	16	0.000
B	11	1.486	ug/L	12.001	1338	0.002
Na	23	6.636	ug/L	28.166	51427	0.078
Mg	24	-0.770	ug/L	26.231	1667	-0.006
Al	27	5.837	ug/L	24.573	29364	0.057
P	31	25.555	ug/L	18.232	12547	0.014
K	39	-4.010	ug/L	149.328	412572	-0.055
Ca	43	9.898	ug/L	24.915	294	0.000
> Sc	45		ug/L		395630	395629.564
Ti	47	0.265	ug/L	15.894	414	0.000
V	51	-0.403	ug/L	82.799	2168	-0.006
Cr	52	0.781	ug/L	5.426	6065	0.009
Cr	53		ug/L		61127	-0.074
Mn	55	0.387	ug/L	3.957	4005	0.008
Fe	57	35.643	ug/L	5.090	9324	0.013
Co	59	0.004	ug/L	67.363	121	0.000
Ni	60	0.031	ug/L	33.258	160	0.000
Cu	63		ug/L		1044	0.002
Cu	65	0.276	ug/L	7.432	517	0.001
Zn	66	0.676	ug/L	3.434	889	0.002
Zn	67		ug/L		7407	-0.008
Zn	68		ug/L		1327	0.001
> Ge	74		ug/L		349867	349867.149
As	75	0.472	ug/L	12.740	33	0.001
Se	77		ug/L		3413	-0.005
Se	82	-0.080	ug/L	175.286	16	-0.000
Kr	83		ug/L		75	0.000
Sr	88	0.024	ug/L	9.442	469	0.001
Y	89		ug/L		57	0.000
Mo	98	0.096	ug/L	7.599	407	0.001
Ag	107	-0.002	ug/L	35.291	40	-0.000
Cd	111	0.006	ug/L	60.425	25	0.000
Cd	114		ug/L		45	-0.000
> In	115		ug/L		251449	251448.853
Sn	120	0.531	ug/L	3.316	3259	0.012
Sb	121	0.483	ug/L	23.871	2410	0.008
Sb	123		ug/L		1916	0.007
Ba	135		ug/L		140	0.000
Ba	137	0.081	ug/L	13.009	245	0.000
Ho	165		ug/L		17	0.000
> Lu	175		ug/L		466070	466070.269
Tl	205	0.152	ug/L	15.161	3393	0.005
Pb	208	0.056	ug/L	11.328	2154	0.004
Bi	209		ug/L		193	-0.000
Th	232	0.159	ug/L	28.013	5612	0.011
U	238	0.029	ug/L	39.193	1508	0.002

Sample ID: 1202021617

Report Date/Time: Thursday, February 11, 2010 21:19:40

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		99.9			
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		98.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		101.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		102.9			
Tl	205					
Pb	208					
Bi	209					
Th	232					
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: 1202021617

Report Date/Time: Thursday, February 11, 2010 21:19:40

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ICPMS#5 - Summary Report

Sample ID: 1202021622

Sample Date/Time: Thursday, February 11, 2010 21:23:04

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944127|40|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\1202021622.179

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	2.741	ug/L	5.480	5057	0.013
Be	9	21.496	ug/L	0.650	10604	0.027
B	11	41.453	ug/L	2.401	22267	0.055
Na	23	275.525	ug/L	3.608	1306503	3.242
Mg	24	1175.951	ug/L	5.765	3554857	8.955
Al	27	3501.601	ug/L	1.109	13620289	34.326
P	31	216.179	ug/L	0.919	52621	0.115
K	39	1144.491	ug/L	4.111	6624768	15.610
Ca	43	2670.399	ug/L	2.580	33336	0.084
> Sc	45		ug/L		396586	396585.790
Ti	47	122.059	ug/L	0.457	74709	0.188
V	51	35.328	ug/L	0.550	224664	0.555
Cr	52	73.376	ug/L	2.437	356110	0.892
Cr	53		ug/L		105830	0.038
Mn	55	148.759	ug/L	0.679	1188588	2.995
Fe	57	4798.290	ug/L	1.314	716919	1.798
Co	59	27.782	ug/L	1.446	168190	0.424
Ni	60	42.146	ug/L	1.008	56241	0.142
Cu	63		ug/L		153176	0.386
Cu	65	49.294	ug/L	1.280	75120	0.189
Zn	66	172.942	ug/L	1.250	174724	0.490
Zn	67		ug/L		33569	0.065
Zn	68		ug/L		123284	0.343
> Ge	74		ug/L		356418	356417.949
As	75	28.031	ug/L	2.052	27246	0.078
Se	77		ug/L		10169	0.013
Se	82	80.946	ug/L	0.931	8799	0.025
Kr	83		ug/L		80	0.000
Sr	88	66.439	ug/L	1.450	774094	3.174
Y	89		ug/L		37781	0.155
Mo	98	15.480	ug/L	1.868	45859	0.188
Ag	107	6.063	ug/L	0.887	31090	0.127
Cd	111	17.676	ug/L	0.978	23626	0.097
Cd	114		ug/L		56565	0.232
> In	115		ug/L		243869	243869.387
Sn	120	10.083	ug/L	2.819	55332	0.226
Sb	121	18.051	ug/L	2.539	77152	0.315
Sb	123		ug/L		60071	0.245
Ba	135		ug/L		69451	0.154
Ba	137	50.718	ug/L	1.475	122018	0.271
Ho	165		ug/L		2821	0.006
> Lu	175		ug/L		450642	450642.308
Tl	205	37.097	ug/L	1.188	600411	1.331
Pb	208	24.253	ug/L	1.309	693290	1.537
Bi	209		ug/L		7136	0.015
Th	232	2.927	ug/L	1.822	88993	0.196
U	238	0.686	ug/L	0.713	22671	0.049

Sample ID: 1202021622

Report Date/Time: Thursday, February 11, 2010 21:25:47

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		100.1			
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		99.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		98.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.5			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ti 47 Upper, S, EEETi		47	Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113001

Sample Date/Time: Thursday, February 11, 2010 21:29:12

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113001.180

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	29.288	ug/L	2.244	56762	0.135
Be	9	2.148	ug/L	2.237	1133	0.003
B	11	16.518	ug/L	4.786	9732	0.022
Na	23	460.804	ug/L	7.554	2293011	5.423
Mg	24	5277.541	ug/L	2.102	16843678	40.191
Al	27	33278.221	ug/L	4.795	136748690	326.223
P	31	585.765	ug/L	1.093	137627	0.310
K	39	5047.250	ug/L	2.045	29303073	68.839
Ca	43	11726.036	ug/L	0.352	154042	0.367
> Sc	45		ug/L		419054	419054.351
Ti	47	811.486	ug/L	0.945	523286	1.248
V	51	40.157	ug/L	2.977	269122	0.630
Cr	52	22.104	ug/L	1.656	115045	0.269
Cr	53		ug/L		58018	-0.091
Mn	55	1647.064	ug/L	1.498	13894673	33.159
Fe	57	27770.998	ug/L	1.223	4363494	10.403
Co	59	11.715	ug/L	1.944	74991	0.179
Ni	60	18.227	ug/L	1.662	25772	0.061
Cu	63		ug/L		93065	0.222
Cu	65	28.858	ug/L	1.507	46508	0.111
Zn	66	148.998	ug/L	0.497	131858	0.422
Zn	67		ug/L		27215	0.058
Zn	68		ug/L		97617	0.310
> Ge	74		ug/L		312132	312132.199
As	75	7.819	ug/L	3.173	6384	0.022
Se	77		ug/L		2616	-0.007
Se	82	0.001	ug/L	7758.957	22	0.000
Kr	83		ug/L		157	0.000
Sr	88	104.562	ug/L	2.234	1133587	4.995
Y	89		ug/L		530927	2.340
Mo	98	2.357	ug/L	1.530	6586	0.029
Ag	107	0.319	ug/L	9.197	1563	0.007
Cd	111	1.844	ug/L	3.807	2309	0.010
Cd	114		ug/L		2973	0.013
> In	115		ug/L		226921	226921.146
Sn	120	2.409	ug/L	0.282	12487	0.054
Sb	121	0.620	ug/L	6.686	2726	0.011
Sb	123		ug/L		2117	0.008
Ba	135		ug/L		557535	1.259
Ba	137	400.186	ug/L	1.080	945842	2.136
Ho	165		ug/L		42123	0.095
> Lu	175		ug/L		442867	442866.867
Tl	205	0.645	ug/L	6.701	11056	0.023
Pb	208	83.976	ug/L	1.680	2357718	5.323
Bi	209		ug/L		27185	0.061
Th	232	25.151	ug/L	1.814	746622	1.685
U	238	49.937	ug/L	2.060	1584719	3.578

Sample ID: 245113001

Report Date/Time: Thursday, February 11, 2010 21:31:55

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		105.8			
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		87.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		91.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.8			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
 Ti 47 Upper, S, EEETi
 Mn 55 Upper, S, EEIMn

MassOut of Limits Message
 47Sample is out of limits (over linear range)
 55Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1202021618

Sample Date/Time: Thursday, February 11, 2010 21:35:20

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\1202021618.181

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	25.050	ug/L	3.295	47779	0.116
Be	9	1.862	ug/L	1.849	969	0.002
B	11	12.483	ug/L	1.934	7383	0.016
Na	23	404.642	ug/L	7.722	1986309	4.762
Mg	24	4042.400	ug/L	5.543	12693353	30.785
Al	27	25394.259	ug/L	6.187	102611136	248.938
P	31	549.262	ug/L	1.581	127467	0.291
K	39	3903.517	ug/L	3.237	22413062	53.240
Ca	43	9787.183	ug/L	0.212	126557	0.306
> Sc	45		ug/L		412377	412377.232
Ti	47	744.817	ug/L	0.975	472703	1.146
V	51	34.222	ug/L	2.724	226439	0.537
Cr	52	17.053	ug/L	1.055	87895	0.207
Cr	53		ug/L		53220	-0.100
Mn	55	1385.681	ug/L	0.309	11504548	27.896
Fe	57	27055.947	ug/L	1.402	4183946	10.136
Co	59	10.516	ug/L	1.302	66260	0.160
Ni	60	14.123	ug/L	1.397	19676	0.047
Cu	63		ug/L		66960	0.162
Cu	65	21.097	ug/L	1.549	33487	0.081
Zn	66	126.558	ug/L	1.752	112970	0.358
Zn	67		ug/L		23696	0.047
Zn	68		ug/L		83253	0.262
> Ge	74		ug/L		314778	314777.810
As	75	8.048	ug/L	2.378	6637	0.022
Se	77		ug/L		2338	-0.008
Se	82	0.046	ug/L	222.760	27	0.000
Kr	83		ug/L		141	0.000
Sr	88	81.248	ug/L	0.702	894671	3.882
Y	89		ug/L		454827	1.974
Mo	98	2.569	ug/L	1.537	7281	0.031
Ag	107	0.362	ug/L	3.821	1795	0.008
Cd	111	1.688	ug/L	5.886	2145	0.009
Cd	114		ug/L		1959	0.008
> In	115		ug/L		230456	230455.512
Sn	120	2.710	ug/L	0.414	14236	0.061
Sb	121	0.510	ug/L	6.649	2324	0.009
Sb	123		ug/L		1832	0.007
Ba	135		ug/L		414226	0.933
Ba	137	300.277	ug/L	0.640	711732	1.603
Ho	165		ug/L		35078	0.079
> Lu	175		ug/L		444100	444099.586
Tl	205	0.425	ug/L	1.774	7582	0.015
Pb	208	62.761	ug/L	1.314	1767276	3.979
Bi	209		ug/L		18757	0.042
Th	232	25.836	ug/L	1.404	769142	1.731
U	238	37.026	ug/L	2.041	1178455	2.653

Sample ID: 1202021618

Report Date/Time: Thursday, February 11, 2010 21:38:04

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		104.1			
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		88.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.1			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ti 47 Upper, S, EE	Ti	47	Sample is out of limits (over linear range)
Mn 55 Upper, S, EE	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1202021620
 Sample Date/Time: Thursday, February 11, 2010 21:41:27
 Sample Type:
 Sample Description: LANL 6020 MS
 Number of Replicates: 3
 Batch ID: 944127|2|ba|
 Method File: c:\elandata\Method\6020 2.mth
 Dataset File: C:\elandata\Dataset\100211\1202021620.182

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	59.956	ug/L	1.915	112740	0.277
|	Be	9	22.714	ug/L	0.654	11489	0.028
|	B	11	55.605	ug/L	3.473	30432	0.073
|	Na	23	1169.453	ug/L	3.185	5619531	13.762
|	Mg	24	6251.628	ug/L	8.455	19354221	47.609
|	Al	27	37883.478	ug/L	3.450	151038829	371.368
|	P	31	1282.057	ug/L	1.308	283587	0.679
|	K	39	5857.855	ug/L	7.313	32940696	79.894
|	Ca	43	11305.800	ug/L	1.965	144172	0.354
>|	Sc	45		ug/L		406697	406697.337
|	Ti	47	867.149	ug/L	0.951	542674	1.334
|	V	51	60.605	ug/L	1.063	391747	0.951
|	Cr	52	42.896	ug/L	0.326	214470	0.522
|	Cr	53		ug/L		66670	-0.065
|	Mn	55	1378.633	ug/L	0.711	11288029	27.755
|	Fe	57	28233.746	ug/L	1.859	4305555	10.577
|	Co	59	30.501	ug/L	0.596	189350	0.465
|	Ni	60	37.701	ug/L	0.384	51605	0.127
|	Cu	63		ug/L		142002	0.349
|	Cu	65	44.410	ug/L	2.297	69404	0.170
|	Zn	66	160.926	ug/L	0.795	138901	0.456
|	Zn	67		ug/L		27567	0.062
|	Zn	68		ug/L		101942	0.332
>|	Ge	74		ug/L		304474	304474.175
|	As	75	41.864	ug/L	1.111	34944	0.116
|	Se	77		ug/L		2767	-0.006
|	Se	82	7.660	ug/L	6.390	731	0.002
|	Kr	83		ug/L		168	0.000
|	Sr	88	121.591	ug/L	0.341	1277794	5.809
|	Y	89		ug/L		499166	2.270
|	Mo	98	24.535	ug/L	0.299	65510	0.297
|	Ag	107	22.396	ug/L	0.527	103474	0.470
|	Cd	111	6.331	ug/L	1.651	7641	0.035
|	Cd	114		ug/L		15132	0.069
>|	In	115		ug/L		219939	219938.523
|	Sn	120	17.804	ug/L	0.267	87969	0.399
|	Sb	121	49.176	ug/L	1.162	189180	0.859
|	Sb	123		ug/L		147429	0.669
|	Ba	135		ug/L		524279	1.241
|	Ba	137	394.398	ug/L	1.566	889326	2.105
|	Ho	165		ug/L		39787	0.094
>|	Lu	175		ug/L		422514	422514.215
|	Tl	205	49.783	ug/L	1.214	755158	1.786
|	Pb	208	156.876	ug/L	0.673	4202095	9.945
|	Bi	209		ug/L		24778	0.058
|	Th	232	49.483	ug/L	1.826	1400992	3.315
|	U	238	66.110	ug/L	1.200	2001618	4.737

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		102.7			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		85.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		89.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		93.3			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
 Ti 47 Upper, S, EEETi
 Mn 55 Upper, S, EEIMn

MassOut of Limits Message
 47Sample is out of limits (over linear range)
 55Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1202021621

Sample Date/Time: Thursday, February 11, 2010 21:47:33

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\1202021621.183

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	57.836	ug/L	1.646	108960	0.267
Be	9	24.263	ug/L	2.667	12292	0.030
B	11	60.732	ug/L	2.318	33250	0.080
Na	23	1263.431	ug/L	5.825	6085299	14.868
Mg	24	5954.740	ug/L	2.245	18486453	45.348
Al	27	34281.718	ug/L	3.091	136947165	336.060
P	31	1353.187	ug/L	2.100	299437	0.717
K	39	5845.318	ug/L	2.287	32940696	79.723
Ca	43	12479.863	ug/L	1.139	159418	0.391
> Sc	45		ug/L		407516	407515.604
Ti	47	823.904	ug/L	2.249	516522	1.267
V	51	60.201	ug/L	2.337	389845	0.945
Cr	52	43.534	ug/L	1.465	218047	0.529
Cr	53		ug/L		64836	-0.070
Mn	55	1290.515	ug/L	2.266	10585021	25.981
Fe	57	27576.788	ug/L	1.600	4213281	10.331
Co	59	31.321	ug/L	1.987	194833	0.478
Ni	60	37.766	ug/L	2.708	51775	0.127
Cu	63		ug/L		144108	0.353
Cu	65	45.625	ug/L	1.878	71437	0.175
Zn	66	159.045	ug/L	2.071	136887	0.450
Zn	67		ug/L		27381	0.061
Zn	68		ug/L		101062	0.330
> Ge	74		ug/L		303680	303680.346
As	75	43.910	ug/L	2.553	36563	0.122
Se	77		ug/L		2796	-0.006
Se	82	8.238	ug/L	4.186	782	0.003
Kr	83		ug/L		151	0.000
Sr	88	126.298	ug/L	1.113	1334612	6.034
Y	89		ug/L		504428	2.280
Mo	98	25.637	ug/L	1.278	68830	0.311
Ag	107	23.789	ug/L	2.830	110495	0.500
Cd	111	6.507	ug/L	1.148	7898	0.036
Cd	114		ug/L		15914	0.072
> In	115		ug/L		221185	221185.006
Sn	120	19.464	ug/L	1.327	96684	0.436
Sb	121	53.251	ug/L	0.694	205979	0.930
Sb	123		ug/L		160390	0.724
Ba	135		ug/L		521631	1.218
Ba	137	393.194	ug/L	0.193	898732	2.099
Ho	165		ug/L		40472	0.094
> Lu	175		ug/L		428255	428254.782
Tl	205	52.281	ug/L	0.536	803819	1.875
Pb	208	158.425	ug/L	0.836	4301130	10.043
Bi	209		ug/L		24647	0.057
Th	232	49.793	ug/L	1.247	1428877	3.335
U	238	68.261	ug/L	1.579	2094739	4.891

Sample ID: 1202021621

Report Date/Time: Thursday, February 11, 2010 21:50:16

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
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		85.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		89.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		94.6			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte

Ti 47 Upper, S, EEETi

Mn 55 Upper, S, EEIMn

MassOut of Limits Message

47Sample is out of limits (over linear range)

55Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

Sample ID: 1202021621

Report Date/Time: Thursday, February 11, 2010 21:50:16

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ICPMS#5 - Summary Report

Sample ID: 1202021619

Sample Date/Time: Thursday, February 11, 2010 21:53:40

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944127|10|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\1202021619.184

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	6.958	ug/L	1.231	11755	0.032
Be	9	0.541	ug/L	0.741	259	0.001
B	11	6.003	ug/L	4.060	3408	0.008
Na	23	97.248	ug/L	6.073	436244	1.144
Mg	24	1212.515	ug/L	7.784	3369334	9.234
Al	27	7457.342	ug/L	3.746	26651357	73.104
P	31	134.141	ug/L	1.431	32524	0.071
K	39	1102.422	ug/L	8.191	5879561	15.036
Ca	43	2597.539	ug/L	1.605	29806	0.081
> Sc	45		ug/L		364505	364504.675
Ti	47	182.656	ug/L	0.810	102640	0.281
V	51	8.428	ug/L	5.838	52552	0.132
Cr	52	4.764	ug/L	1.050	23237	0.058
Cr	53		ug/L		51493	-0.088
Mn	55	363.555	ug/L	0.179	2668664	7.319
Fe	57	6638.915	ug/L	1.261	910241	2.487
Co	59	2.606	ug/L	1.541	14584	0.040
Ni	60	4.097	ug/L	2.794	5124	0.014
Cu	63		ug/L		19216	0.052
Cu	65	6.696	ug/L	1.147	9458	0.026
Zn	66	32.308	ug/L	2.031	29412	0.091
Zn	67		ug/L		10548	0.004
Zn	68		ug/L		21857	0.066
> Ge	74		ug/L		319385	319385.294
As	75	1.886	ug/L	5.505	1282	0.005
Se	77		ug/L		2560	-0.007
Se	82	0.021	ug/L	563.103	25	0.000
Kr	83		ug/L		76	0.000
Sr	88	22.001	ug/L	1.724	232140	1.051
Y	89		ug/L		101710	0.461
Mo	98	0.454	ug/L	4.054	1315	0.006
Ag	107	0.058	ug/L	7.619	311	0.001
Cd	111	0.358	ug/L	4.102	448	0.002
Cd	114		ug/L		595	0.003
> In	115		ug/L		220752	220752.018
Sn	120	0.450	ug/L	4.555	2457	0.010
Sb	121	0.081	ug/L	12.061	571	0.001
Sb	123		ug/L		444	0.001
Ba	135		ug/L		103973	0.253
Ba	137	83.753	ug/L	1.920	183556	0.447
Ho	165		ug/L		7445	0.018
> Lu	175		ug/L		410608	410608.149
Tl	205	0.114	ug/L	5.428	2428	0.004
Pb	208	17.986	ug/L	1.458	468583	1.140
Bi	209		ug/L		5369	0.013
Th	232	5.191	ug/L	0.634	143360	0.348
U	238	11.574	ug/L	0.637	340969	0.829

Sample ID: 1202021619

Report Date/Time: Thursday, February 11, 2010 21:56:23

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		92.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		89.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		89.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		90.7			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEETi

Mass Out of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021619

Report Date/Time: Thursday, February 11, 2010 21:56:23

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, February 11, 2010 21:59:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 8.185

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	57.146	ug/L	3.314	97286	0.264
Be	9	54.343	ug/L	2.893	24870	0.068
B	11	104.052	ug/L	1.310	51131	0.137
Na	23	4297.955	ug/L	5.367	18669301	50.578
Mg	24	5380.797	ug/L	1.404	15096173	40.977
Al	27	5328.759	ug/L	5.515	19242689	52.237
P	31	5276.497	ug/L	2.498	1035739	2.795
K	39	4800.006	ug/L	9.405	24478171	65.467
Ca	43	4982.466	ug/L	0.531	57631	0.156
> Sc	45		ug/L		368377	368377.129
Ti	47	48.417	ug/L	0.238	27669	0.074
V	51	51.864	ug/L	2.519	304172	0.814
Cr	52	52.991	ug/L	2.601	239361	0.644
Cr	53		ug/L		91804	0.020
Mn	55	53.451	ug/L	2.059	397145	1.076
Fe	57	5518.903	ug/L	0.964	765271	2.067
Co	59	51.980	ug/L	1.783	292132	0.793
Ni	60	52.839	ug/L	2.093	65442	0.177
Cu	63		ug/L		149955	0.407
Cu	65	51.730	ug/L	1.018	73210	0.199
Zn	66	52.397	ug/L	1.827	50315	0.148
Zn	67		ug/L		15062	0.016
Zn	68		ug/L		35983	0.104
> Ge	74		ug/L		337815	337815.468
As	75	49.213	ug/L	1.656	45634	0.136
Se	77		ug/L		7648	0.008
Se	82	48.882	ug/L	3.185	5042	0.015
Kr	83		ug/L		78	0.000
Sr	88	53.186	ug/L	2.556	585361	2.541
Y	89		ug/L		104	0.000
Mo	98	50.530	ug/L	2.684	141163	0.613
Ag	107	51.650	ug/L	3.312	249791	1.085
Cd	111	50.933	ug/L	2.532	64266	0.279
Cd	114		ug/L		150359	0.653
> In	115		ug/L		230391	230391.162
Sn	120	50.364	ug/L	1.588	260165	1.128
Sb	121	51.630	ug/L	1.433	207997	0.902
Sb	123		ug/L		162818	0.706
Ba	135		ug/L		62974	0.149
Ba	137	49.301	ug/L	2.957	111485	0.263
Ho	165		ug/L		39	0.000
> Lu	175		ug/L		423827	423826.806
Tl	205	53.371	ug/L	1.477	811827	1.914
Pb	208	53.869	ug/L	4.127	1446445	3.415
Bi	209		ug/L		547	0.001
Th	232	55.861	ug/L	3.532	1585238	3.742
U	238	56.552	ug/L	3.175	1716589	4.052

Sample ID: QC Std 8

Report Date/Time: Thursday, February 11, 2010 22:02:30

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	114.292				
Be	9	108.686				
B	11	104.052				
Na	23	85.959				
Mg	24	107.616				
Al	27	105.520				
P	31	105.530				
K	39	96.000				
Ca	43	99.649				
> Sc	45		93.0			
Ti	47	96.835				
V	51	103.728				
Cr	52	105.982				
Cr	53					
Mn	55	106.903				
Fe	57	110.378				
Co	59	103.959				
Ni	60	105.678				
Cu	63					
Cu	65	103.460				
Zn	66	104.793				
Zn	67					
Zn	68					
> Ge	74		94.7			
As	75	98.427				
Se	77					
Se	82	97.764				
Kr	83					
Sr	88	106.372				
Y	89					
Mo	98	101.060				
Ag	107	103.300				
Cd	111	101.866				
Cd	114					
> In	115		93.2			
Sn	120	100.729				
Sb	121	103.259				
Sb	123					
Ba	135					
Ba	137	98.602				
Ho	165					
> Lu	175		93.6			
Tl	205	106.741				
Pb	208	107.738				
Bi	209					
Th	232	111.723				
U	238	113.105				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Li	7	7CCV is out of limits (+/- 10%)
QC Std 8	Na	23	23CCV is out of limits (+/- 10%)
QC Std 8	Fe	57	57CCV is out of limits (+/- 10%)
QC Std 8	Th	232	232CCV is out of limits (+/- 10%)
QC Std 8	U	238	238CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Thursday, February 11, 2010 22:05:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 9.186

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.055	ug/L	2.786	125	0.000
Be	9	0.022	ug/L	42.265	24	0.000
B	11	3.706	ug/L	17.213	2341	0.005
Na	23	-0.615	ug/L	191.637	16677	-0.007
Mg	24	0.092	ug/L	1022.283	4001	0.001
Al	27	0.662	ug/L	131.229	8670	0.006
P	31	-5.220	ug/L	8.035	5719	-0.003
K	39	1.635	ug/L	242.845	415296	0.022
Ca	43	0.302	ug/L	224.299	164	0.000
> Sc	45		ug/L		370923	370922.595
Ti	47	0.007	ug/L	596.161	241	0.000
V	51	-0.223	ug/L	128.757	3117	-0.004
Cr	52	0.730	ug/L	4.552	5459	0.009
Cr	53		ug/L		71036	-0.037
Mn	55	0.033	ug/L	54.419	1112	0.001
Fe	57	5.478	ug/L	9.470	4555	0.002
Co	59	0.006	ug/L	41.056	126	0.000
Ni	60	0.001	ug/L	1017.393	113	0.000
Cu	63		ug/L		171	0.000
Cu	65	0.010	ug/L	77.261	107	0.000
Zn	66	0.046	ug/L	33.528	254	0.000
Zn	67		ug/L		8045	-0.005
Zn	68		ug/L		761	-0.001
> Ge	74		ug/L		334738	334738.428
As	75	0.249	ug/L	137.212	-176	0.001
Se	77		ug/L		4481	-0.002
Se	82	-0.011	ug/L	303.232	23	-0.000
Kr	83		ug/L		75	0.000
Sr	88	0.005	ug/L	61.216	222	0.000
Y	89		ug/L		48	0.000
Mo	98	0.044	ug/L	14.354	226	0.001
Ag	107	0.006	ug/L	34.135	75	0.000
Cd	111	0.010	ug/L	54.290	28	0.000
Cd	114		ug/L		50	0.000
> In	115		ug/L		229865	229865.378
Sn	120	0.025	ug/L	13.356	374	0.001
Sb	121	0.245	ug/L	11.989	1253	0.004
Sb	123		ug/L		967	0.003
Ba	135		ug/L		35	0.000
Ba	137	0.007	ug/L	69.044	56	0.000
Ho	165		ug/L		16	0.000
> Lu	175		ug/L		421614	421614.186
Tl	205	0.210	ug/L	15.286	3957	0.008
Pb	208	0.005	ug/L	49.229	580	0.000
Bi	209		ug/L		215	0.000
Th	232	0.050	ug/L	3.065	2022	0.003
U	238	0.011	ug/L	18.025	810	0.001

Sample ID: QC Std 9

Report Date/Time: Thursday, February 11, 2010 22:08:40

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		93.6			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		93.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		93.1			
Tl	205					
Pb	208					
Bi	209					
Th	232					
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: Thursday, February 11, 2010 22:08:40

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ICPMS#5 - Summary Report

Sample ID: 245113002

Sample Date/Time: Thursday, February 11, 2010 22:12:04

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113002.187

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	33.478	ug/L	1.063	57993	0.155
Be	9	1.495	ug/L	5.280	709	0.002
B	11	11.025	ug/L	2.936	5983	0.015
Na	23	555.234	ug/L	1.460	2466641	6.534
Mg	24	3641.138	ug/L	3.176	10389279	27.729
Al	27	27293.082	ug/L	5.957	100229446	267.552
P	31	340.829	ug/L	1.396	74420	0.181
K	39	3665.508	ug/L	3.227	19135412	49.993
Ca	43	7205.869	ug/L	0.432	84665	0.226
> Sc	45		ug/L		374524	374524.312
Ti	47	898.606	ug/L	0.959	517902	1.382
V	51	37.900	ug/L	1.924	227271	0.595
Cr	52	23.866	ug/L	0.840	110855	0.290
Cr	53		ug/L		54464	-0.084
Mn	55	585.056	ug/L	0.563	4412052	11.778
Fe	57	23614.189	ug/L	3.162	3316625	8.846
Co	59	8.794	ug/L	1.843	50338	0.134
Ni	60	15.646	ug/L	1.510	19788	0.053
Cu	63		ug/L		34328	0.091
Cu	65	12.093	ug/L	0.672	17475	0.046
Zn	66	78.855	ug/L	0.598	65336	0.223
Zn	67		ug/L		15961	0.026
Zn	68		ug/L		48722	0.164
> Ge	74		ug/L		291853	291852.982
As	75	5.339	ug/L	8.031	3964	0.015
Se	77		ug/L		2228	-0.007
Se	82	-0.032	ug/L	549.204	18	-0.000
Kr	83		ug/L		130	0.000
Sr	88	67.882	ug/L	1.130	681391	3.243
Y	89		ug/L		353248	1.682
Mo	98	2.074	ug/L	1.457	5376	0.025
Ag	107	0.211	ug/L	7.314	974	0.004
Cd	111	0.839	ug/L	8.073	979	0.005
Cd	114		ug/L		669	0.003
> In	115		ug/L		210078	210078.410
Sn	120	2.054	ug/L	2.162	9890	0.046
Sb	121	0.376	ug/L	6.895	1628	0.007
Sb	123		ug/L		1276	0.005
Ba	135		ug/L		289171	0.717
Ba	137	233.496	ug/L	0.829	502493	1.246
Ho	165		ug/L		27745	0.069
> Lu	175		ug/L		403211	403211.357
Tl	205	0.484	ug/L	3.193	7738	0.017
Pb	208	30.091	ug/L	0.832	769603	1.908
Bi	209		ug/L		8538	0.021
Th	232	21.156	ug/L	0.544	571991	1.417
U	238	7.645	ug/L	0.690	221293	0.548

Sample ID: 245113002

Report Date/Time: Thursday, February 11, 2010 22:14:47

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		94.6			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		81.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		85.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		89.1			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EETi

MassOut of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113003

Sample Date/Time: Thursday, February 11, 2010 22:18:12

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113003.188

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	43.064	ug/L	2.953	75697	0.199
Be	9	2.170	ug/L	2.098	1039	0.003
B	11	8.803	ug/L	0.722	4959	0.012
Na	23	403.047	ug/L	5.494	1822400	4.743
Mg	24	4792.426	ug/L	4.307	13878305	36.496
Al	27	34564.108	ug/L	6.395	128809724	338.829
P	31	485.396	ug/L	0.742	104658	0.257
K	39	4554.223	ug/L	4.247	24039256	62.114
Ca	43	4492.025	ug/L	0.753	53640	0.141
> Sc	45		ug/L		380197	380197.021
Ti	47	973.482	ug/L	1.630	569615	1.497
V	51	44.771	ug/L	0.320	271728	0.703
Cr	52	21.942	ug/L	1.323	103627	0.267
Cr	53		ug/L		50659	-0.096
Mn	55	744.599	ug/L	0.809	5700589	14.990
Fe	57	34873.162	ug/L	0.689	4970480	13.064
Co	59	9.988	ug/L	1.409	58022	0.152
Ni	60	20.315	ug/L	1.798	26047	0.068
Cu	63		ug/L		116753	0.307
Cu	65	39.580	ug/L	0.475	57847	0.152
Zn	66	146.717	ug/L	0.730	121075	0.415
Zn	67		ug/L		24158	0.054
Zn	68		ug/L		88289	0.301
> Ge	74		ug/L		291071	291071.170
As	75	7.025	ug/L	3.436	5314	0.019
Se	77		ug/L		1981	-0.008
Se	82	-0.498	ug/L	15.525	-23	-0.000
Kr	83		ug/L		152	0.000
Sr	88	51.515	ug/L	2.214	510374	2.461
Y	89		ug/L		424229	2.046
Mo	98	3.098	ug/L	2.233	7878	0.038
Ag	107	0.256	ug/L	4.456	1158	0.005
Cd	111	1.033	ug/L	7.733	1187	0.006
Cd	114		ug/L		966	0.004
> In	115		ug/L		207291	207291.386
Sn	120	2.308	ug/L	1.338	10937	0.052
Sb	121	0.302	ug/L	3.243	1338	0.005
Sb	123		ug/L		1036	0.004
Ba	135		ug/L		300430	0.752
Ba	137	247.126	ug/L	1.064	526854	1.319
Ho	165		ug/L		33754	0.084
> Lu	175		ug/L		399441	399441.086
Tl	205	0.520	ug/L	2.637	8178	0.019
Pb	208	59.297	ug/L	1.100	1501862	3.759
Bi	209		ug/L		11275	0.028
Th	232	23.212	ug/L	1.915	621611	1.555
U	238	17.569	ug/L	1.013	503249	1.259

Sample ID: 245113003

Report Date/Time: Thursday, February 11, 2010 22:20:55

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		96.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		81.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		83.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		88.2			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message
Ti 47 Upper, S, EEETi 47 Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113004

Sample Date/Time: Thursday, February 11, 2010 22:24:20

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113004.189

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	41.557	ug/L	0.917	72251	0.192
Be	9	1.975	ug/L	7.249	936	0.002
B	11	8.188	ug/L	3.288	4598	0.011
Na	23	434.394	ug/L	16.049	1941890	5.112
Mg	24	4680.788	ug/L	5.247	13402529	35.646
Al	27	32042.956	ug/L	2.609	118092120	314.114
P	31	429.098	ug/L	3.062	92278	0.227
K	39	3732.004	ug/L	1.499	19549065	50.900
Ca	43	4021.629	ug/L	0.178	47505	0.126
> Sc	45		ug/L		375955	375954.534
Ti	47	977.303	ug/L	1.851	565348	1.503
V	51	45.129	ug/L	1.936	270802	0.708
Cr	52	19.396	ug/L	2.692	90849	0.236
Cr	53		ug/L		46117	-0.106
Mn	55	713.557	ug/L	3.183	5400892	14.365
Fe	57	32790.785	ug/L	2.589	4621696	12.284
Co	59	9.193	ug/L	2.059	52824	0.140
Ni	60	15.616	ug/L	0.337	19825	0.052
Cu	63		ug/L		83313	0.221
Cu	65	28.708	ug/L	1.822	41511	0.110
Zn	66	137.747	ug/L	1.457	112121	0.390
Zn	67		ug/L		22012	0.048
Zn	68		ug/L		79866	0.275
> Ge	74		ug/L		287064	287064.440
As	75	9.892	ug/L	4.109	7519	0.027
Se	77		ug/L		1765	-0.009
Se	82	-0.563	ug/L	72.790	-29	-0.000
Kr	83		ug/L		143	0.000
Sr	88	70.648	ug/L	2.264	696138	3.375
Y	89		ug/L		370207	1.795
Mo	98	2.903	ug/L	0.992	7348	0.035
Ag	107	0.230	ug/L	1.299	1037	0.005
Cd	111	0.900	ug/L	0.906	1031	0.005
Cd	114		ug/L		735	0.003
> In	115		ug/L		206208	206208.311
Sn	120	2.198	ug/L	2.069	10371	0.049
Sb	121	0.242	ug/L	2.930	1116	0.004
Sb	123		ug/L		848	0.003
Ba	135		ug/L		264316	0.670
Ba	137	219.102	ug/L	1.887	461133	1.169
Ho	165		ug/L		29184	0.074
> Lu	175		ug/L		394330	394330.375
Tl	205	0.457	ug/L	1.604	7180	0.016
Pb	208	54.805	ug/L	1.430	1370322	3.474
Bi	209		ug/L		10818	0.027
Th	232	20.991	ug/L	2.331	554966	1.406
U	238	18.906	ug/L	0.709	534582	1.355

Sample ID: 245113004

Report Date/Time: Thursday, February 11, 2010 22:27:04

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		94.9			
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		80.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		83.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		87.1			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEETi

MassOut of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113004

Report Date/Time: Thursday, February 11, 2010 22:27:04

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ICPMS#5 - Summary Report

Sample ID: 245113005

Sample Date/Time: Thursday, February 11, 2010 22:30:29

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113005.190

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	50.501	ug/L	1.960	93739	0.233
Be	9	3.028	ug/L	2.526	1526	0.004
B	11	10.823	ug/L	0.942	6307	0.014
Na	23	515.225	ug/L	6.406	2452861	6.063
Mg	24	6349.613	ug/L	6.756	19438005	48.355
Al	27	41341.899	ug/L	1.063	162748804	405.271
P	31	469.082	ug/L	2.242	107018	0.248
K	39	4638.487	ug/L	7.393	25867541	63.264
Ca	43	6097.067	ug/L	1.494	76832	0.191
> Sc	45		ug/L		401498	401497.803
Ti	47	1187.461	ug/L	0.580	733533	1.826
V	51	58.993	ug/L	0.923	376560	0.926
Cr	52	28.835	ug/L	1.053	143072	0.351
Cr	53		ug/L		54659	-0.093
Mn	55	609.057	ug/L	2.382	4922324	12.261
Fe	57	39226.357	ug/L	1.072	5904089	14.695
Co	59	10.420	ug/L	2.234	63908	0.159
Ni	60	21.318	ug/L	1.013	28854	0.072
Cu	63		ug/L		115605	0.288
Cu	65	37.041	ug/L	1.913	57164	0.142
Zn	66	163.908	ug/L	1.296	134684	0.464
Zn	67		ug/L		26345	0.062
Zn	68		ug/L		98995	0.339
> Ge	74		ug/L		289890	289890.420
As	75	8.266	ug/L	4.414	6289	0.023
Se	77		ug/L		1896	-0.009
Se	82	-0.545	ug/L	80.227	-27	-0.000
Kr	83		ug/L		202	0.000
Sr	88	83.175	ug/L	1.929	833452	3.974
Y	89		ug/L		643877	3.070
Mo	98	3.491	ug/L	1.022	8968	0.042
Ag	107	0.404	ug/L	2.028	1822	0.008
Cd	111	1.365	ug/L	4.503	1582	0.007
Cd	114		ug/L		1171	0.005
> In	115		ug/L		209689	209688.509
Sn	120	2.455	ug/L	2.287	11758	0.055
Sb	121	0.345	ug/L	1.637	1512	0.006
Sb	123		ug/L		1186	0.005
Ba	135		ug/L		423388	1.039
Ba	137	334.571	ug/L	0.910	727784	1.786
Ho	165		ug/L		51747	0.127
> Lu	175		ug/L		407593	407593.091
Tl	205	0.748	ug/L	1.416	11683	0.027
Pb	208	75.204	ug/L	1.474	1943298	4.767
Bi	209		ug/L		16174	0.039
Th	232	29.981	ug/L	1.936	818977	2.008
U	238	28.877	ug/L	1.301	843782	2.069

Sample ID: 245113005

Report Date/Time: Thursday, February 11, 2010 22:33:13

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
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					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		81.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		84.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		90.0			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EETi

MassOut of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113006
 Sample Date/Time: Thursday, February 11, 2010 22:36:37
 Sample Type:
 Sample Description: LANL 6020
 Number of Replicates: 3
 Batch ID: 944127[2]ba
 Method File: c:\elandata\Method\6020 2.mth
 Dataset File: C:\elandata\Dataset\100211\245113006.191

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	31.153	ug/L	1.989	55954	0.144
Be	9	3.001	ug/L	4.022	1461	0.004
B	11	5.973	ug/L	2.076	3613	0.008
Na	23	382.297	ug/L	2.484	1767370	4.499
Mg	24	3269.507	ug/L	0.956	9671126	24.899
Al	27	23714.861	ug/L	3.618	90305739	232.475
P	31	299.930	ug/L	1.181	68741	0.159
K	39	2760.145	ug/L	3.538	15036771	37.645
Ca	43	3064.430	ug/L	0.161	37428	0.096
> Sc	45		ug/L		388306	388306.208
Ti	47	900.104	ug/L	2.754	537652	1.384
V	51	32.784	ug/L	2.958	204389	0.515
Cr	52	18.817	ug/L	3.267	91071	0.229
Cr	53		ug/L		46815	-0.108
Mn	55	722.105	ug/L	2.159	5644166	14.537
Fe	57	31391.195	ug/L	1.481	4569431	11.760
Co	59	5.094	ug/L	0.603	30273	0.078
Ni	60	12.874	ug/L	2.912	16895	0.043
Cu	63		ug/L		42124	0.108
Cu	65	14.046	ug/L	3.407	21019	0.054
Zn	66	135.751	ug/L	1.183	110893	0.384
Zn	67		ug/L		21748	0.047
Zn	68		ug/L		79397	0.273
> Ge	74		ug/L		288091	288090.578
As	75	6.684	ug/L	1.862	4986	0.019
Se	77		ug/L		1824	-0.009
Se	82	0.050	ug/L	64.793	25	0.000
Kr	83		ug/L		133	0.000
Sr	88	33.606	ug/L	0.144	334707	1.606
Y	89		ug/L		714944	3.431
Mo	98	3.770	ug/L	1.884	9615	0.046
Ag	107	0.241	ug/L	3.497	1096	0.005
Cd	111	0.916	ug/L	9.744	1060	0.005
Cd	114		ug/L		383	0.002
> In	115		ug/L		208374	208374.079
Sn	120	2.604	ug/L	1.091	12378	0.058
Sb	121	0.242	ug/L	3.763	1125	0.004
Sb	123		ug/L		880	0.003
Ba	135		ug/L		174292	0.428
Ba	137	141.103	ug/L	1.406	306483	0.753
Ho	165		ug/L		55434	0.136
> Lu	175		ug/L		406946	406946.225
Tl	205	0.303	ug/L	2.173	5167	0.011
Pb	208	18.816	ug/L	2.476	485705	1.193
Bi	209		ug/L		4692	0.011
Th	232	23.868	ug/L	1.519	651087	1.599
U	238	3.285	ug/L	1.785	96219	0.235

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

Sample ID: 245113006

Report Date/Time: Thursday, February 11, 2010 22:39:20

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		98.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		80.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		84.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		89.9			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message
 Ti 47 Upper, S, EEETi 47 Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113007

Sample Date/Time: Thursday, February 11, 2010 22:42:44

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|bej

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113007.192

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	84.985	ug/L	3.655	157680	0.393
Be	9	3.285	ug/L	1.709	1653	0.004
B	11	13.379	ug/L	3.222	7664	0.018
Na	23	550.444	ug/L	7.225	2623734	6.478
Mg	24	7801.849	ug/L	5.834	23854646	59.414
Al	27	47878.908	ug/L	5.025	188550444	469.352
P	31	520.290	ug/L	0.952	117936	0.276
K	39	6822.990	ug/L	1.909	37790860	93.058
Ca	43	8136.048	ug/L	0.683	102456	0.255
> Sc	45		ug/L		401455	401454.931
Ti	47	1165.223	ug/L	1.843	719607	1.792
V	51	62.879	ug/L	2.213	401043	0.987
Cr	52	34.306	ug/L	0.338	169790	0.417
Cr	53		ug/L		55992	-0.089
Mn	55	921.650	ug/L	1.708	7448162	18.555
Fe	57	41468.702	ug/L	1.379	6240344	15.535
Co	59	13.638	ug/L	0.913	83624	0.208
Ni	60	24.246	ug/L	1.573	32801	0.081
Cu	63		ug/L		208498	0.519
Cu	65	66.917	ug/L	2.156	103169	0.257
Zn	66	195.721	ug/L	0.776	158779	0.554
Zn	67		ug/L		29983	0.076
Zn	68		ug/L		115989	0.402
> Ge	74		ug/L		286233	286232.937
As	75	8.477	ug/L	0.796	6376	0.023
Se	77		ug/L		1823	-0.009
Se	82	-0.680	ug/L	39.225	-39	-0.000
Kr	83		ug/L		211	0.001
Sr	88	91.375	ug/L	2.080	906188	4.365
Y	89		ug/L		638420	3.076
Mo	98	2.750	ug/L	1.192	7012	0.033
Ag	107	0.470	ug/L	0.777	2088	0.010
Cd	111	1.546	ug/L	2.103	1773	0.008
Cd	114		ug/L		1698	0.008
> In	115		ug/L		207585	207584.814
Sn	120	2.672	ug/L	2.084	12646	0.060
Sb	121	0.407	ug/L	2.457	1719	0.007
Sb	123		ug/L		1350	0.006
Ba	135		ug/L		501789	1.259
Ba	137	402.169	ug/L	1.665	855438	2.146
Ho	165		ug/L		52237	0.131
> Lu	175		ug/L		398551	398551.083
Tl	205	0.876	ug/L	1.522	13255	0.031
Pb	208	85.789	ug/L	0.659	2167851	5.438
Bi	209		ug/L		17540	0.044
Th	232	30.243	ug/L	0.858	807930	2.026
U	238	22.042	ug/L	2.589	629811	1.579

Sample ID: 245113007

Report Date/Time: Thursday, February 11, 2010 22:45:27

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
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					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		80.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		84.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		88.0			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEE Ti

MassOut of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113008

Sample Date/Time: Thursday, February 11, 2010 22:48:51

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113008.193

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	44.562	ug/L	2.165	80137	0.206
Be	9	3.234	ug/L	3.965	1576	0.004
B	11	7.080	ug/L	2.783	4187	0.009
Na	23	457.532	ug/L	6.076	2117390	5.384
Mg	24	3874.065	ug/L	5.683	11481470	29.503
Al	27	30880.239	ug/L	4.906	117695172	302.716
P	31	379.042	ug/L	2.143	85178	0.201
K	39	3312.240	ug/L	2.013	18008128	45.175
Ca	43	3165.709	ug/L	1.302	38728	0.099
> Sc	45		ug/L		389026	389026.433
Ti	47	1531.453	ug/L	1.348	916395	2.356
V	51	57.561	ug/L	2.083	356010	0.904
Cr	52	20.978	ug/L	2.304	101474	0.255
Cr	53		ug/L		47642	-0.106
Mn	55	758.030	ug/L	1.733	5935676	15.261
Fe	57	44515.705	ug/L	2.301	6489004	16.676
Co	59	8.473	ug/L	2.833	50373	0.129
Ni	60	16.682	ug/L	3.040	21897	0.056
Cu	63		ug/L		51498	0.132
Cu	65	17.441	ug/L	1.396	26129	0.067
Zn	66	189.890	ug/L	3.102	158103	0.538
Zn	67		ug/L		29101	0.070
Zn	68		ug/L		113192	0.382
> Ge	74		ug/L		293917	293916.956
As	75	8.202	ug/L	1.167	6324	0.023
Se	77		ug/L		1843	-0.009
Se	82	-0.022	ug/L	483.542	19	-0.000
Kr	83		ug/L		195	0.000
Sr	88	42.420	ug/L	1.690	432606	2.027
Y	89		ug/L		1039117	4.870
Mo	98	5.521	ug/L	1.640	14376	0.067
Ag	107	0.286	ug/L	1.521	1325	0.006
Cd	111	1.141	ug/L	10.698	1350	0.006
Cd	114		ug/L		424	0.002
> In	115		ug/L		213430	213430.419
Sn	120	3.649	ug/L	0.742	17675	0.082
Sb	121	0.221	ug/L	4.054	1077	0.004
Sb	123		ug/L		862	0.003
Ba	135		ug/L		211280	0.497
Ba	137	165.497	ug/L	0.791	375296	0.883
Ho	165		ug/L		86901	0.205
> Lu	175		ug/L		424871	424871.087
Tl	205	0.455	ug/L	1.208	7712	0.016
Pb	208	37.844	ug/L	1.378	1019583	2.399
Bi	209		ug/L		8433	0.019
Th	232	28.528	ug/L	0.483	812470	1.911
U	238	4.606	ug/L	1.315	140679	0.330

Sample ID: 245113008

Report Date/Time: Thursday, February 11, 2010 22:51:34

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		98.2			
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		82.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		86.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		93.8			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EETi

MassOut of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, February 11, 2010 22:54:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 8.194

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	60.044	ug/L	0.998	97063	0.278
Be	9	55.618	ug/L	1.355	24166	0.069
B	11	105.850	ug/L	1.744	49367	0.140
Na	23	4709.951	ug/L	7.953	19396891	55.426
Mg	24	5311.589	ug/L	2.529	14141628	40.450
Al	27	5156.652	ug/L	0.799	17682806	50.550
P	31	5289.027	ug/L	1.318	985881	2.801
K	39	4568.592	ug/L	4.019	22188868	62.310
Ca	43	5007.922	ug/L	1.826	54989	0.157
> Sc	45		ug/L		349660	349660.130
Ti	47	49.296	ug/L	0.906	26740	0.076
V	51	51.159	ug/L	1.538	284904	0.803
Cr	52	52.533	ug/L	0.954	225377	0.639
Cr	53		ug/L		83819	0.011
Mn	55	54.115	ug/L	1.258	381668	1.089
Fe	57	5605.033	ug/L	2.781	737353	2.100
Co	59	52.965	ug/L	1.513	282549	0.808
Ni	60	53.512	ug/L	1.170	62923	0.180
Cu	63		ug/L		144148	0.412
Cu	65	51.898	ug/L	1.417	69713	0.199
Zn	66	52.934	ug/L	0.996	48186	0.150
Zn	67		ug/L		14186	0.016
Zn	68		ug/L		34699	0.106
> Ge	74		ug/L		320223	320222.500
As	75	49.452	ug/L	1.591	43486	0.137
Se	77		ug/L		6867	0.006
Se	82	49.988	ug/L	1.834	4891	0.015
Kr	83		ug/L		66	-0.000
Sr	88	53.970	ug/L	1.851	565617	2.578
Y	89		ug/L		133	0.000
Mo	98	50.567	ug/L	1.787	134523	0.613
Ag	107	51.873	ug/L	2.388	238870	1.089
Cd	111	51.689	ug/L	1.207	62107	0.283
Cd	114		ug/L		146212	0.666
> In	115		ug/L		219337	219337.266
Sn	120	51.286	ug/L	0.477	252272	1.149
Sb	121	52.836	ug/L	3.130	202657	0.923
Sb	123		ug/L		156076	0.711
Ba	135		ug/L		60412	0.150
Ba	137	50.344	ug/L	1.510	108279	0.269
Ho	165		ug/L		41	0.000
> Lu	175		ug/L		402840	402840.203
Tl	205	54.841	ug/L	1.690	793165	1.967
Pb	208	55.653	ug/L	0.993	1421662	3.528
Bi	209		ug/L		584	0.001
Th	232	57.615	ug/L	1.471	1555307	3.859
U	238	58.929	ug/L	0.835	1701251	4.222

Sample ID: QC Std 8

Report Date/Time: Thursday, February 11, 2010 22:57:41

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7	120.087				
Be	9	111.235				
B	11	105.850				
Na	23	94.199				
Mg	24	106.232				
Al	27	102.112				
P	31	105.781				
K	39	91.372				
Ca	43	100.158				
> Sc	45		88.3			
Ti	47	98.593				
V	51	102.318				
Cr	52	105.066				
Cr	53					
Mn	55	108.230				
Fe	57	112.101				
Co	59	105.929				
Ni	60	107.025				
Cu	63					
Cu	65	103.796				
Zn	66	105.869				
Zn	67					
Zn	68					
> Ge	74		89.7			
As	75	98.904				
Se	77					
Se	82	99.976				
Kr	83					
Sr	88	107.941				
Y	89					
Mo	98	101.134				
Ag	107	103.745				
Cd	111	103.379				
Cd	114					
> In	115		88.8			
Sn	120	102.572				
Sb	121	105.673				
Sb	123					
Ba	135					
Ba	137	100.688				
Ho	165					
> Lu	175		89.0			
Tl	205	109.683				
Pb	208	111.306				
Bi	209					
Th	232	115.230				
U	238	117.859				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Li	7	7CCV is out of limits (+/- 10%)
QC Std 8	Be	9	9CCV is out of limits (+/- 10%)
QC Std 8	Fe	57	57CCV is out of limits (+/- 10%)
QC Std 8	Pb	208	208CCV is out of limits (+/- 10%)
QC Std 8	Th	232	232CCV is out of limits (+/- 10%)
QC Std 8	U	238	238CCV is out of limits (+/- 10%)

Sample ID: QC Std 8

Report Date/Time: Thursday, February 11, 2010 22:57:41

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QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Thursday, February 11, 2010 23:01:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 9.195

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.048	ug/L	21.902	113	0.000
Be	9	0.008	ug/L	185.299	17	0.000
B	11	3.298	ug/L	19.593	2110	0.004
Na	23	0.142	ug/L	799.301	19681	0.002
Mg	24	0.340	ug/L	257.820	4668	0.003
Al	27	0.234	ug/L	203.583	7002	0.002
P	31	-2.579	ug/L	26.456	6152	-0.001
K	39	-2.028	ug/L	193.418	390949	-0.028
Ca	43	1.748	ug/L	142.365	178	0.000
> Sc	45		ug/L		365773	365773.092
Ti	47	0.047	ug/L	79.547	260	0.000
V	51	-0.768	ug/L	10.640	-67	-0.012
Cr	52	0.245	ug/L	0.677	3224	0.003
Cr	53		ug/L		70388	-0.036
Mn	55	0.019	ug/L	29.369	991	0.000
Fe	57	3.700	ug/L	15.812	4247	0.001
Co	59	0.004	ug/L	39.929	114	0.000
Ni	60	-0.003	ug/L	177.031	106	-0.000
Cu	63		ug/L		183	0.000
Cu	65	0.004	ug/L	189.175	97	0.000
Zn	66	0.022	ug/L	32.095	230	0.000
Zn	67		ug/L		7949	-0.005
Zn	68		ug/L		775	-0.000
> Ge	74		ug/L		332783	332783.109
As	75	0.416	ug/L	75.921	-17	0.001
Se	77		ug/L		4039	-0.003
Se	82	-0.048	ug/L	85.240	19	-0.000
Kr	83		ug/L		65	-0.000
Sr	88	0.003	ug/L	86.910	195	0.000
Y	89		ug/L		56	0.000
Mo	98	0.036	ug/L	30.094	201	0.000
Ag	107	0.004	ug/L	35.777	66	0.000
Cd	111	0.002	ug/L	100.532	18	0.000
Cd	114		ug/L		43	0.000
> In	115		ug/L		227130	227130.186
Sn	120	0.026	ug/L	20.426	375	0.001
Sb	121	0.237	ug/L	17.047	1210	0.004
Sb	123		ug/L		929	0.003
Ba	135		ug/L		33	0.000
Ba	137	0.002	ug/L	50.116	44	0.000
Ho	165		ug/L		14	0.000
> Lu	175		ug/L		415811	415811.059
Tl	205	0.196	ug/L	24.767	3678	0.007
Pb	208	0.003	ug/L	87.334	523	0.000
Bi	209		ug/L		218	0.000
Th	232	0.037	ug/L	17.849	1638	0.002
U	238	0.005	ug/L	36.536	619	0.000

Sample ID: QC Std 9

Report Date/Time: Thursday, February 11, 2010 23:03:51

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		92.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		93.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		91.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		91.8			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113009

Sample Date/Time: Thursday, February 11, 2010 23:07:15

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113009.196

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.265	ug/L	0.855	94881	0.237
Be	9	3.495	ug/L	2.664	1752	0.004
B	11	13.895	ug/L	2.420	7912	0.018
Na	23	503.405	ug/L	1.532	2392228	5.924
Mg	24	6384.832	ug/L	9.635	19455959	48.623
Al	27	45915.731	ug/L	3.108	180214530	450.108
P	31	487.661	ug/L	1.313	110649	0.258
K	39	5731.321	ug/L	1.382	31728155	78.169
Ca	43	8330.814	ug/L	1.169	104584	0.261
> Sc	45		ug/L		400262	400261.866
Ti	47	900.247	ug/L	1.006	554465	1.385
V	51	55.424	ug/L	2.961	352955	0.870
Cr	52	27.914	ug/L	1.818	138151	0.339
Cr	53		ug/L		54954	-0.092
Mn	55	914.729	ug/L	0.721	7371354	18.415
Fe	57	37955.849	ug/L	1.591	5694538	14.219
Co	59	11.220	ug/L	1.444	68606	0.171
Ni	60	23.311	ug/L	2.200	31441	0.078
Cu	63		ug/L		136915	0.342
Cu	65	43.884	ug/L	1.235	67504	0.168
Zn	66	165.060	ug/L	2.396	132789	0.467
Zn	67		ug/L		26885	0.066
Zn	68		ug/L		98164	0.343
> Ge	74		ug/L		283860	283860.059
As	75	10.451	ug/L	1.494	7875	0.029
Se	77		ug/L		1953	-0.008
Se	82	-0.305	ug/L	51.415	-6	-0.000
Kr	83		ug/L		193	0.000
Sr	88	97.875	ug/L	1.796	964316	4.676
Y	89		ug/L		659638	3.199
Mo	98	2.952	ug/L	1.507	7471	0.036
Ag	107	0.425	ug/L	0.560	1880	0.009
Cd	111	1.489	ug/L	6.821	1698	0.008
Cd	114		ug/L		1529	0.007
> In	115		ug/L		206239	206239.002
Sn	120	1.844	ug/L	2.990	8736	0.041
Sb	121	0.529	ug/L	5.540	2149	0.009
Sb	123		ug/L		1676	0.007
Ba	135		ug/L		533933	1.341
Ba	137	432.647	ug/L	1.056	919256	2.309
Ho	165		ug/L		54680	0.137
> Lu	175		ug/L		398101	398101.499
Tl	205	0.785	ug/L	2.335	11941	0.028
Pb	208	80.570	ug/L	1.319	2033631	5.108
Bi	209		ug/L		22149	0.055
Th	232	30.008	ug/L	0.347	800778	2.010
U	238	11.758	ug/L	1.072	335812	0.842

Sample ID: 245113009

Report Date/Time: Thursday, February 11, 2010 23:09:59

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		101.1			
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		79.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		83.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		87.9			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEETi

MassOut of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113009

Report Date/Time: Thursday, February 11, 2010 23:09:59

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ICPMS#5 - Summary Report

Sample ID: 245113010

Sample Date/Time: Thursday, February 11, 2010 23:13:24

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113010.197

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.659	ug/L	1.545	92592	0.239
Be	9	3.148	ug/L	1.687	1530	0.004
B	11	11.527	ug/L	3.764	6450	0.015
Na	23	462.601	ug/L	0.755	2130406	5.444
Mg	24	5233.164	ug/L	2.982	15455249	39.853
Al	27	42362.896	ug/L	5.338	160962537	415.280
P	31	473.179	ug/L	1.696	104207	0.251
K	39	4851.902	ug/L	9.595	26094892	66.174
Ca	43	6655.006	ug/L	1.679	80956	0.208
> Sc	45		ug/L		387645	387644.589
Ti	47	1129.775	ug/L	0.886	673840	1.738
V	51	48.810	ug/L	1.447	301615	0.766
Cr	52	24.465	ug/L	0.885	117557	0.297
Cr	53		ug/L		50392	-0.099
Mn	55	1029.565	ug/L	1.420	8034919	20.727
Fe	57	36632.771	ug/L	2.916	5323854	13.723
Co	59	11.430	ug/L	1.707	67686	0.174
Ni	60	20.658	ug/L	1.368	27003	0.069
Cu	63		ug/L		61751	0.159
Cu	65	20.609	ug/L	1.345	30753	0.079
Zn	66	156.534	ug/L	0.434	125976	0.443
Zn	67		ug/L		24991	0.059
Zn	68		ug/L		93024	0.325
> Ge	74		ug/L		283868	283867.936
As	75	8.050	ug/L	4.735	5985	0.022
Se	77		ug/L		1810	-0.009
Se	82	-0.701	ug/L	13.052	-40	-0.000
Kr	83		ug/L		200	0.000
Sr	88	78.114	ug/L	1.590	759252	3.732
Y	89		ug/L		679391	3.341
Mo	98	3.186	ug/L	1.208	7949	0.039
Ag	107	0.319	ug/L	4.910	1402	0.007
Cd	111	1.303	ug/L	2.086	1466	0.007
Cd	114		ug/L		1073	0.005
> In	115		ug/L		203441	203440.634
Sn	120	2.095	ug/L	4.352	9762	0.047
Sb	121	0.376	ug/L	4.612	1575	0.007
Sb	123		ug/L		1242	0.005
Ba	135		ug/L		471627	1.186
Ba	137	381.968	ug/L	1.532	810535	2.039
Ho	165		ug/L		54623	0.137
> Lu	175		ug/L		397559	397558.859
Tl	205	0.626	ug/L	2.568	9647	0.022
Pb	208	52.148	ug/L	1.108	1314537	3.306
Bi	209		ug/L		14794	0.037
Th	232	29.626	ug/L	2.816	789328	1.984
U	238	6.509	ug/L	1.310	185838	0.466

Sample ID: 245113010

Report Date/Time: Thursday, February 11, 2010 23:16:07

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		97.9			
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		79.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		82.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		87.8			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEETi
Mn 55 Upper, S, EEIMn

MassOut of Limits Message
47Sample is out of limits (over linear range)
55Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 245113011

Sample Date/Time: Thursday, February 11, 2010 23:19:33

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113011.198

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	44.970	ug/L	2.782	77923	0.208
Be	9	2.212	ug/L	6.382	1043	0.003
B	11	8.225	ug/L	1.035	4602	0.011
Na	23	384.514	ug/L	1.395	1715142	4.525
Mg	24	4623.019	ug/L	6.054	13196060	35.206
Al	27	31714.612	ug/L	0.344	116504327	310.895
P	31	290.349	ug/L	1.086	64439	0.154
K	39	3651.817	ug/L	3.048	19075417	49.807
Ca	43	4055.948	ug/L	0.530	47751	0.127
> Sc	45		ug/L		374717	374717.262
Ti	47	1250.860	ug/L	1.675	721201	1.924
V	51	54.091	ug/L	2.401	322641	0.849
Cr	52	21.884	ug/L	0.716	101883	0.266
Cr	53		ug/L		46488	-0.105
Mn	55	697.940	ug/L	1.904	5266014	14.051
Fe	57	39554.132	ug/L	1.133	5556178	14.818
Co	59	8.016	ug/L	0.392	45918	0.122
Ni	60	15.441	ug/L	0.866	19541	0.052
Cu	63		ug/L		53080	0.141
Cu	65	18.449	ug/L	0.738	26623	0.071
Zn	66	155.878	ug/L	2.172	124792	0.441
Zn	67		ug/L		24220	0.057
Zn	68		ug/L		89898	0.316
> Ge	74		ug/L		282425	282425.049
As	75	8.893	ug/L	3.036	6615	0.025
Se	77		ug/L		1618	-0.009
Se	82	-0.400	ug/L	31.065	-14	-0.000
Kr	83		ug/L		155	0.000
Sr	88	47.731	ug/L	0.553	466506	2.280
Y	89		ug/L		522269	2.554
Mo	98	4.285	ug/L	1.852	10715	0.052
Ag	107	0.243	ug/L	4.012	1086	0.005
Cd	111	0.907	ug/L	10.243	1031	0.005
Cd	114		ug/L		486	0.002
> In	115		ug/L		204513	204513.460
Sn	120	3.314	ug/L	1.791	15403	0.074
Sb	121	0.282	ug/L	8.202	1250	0.005
Sb	123		ug/L		936	0.004
Ba	135		ug/L		269652	0.684
Ba	137	224.514	ug/L	1.023	472104	1.198
Ho	165		ug/L		41165	0.104
> Lu	175		ug/L		393967	393967.495
Tl	205	0.508	ug/L	2.445	7902	0.018
Pb	208	46.159	ug/L	1.260	1153177	2.926
Bi	209		ug/L		10284	0.026
Th	232	26.510	ug/L	1.986	700097	1.776
U	238	6.151	ug/L	1.374	174047	0.441

Sample ID: 245113011

Report Date/Time: Thursday, February 11, 2010 23:22:17

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		94.6			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		79.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		82.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		87.0			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEE Ti

Mass Out of Limits Message
47 Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113012

Sample Date/Time: Thursday, February 11, 2010 23:25:42

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113012.199

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	30.212	ug/L	3.152	51709	0.140
Be	9	2.006	ug/L	0.247	936	0.002
B	11	6.152	ug/L	1.091	3533	0.008
Na	23	331.677	ug/L	5.566	1463794	3.903
Mg	24	3159.939	ug/L	9.135	8908088	24.064
Al	27	21479.708	ug/L	7.370	78000342	210.564
P	31	326.139	ug/L	1.501	70669	0.173
K	39	2863.026	ug/L	2.426	14856785	39.048
Ca	43	3090.515	ug/L	0.576	35981	0.097
> Sc	45		ug/L		370147	370147.252
Ti	47	854.510	ug/L	1.225	486673	1.314
V	51	33.738	ug/L	1.671	200452	0.530
Cr	52	16.573	ug/L	1.115	76733	0.201
Cr	53		ug/L		43673	-0.111
Mn	55	537.222	ug/L	1.296	4003662	10.815
Fe	57	27051.663	ug/L	1.322	3755370	10.134
Co	59	6.326	ug/L	0.522	35815	0.097
Ni	60	12.008	ug/L	0.946	15036	0.040
Cu	63		ug/L		50756	0.137
Cu	65	17.717	ug/L	2.947	25251	0.068
Zn	66	117.965	ug/L	1.989	95963	0.334
Zn	67		ug/L		19266	0.038
Zn	68		ug/L		68835	0.237
> Ge	74		ug/L		286865	286864.988
As	75	5.731	ug/L	0.533	4207	0.016
Se	77		ug/L		1638	-0.009
Se	82	-0.240	ug/L	78.601	-0	-0.000
Kr	83		ug/L		133	0.000
Sr	88	34.366	ug/L	1.110	338670	1.642
Y	89		ug/L		484677	2.351
Mo	98	2.950	ug/L	2.959	7466	0.036
Ag	107	0.211	ug/L	2.156	954	0.004
Cd	111	0.755	ug/L	4.521	867	0.004
Cd	114		ug/L		355	0.002
> In	115		ug/L		206189	206188.989
Sn	120	2.084	ug/L	1.641	9846	0.047
Sb	121	0.190	ug/L	6.920	928	0.003
Sb	123		ug/L		736	0.003
Ba	135		ug/L		163538	0.413
Ba	137	137.084	ug/L	1.811	289953	0.732
Ho	165		ug/L		37719	0.095
> Lu	175		ug/L		396253	396252.810
Tl	205	0.321	ug/L	1.549	5294	0.012
Pb	208	23.919	ug/L	0.916	601218	1.516
Bi	209		ug/L		5640	0.014
Th	232	19.817	ug/L	1.872	526503	1.327
U	238	3.716	ug/L	1.963	105926	0.266

Sample ID: 245113012

Report Date/Time: Thursday, February 11, 2010 23:28:27

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		93.5			
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		80.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		83.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		87.5			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEETi

MassOut of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113013

Sample Date/Time: Thursday, February 11, 2010 23:31:51

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113013.200

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	43.876	ug/L	2.165	76836	0.203
Be	9	1.818	ug/L	5.393	869	0.002
B	11	6.402	ug/L	1.128	3740	0.008
Na	23	441.095	ug/L	9.366	1989122	5.191
Mg	24	4055.914	ug/L	3.764	11696915	30.888
Al	27	27613.586	ug/L	8.640	102412662	270.693
P	31	277.252	ug/L	1.208	62512	0.147
K	39	3129.238	ug/L	2.594	16580866	42.679
Ca	43	2992.507	ug/L	1.056	35656	0.094
> Sc	45		ug/L		378837	378837.450
Ti	47	1474.624	ug/L	1.080	859595	2.268
V	51	58.646	ug/L	2.344	353131	0.921
Cr	52	20.031	ug/L	2.427	94427	0.244
Cr	53		ug/L		46170	-0.107
Mn	55	575.242	ug/L	1.285	4386973	11.581
Fe	57	44546.003	ug/L	2.613	6322558	16.688
Co	59	6.124	ug/L	3.232	35468	0.093
Ni	60	12.795	ug/L	1.164	16386	0.043
Cu	63		ug/L		36857	0.097
Cu	65	13.178	ug/L	1.290	19250	0.051
Zn	66	169.595	ug/L	0.594	139593	0.480
Zn	67		ug/L		26417	0.062
Zn	68		ug/L		99960	0.341
> Ge	74		ug/L		290368	290368.349
As	75	9.345	ug/L	0.995	7166	0.026
Se	77		ug/L		1670	-0.009
Se	82	-0.074	ug/L	318.748	14	-0.000
Kr	83		ug/L		140	0.000
Sr	88	36.451	ug/L	1.166	368928	1.741
Y	89		ug/L		470625	2.223
Mo	98	5.512	ug/L	0.248	14243	0.067
Ag	107	0.245	ug/L	1.978	1133	0.005
Cd	111	0.753	ug/L	11.879	888	0.004
Cd	114		ug/L		254	0.001
> In	115		ug/L		211755	211754.788
Sn	120	3.730	ug/L	2.492	17915	0.084
Sb	121	0.212	ug/L	0.721	1032	0.004
Sb	123		ug/L		786	0.003
Ba	135		ug/L		185644	0.460
Ba	137	151.979	ug/L	1.822	327371	0.811
Ho	165		ug/L		36902	0.091
> Lu	175		ug/L		403667	403667.314
Tl	205	0.444	ug/L	3.921	7168	0.016
Pb	208	46.034	ug/L	0.640	1178323	2.918
Bi	209		ug/L		9098	0.022
Th	232	24.988	ug/L	2.829	676056	1.674
U	238	2.832	ug/L	2.749	82335	0.203

Sample ID: 245113013

Report Date/Time: Thursday, February 11, 2010 23:34:34

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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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

Sample ID: 245113013

Report Date/Time: Thursday, February 11, 2010 23:34:34

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		95.6			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		81.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		85.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		89.2			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEETi

MassOut of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113014

Sample Date/Time: Thursday, February 11, 2010 23:37:58

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\245113014.201

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	45.637	ug/L	0.046	73793	0.211
Be	9	1.891	ug/L	3.835	834	0.002
B	11	7.494	ug/L	2.281	3956	0.010
Na	23	369.006	ug/L	5.477	1536555	4.342
Mg	24	3903.590	ug/L	8.209	10398256	29.728
Al	27	25303.256	ug/L	3.455	86733204	248.045
P	31	421.132	ug/L	2.746	84349	0.223
K	39	3278.598	ug/L	3.535	16018803	44.716
Ca	43	4082.650	ug/L	2.882	44850	0.128
> Sc	45		ug/L		349643	349642.818
Ti	47	710.538	ug/L	0.823	382353	1.093
V	51	33.681	ug/L	1.924	189027	0.529
Cr	52	18.915	ug/L	0.909	82444	0.230
Cr	53		ug/L		42646	-0.107
Mn	55	648.913	ug/L	1.275	4568527	13.064
Fe	57	24556.700	ug/L	2.985	3220040	9.199
Co	59	7.467	ug/L	1.088	39917	0.114
Ni	60	17.061	ug/L	1.346	20134	0.057
Cu	63		ug/L		55385	0.158
Cu	65	20.294	ug/L	0.932	27318	0.078
Zn	66	105.572	ug/L	1.568	80888	0.299
Zn	67		ug/L		16798	0.033
Zn	68		ug/L		58008	0.212
> Ge	74		ug/L		270083	270082.871
As	75	5.551	ug/L	1.569	3827	0.015
Se	77		ug/L		1530	-0.009
Se	82	-0.202	ug/L	90.676	3	-0.000
Kr	83		ug/L		121	0.000
Sr	88	41.039	ug/L	1.643	386290	1.961
Y	89		ug/L		400272	2.032
Mo	98	2.151	ug/L	4.091	5223	0.026
Ag	107	0.218	ug/L	5.543	942	0.005
Cd	111	0.803	ug/L	6.201	880	0.004
Cd	114		ug/L		593	0.003
> In	115		ug/L		196982	196982.211
Sn	120	2.276	ug/L	3.430	10249	0.051
Sb	121	0.211	ug/L	0.544	957	0.004
Sb	123		ug/L		735	0.003
Ba	135		ug/L		194095	0.515
Ba	137	169.473	ug/L	1.925	341063	0.904
Ho	165		ug/L		31916	0.085
> Lu	175		ug/L		377053	377053.234
Tl	205	0.434	ug/L	2.118	6564	0.016
Pb	208	77.744	ug/L	0.107	1858680	4.928
Bi	209		ug/L		7138	0.018
Th	232	19.223	ug/L	1.122	486037	1.288
U	238	6.691	ug/L	2.170	181188	0.479

Sample ID: 245113014

Report Date/Time: Thursday, February 11, 2010 23:40:41

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		88.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		75.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		79.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		83.3			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ti 47 Upper, S, EEETi		47	Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, February 11, 2010 23:44:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 8.202

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	60.702	ug/L	3.677	93731	0.281
Be	9	56.701	ug/L	2.455	23539	0.070
B	11	106.085	ug/L	2.515	47290	0.140
Na	23	4617.086	ug/L	10.307	18200777	54.334
Mg	24	5233.970	ug/L	7.022	13330713	39.859
Al	27	5104.535	ug/L	2.525	16733852	50.039
P	31	5301.002	ug/L	1.242	944364	2.808
K	39	4854.184	ug/L	6.248	22495161	66.206
Ca	43	5043.961	ug/L	0.965	52923	0.158
> Sc	45		ug/L		334150	334150.385
Ti	47	48.057	ug/L	0.558	24911	0.074
V	51	51.644	ug/L	1.232	274929	0.811
Cr	52	52.359	ug/L	0.325	214666	0.637
Cr	53		ug/L		77563	0.003
Mn	55	54.657	ug/L	1.084	368398	1.100
Fe	57	5590.649	ug/L	1.767	703243	2.094
Co	59	52.164	ug/L	0.760	265984	0.796
Ni	60	53.689	ug/L	0.445	60342	0.180
Cu	63		ug/L		137164	0.410
Cu	65	52.283	ug/L	1.020	67118	0.201
Zn	66	52.389	ug/L	1.214	45942	0.148
Zn	67		ug/L		13077	0.014
Zn	68		ug/L		33022	0.104
> Ge	74		ug/L		308420	308419.700
As	75	49.452	ug/L	1.841	41879	0.137
Se	77		ug/L		6282	0.005
Se	82	49.009	ug/L	0.467	4619	0.015
Kr	83		ug/L		60	-0.000
Sr	88	54.223	ug/L	0.649	542005	2.590
Y	89		ug/L		110	0.000
Mo	98	50.892	ug/L	1.513	129136	0.617
Ag	107	52.199	ug/L	0.419	229293	1.096
Cd	111	51.572	ug/L	1.259	59102	0.282
Cd	114		ug/L		139607	0.667
> In	115		ug/L		209159	209159.311
Sn	120	51.222	ug/L	1.775	240282	1.148
Sb	121	52.550	ug/L	1.635	192257	0.918
Sb	123		ug/L		150691	0.719
Ba	135		ug/L		57987	0.148
Ba	137	49.045	ug/L	0.451	102571	0.262
Ho	165		ug/L		35	0.000
> Lu	175		ug/L		391738	391737.729
Tl	205	54.206	ug/L	2.701	761971	1.944
Pb	208	55.181	ug/L	1.403	1370384	3.498
Bi	209		ug/L		510	0.001
Th	232	57.968	ug/L	3.208	1520724	3.883
U	238	58.649	ug/L	1.945	1645924	4.202

Sample ID: QC Std 8

Report Date/Time: Thursday, February 11, 2010 23:46:48

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	121.404				
Be	9	113.401				
B	11	106.085				
Na	23	92.342				
Mg	24	104.679				
Al	27	101.080				
P	31	106.020				
K	39	97.084				
Ca	43	100.879				
> Sc	45		84.4			
Ti	47	96.114				
V	51	103.287				
Cr	52	104.718				
Cr	53					
Mn	55	109.315				
Fe	57	111.813				
Co	59	104.329				
Ni	60	107.379				
Cu	63					
Cu	65	104.565				
Zn	66	104.778				
Zn	67					
Zn	68					
> Ge	74		86.4			
As	75	98.904				
Se	77					
Se	82	98.019				
Kr	83					
Sr	88	108.445				
Y	89					
Mo	98	101.784				
Ag	107	104.399				
Cd	111	103.143				
Cd	114					
> In	115		84.7			
Sn	120	102.444				
Sb	121	105.100				
Sb	123					
Ba	135					
Ba	137	98.089				
Ho	165					
> Lu	175		86.5			
Tl	205	108.412				
Pb	208	110.361				
Bi	209					
Th	232	115.936				
U	238	117.298				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Li	7	7CCV is out of limits (+/- 10%)
QC Std 8	Be	9	9CCV is out of limits (+/- 10%)
QC Std 8	Fe	57	57CCV is out of limits (+/- 10%)
QC Std 8	Pb	208	208CCV is out of limits (+/- 10%)
QC Std 8	Th	232	232CCV is out of limits (+/- 10%)
QC Std 8	U	238	238CCV is out of limits (+/- 10%)

Sample ID: QC Std 8

Report Date/Time: Thursday, February 11, 2010 23:46:48

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QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Thursday, February 11, 2010 23:50:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100211\QC Std 9.203

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.039	ug/L	9.903	90	0.000
Be	9	0.004	ug/L	101.746	14	0.000
B	11	3.427	ug/L	20.505	2029	0.005
Na	23	0.638	ug/L	206.252	20348	0.008
Mg	24	-0.178	ug/L	362.610	3000	-0.001
Al	27	0.171	ug/L	186.492	6335	0.002
P	31	-4.847	ug/L	12.325	5334	-0.003
K	39	-3.149	ug/L	158.774	359815	-0.043
Ca	43	0.538	ug/L	288.656	153	0.000
> Sc	45		ug/L		341592	341591.802
Ti	47	0.015	ug/L	114.750	226	0.000
V	51	-0.543	ug/L	113.068	1114	-0.009
Cr	52	0.488	ug/L	7.938	4020	0.006
Cr	53		ug/L		61704	-0.048
Mn	55	0.017	ug/L	12.885	915	0.000
Fe	57	2.087	ug/L	74.209	3758	0.001
Co	59	0.004	ug/L	62.562	109	0.000
Ni	60	-0.005	ug/L	195.646	97	-0.000
Cu	63		ug/L		170	0.000
Cu	65	0.000	ug/L	9445.414	85	0.000
Zn	66	0.065	ug/L	30.640	249	0.000
Zn	67		ug/L		7286	-0.005
Zn	68		ug/L		711	-0.000
> Ge	74		ug/L		307416	307416.414
As	75	0.149	ug/L	196.676	-246	0.000
Se	77		ug/L		3516	-0.004
Se	82	-0.047	ug/L	88.244	17	-0.000
Kr	83		ug/L		66	0.000
Sr	88	0.002	ug/L	82.113	178	0.000
Y	89		ug/L		47	0.000
Mo	98	0.036	ug/L	20.184	191	0.000
Ag	107	0.003	ug/L	29.238	55	0.000
Cd	111	-0.002	ug/L	142.721	12	-0.000
Cd	114		ug/L		43	0.000
> In	115		ug/L		214302	214301.856
Sn	120	0.029	ug/L	24.054	368	0.001
Sb	121	0.242	ug/L	17.875	1159	0.004
Sb	123		ug/L		869	0.003
Ba	135		ug/L		29	0.000
Ba	137	0.004	ug/L	137.177	44	0.000
Ho	165		ug/L		14	0.000
> Lu	175		ug/L		394345	394344.903
Tl	205	0.186	ug/L	23.511	3358	0.007
Pb	208	0.002	ug/L	60.029	469	0.000
Bi	209		ug/L		207	0.000
Th	232	0.039	ug/L	15.814	1618	0.003
U	238	0.004	ug/L	19.192	574	0.000

Sample ID: QC Std 9

Report Date/Time: Thursday, February 11, 2010 23:52:58

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	0.9999
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	0.9999
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	
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	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9996
U	238Linear Thru Zero	0.9996

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		86.2			
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		86.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		86.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		87.1			
Tl	205					
Pb	208					
Bi	209					
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 #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, February 13, 2010 10:14:49

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.480

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		5702.1		5702.138		98.108		1.7
Mg	24.0		53382.2		53382.156		369.934		0.7
Co	58.9		126956.1		126956.090		1481.192		1.2
Rh	102.9		234012.5		234012.506		651.114		0.3
In	114.9		304048.2		304048.187		1620.031		0.5
Pb	208.0		236889.8		236889.778		1242.706		0.5
[> Ba	137.9		270555.9		270555.908		489.635		0.2
[Ba++	69.0		5659.3		0.021		0.000		1.5
[> Ce	139.9		338733.5		338733.542		1728.021		0.5
[CeO	155.9		7831.6		0.023		0.000		1.3
Bkgd	220.0		13.8		13.800		1.304		9.4

Current Optimization File Data

Current Value	Description
0.87	Nebulizer Gas Flow
5.25	Lens Voltage
1450.00	ICP RF Power
-1718.75	Analog Stage Voltage
1200.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	9	5.5	5355.3
Co	59	9	5.8	129010.6
In	115	9	6.0	301212.4

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	585	2072	0.621
Be	9.0	9.0	2053	2088	0.617
Mg	24.0	24.0	5687	2100	0.581
Mg	25.0	25.0	5939	2100	0.585
Mg	26.0	25.9	6157	2100	0.592
Co	58.9	58.9	14168	2125	0.589
Rh	102.9	102.9	24868	2180	0.582
In	114.9	114.9	27782	2200	0.579
Ce	139.9	139.9	33866	2220	0.587
Pb	206.0	206.0	49948	2305	0.611
Pb	207.0	207.0	50159	2240	0.650
Pb	208.0	208.0	50451	2265	0.716
U	238.1	238.1	57726	2275	0.762

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, February 13, 2010 12:47:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100213\Blank.053

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		584144	
[	Tl	205		ug/L		1850	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175					
[Tl	205					

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: Saturday, February 13, 2010 12:52:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\til only.mth

Dataset File: C:\elandata\Dataset\100213\Standard 1.054

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		559965	559964.697
[TI	205	10.000	ug/L	0.320	238938	0.424

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	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					
[TI	205					

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: Standard 1

Report Date/Time: Saturday, February 13, 2010 12:52:13

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, February 13, 2010 12:56:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100213\Standard 2.055

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		554052	554051.604
[TI	205	99.765	ug/L	0.503	1896992	3.421

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175						
[TI	205						

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: Standard 2

Report Date/Time: Saturday, February 13, 2010 12:56:40

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, February 13, 2010 13:00:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 1.056

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		550788	550787.866
[	Tl	205	54.500	ug/L	1.302	1031011	1.869

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		94.3				
[Tl	205	109.000					

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 2

Sample Date/Time: Saturday, February 13, 2010 13:05:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 2.057

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		584684	584684.196
[	Tl	205	-0.020	ug/L	10.931	1458	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		100.1			
[Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Saturday, February 13, 2010 13:05:40

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, February 13, 2010 13:09:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 3.058

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		571927	571927.291
[	Tl	205	1.235	ug/L	1.416	26027	0.042

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		97.9				
[Tl	205	123.498					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, February 13, 2010 13:14:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 4.059

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		530602	530602.221
[	TI	205	-0.031	ug/L	1.635	1120	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			90.8			
[	TI	205						

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 5

Sample Date/Time: Saturday, February 13, 2010 13:18:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 5.060

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		523376	523376.020
[	Tl	205	21.918	ug/L	0.853	395001	0.752

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175		89.6				
[Tl	205	109.592					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Saturday, February 13, 2010 13:19:07

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 13, 2010 13:23:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.061

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		562682	562682.271
[	Tl	205	54.213	ug/L	0.391	1047744	1.859

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			96.3			
[Tl	205	108.425					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Saturday, February 13, 2010 13:23:37

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 13, 2010 13:27:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\il only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.062

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		583578	583578.315
[	Tl	205	-0.033	ug/L	9.529	1194	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		99.9				
[Tl	205						

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: Saturday, February 13, 2010 13:28:09

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021617

Sample Date/Time: Saturday, February 13, 2010 13:32:28

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\atl only.mth

Dataset File: C:\elandata\Dataset\100213\1202021617.063

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		586362	586362.315
[	Tl	205	-0.031 ug/L	5.006	1237	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9997

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		100.4		
[Tl	205				

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

Sample ID: 1202021617

Report Date/Time: Saturday, February 13, 2010 13:32:39

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021622

Sample Date/Time: Saturday, February 13, 2010 13:37:05

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944127|40|baj

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100213\1202021622.064

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		571864	571864.113
[TI	205	29.930	ug/L	1.673	588636	1.026

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175			97.9		
[TI	205					

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: 245113001

Sample Date/Time: Saturday, February 13, 2010 13:41:35

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\245113001.065

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		579636	579636.157
[TI	205	0.544	ug/L	0.670	12639	0.019

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175		99.2			
[TI	205					

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: 245113001

Report Date/Time: Saturday, February 13, 2010 13:41:47

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021618

Sample Date/Time: Saturday, February 13, 2010 13:46:06

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100213\1202021618.066

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		583409	583408.980
[	Tl	205	0.351	ug/L	1.235	8875	0.012

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175		99.9				
[Tl	205						

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: 1202021618

Report Date/Time: Saturday, February 13, 2010 13:46:18

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021620

Sample Date/Time: Saturday, February 13, 2010 13:50:36

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\dl only.mth

Dataset File: C:\elandata\Dataset\100213\1202021620.067

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		579400	579399.754
[	TI 205	50.873	ug/L	1.723	1012388	1.744

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	0.9997

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu 175		99.2				
[	TI 205						

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: 1202021621

Sample Date/Time: Saturday, February 13, 2010 13:55:05

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\1202021621.068

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		572217	572216.792
[	Tl	205	55.259	ug/L	0.464	1086031	1.895

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175		98.0				
[Tl	205						

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: 1202021621

Report Date/Time: Saturday, February 13, 2010 13:55:16

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021619

Sample Date/Time: Saturday, February 13, 2010 13:59:35

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944127|10|ba|

Method File: c:\elandata\Method\til only.mth

Dataset File: C:\elandata\Dataset\100213\1202021619.069

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		526298	526297.905
[	Tl	205	0.130	ug/L	3.268	4010	0.004

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		90.1			
[Tl	205					

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: 1202021619

Report Date/Time: Saturday, February 13, 2010 13:59:45

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, February 13, 2010 14:04:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 8.070

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		548816	548816.323
[	Tl	205	54.226	ug/L	0.758	1022122	1.859

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		94.0				
[Tl	205	108.452					

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: Saturday, February 13, 2010 14:04:15

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Saturday, February 13, 2010 14:08:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Tl only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 9.071

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		567137	567136.767
[TI	205	-0.031	ug/L	9.440	1187	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175		97.1				
[TI	205						

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: Saturday, February 13, 2010 14:08:47

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113002

Sample Date/Time: Saturday, February 13, 2010 14:13:07

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\245113002.072

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		581337	581337.492
[	Tl	205	0.392	ug/L	2.189	9650	0.013

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		99.5				
[Tl	205						

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: 245113002

Report Date/Time: Saturday, February 13, 2010 14:13:18

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113003

Sample Date/Time: Saturday, February 13, 2010 14:17:37

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127[2]ba]

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\245113003.073

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		568229	568229.381
[TI	205	0.483	ug/L	0.814	11215	0.017

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[> Lu	175		97.3			
[TI	205					

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: 245113003

Report Date/Time: Saturday, February 13, 2010 14:17:49

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113004

Sample Date/Time: Saturday, February 13, 2010 14:22:08

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127[2]baj

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\245113004.074

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		553838	553837.613
[	TI	205	0.427	ug/L	0.814	9856	0.015

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175			94.8		
[TI	205					

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: 245113004

Report Date/Time: Saturday, February 13, 2010 14:22:20

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113005

Sample Date/Time: Saturday, February 13, 2010 14:26:40

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\it only.mth

Dataset File: C:\elandata\Dataset\100213\245113005.075

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		568946	568946.390
[	TI	205	0.723	ug/L	3.443	15914	0.025

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		97.4			
[TI	205					

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: 245113005

Report Date/Time: Saturday, February 13, 2010 14:26:52

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113006

Sample Date/Time: Saturday, February 13, 2010 14:31:11

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127[2]ba]

Method File: c:\elandata\Method\Ti only.mth

Dataset File: C:\elandata\Dataset\100213\245113006.076

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		584377	584376.727
[	Tl	205	0.274	ug/L	2.566	7331	0.009

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			100.0		
[Tl	205					

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: 245113006

Report Date/Time: Saturday, February 13, 2010 14:31:21

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113007

Sample Date/Time: Saturday, February 13, 2010 14:35:40

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\ti only.mth

Dataset File: C:\elandata\Dataset\100213\245113007.077

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		571221	571220.779
[	Tl	205	0.848	ug/L	2.080	18425	0.029

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		97.8				
[	Tl	205						

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, February 13, 2010 14:40:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 8.078

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		549171	549170.862
[	TI	205	53.714	ug/L	1.207	1013119	1.842

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		94.0				
[TI	205	107.429					

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: Saturday, February 13, 2010 14:40:21

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Saturday, February 13, 2010 14:44:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 9.079

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175	ug/L		564802	564801.521
L	Tl	205	ug/L	1.475	784	-0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9997

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
>	Lu	175		96.7			
L	Tl	205					

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: Saturday, February 13, 2010 14:44:53

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113008

Sample Date/Time: Saturday, February 13, 2010 14:49:12

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\Tl only.mth

Dataset File: C:\elandata\Dataset\100213\245113008.080

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		598034	598033.685
[	Tl	205	0.435	ug/L	1.376	10811	0.015

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			102.4			
[Tl	205						

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: 245113008

Report Date/Time: Saturday, February 13, 2010 14:49:23

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113009

Sample Date/Time: Saturday, February 13, 2010 14:53:43

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 9441272[ba]

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\245113009.081

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		576842	576842.236
[	Tl	205	0.689	ug/L	2.608	15460	0.024

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			98.7		
[Tl	205					

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: 245113010

Sample Date/Time: Saturday, February 13, 2010 14:58:14

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100213\245113010.082

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		573174	573174.266
[	Ti	205	0.554	ug/L	0.741	12699	0.019

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Ti	205Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			98.1			
[Ti	205						

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: 245113010

Report Date/Time: Saturday, February 13, 2010 14:58:25

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113011

Sample Date/Time: Saturday, February 13, 2010 15:02:45

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\245113011.083

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		572190	572190.046
[TI	205	0.456	ug/L	2.648	10762	0.016

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175		98.0			
[TI	205					

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: 245113011

Report Date/Time: Saturday, February 13, 2010 15:02:57

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113012

Sample Date/Time: Saturday, February 13, 2010 15:07:18

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127[2]ba]

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100213\245113012.084

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		579816	579816.413
[TI	205	0.282	ug/L	0.876	7450	0.010

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175			99.3		
[TI	205					

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: 245113012

Report Date/Time: Saturday, February 13, 2010 15:07:30

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113013

Sample Date/Time: Saturday, February 13, 2010 15:11:49

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|baj

Method File: c:\elandata\Method\atl only.mth

Dataset File: C:\elandata\Dataset\100213\245113013.085

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		578894	578893.575
[	Tl	205	0.404	ug/L	1.021	9862	0.014

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		99.1				
[Tl	205						

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: 245113014

Sample Date/Time: Saturday, February 13, 2010 15:16:19

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944127|2|ba|

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100213\245113014.086

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		574202	574201.558
|	Tl	205	0.403	ug/L	2.109	9761	0.014

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
>	Lu	175			98.3		
	Tl	205					

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: 245113014

Report Date/Time: Saturday, February 13, 2010 15:16:30

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, February 13, 2010 15:20:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 8.087

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		546752	546751.652
[	TI	205	54.066	ug/L	0.814	1015311	1.854

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel.	% Difference
>	Lu	175			93.6			
[TI	205	108.133					

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: Saturday, February 13, 2010 15:21:00

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Saturday, February 13, 2010 15:25:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\til only.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 9.088

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		571668	571668.446
[	Tl	205	-0.057	ug/L	2.797	686	-0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			97.9			
[Tl	205						

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: Saturday, February 13, 2010 15:25:32

Page 1

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, February 15, 2010 09:29:40

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.498

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	7663.5	7663.456	183.201	2.4
Mg	24.0	80446.5	80446.526	1406.481	1.7
Co	58.9	185881.8	185881.796	1828.731	1.0
Rh	102.9	331984.9	331984.897	3412.916	1.0
In	114.9	442302.5	442302.526	2761.177	0.6
Pb	208.0	335915.3	335915.332	1439.959	0.4
[> Ba	137.9	393831.4	393831.438	2895.607	0.7
[Ba++	69.0	8399.0	0.021	0.000	1.7
[> Ce	139.9	473929.9	473929.938	1678.067	0.4
[CeO	155.9	12978.9	0.027	0.001	2.0
Bkgd	220.0	20.2	20.200	2.992	14.8

Current Optimization File Data

Current Value	Description
0.89	Nebulizer Gas Flow
5.75	Lens Voltage
1450.00	ICP RF Power
-1750.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	9	5.5	7681.7
Co	59	9	5.8	182033.1
In	115	9	6.0	440620.6

Sample ID: Sample

Report Date/Time: Monday, February 15, 2010 09:31:00

Page 1

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	581	2072	0.640
Be	9.0	9.0	2051	2088	0.627
Mg	24.0	24.0	5681	2100	0.580
Mg	25.0	25.0	5945	2100	0.590
Mg	26.0	25.9	6152	2100	0.605
Co	58.9	58.9	14186	2125	0.605
Rh	102.9	102.9	24871	2180	0.603
In	114.9	114.9	27785	2200	0.593
Ce	139.9	139.9	33857	2220	0.602
Pb	206.0	206.0	49948	2305	0.624
Pb	207.0	207.0	50147	2240	0.640
Pb	208.0	208.0	50451	2265	0.719
U	238.1	238.0	57719	2275	0.748

ICPMS#5 - Summary Report

Sample ID: Blank
Sample Date/Time: Monday, February 15, 2010 17:58:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be and ni.mth
Dataset File: c:\elandata\Dataset\100215\Blank.200

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9		ug/L		19	
Sc	45		ug/L		1030906	
Ni	60		ug/L		227	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Simple Linear	
Ni	60	Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45					
Ni	60					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, February 15, 2010 18:00:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\Standard 1.201

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000	ug/L	4.664	5267	0.005
|>	Sc	45		ug/L		1035254	1035254.316
[	Ni	60	10.000	ug/L	0.800	27368	0.026

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45					
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Monday, February 15, 2010 18:00:32

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, February 15, 2010 18:02:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\Standard 2.202

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	99.966	ug/L	1.018	51406	0.049
|>	Sc	45		ug/L		1048149	1048149.354
[	Ni	60	99.964	ug/L	1.916	265470	0.253

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45					
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 2

Report Date/Time: Monday, February 15, 2010 18:02:42

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, February 15, 2010 18:04:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 1.203

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	51.825	ug/L	1.772	26812	0.025
|>	Sc	45		ug/L		1054186	1054185.639
[	Ni	60	51.721	ug/L	0.761	138265	0.131

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	103.649					
|>	Sc	45		102.3				
[	Ni	60	103.442					

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: Monday, February 15, 2010 18:04:53

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, February 15, 2010 18:06:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 2.204

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.001	ug/L	748.457	20	0.000
Sc	45		ug/L		1052213	1052213.012
Ni	60	-0.005	ug/L	54.710	219	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
Sc	45		102.1				
Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Monday, February 15, 2010 18:07:08

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, February 15, 2010 18:09:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 3.205

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.534	ug/L	2.076	297	0.000
>	Sc	45		ug/L		1058709	1058709.366
[	Ni	60	2.258	ug/L	1.371	6285	0.006

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	106.885					
>	Sc	45		102.7				
[	Ni	60	112.904					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 3

Report Date/Time: Monday, February 15, 2010 18:09:20

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ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, February 15, 2010 18:11:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 4.206

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.094	ug/L	20.420	62	0.000
|>	Sc	45		ug/L		958888	958888.123
[	Ni	60	3.511	ug/L	0.994	8734	0.009

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45		93.0				
[	Ni	60	106.081					

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: Monday, February 15, 2010 18:11:32

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ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, February 15, 2010 18:13:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 5.207

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	18.162 ug/L	1.688	8471	0.009
>	Sc	45	ug/L		949210	949209.953
[	Ni	60	22.389 ug/L	1.211	54006	0.057

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Be	9	90.810			
>	Sc	45		92.1		
[	Ni	60	96.051			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Monday, February 15, 2010 18:13:44

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 15, 2010 18:15:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 6.208

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	49.455	ug/L	1.081	24584	0.024
|>	Sc	45		ug/L		1012811	1012811.088
[	Ni	60	51.642	ug/L	0.726	132633	0.131

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	98.909					
|>	Sc	45		98.2				
[	Ni	60	103.284					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 15, 2010 18:17:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 7.209

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.000	ug/L	78608.857	19	-0.000
Sc	45		ug/L		1030757	1030757.056
Ni	60	0.003	ug/L	211.500	233	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
Be	9					
Sc	45		100.0			
Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Monday, February 15, 2010 18:18:13

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Monday, February 15, 2010 18:20:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 10.210

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	923.028	ug/L	0.336	429159	0.453
Sc	45		ug/L		948056	948056.313
Ni	60	814.426	ug/L	0.862	1954975	2.062

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Be	9	92.303				
Sc	45		92.0			
Ni	60	81.443				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	Ni	60	LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

Sample ID: QC Std 10

Report Date/Time: Monday, February 15, 2010 18:20:23

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Monday, February 15, 2010 18:22:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 11.211

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	50.926	ug/L	2.289	26035	0.025
|>	Sc	45		ug/L		1041799	1041799.116
[	Ni	60	51.421	ug/L	1.275	135851	0.130

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	101.852					
|>	Sc	45		101.1				
[	Ni	60	102.842					

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 11

Report Date/Time: Monday, February 15, 2010 18:22:34

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Monday, February 15, 2010 18:24:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 12.212

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.016	ug/L	25.002	28	0.000
|>	Sc	45		ug/L		1059715	1059714.572
[	Ni	60	0.004	ug/L	206.769	243	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		102.8			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 12

Report Date/Time: Monday, February 15, 2010 18:24:49

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202042623

Sample Date/Time: Monday, February 15, 2010 18:26:47

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\1202042623.213

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.004	ug/L	282.967	18	-0.000
|>	Sc	45		ug/L		1076744	1076744.361
]	Ni	60	0.059	ug/L	8.286	396	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		104.4			
]	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042623

Report Date/Time: Monday, February 15, 2010 18:27:00

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202042628

Sample Date/Time: Monday, February 15, 2010 18:28:59

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 952970[40]ba]

Method File: c:\elandata\Method\be and nl.mth

Dataset File: c:\elandata\Dataset\100215\1202042628.214

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	19.744 ug/L	2.078	10469	0.010
|>	Sc	45	ug/L		1079143	1079143.186
[	Ni	60	36.177 ug/L	0.810	99073	0.092

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9				
|>	Sc	45	104.7			
[Ni	60				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113001

Sample Date/Time: Monday, February 15, 2010 18:31:11

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and nl.mth

Dataset File: c:\elandata\Dataset\100215\245113001.215

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.260 ug/L	2.504	1288	0.001
|>	Sc	45	ug/L		1143612	1143611.890
[	Ni	60	19.620 ug/L	0.482	57052	0.050

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9				
|>	Sc	45	110.9			
[	Ni	60				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113001

Report Date/Time: Monday, February 15, 2010 18:31:25

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ICPMS#5 - Summary Report

Sample ID: 1202042624

Sample Date/Time: Monday, February 15, 2010 18:33:25

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\1202042624.216

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.232	ug/L	2.620	1271	0.001
|>	Sc	45		ug/L		1142604	1142604.440
[	Ni	60	17.078	ug/L	1.793	49650	0.043

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45		110.8				
[	Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042624

Report Date/Time: Monday, February 15, 2010 18:33:39

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ICPMS#5 - Summary Report

Sample ID: 1202042626

Sample Date/Time: Monday, February 15, 2010 18:35:38

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 952970|2|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\1202042626.217

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	24.468	ug/L	2.003	13722	0.012
|>	Sc	45		ug/L		1141864	1141863.550
[	Ni	60	44.326	ug/L	0.390	128386	0.112

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		110.8			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042626

Report Date/Time: Monday, February 15, 2010 18:35:53

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ICPMS#5 - Summary Report

Sample ID: 1202042627

Sample Date/Time: Monday, February 15, 2010 18:37:52

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\1202042627.218

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	25.086	ug/L	1.883	14460	0.012
|>	Sc	45		ug/L		1173699	1173699.153
[	Ni	60	45.003	ug/L	1.982	133966	0.114

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		113.9			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042627

Report Date/Time: Monday, February 15, 2010 18:38:07

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202042625

Sample Date/Time: Monday, February 15, 2010 18:40:07

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 952970|10|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\1202042625.219

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.499	ug/L	3.963	286	0.000
|>	Sc	45		ug/L		1086429	1086428.793
[	Ni	60	4.150	ug/L	1.308	11651	0.011

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		105.4			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042625

Report Date/Time: Monday, February 15, 2010 18:40:22

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 15, 2010 18:42:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 6.220

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	49.658	ug/L	2.256	26363	0.024
|>	Sc	45		ug/L		1081896	1081896.243
[	Ni	60	50.140	ug/L	1.720	137548	0.127

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution %	Duplicate Rel.	% Difference
[	Be	9	99.316					
|>	Sc	45		104.9				
[	Ni	60	100.280					

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: Monday, February 15, 2010 18:42:36

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 15, 2010 18:44:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 7.221

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.000	ug/L	4058.682	20	0.000
|>	Sc	45		ug/L		1080155	1080155.160
[	Ni	60	0.003	ug/L	112.145	245	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		104.8			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Monday, February 15, 2010 18:44:51

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ICPMS#5 - Summary Report

Sample ID: 245113002

Sample Date/Time: Monday, February 15, 2010 18:46:49

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113002.222

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.388	ug/L	4.194	779	0.001
Sc	45		ug/L		1114854	1114853.784
Ni	60	15.484	ug/L	1.551	43946	0.039

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45		108.1			
Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113002

Report Date/Time: Monday, February 15, 2010 18:47:02

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113003

Sample Date/Time: Monday, February 15, 2010 18:49:01

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113003.223

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.156	ug/L	1.590	1245	0.001
Sc	45		ug/L		1157221	1157221.261
Ni	60	20.455	ug/L	0.805	60178	0.052

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
Sc	45		112.3				
Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113004

Sample Date/Time: Monday, February 15, 2010 18:51:14

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113004.224

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	1.928	ug/L		1.641	1110	0.001
|>	Sc	45		ug/L			1151777	1151776.936
[	Ni	60	16.877	ug/L		1.271	49462	0.043

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45		111.7				
[	Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113004

Report Date/Time: Monday, February 15, 2010 18:51:28

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113005

Sample Date/Time: Monday, February 15, 2010 18:53:28

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113005.225

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	3.021	ug/L	2.999	1752	0.001
Sc	45		ug/L		1168446	1168445.613
Ni	60	21.807	ug/L	1.678	64753	0.055

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45		113.3			
Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113005

Report Date/Time: Monday, February 15, 2010 18:53:42

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113006

Sample Date/Time: Monday, February 15, 2010 18:55:42

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113006.226

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.785	ug/L	1.619	1619	0.001
|>	Sc	45		ug/L		1169981	1169981.095
[	Ni	60	15.155	ug/L	1.305	45147	0.038

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		113.5			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113006

Report Date/Time: Monday, February 15, 2010 18:55:57

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113007

Sample Date/Time: Monday, February 15, 2010 18:57:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113007.227

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.343	ug/L	4.823	1948	0.002
|>	Sc	45		ug/L		1175293	1175293.308
[	Ni	60	25.655	ug/L	1.236	76593	0.065

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		114.0			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113007

Report Date/Time: Monday, February 15, 2010 18:58:12

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113008

Sample Date/Time: Monday, February 15, 2010 19:00:12

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113008.228

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	3.605	ug/L	2.589	2093	0.002
Sc	45		ug/L		1171426	1171426.432
Ni	60	20.814	ug/L	1.047	61985	0.053

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45		113.6			
Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113008

Report Date/Time: Monday, February 15, 2010 19:00:28

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 15, 2010 19:02:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 6.229

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	49.889	ug/L	3.224	26339	0.024
Sc	45		ug/L		1075929	1075929.191
Ni	60	50.364	ug/L	1.837	137417	0.128

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9	99.777					
Sc	45		104.4				
Ni	60	100.729					

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: Monday, February 15, 2010 19:02:41

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 15, 2010 19:04:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 7.230

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.008	ug/L	139.605	24	0.000
|>	Sc	45		ug/L		1084681	1084681.031
[	Ni	60	-0.002	ug/L	375.411	233	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45		105.2				
[	Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Monday, February 15, 2010 19:04:56

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113009

Sample Date/Time: Monday, February 15, 2010 19:06:55

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113009.231

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.627	ug/L	0.791	2136	0.002
|>	Sc	45		ug/L		1188560	1188560.386
L	Ni	60	27.300	ug/L	2.422	82422	0.069

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		115.3			
L	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113009

Report Date/Time: Monday, February 15, 2010 19:07:09

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113010

Sample Date/Time: Monday, February 15, 2010 19:09:08

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113010.232

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.605	ug/L	2.290	2094	0.002
|>	Sc	45		ug/L		1171923	1171922.674
[	Ni	60	24.005	ug/L	1.864	71472	0.061

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dif	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		113.7			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113010

Report Date/Time: Monday, February 15, 2010 19:09:22

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113011

Sample Date/Time: Monday, February 15, 2010 19:11:21

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113011.233

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.218	ug/L	1.147	1295	0.001
Sc	45		ug/L		1170728	1170728.418
Ni	60	17.747	ug/L	2.317	52853	0.045

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Be	9					
Sc	45		113.6			
Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113011

Report Date/Time: Monday, February 15, 2010 19:11:36

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113012

Sample Date/Time: Monday, February 15, 2010 19:13:35

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113012.234

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.405		ug/L	3.059	1385	0.001
|>	Sc	45			ug/L		1156780	1156780.468
[	Ni	60	14.815		ug/L	1.501	43638	0.038

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45		112.2				
[	Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113012

Report Date/Time: Monday, February 15, 2010 19:13:50

Page 1

ICPMS#5 - Summary Report

Sample ID: 245113013

Sample Date/Time: Monday, February 15, 2010 19:15:50

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113013.235

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.292	ug/L	1.592	1320	0.001
|>	Sc	45		ug/L		1155098	1155097.708
[	Ni	60	16.410	ug/L	0.332	48242	0.042

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		112.0			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245113014

Sample Date/Time: Monday, February 15, 2010 19:18:06

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952970|2|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\245113014.236

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Be	9	2.610	ug/L	2.088	1496	0.001
|>	Sc	45		ug/L		1151868	1151867.760
|	Ni	60	19.810	ug/L	1.684	58015	0.050

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
|	Be	9					
|>	Sc	45		111.7			
|	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245113014

Report Date/Time: Monday, February 15, 2010 19:18:21

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, February 15, 2010 19:20:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 6.237

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	50.420	ug/L	0.242	26370	0.025
|>	Sc	45		ug/L		1065689	1065688.516
[	Ni	60	50.329	ug/L	2.894	135976	0.127

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	100.841				
|>	Sc	45		103.4			
[	Ni	60	100.658				

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: Monday, February 15, 2010 19:20:34

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, February 15, 2010 19:22:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100215\QC Std 7.238

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.003	ug/L	675.293	21	0.000
Sc	45		ug/L		1064608	1064607.931
Ni	60	-0.002	ug/L	329.081	229	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Be	9					
Sc	45		103.3			
Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Monday, February 15, 2010 19:22:49

Page 1

=====

Analysis Begun

Logged In Analyst: Administrator
Spectrometer Model: FIMS-100, S/N B050-9550

Technique: AA FIMS-MHS
Autosampler Model: S10

Sample Information File: C:\data-AA\Administrator\Sample Information\020310S1.SIF
Batch ID:
Results Data Set: 020310S2
Results Library: C:\data-AA\Administrator\Results\Results.mdb

=====

Sequence No.: 1	Autosampler Location: 1
Sample ID: Calib Blank	Date Collected: 2/3/2010 09:19:49
Analyst:	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]	0.0001	-0.0009	0.0001	09:20:39	Yes
2		[0.00]	0.0003	0.0002	0.0003	09:21:09	Yes
Mean:		[0.00]	0.0002				
SD:		0.00	0.0001				
%RSD:		0.00	67.05				

Auto-zero performed.

=====

Sequence No.: 2	Autosampler Location: 2
Sample ID: S0.2	Date Collected: 2/3/2010 09:21:28
Analyst:	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]	0.0024	0.0085	0.0026	09:22:19	Yes
2		[0.2]	0.0024	0.0096	0.0026	09:22:48	Yes
Mean:		[0.2]	0.0024				
SD:		0.0	0.0000				
%RSD:		0.0	0.55				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01200 Intercept: 0.00000

=====

Sequence No.: 3	Autosampler Location: 3
Sample ID: S0.5	Date Collected: 2/3/2010 09:23:07
Analyst:	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]	0.0058	0.0230	0.0060	09:23:58	Yes
2		[0.5]	0.0057	0.0227	0.0059	09:24:28	Yes
Mean:		[0.5]	0.0058				
SD:		0.0	0.0001				
%RSD:		0.0	1.29				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999812 Slope: 0.01148 Intercept: 0.00004

=====

Sequence No.: 4	Autosampler Location: 4
Sample ID: S2.0	Date Collected: 2/3/2010 09:24:47
Analyst:	Data Type: Original

Replicate Data: S2.0

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

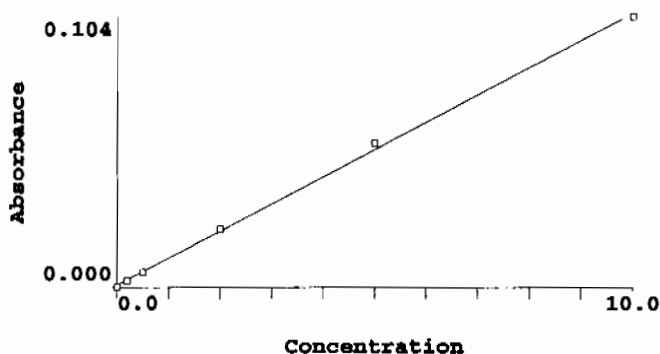
1	[2.0]	0.0226	0.0920	0.0228	09:25:39	Yes
2	[2.0]	0.0225	0.0925	0.0227	09:26:08	Yes
Mean:	[2.0]	0.0226				
SD:	0.0	0.0001				
%RSD:	0.0	0.31				
Standard number 3 applied. [2.0]						
Correlation Coef.: 0.999978 Slope: 0.01125 Intercept: 0.00009						

Sequence No.: 5 Autosampler Location: 5
Sample ID: S5.0 Date Collected: 2/3/2010 09:26:28
Analyst: Data Type: Original

Rep#	SampleConc	StdConc	BlankCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[5.0]	0.0560	0.2306	0.0561	09:27:20	Yes
2		[5.0]	0.0555	0.2282	0.0556	09:27:50	Yes
Mean:		[5.0]	0.0557				
SD:		0.0	0.0004				
%RSD:		0.0	0.64				
Standard number 4 applied. [5.0]							
Correlation Coef.: 0.999987 Slope: 0.01113 Intercept: 0.00015							

Sequence No.: 6	Autosampler Location: 6
Sample ID: S10.0	Date Collected: 2/3/2010 09:28:11
Analyst:	Data Type: Original

Repl #	SampleConc ug/L	StdndConc ug/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1049	0.4339	0.1051	09:29:00	Yes
2		[10.0]	0.1040	0.4300	0.1041	09:29:30	Yes
Mean:		[10.0]	0.1044				
SD:		0.0	0.0007				
%RSD:		0.0	0.64				
Standard number 5 applied. [10.0]							
Correlation Coef.:		0.999455	Slope: 0.01049		Intercept: 0.00087		



ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	-0.083	0.00	67.1
S0.2	0.0024	0.2	0.145	0.00	0.5
S0.5	0.0058	0.5	0.465	0.00	1.3
S2.0	0.0226	2.0	2.069	0.00	0.3
S5.0	0.0557	5.0	5.229	0.00	0.6
S10.0	0.1044	10.0	9.875	0.00	0.6

Correlation Coef.: 0.999455 Slope: 0.01049 Intercept: 0.00087

Sequence No.: 7
Sample ID: ICV
Analyst:

Autosampler Location: 9
Date Collected: 2/3/2010 09:29:49
Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.359	5.359	0.0571	0.2351	0.0573	09:30:40	Yes
2	5.335	5.335	0.0568	0.2337	0.0570	09:31:10	Yes
Mean:	5.347	5.347	0.0570				
SD:	0.017	0.017	0.0002				
%RSD:	0.322	0.322	0.32				

QC value within limits for Hg 253.7 Recovery = 106.94%
All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:

Autosampler Location: 10
Date Collected: 2/3/2010 09:31:29
Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.080	-0.080	0.0000	-0.0002	0.0002	09:32:20	Yes
2	-0.080	-0.080	0.0000	0.0000	0.0002	09:32:50	Yes
Mean:	-0.080	-0.080	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.030	0.030	0.84				

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: 2/3/2010 09:33:10
Data Type: Original

Replicate Data: CRDL

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.178	0.178	0.0027	0.0111	0.0029	09:34:01	Yes
2	0.179	0.179	0.0028	0.0115	0.0029	09:34:31	Yes
Mean:	0.179	0.179	0.0027				
SD:	0.001	0.001	0.0000				
%RSD:	0.677	0.677	0.46				

QC value within limits for Hg 253.7 Recovery = 89.27%
All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 2/3/2010 09:34:51
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.247	5.247	0.0559	0.2299	0.0561	09:35:41	Yes
2	5.215	5.215	0.0556	0.2284	0.0558	09:36:11	Yes
Mean:	5.231	5.231	0.0557				
SD:	0.022	0.022	0.0002				
%RSD:	0.421	0.421	0.41				

QC value within limits for Hg 253.7 Recovery = 104.62%
All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 2/3/2010 09:36:30
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.090	-0.090	-0.0001	-0.0003	0.0001	09:37:21	Yes
2	-0.094	-0.094	-0.0001	-0.0005	0.0001	09:37:51	Yes
Mean:	-0.092	-0.092	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	2.528	2.528	26.79				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 12
Sample ID: 1202019790|943326|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 2/3/2010 09:38:10
Data Type: Original

Replicate Data: 1202019790|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.089	-0.089	-0.0001	-0.0001	0.0001	09:39:02	Yes
2	-0.090	-0.090	-0.0001	-0.0003	0.0001	09:39:32	Yes
Mean:	-0.090	-0.090	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	0.778	0.778	10.92				

=====

Sequence No.: 13
Sample ID: 1202019791|943326|10
Analyst: JXL

Autosampler Location: 13
Date Collected: 2/3/2010 09:39:52
Data Type: Original

Replicate Data: 1202019791|943326|10

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.572	3.572	0.0383	0.1583	0.0385	09:40:44	Yes
2	3.582	3.582	0.0384	0.1572	0.0386	09:41:14	Yes
Mean:	3.577	3.577	0.0384				
SD:	0.007	0.007	0.0001				
%RSD:	0.185	0.185	0.18				

=====

Sequence No.: 14
Sample ID: 244899001|943326|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 2/3/2010 09:41:34
Data Type: Original

Replicate Data: 244899001|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.086	0.086	0.0018	0.0073	0.0019	09:42:25	Yes
2	0.090	0.090	0.0018	0.0077	0.0020	09:42:55	Yes
Mean:	0.088	0.088	0.0018				
SD:	0.003	0.003	0.0000				
%RSD:	3.122	3.122	1.60				

=====

Sequence No.: 15
Sample ID: 1202019792|943326|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 2/3/2010 09:43:14
Data Type: Original

Replicate Data: 1202019792|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.104	0.104	0.0020	0.0084	0.0021	09:44:04	Yes
2	0.106	0.106	0.0020	0.0085	0.0022	09:44:34	Yes
Mean:	0.105	0.105	0.0020				
SD:	0.002	0.002	0.0000				

1	0.016	0.016	0.0010	0.0059	0.0012	09:52:21	Yes
2	0.024	0.024	0.0011	0.0071	0.0013	09:52:51	Yes
Mean:	0.020	0.020	0.0011				
SD:	0.006	0.006	0.0001				
%RSD:	29.04	29.04	5.58				

Sequence No.: 21

Autosampler Location: 21

Sample ID: 244899004|943326|1

Date Collected: 2/3/2010 09:53:10

Analyst: JXL

Data Type: Original

Replicate Data: 244899004|943326|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.823	0.823	0.0095	0.0395	0.0097	09:54:02	Yes
2	0.819	0.819	0.0095	0.0391	0.0096	09:54:32	Yes
Mean:	0.821	0.821	0.0095				
SD:	0.003	0.003	0.0000				
%RSD:	0.329	0.329	0.30				

Sequence No.: 22

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/3/2010 09:54:51

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.279	5.279	0.0562	0.2307	0.0564	09:55:42	Yes
2	5.288	5.288	0.0563	0.2308	0.0565	09:56:12	Yes
Mean:	5.284	5.284	0.0563				
SD:	0.006	0.006	0.0001				
%RSD:	0.118	0.118	0.12				

QC value within limits for Hg 253.7 Recovery = 105.67%
All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/3/2010 09:56:31

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.092	-0.092	-0.0001	-0.0002	0.0001	09:57:22	Yes
2	-0.089	-0.089	-0.0001	0.0001	0.0001	09:57:52	Yes
Mean:	-0.091	-0.091	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	2.486	2.486	30.70				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 22

Sample ID: 244899005|943326|1

Date Collected: 2/3/2010 09:58:11

Analyst: JXL

Data Type: Original

Replicate Data: 244899005|943326|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.234	0.234	0.0033	0.0141	0.0035	09:59:02	Yes
2	0.237	0.237	0.0034	0.0141	0.0035	09:59:32	Yes
Mean:	0.236	0.236	0.0033				
SD:	0.002	0.002	0.0000				
%RSD:	0.884	0.884	0.65				

SD: 0.002 0.002 0.0000
%RSD: 0.346 0.346 0.31

Sequence No.: 30

Sample ID: 244899011|943326|1

Analyst: JXL

Autosampler Location: 28

Date Collected: 2/3/2010 10:08:18

Data Type: Original

Replicate Data: 244899011|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.964	0.964	0.0110	0.0461	0.0112	10:09:08	Yes
2	0.967	0.967	0.0110	0.0460	0.0112	10:09:38	Yes
Mean:	0.966	0.966	0.0110				
SD:	0.002	0.002	0.0000				
%RSD:	0.227	0.227	0.21				

Sequence No.: 31

Sample ID: 244899012|943326|1

Analyst: JXL

Autosampler Location: 29

Date Collected: 2/3/2010 10:09:58

Data Type: Original

Replicate Data: 244899012|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.772	0.772	0.0090	0.0371	0.0091	10:10:48	Yes
2	0.768	0.768	0.0089	0.0369	0.0091	10:11:18	Yes
Mean:	0.770	0.770	0.0090				
SD:	0.003	0.003	0.0000				
%RSD:	0.404	0.404	0.36				

Sequence No.: 32

Sample ID: 244899013|943326|1

Analyst: JXL

Autosampler Location: 30

Date Collected: 2/3/2010 10:11:37

Data Type: Original

Replicate Data: 244899013|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.621	0.621	0.0074	0.0310	0.0076	10:12:28	Yes
2	0.617	0.617	0.0073	0.0305	0.0075	10:12:58	Yes
Mean:	0.619	0.619	0.0074				
SD:	0.003	0.003	0.0000				
%RSD:	0.533	0.533	0.47				

Sequence No.: 33

Sample ID: 244899014|943326|1

Analyst: JXL

Autosampler Location: 31

Date Collected: 2/3/2010 10:13:17

Data Type: Original

Replicate Data: 244899014|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.948	0.948	0.0108	0.0453	0.0110	10:14:07	Yes
2	0.951	0.951	0.0108	0.0450	0.0110	10:14:37	Yes
Mean:	0.950	0.950	0.0108				
SD:	0.002	0.002	0.0000				
%RSD:	0.164	0.164	0.15				

Sequence No.: 34

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 10:14:56

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	----------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.278	5.278	0.0562	0.2314	0.0564	10:15:46	Yes
2	5.264	5.264	0.0561	0.2302	0.0563	10:16:16	Yes
Mean:	5.271	5.271	0.0562				
SD:	0.010	0.010	0.0001				
%RSD:	0.186	0.186	0.18				

QC value within limits for Hg 253.7 Recovery = 105.42%
All analyte(s) passed QC.

Sequence No.: 35

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/3/2010 10:16:35

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.084	-0.084	-0.0000	0.0010	0.0002	10:17:26	Yes
2	-0.086	-0.086	-0.0000	0.0010	0.0001	10:17:55	Yes
Mean:	-0.085	-0.085	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	2.210	2.210	119.72				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36

Sample ID: 244899015|943326|1

Analyst: JXL

Autosampler Location: 32

Date Collected: 2/3/2010 10:18:15

Data Type: Original

Replicate Data: 244899015|943326|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.982	0.982	0.0112	0.0470	0.0114	10:19:06	Yes
2	0.972	0.972	0.0111	0.0465	0.0112	10:19:36	Yes
Mean:	0.977	0.977	0.0111				
SD:	0.007	0.007	0.0001				
%RSD:	0.745	0.745	0.69				

Sequence No.: 37

Sample ID: 244899016|943326|1

Analyst: JXL

Autosampler Location: 33

Date Collected: 2/3/2010 10:19:55

Data Type: Original

Replicate Data: 244899016|943326|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.262	0.262	0.0036	0.0161	0.0038	10:20:46	Yes
2	0.258	0.258	0.0036	0.0159	0.0038	10:21:16	Yes
Mean:	0.260	0.260	0.0036				
SD:	0.003	0.003	0.0000				
%RSD:	1.151	1.151	0.87				

Sequence No.: 38

Sample ID: 244899017|943326|1

Analyst: JXL

Autosampler Location: 34

Date Collected: 2/3/2010 10:21:36

Data Type: Original

Replicate Data: 244899017|943326|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.845	0.845	0.0097	0.0413	0.0099	10:22:27	Yes
2	0.849	0.849	0.0098	0.0409	0.0100	10:22:57	Yes
Mean:	0.847	0.847	0.0098				
SD:	0.003	0.003	0.0000				
%RSD:	0.386	0.386	0.35				

Sequence No.: 39

Sample ID: 244899018|943326|1

Analyst: JXL

Autosampler Location: 35

Date Collected: 2/3/2010 10:23:17

Data Type: Original

Replicate Data: 244899018|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.888	0.888	0.0102	0.0430	0.0104	10:24:09	Yes
2	0.877	0.877	0.0101	0.0427	0.0103	10:24:39	Yes
Mean:	0.883	0.883	0.0101				
SD:	0.007	0.007	0.0001				
%RSD:	0.832	0.832	0.76				

Sequence No.: 40

Sample ID: 244899019|943326|1

Analyst: JXL

Autosampler Location: 36

Date Collected: 2/3/2010 10:24:58

Data Type: Original

Replicate Data: 244899019|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.298	0.298	0.0040	0.0178	0.0042	10:25:50	Yes
2	0.298	0.298	0.0040	0.0176	0.0042	10:26:20	Yes
Mean:	0.298	0.298	0.0040				
SD:	0.000	0.000	0.0000				
%RSD:	0.119	0.119	0.09				

Sequence No.: 41

Sample ID: 244899020|943326|1

Analyst: JXL

Autosampler Location: 37

Date Collected: 2/3/2010 10:26:40

Data Type: Original

Replicate Data: 244899020|943326|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.248	0.248	0.0035	0.0154	0.0036	10:27:32	Yes
2	0.241	0.241	0.0034	0.0147	0.0036	10:28:02	Yes
Mean:	0.245	0.245	0.0034				
SD:	0.004	0.004	0.0000				
%RSD:	1.764	1.764	1.32				

Sequence No.: 42

Sample ID: 1202025224|945588|1

Analyst: JXL

Autosampler Location: 38

Date Collected: 2/3/2010 10:28:22

Data Type: Original

Replicate Data: 1202025224|945588|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.086	-0.086	-0.0000	0.0009	0.0001	10:29:14	Yes
2	-0.087	-0.087	-0.0000	0.0009	0.0001	10:29:43	Yes
Mean:	-0.086	-0.086	-0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.329	0.329	9.37				

Sequence No.: 43

Sample ID: 1202025225|945588|10

Analyst: JXL

Autosampler Location: 39

Date Collected: 2/3/2010 10:30:03

Data Type: Original

Replicate Data: 1202025225|945588|10

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.131	4.131	0.0442	0.1836	0.0444	10:30:54	Yes
2	4.117	4.117	0.0441	0.1830	0.0442	10:31:24	Yes

Mean: 4.124 4.124 0.0441
SD: 0.010 0.010 0.0001
%RSD: 0.250 0.250 0.25

Sequence No.: 44

Sample ID: 245113001|945588|1

Analyst: JXL

Autosampler Location: 40

Date Collected: 2/3/2010 10:31:43

Data Type: Original

Replicate Data: 245113001|945588|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.333	0.333	0.0044	0.0189	0.0045	10:32:34	Yes
2	0.328	0.328	0.0043	0.0191	0.0045	10:33:04	Yes
Mean:	0.330	0.330	0.0043				
SD:	0.003	0.003	0.0000				
%RSD:	0.981	0.981	0.78				

Sequence No.: 45

Sample ID: 245113002|945588|1

Analyst: JXL

Autosampler Location: 41

Date Collected: 2/3/2010 10:33:24

Data Type: Original

Replicate Data: 245113002|945588|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.103	0.103	0.0020	0.0089	0.0021	10:34:14	Yes
2	0.107	0.107	0.0020	0.0091	0.0022	10:34:44	Yes
Mean:	0.105	0.105	0.0020				
SD:	0.003	0.003	0.0000				
%RSD:	2.397	2.397	1.34				

Sequence No.: 46

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 10:35:04

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.169	5.169	0.0551	0.2268	0.0553	10:35:54	Yes
2	5.142	5.142	0.0548	0.2246	0.0550	10:36:24	Yes
Mean:	5.156	5.156	0.0549				
SD:	0.019	0.019	0.0002				
%RSD:	0.365	0.365	0.36				

QC value within limits for Hg 253.7 Recovery = 103.11%
All analyte(s) passed QC.

Sequence No.: 47

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/3/2010 10:36:43

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.088	-0.088	-0.0000	0.0006	0.0001	10:37:33	Yes
2	-0.077	-0.077	0.0001	0.0020	0.0002	10:38:03	Yes
Mean:	-0.082	-0.082	0.0000				
SD:	0.007	0.007	0.0001				
%RSD:	9.041	9.041	833.25				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 48

Sample ID: 245113003|945588|1

Autosampler Location: 42

Date Collected: 2/3/2010 10:38:22

Analyst: JXL

Data Type: Original

Replicate Data: 245113003|945588|1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.664	2.664	0.0288	0.1177	0.0290	10:39:13	Yes
2	2.648	2.648	0.0287	0.1173	0.0288	10:39:43	Yes
Mean:	2.656	2.656	0.0287				
SD:	0.011	0.011	0.0001				
%RSD:	0.411	0.411	0.40				

Sequence No.: 49

Autosampler Location: 43

Sample ID: 245113004|945588|1

Date Collected: 2/3/2010 10:40:02

Analyst: JXL

Data Type: Original

Replicate Data: 245113004|945588|1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.462	2.462	0.0267	0.1089	0.0269	10:40:53	Yes
2	2.444	2.444	0.0265	0.1082	0.0267	10:41:23	Yes
Mean:	2.453	2.453	0.0266				
SD:	0.013	0.013	0.0001				
%RSD:	0.520	0.520	0.50				

Sequence No.: 50

Autosampler Location: 44

Sample ID: 245113005|945588|1

Date Collected: 2/3/2010 10:41:43

Analyst: JXL

Data Type: Original

Replicate Data: 245113005|945588|1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.914	3.914	0.0419	0.1711	0.0421	10:42:34	Yes
2	3.883	3.883	0.0416	0.1708	0.0418	10:43:04	Yes
Mean:	3.898	3.898	0.0418				
SD:	0.022	0.022	0.0002				
%RSD:	0.554	0.554	0.54				

Sequence No.: 51

Autosampler Location: 45

Sample ID: 245113006|945588|1

Date Collected: 2/3/2010 10:43:23

Analyst: JXL

Data Type: Original

Replicate Data: 245113006|945588|1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.700	0.700	0.0082	0.0345	0.0084	10:44:14	Yes
2	0.694	0.694	0.0082	0.0345	0.0083	10:44:44	Yes
Mean:	0.697	0.697	0.0082				
SD:	0.004	0.004	0.0000				
%RSD:	0.613	0.613	0.55				

Sequence No.: 52

Autosampler Location: 46

Sample ID: 245113007|945588|1

Date Collected: 2/3/2010 10:45:03

Analyst: JXL

Data Type: Original

Replicate Data: 245113007|945588|1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.18	10.18	0.1076	0.4417	0.1078	10:45:54	Yes
2	10.21	10.21	0.1079	0.4417	0.1081	10:46:24	Yes
Mean:	10.19	10.19	0.1078				
SD:	0.020	0.020	0.0002				
%RSD:	0.193	0.193	0.19				

Sequence No.: 53

Sample ID: 245113008|945588|1

Analyst: JXL

Autosampler Location: 47

Date Collected: 2/3/2010 10:46:44

Data Type: Original

Replicate Data: 245113008|945588|1

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.203	0.203	0.0030	0.0131	0.0032	10:47:35	Yes
2	0.201	0.201	0.0030	0.0132	0.0032	10:48:05	Yes
Mean:	0.202	0.202	0.0030				
SD:	0.002	0.002	0.0000				
%RSD:	0.953	0.953	0.67				

Sequence No.: 54

Sample ID: 245113009|945588|1

Analyst: JXL

Autosampler Location: 48

Date Collected: 2/3/2010 10:48:25

Data Type: Original

Replicate Data: 245113009|945588|1

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.857	3.857	0.0413	0.1700	0.0415	10:49:16	Yes
2	3.853	3.853	0.0413	0.1687	0.0415	10:49:46	Yes
Mean:	3.855	3.855	0.0413				
SD:	0.002	0.002	0.0000				
%RSD:	0.060	0.060	0.06				

Sequence No.: 55

Sample ID: 245113010|945588|1

Analyst: JXL

Autosampler Location: 49

Date Collected: 2/3/2010 10:50:07

Data Type: Original

Replicate Data: 245113010|945588|1

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.409	0.409	0.0052	0.0222	0.0053	10:50:59	Yes
2	0.410	0.410	0.0052	0.0220	0.0053	10:51:28	Yes
Mean:	0.410	0.410	0.0052				
SD:	0.001	0.001	0.0000				
%RSD:	0.124	0.124	0.10				

Sequence No.: 56

Sample ID: 245113011|945588|1

Analyst: JXL

Autosampler Location: 50

Date Collected: 2/3/2010 10:51:49

Data Type: Original

Replicate Data: 245113011|945588|1

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.716	0.716	0.0084	0.0350	0.0086	10:52:40	Yes
2	0.712	0.712	0.0083	0.0346	0.0085	10:53:09	Yes
Mean:	0.714	0.714	0.0084				
SD:	0.003	0.003	0.0000				
%RSD:	0.371	0.371	0.33				

Sequence No.: 57

Sample ID: 245113012|945588|1

Analyst: JXL

Autosampler Location: 51

Date Collected: 2/3/2010 10:53:29

Data Type: Original

Replicate Data: 245113012|945588|1

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.105	1.105	0.0125	0.0518	0.0126	10:54:20	Yes

2	1.111	1.111	0.0125	0.0513	0.0127	10:54:50	Yes
Mean:	1.108	1.108	0.0125				
SD:	0.004	0.004	0.0000				
%RSD:	0.355	0.355	0.33				

Sequence No.: 58

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/3/2010 10:55:09

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.176	5.176	0.0552	0.2242	0.0553	10:56:00	Yes
2	5.154	5.154	0.0549	0.2240	0.0551	10:56:30	Yes
Mean:	5.165	5.165	0.0550				
SD:	0.016	0.016	0.0002				
%RSD:	0.302	0.302	0.30				

QC value within limits for Hg 253.7 Recovery = 103.30%

All analyte(s) passed QC.

Sequence No.: 59

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/3/2010 10:56:49

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.082	-0.082	0.0000	0.0007	0.0002	10:57:39	Yes
2	-0.078	-0.078	0.0001	0.0013	0.0002	10:58:09	Yes
Mean:	-0.080	-0.080	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	2.836	2.836	67.68				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 60

Autosampler Location: 52

Sample ID: 245113013|945588|1

Date Collected: 2/3/2010 10:58:29

Analyst: JXL

Data Type: Original

Replicate Data: 245113013|945588|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.409	0.409	0.0052	0.0216	0.0053	10:59:20	Yes
2	0.408	0.408	0.0052	0.0214	0.0053	10:59:50	Yes
Mean:	0.408	0.408	0.0052				
SD:	0.001	0.001	0.0000				
%RSD:	0.181	0.181	0.15				

Sequence No.: 61

Autosampler Location: 53

Sample ID: 245113014|945588|1

Date Collected: 2/3/2010 11:00:09

Analyst: JXL

Data Type: Original

Replicate Data: 245113014|945588|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.687	2.687	0.0291	0.1189	0.0292	11:01:00	Yes
2	2.676	2.676	0.0289	0.1184	0.0291	11:01:30	Yes
Mean:	2.682	2.682	0.0290				
SD:	0.008	0.008	0.0001				
%RSD:	0.304	0.304	0.29				

Sequence No.: 62

Autosampler Location: 54

Sample ID: 245371001|945588|1

Analyst: JXL

Date Collected: 2/3/2010 11:01:50

Data Type: Original

Replicate Data: 245371001|945588|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.073	0.073	0.0016	0.0071	0.0018	11:02:41	Yes
2	0.062	0.062	0.0015	0.0065	0.0017	11:03:11	Yes
Mean:	0.068	0.068	0.0016				
SD:	0.008	0.008	0.0001				
%RSD:	11.49	11.49	5.14				

Sequence No.: 63

Sample ID: 245371002|945588|1

Analyst: JXL

Autosampler Location: 55

Date Collected: 2/3/2010 11:03:31

Data Type: Original

Replicate Data: 245371002|945588|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	0.0011	0.0053	0.0013	11:04:21	Yes
2	0.021	0.021	0.0011	0.0053	0.0013	11:04:51	Yes
Mean:	0.022	0.022	0.0011				
SD:	0.002	0.002	0.0000				
%RSD:	10.87	10.87	2.30				

Sequence No.: 64

Sample ID: 245372002|945588|1

Analyst: JXL

Autosampler Location: 56

Date Collected: 2/3/2010 11:05:11

Data Type: Original

Replicate Data: 245372002|945588|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.079	0.079	0.0017	0.0082	0.0019	11:06:02	Yes
2	0.088	0.088	0.0018	0.0082	0.0020	11:06:31	Yes
Mean:	0.083	0.083	0.0017				
SD:	0.006	0.006	0.0001				
%RSD:	7.745	7.745	3.88				

Sequence No.: 65

Sample ID: 1202025226|945588|1

Analyst: JXL

Autosampler Location: 57

Date Collected: 2/3/2010 11:06:51

Data Type: Original

Replicate Data: 1202025226|945588|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.119	0.119	0.0021	0.0098	0.0023	11:07:43	Yes
2	0.119	0.119	0.0021	0.0091	0.0023	11:08:12	Yes
Mean:	0.119	0.119	0.0021				
SD:	0.000	0.000	0.0000				
%RSD:	0.054	0.054	0.03				

Sequence No.: 66

Sample ID: 1202025227|945588|1

Analyst: JXL

Autosampler Location: 58

Date Collected: 2/3/2010 11:08:32

Data Type: Original

Replicate Data: 1202025227|945588|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.307	2.307	0.0251	0.1024	0.0252	11:09:23	Yes
2	2.282	2.282	0.0248	0.1017	0.0250	11:09:53	Yes
Mean:	2.295	2.295	0.0249				
SD:	0.017	0.017	0.0002				

%RSD: 0.744 0.744 0.72

Sequence No.: 67

Sample ID: 1202025229|945588|1

Analyst: JXL

Autosampler Location: 59

Date Collected: 2/3/2010 11:10:13

Data Type: Original

Replicate Data: 1202025229|945588|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.269	2.269	0.0247	0.1009	0.0248	11:11:05	Yes
2	2.270	2.270	0.0247	0.1007	0.0249	11:11:34	Yes
Mean:	2.270	2.270	0.0247				
SD:	0.001	0.001	0.0000				
%RSD:	0.058	0.058	0.06				

Sequence No.: 68

Sample ID: 1202025228|945588|5

Analyst: JXL

Autosampler Location: 60

Date Collected: 2/3/2010 11:11:54

Data Type: Original

Replicate Data: 1202025228|945588|5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.049	-0.049	0.0004	0.0017	0.0005	11:12:46	Yes
2	-0.044	-0.044	0.0004	0.0017	0.0006	11:13:16	Yes
Mean:	-0.047	-0.047	0.0004				
SD:	0.003	0.003	0.0000				
%RSD:	7.346	7.346	9.29				

Sequence No.: 69

Sample ID: 245372003|945588|1

Analyst: JXL

Autosampler Location: 61

Date Collected: 2/3/2010 11:13:36

Data Type: Original

Replicate Data: 245372003|945588|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0009	0.0039	0.0011	11:14:28	Yes
2	0.005	0.005	0.0009	0.0032	0.0011	11:14:58	Yes
Mean:	0.005	0.005	0.0009				
SD:	0.000	0.000	0.0000				
%RSD:	4.923	4.923	0.27				

Sequence No.: 70

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 11:15:18

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.024	5.024	0.0536	0.2211	0.0537	11:16:09	Yes
2	5.023	5.023	0.0536	0.2205	0.0537	11:16:39	Yes
Mean:	5.024	5.024	0.0536				
SD:	0.001	0.001	0.0000				
%RSD:	0.019	0.019	0.02				

QC value within limits for Hg 253.7 Recovery = 100.47%
All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/3/2010 11:16:58

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.082	-0.082	0.0000	-0.0001	0.0002	11:17:49	Yes
2	-0.083	-0.083	0.0000	-0.0004	0.0002	11:18:19	Yes
Mean:	-0.082	-0.082	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.522	0.522	39.97				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 72

Sample ID: 245372004|945588|1

Analyst: JXL

Autosampler Location: 62

Date Collected: 2/3/2010 11:18:38

Data Type: Original

Replicate Data: 245372004|945588|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.024	0.024	0.0011	0.0047	0.0013	11:19:29	Yes
2	0.034	0.034	0.0012	0.0053	0.0014	11:19:59	Yes
Mean:	0.029	0.029	0.0012				
SD:	0.007	0.007	0.0001				
%RSD:	23.94	23.94	6.23				

Sequence No.: 73

Sample ID: 1202025236|945594|1

Analyst: JXL

Autosampler Location: 63

Date Collected: 2/3/2010 11:20:19

Data Type: Original

Replicate Data: 1202025236|945594|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.082	-0.082	0.0000	0.0003	0.0002	11:21:11	Yes
2	-0.081	-0.081	0.0000	0.0001	0.0002	11:21:40	Yes
Mean:	-0.081	-0.081	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	0.749	0.749	31.94				

Sequence No.: 74

Sample ID: 1202025237|945594|10

Analyst: JXL

Autosampler Location: 64

Date Collected: 2/3/2010 11:22:00

Data Type: Original

Replicate Data: 1202025237|945594|10

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.164	4.164	0.0446	0.1841	0.0447	11:22:52	Yes
2	4.151	4.151	0.0444	0.1819	0.0446	11:23:22	Yes
Mean:	4.158	4.158	0.0445				
SD:	0.010	0.010	0.0001				
%RSD:	0.233	0.233	0.23				

Sequence No.: 75

Sample ID: 245147001|945594|1

Analyst: JXL

Autosampler Location: 65

Date Collected: 2/3/2010 11:23:41

Data Type: Original

Replicate Data: 245147001|945594|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.241	0.241	0.0034	0.0146	0.0036	11:24:33	Yes
2	0.230	0.230	0.0033	0.0141	0.0035	11:25:03	Yes
Mean:	0.235	0.235	0.0033				
SD:	0.008	0.008	0.0001				
%RSD:	3.295	3.295	2.43				

SD: 0.000 0.000 0.0000
%RSD: 0.228 0.228 0.16

Sequence No.: 81

Sample ID: 245147003|945594|1

Analyst: JXL

Autosampler Location: 71

Date Collected: 2/3/2010 11:33:48

Data Type: Original

Replicate Data: 245147003|945594|1

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.531	0.531	0.0064	0.0268	0.0066	11:34:39	Yes
2	0.526	0.526	0.0064	0.0267	0.0066	11:35:09	Yes
Mean:	0.528	0.528	0.0064				
SD:	0.003	0.003	0.0000				
%RSD:	0.636	0.636	0.55				

Sequence No.: 82

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 11:35:29

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.134	5.134	0.0547	0.2278	0.0549	11:36:19	Yes
2	5.086	5.086	0.0542	0.2250	0.0544	11:36:49	Yes
Mean:	5.110	5.110	0.0545				
SD:	0.034	0.034	0.0004				
%RSD:	0.658	0.658	0.65				

QC value within limits for Hg 253.7 Recovery = 102.20%
All analyte(s) passed QC.

Sequence No.: 83

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/3/2010 11:37:08

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.088	-0.088	-0.0000	-0.0006	0.0001	11:37:59	Yes
2	-0.086	-0.086	-0.0000	-0.0004	0.0001	11:38:29	Yes
Mean:	-0.087	-0.087	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	1.318	1.318	30.04				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 84

Sample ID: 245147004|945594|1

Analyst: JXL

Autosampler Location: 72

Date Collected: 2/3/2010 11:38:48

Data Type: Original

Replicate Data: 245147004|945594|1

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.247	0.247	0.0035	0.0146	0.0036	11:39:40	Yes
2	0.240	0.240	0.0034	0.0143	0.0036	11:40:10	Yes
Mean:	0.244	0.244	0.0034				
SD:	0.005	0.005	0.0001				
%RSD:	2.206	2.206	1.64				

Sequence No.: 85

Sample ID: 245147005|945594|1

Analyst: JXL

Autosampler Location: 73

Date Collected: 2/3/2010 11:40:30

Data Type: Original

Sequence No.: 90

Sample ID: 245147010|945594|1

Analyst: JXL

Autosampler Location: 78

Date Collected: 2/3/2010 11:48:56

Data Type: Original

Replicate Data: 245147010|945594|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.324	0.324	0.0043	0.0179	0.0045	11:49:47	Yes
2	0.327	0.327	0.0043	0.0181	0.0045	11:50:17	Yes
Mean:	0.326	0.326	0.0043				
SD:	0.002	0.002	0.0000				
%RSD:	0.700	0.700	0.56				

Sequence No.: 91

Sample ID: 245147011|945594|1

Analyst: JXL

Autosampler Location: 79

Date Collected: 2/3/2010 11:50:37

Data Type: Original

Replicate Data: 245147011|945594|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.664	1.664	0.0183	0.0763	0.0185	11:51:28	Yes
2	1.665	1.665	0.0183	0.0761	0.0185	11:51:58	Yes
Mean:	1.665	1.665	0.0183				
SD:	0.001	0.001	0.0000				
%RSD:	0.051	0.051	0.05				

Sequence No.: 92

Sample ID: 245147012|945594|1

Analyst: JXL

Autosampler Location: 80

Date Collected: 2/3/2010 11:52:18

Data Type: Original

Replicate Data: 245147012|945594|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.233	0.233	0.0033	0.0141	0.0035	11:53:09	Yes
2	0.243	0.243	0.0034	0.0156	0.0036	11:53:39	Yes
Mean:	0.238	0.238	0.0034				
SD:	0.007	0.007	0.0001				
%RSD:	2.864	2.864	2.12				

Sequence No.: 93

Sample ID: 245147013|945594|1

Analyst: JXL

Autosampler Location: 81

Date Collected: 2/3/2010 11:53:59

Data Type: Original

Replicate Data: 245147013|945594|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.132	0.132	0.0023	0.0099	0.0024	11:54:51	Yes
2	0.130	0.130	0.0022	0.0096	0.0024	11:55:20	Yes
Mean:	0.131	0.131	0.0022				
SD:	0.001	0.001	0.0000				
%RSD:	1.108	1.108	0.68				

Sequence No.: 94

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 11:55:40

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.060	5.060	0.0539	0.2247	0.0541	11:56:31	Yes
2	5.083	5.083	0.0542	0.2251	0.0544	11:57:01	Yes

Mean: 5.071 5.071 0.0541
SD: 0.017 0.017 0.0002
%RSD: 0.328 0.328 0.32

QC value within limits for Hg 253.7 Recovery = 101.43%
All analyte(s) passed QC.

Sequence No.: 95

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/3/2010 11:57:20

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.085	-0.085	-0.0000	0.0004	0.0002	11:58:11	Yes
2	-0.079	-0.079	0.0000	0.0017	0.0002	11:58:41	Yes
Mean:	-0.082	-0.082	0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	5.464	5.464	309.92				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 96

Sample ID: 245147014|945594|1

Analyst: JXL

Autosampler Location: 82

Date Collected: 2/3/2010 11:59:00

Data Type: Original

Replicate Data: 245147014|945594|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.987	2.987	0.0322	0.1328	0.0324	11:59:52	Yes
2	2.981	2.981	0.0321	0.1327	0.0323	12:00:22	Yes
Mean:	2.984	2.984	0.0322				
SD:	0.004	0.004	0.0000				
%RSD:	0.144	0.144	0.14				

Sequence No.: 97

Sample ID: 245147015|945594|1

Analyst: JXL

Autosampler Location: 83

Date Collected: 2/3/2010 12:00:42

Data Type: Original

Replicate Data: 245147015|945594|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.595	0.595	0.0071	0.0299	0.0073	12:01:33	Yes
2	0.589	0.589	0.0071	0.0297	0.0072	12:02:03	Yes
Mean:	0.592	0.592	0.0071				
SD:	0.004	0.004	0.0000				
%RSD:	0.686	0.686	0.60				

Sequence No.: 98

Sample ID: 245147016|945594|1

Analyst: JXL

Autosampler Location: 84

Date Collected: 2/3/2010 12:02:23

Data Type: Original

Replicate Data: 245147016|945594|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.260	0.260	0.0036	0.0154	0.0038	12:03:15	Yes
2	0.260	0.260	0.0036	0.0154	0.0038	12:03:45	Yes
Mean:	0.260	0.260	0.0036				
SD:	0.000	0.000	0.0000				
%RSD:	0.079	0.079	0.06				

Sequence No.: 99

Sample ID: 245147017|945594|1

Autosampler Location: 85

Date Collected: 2/3/2010 12:04:05

Sequence No.: 104

Sample ID: 1202029909|947616|1

Analyst: JXL

Autosampler Location: 90

Date Collected: 2/3/2010 12:12:34

Data Type: Original

Replicate Data: 1202029909|947616|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.197	0.197	0.0029	0.0129	0.0031	12:13:25	Yes
2	0.196	0.196	0.0029	0.0129	0.0031	12:13:55	Yes
Mean:	0.196	0.196	0.0029				
SD:	0.001	0.001	0.0000				
%RSD:	0.300	0.300	0.21				

Sequence No.: 105

Sample ID: 1202029910|947616|1

Analyst: JXL

Autosampler Location: 91

Date Collected: 2/3/2010 12:14:15

Data Type: Original

Replicate Data: 1202029910|947616|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.299	2.299	0.0250	0.1032	0.0252	12:15:07	Yes
2	2.281	2.281	0.0248	0.1031	0.0250	12:15:37	Yes
Mean:	2.290	2.290	0.0249				
SD:	0.013	0.013	0.0001				
%RSD:	0.568	0.568	0.55				

Sequence No.: 106

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 12:15:57

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.876	4.876	0.0520	0.2158	0.0522	12:16:47	Yes
2	4.874	4.874	0.0520	0.2144	0.0522	12:17:17	Yes
Mean:	4.875	4.875	0.0520				
SD:	0.001	0.001	0.0000				
%RSD:	0.031	0.031	0.03				

QC value within limits for Hg 253.7 Recovery = 97.50%

All analyte(s) passed QC.

Sequence No.: 107

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/3/2010 12:17:36

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.086	-0.086	-0.0000	0.0009	0.0002	12:18:27	Yes
2	-0.085	-0.085	-0.0000	0.0008	0.0002	12:18:56	Yes
Mean:	-0.085	-0.085	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	0.811	0.811	38.45				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 108

Sample ID: 1202029912|947616|1

Analyst: JXL

Autosampler Location: 92

Date Collected: 2/3/2010 12:19:16

Data Type: Original

%RSD: 0.327 0.327 0.31

Sequence No.: 118

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 12:36:15

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.949	4.949	0.0528	0.2191	0.0530	12:37:05	Yes
2	4.954	4.954	0.0528	0.2182	0.0530	12:37:35	Yes
Mean:	4.951	4.951	0.0528				
SD:	0.003	0.003	0.0000				
%RSD:	0.070	0.070	0.07				

QC value within limits for Hg 253.7 Recovery = 99.02%
All analyte(s) passed QC.

Sequence No.: 119

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/3/2010 12:37:53

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.076	-0.076	0.0001	0.0007	0.0003	12:38:44	Yes
2	-0.074	-0.074	0.0001	0.0008	0.0003	12:39:14	Yes
Mean:	-0.075	-0.075	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	1.888	1.888	16.79				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 120

Sample ID: 245557002|946824|1

Analyst: JXL

Autosampler Location: 102

Date Collected: 2/3/2010 12:39:33

Data Type: Original

Replicate Data: 245557002|946824|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.610	3.610	0.0387	0.1603	0.0389	12:40:25	Yes
2	3.584	3.584	0.0385	0.1587	0.0386	12:40:55	Yes
Mean:	3.597	3.597	0.0386				
SD:	0.018	0.018	0.0002				
%RSD:	0.507	0.507	0.50				

Sequence No.: 121

Sample ID: 1202028048|946824|1

Analyst: JXL

Autosampler Location: 103

Date Collected: 2/3/2010 12:41:15

Data Type: Original

Replicate Data: 1202028048|946824|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.466	4.466	0.0477	0.1976	0.0479	12:42:07	Yes
2	4.457	4.457	0.0476	0.1968	0.0478	12:42:37	Yes
Mean:	4.461	4.461	0.0477				
SD:	0.006	0.006	0.0001				
%RSD:	0.145	0.145	0.14				

Sequence No.: 122

Sample ID: 1202028049|946824|1

Analyst: JXL

Autosampler Location: 104

Date Collected: 2/3/2010 12:42:57

Data Type: Original

2	4.974	4.974	0.0530	0.2200	0.0532	12:51:08	Yes
Mean:	4.997	4.997	0.0533				
SD:	0.032	0.032	0.0003				
%RSD:	0.646	0.646	0.64				

Sequence No.: 127

Autosampler Location: 109

Sample ID: 245557005|946824|1

Date Collected: 2/3/2010 12:51:28

Analyst: JXL

Data Type: Original

Replicate Data: 245557005|946824|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.026	0.026	0.0011	0.0048	0.0013	12:52:20	Yes
2	0.019	0.019	0.0011	0.0048	0.0012	12:52:50	Yes
Mean:	0.022	0.022	0.0011				
SD:	0.005	0.005	0.0001				
%RSD:	22.87	22.87	4.82				

Sequence No.: 128

Autosampler Location: 110

Sample ID: 245557006|946824|1

Date Collected: 2/3/2010 12:53:11

Analyst: JXL

Data Type: Original

Replicate Data: 245557006|946824|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.077	-0.077	0.0001	0.0001	0.0002	12:54:03	Yes
2	-0.081	-0.081	0.0000	-0.0001	0.0002	12:54:33	Yes
Mean:	-0.079	-0.079	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	3.651	3.651	61.21				

Sequence No.: 129

Autosampler Location: 111

Sample ID: 245557007|946824|1

Date Collected: 2/3/2010 12:54:54

Analyst: JXL

Data Type: Original

Replicate Data: 245557007|946824|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	8.104	8.104	0.0859	0.3644	0.0860	12:55:46	Yes
2	8.047	8.047	0.0853	0.3617	0.0854	12:56:16	Yes
Mean:	8.075	8.075	0.0856				
SD:	0.040	0.040	0.0004				
%RSD:	0.500	0.500	0.50				

Sequence No.: 130

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/3/2010 12:56:36

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.054	5.054	0.0539	0.2244	0.0541	12:57:27	Yes
2	5.011	5.011	0.0534	0.2248	0.0536	12:57:56	Yes
Mean:	5.032	5.032	0.0537				
SD:	0.030	0.030	0.0003				
%RSD:	0.604	0.604	0.59				

QC value within limits for Hg 253.7 Recovery = 100.65%
All analyte(s) passed QC.

Sequence No.: 131

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/3/2010 12:58:15

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.067	-0.067	0.0002	0.0007	0.0004	12:59:06	Yes
2	-0.070	-0.070	0.0001	0.0015	0.0003	12:59:36	Yes
Mean:	-0.068	-0.068	0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	3.635	3.635	16.49				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 132
Sample ID: 245557008|946824|1
Analyst: JXL

Autosampler Location: 112
Date Collected: 2/3/2010 12:59:55
Data Type: Original

Replicate Data: 245557008|946824|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	58.83	58.83	0.6179	2.7670	0.6181	13:00:47	Yes
Sample concentration is greater than that of the highest standard.							
2	58.74	58.74	0.6170	2.7623	0.6171	13:01:17	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	58.79	58.79	0.6175				
SD:	0.067	0.067	0.0007				
%RSD:	0.113	0.113	0.11				

Sample concentration is greater than that of the highest standard.

=====

Sequence No.: 133
Sample ID: 245557009|946824|1
Analyst: JXL

Autosampler Location: 113
Date Collected: 2/3/2010 13:01:38
Data Type: Original

Replicate Data: 245557009|946824|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	7.863	7.863	0.0833	0.3460	0.0835	13:02:30	Yes
2	7.759	7.759	0.0823	0.3430	0.0824	13:02:59	Yes
Mean:	7.811	7.811	0.0828				
SD:	0.073	0.073	0.0008				
%RSD:	0.939	0.939	0.93				

=====

Sequence No.: 134
Sample ID: 1202014000|941010|1
Analyst: JXL

Autosampler Location: 114
Date Collected: 2/3/2010 13:03:20
Data Type: Original

Replicate Data: 1202014000|941010|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.061	-0.061	0.0002	0.0010	0.0004	13:04:12	Yes
2	-0.060	-0.060	0.0002	0.0014	0.0004	13:04:42	Yes
Mean:	-0.061	-0.061	0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	0.938	0.938	2.53				

=====

Sequence No.: 135
Sample ID: 1202014001|941010|1
Analyst: JXL

Autosampler Location: 115
Date Collected: 2/3/2010 13:05:02
Data Type: Original

Replicate Data: 1202014001|941010|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.176	2.176	0.0237	0.0984	0.0239	13:05:54	Yes

Replicate Data: 244277045|941010|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.138	0.138	0.0023	0.0098	0.0025	13:14:26	Yes
2	0.143	0.143	0.0024	0.0093	0.0025	13:14:56	Yes
Mean:	0.140	0.140	0.0023				
SD:	0.003	0.003	0.0000				
%RSD:	2.410	2.410	1.51				

Sequence No.: 141

Sample ID: 244277046|941010|1

Analyst: JXL

Autosampler Location: 121

Date Collected: 2/3/2010 13:15:17

Data Type: Original

Replicate Data: 244277046|941010|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.135	0.135	0.0023	0.0104	0.0025	13:16:09	Yes
2	0.142	0.142	0.0024	0.0098	0.0025	13:16:39	Yes
Mean:	0.138	0.138	0.0023				
SD:	0.005	0.005	0.0000				
%RSD:	3.422	3.422	2.13				

Sequence No.: 142

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 13:16:59

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.165	5.165	0.0550	0.2273	0.0552	13:17:49	Yes
2	5.153	5.153	0.0549	0.2283	0.0551	13:18:19	Yes
Mean:	5.159	5.159	0.0550				
SD:	0.008	0.008	0.0001				
%RSD:	0.159	0.159	0.16				

QC value within limits for Hg 253.7 Recovery = 103.18%

All analyte(s) passed QC.

Sequence No.: 143

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/3/2010 13:18:38

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.068	-0.068	0.0002	0.0011	0.0003	13:19:28	Yes
2	-0.076	-0.076	0.0001	-0.0001	0.0003	13:19:58	Yes
Mean:	-0.072	-0.072	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	7.679	7.679	48.07				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 144

Sample ID: 244277047|941010|1

Analyst: JXL

Autosampler Location: 122

Date Collected: 2/3/2010 13:20:18

Data Type: Original

Replicate Data: 244277047|941010|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.145	0.145	0.0024	0.0101	0.0026	13:21:09	Yes
2	0.149	0.149	0.0024	0.0102	0.0026	13:21:39	Yes
Mean:	0.147	0.147	0.0024				
SD:	0.003	0.003	0.0000				

%RSD: 2.182 2.182 1.39

Sequence No.: 145

Sample ID: 244277048|941010|1

Analyst: JXL

Autosampler Location: 123

Date Collected: 2/3/2010 13:22:00

Data Type: Original

Replicate Data: 244277048|941010|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.142	0.142	0.0024	0.0105	0.0025	13:22:52	Yes
2	0.137	0.137	0.0023	0.0098	0.0025	13:23:22	Yes
Mean:	0.140	0.140	0.0023				
SD:	0.004	0.004	0.0000				
%RSD:	2.687	2.687	1.68				

Sequence No.: 146

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 13:23:43

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.103	5.103	0.0544	0.2278	0.0546	13:24:33	Yes
2	5.069	5.069	0.0540	0.2243	0.0542	13:25:03	Yes
Mean:	5.086	5.086	0.0542				
SD:	0.024	0.024	0.0003				
%RSD:	0.475	0.475	0.47				

QC value within limits for Hg 253.7 Recovery = 101.72%

All analyte(s) passed QC.

Sequence No.: 147

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/3/2010 13:25:22

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.073	-0.073	0.0001	0.0003	0.0003	13:26:13	Yes
2	-0.074	-0.074	0.0001	0.0003	0.0003	13:26:43	Yes
Mean:	-0.074	-0.074	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.407	0.407	3.06				

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\020310S1.SIF
Batch ID:
Results Data Set: 020310S2
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: 245113007|945588|2

Analyst: JXL

Autosampler Location: 46

Date Collected: 2/3/2010 13:29:51

Data Type: Original

Replicate Data: 245113007|945588|2

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.263	5.263	0.0561	0.2345	0.0562	13:30:42	Yes
2	5.035	5.035	0.0537	0.2229	0.0539	13:31:12	Yes
Mean:	5.149	5.149	0.0549				
SD:	0.161	0.161	0.0017				
%RSD:	3.133	3.133	3.08				

=====
Sequence No.: 2

Sample ID: 245557003|946824|10

Analyst: JXL

Autosampler Location: 107

Date Collected: 2/3/2010 13:31:32

Data Type: Original

Replicate Data: 245557003|946824|10

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.686	1.686	0.0186	0.0772	0.0187	13:32:23	Yes
2	1.770	1.770	0.0194	0.0814	0.0196	13:32:53	Yes
Mean:	1.728	1.728	0.0190				
SD:	0.059	0.059	0.0006				
%RSD:	3.420	3.420	3.26				

=====
Sequence No.: 3

Sample ID: 245557008|946824|20

Analyst: JXL

Autosampler Location: 112

Date Collected: 2/3/2010 13:33:14

Data Type: Original

Replicate Data: 245557008|946824|20

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.540	3.540	0.0380	0.1584	0.0382	13:34:06	Yes
2	3.738	3.738	0.0401	0.1669	0.0403	13:34:36	Yes
Mean:	3.639	3.639	0.0390				
SD:	0.140	0.140	0.0015				
%RSD:	3.852	3.852	3.77				

=====
Sequence No.: 4

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/3/2010 13:34:57

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	5.083	5.083	0.0542	0.2241	0.0544	13:35:47	Yes
2	5.054	5.054	0.0539	0.2231	0.0541	13:36:17	Yes
Mean:	5.069	5.069	0.0540				
SD:	0.021	0.021	0.0002				
%RSD:	0.407	0.407	0.40				

QC value within limits for Hg 253.7 Recovery = 101.37%
All analyte(s) passed QC.

Sequence No.: 5

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/3/2010 13:36:36

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.068	-0.068	0.0002	0.0010	0.0003	13:37:27	Yes
2	-0.072	-0.072	0.0001	0.0009	0.0003	13:37:57	Yes
Mean:	-0.070	-0.070	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	4.120	4.120	20.88				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Miscellaneous

Prep LogBook

Analyst: BXA1
 Batch: 944126
 Lab SOP: GL-MA-E-009 REV# 19

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202021622	U062540-MS	.503	g
MS	1202021620	U091015-A	.5	mL
MS	1202021620	U091015-B	.5	mL
MSD	1202021621	U091015-A	.5	mL
MSD	1202021621	U091015-B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202021617		SW846 3050B	27-JAN-2010 17:00	0.509 g	50 mL	98.23183	SOIL
LCS	1202021622		SW846 3050B	27-JAN-2010 17:00	0.503 g	50 mL	99.40358	SOIL
SAMPLE	245113001		SW846 3050B	27-JAN-2010 17:00	0.501 g	50 mL	99.8004	SOIL
DUP	1202021618	245113001	SW846 3050B	27-JAN-2010 17:00	0.504 g	50 mL	99.20635	SOIL
SDILT	1202021619	245113001	SW846 3050B	27-JAN-2010 17:00	0.501 g	50 mL	99.8004	SOIL
MS	1202021620	245113001	SW846 3050B	27-JAN-2010 17:00	0.51 g	50 mL	98.03922	SOIL
MSD	1202021621	245113001	SW846 3050B	27-JAN-2010 17:00	0.514 g	50 mL	97.27626	SOIL
SAMPLE	245113002		SW846 3050B	27-JAN-2010 17:00	0.524 g	50 mL	95.41985	SOIL
SAMPLE	245113003		SW846 3050B	27-JAN-2010 17:00	0.503 g	50 mL	99.40358	SOIL
SAMPLE	245113004		SW846 3050B	27-JAN-2010 17:00	0.521 g	50 mL	95.96929	SOIL
SAMPLE	245113005		SW846 3050B	27-JAN-2010 17:00	0.513 g	50 mL	97.46589	SOIL
SAMPLE	245113006		SW846 3050B	27-JAN-2010 17:00	0.515 g	50 mL	97.08738	SOIL
SAMPLE	245113007		SW846 3050B	27-JAN-2010 17:00	0.509 g	50 mL	98.23183	SOIL
SAMPLE	245113008		SW846 3050B	27-JAN-2010 17:00	0.504 g	50 mL	99.20635	SOIL
SAMPLE	245113009		SW846 3050B	27-JAN-2010 17:00	0.515 g	50 mL	97.08738	SOIL
SAMPLE	245113010		SW846 3050B	27-JAN-2010 17:00	0.507 g	50 mL	98.61933	SOIL
SAMPLE	245113011		SW846 3050B	27-JAN-2010 17:00	0.518 g	50 mL	96.5251	SOIL
SAMPLE	245113012		SW846 3050B	27-JAN-2010 17:00	0.505 g	50 mL	99.0099	SOIL
SAMPLE	245113013		SW846 3050B	27-JAN-2010 17:00	0.511 g	50 mL	97.84736	SOIL
SAMPLE	245113014		SW846 3050B	27-JAN-2010 17:00	0.517 g	50 mL	96.7118	SOIL

Comments: sample#245113001 is a dark soil with artifacts.

Reagent/Solvent Lot ID	Amount	Description
1203655-02	1.5 mL	Hydrogen Peroxide 30%
1234886	5 mL	Nitric Acid CONC.

Prep LogBook

Analyst: AXG2
 Batch: 944123
 Lab SOP: GL-MA-E-009 REV# 19

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202021606	U1062540-1	.507	g
MS	1202021604	U1091216-01	.25	mL
MS	1202021604	U1091216-06	.25	mL
MSD	1202021605	U1091216-01	.25	mL
MSD	1202021605	U1091216-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202021601		SW846 3050B	27-JAN-2010 08:30	0.505 g	50 mL	99.0099	SOIL
LCS	1202021606		SW846 3050B	27-JAN-2010 08:30	0.507 g	50 mL	98.61933	SOIL
SAMPLE	245113001		SW846 3050B	27-JAN-2010 08:30	0.5 g	50 mL	100	SOIL
DUP	1202021602	245113001	SW846 3050B	27-JAN-2010 08:30	0.509 g	50 mL	98.23183	SOIL
SDILT	1202021603	245113001	SW846 3050B	27-JAN-2010 08:30	0.5 g	50 mL	100	SOIL
MS	1202021604	245113001	SW846 3050B	27-JAN-2010 08:30	0.513 g	50 mL	97.46589	SOIL
MSD	1202021605	245113001	SW846 3050B	27-JAN-2010 08:30	0.516 g	50 mL	96.89922	SOIL
SAMPLE	245113002		SW846 3050B	27-JAN-2010 08:30	0.508 g	50 mL	98.4252	SOIL
SAMPLE	245113003		SW846 3050B	27-JAN-2010 08:30	0.507 g	50 mL	98.61933	SOIL
SAMPLE	245113004		SW846 3050B	27-JAN-2010 08:30	0.51 g	50 mL	98.03922	SOIL
SAMPLE	245113005		SW846 3050B	27-JAN-2010 08:30	0.5 g	50 mL	100	SOIL
SAMPLE	245113006		SW846 3050B	27-JAN-2010 08:30	0.523 g	50 mL	95.60229	SOIL
SAMPLE	245113007		SW846 3050B	27-JAN-2010 08:30	0.517 g	50 mL	96.7118	SOIL
SAMPLE	245113008		SW846 3050B	27-JAN-2010 08:30	0.5 g	50 mL	100	SOIL
SAMPLE	245113009		SW846 3050B	27-JAN-2010 08:30	0.504 g	50 mL	99.20635	SOIL
SAMPLE	245113010		SW846 3050B	27-JAN-2010 08:30	0.516 g	50 mL	96.89922	SOIL
SAMPLE	245113011		SW846 3050B	27-JAN-2010 08:30	0.525 g	50 mL	95.2381	SOIL
SAMPLE	245113012		SW846 3050B	27-JAN-2010 08:30	0.506 g	50 mL	98.81423	SOIL
SAMPLE	245113013		SW846 3050B	27-JAN-2010 08:30	0.517 g	50 mL	96.7118	SOIL
SAMPLE	245113014		SW846 3050B	27-JAN-2010 08:30	0.532 g	50 mL	93.98496	SOIL

Comments: Sample 245113001 consist of dark, soil with artifacts.

Reagent/Solvent Lot ID	Amount	Description
1252838	10 mL	HYDROCHLORIC ACID
1234886	1.25 mL	Nitric Acid CONC.

Prep LogBook

Analyst: AXG2
 Batch: 952969
 Lab SOP: GL-MA-E-009 REV# 19

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202042628	U062540-MS	.534	g
MS	1202042626	U091015-A	.5	mL
MS	1202042626	U091015-B	.5	mL
MSD	1202042627	U091015-A	.5	mL
MSD	1202042627	U091015-B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202042623		SW846 3050B	15-FEB-2010 07:30	0.516 g	50 mL	96.89922	SOIL
LCS	1202042628		SW846 3050B	15-FEB-2010 07:30	0.534 g	50 mL	93.63296	SOIL
SAMPLE	245113001		SW846 3050B	15-FEB-2010 07:30	0.523 g	50 mL	95.60229	SOIL
DUP	1202042624	245113001	SW846 3050B	15-FEB-2010 07:30	0.536 g	50 mL	93.28358	SOIL
SDILT	1202042625	245113001	SW846 3050B	15-FEB-2010 07:30	0.523 g	50 mL	95.60229	SOIL
MS	1202042626	245113001	SW846 3050B	15-FEB-2010 07:30	0.547 g	50 mL	91.40768	SOIL
MSD	1202042627	245113001	SW846 3050B	15-FEB-2010 07:30	0.535 g	50 mL	93.45794	SOIL
SAMPLE	245113002		SW846 3050B	15-FEB-2010 07:30	0.527 g	50 mL	94.87666	SOIL
SAMPLE	245113003		SW846 3050B	15-FEB-2010 07:30	0.574 g	50 mL	87.10801	SOIL
SAMPLE	245113004		SW846 3050B	15-FEB-2010 07:30	0.538 g	50 mL	92.9368	SOIL
SAMPLE	245113005		SW846 3050B	15-FEB-2010 07:30	0.5 g	50 mL	100	SOIL
SAMPLE	245113006		SW846 3050B	15-FEB-2010 07:30	0.557 g	50 mL	89.76661	SOIL
SAMPLE	245113007		SW846 3050B	15-FEB-2010 07:30	0.553 g	50 mL	90.41591	SOIL
SAMPLE	245113008		SW846 3050B	15-FEB-2010 07:30	0.515 g	50 mL	97.08738	SOIL
SAMPLE	245113009		SW846 3050B	15-FEB-2010 07:30	0.507 g	50 mL	98.61933	SOIL
SAMPLE	245113010		SW846 3050B	15-FEB-2010 07:30	0.579 g	50 mL	86.35579	SOIL
SAMPLE	245113011		SW846 3050B	15-FEB-2010 07:30	0.547 g	50 mL	91.40768	SOIL
SAMPLE	245113012		SW846 3050B	15-FEB-2010 07:30	0.512 g	50 mL	97.65625	SOIL
SAMPLE	245113013		SW846 3050B	15-FEB-2010 07:30	0.546 g	50 mL	91.57509	SOIL
SAMPLE	245113014		SW846 3050B	15-FEB-2010 07:30	0.5 g	50 mL	100	SOIL

Reagent/Solvent Lot ID: 1250038-02
 Amount: 1.5 mL
 Description: Hydrogen Peroxide 30%
 1268732
 Amount: 5 mL
 Description: Nitric Acid CONC.

Comments: Sample 245113001 consist of black, soil with rocks and other artifacts.

Prep LogBook

Analyst: TXB3
 Batch: 945586
 Lab SOP: GL-MA-E-010 REV# 23

Verified by:

Type Sample Id Lot Id Spike Amount Spike Units
 LCS 1202025225 U031809A .2 g
 MS 1202025227 WHG100202-14 .3 mL
 MSD 1202025229 WHG100202-14 .3 mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202025224		SW846 7471A Prep	02-FEB-2010 14:00	0.518 g	30 mL	57.91506	SOIL
LCS	1202025225		SW846 7471A Prep	02-FEB-2010 14:00	0.2 g	30 mL	150	SOIL
SAMPLE	245113001		SW846 7471A Prep	02-FEB-2010 14:00	0.542 g	30 mL	55.35055	SOIL
SAMPLE	245113002		SW846 7471A Prep	02-FEB-2010 14:00	0.5 g	30 mL	60	SOIL
SAMPLE	245113003		SW846 7471A Prep	02-FEB-2010 14:00	0.529 g	30 mL	56.71078	SOIL
SAMPLE	245113004		SW846 7471A Prep	02-FEB-2010 14:00	0.527 g	30 mL	56.926	SOIL
SAMPLE	245113005		SW846 7471A Prep	02-FEB-2010 14:00	0.589 g	30 mL	50.93379	SOIL
SAMPLE	245113006		SW846 7471A Prep	02-FEB-2010 14:00	0.548 g	30 mL	54.74453	SOIL
SAMPLE	245113007		SW846 7471A Prep	02-FEB-2010 14:00	0.504 g	30 mL	59.52381	SOIL
SAMPLE	245113008		SW846 7471A Prep	02-FEB-2010 14:00	0.513 g	30 mL	58.47953	SOIL
SAMPLE	245113009		SW846 7471A Prep	02-FEB-2010 14:00	0.507 g	30 mL	59.1716	SOIL
SAMPLE	245113010		SW846 7471A Prep	02-FEB-2010 14:00	0.552 g	30 mL	54.34783	SOIL
SAMPLE	245113011		SW846 7471A Prep	02-FEB-2010 14:00	0.564 g	30 mL	53.19149	SOIL
SAMPLE	245113012		SW846 7471A Prep	02-FEB-2010 14:00	0.5 g	30 mL	60	SOIL
SAMPLE	245113013		SW846 7471A Prep	02-FEB-2010 14:00	0.517 g	30 mL	58.02708	SOIL
SAMPLE	245113014		SW846 7471A Prep	02-FEB-2010 14:00	0.509 g	30 mL	58.9391	SOIL
SAMPLE	245371001		SW846 7471A Prep	02-FEB-2010 14:00	0.522 g	30 mL	57.47126	SOIL
SAMPLE	245371002		SW846 7471A Prep	02-FEB-2010 14:00	0.56 g	30 mL	53.57143	SOIL
SAMPLE	245372002		SW846 7471A Prep	02-FEB-2010 14:00	0.516 g	30 mL	58.13953	SOIL
DUP	1202025226	245372002	SW846 7471A Prep	02-FEB-2010 14:00	0.541 g	30 mL	55.45287	SOIL
MS	1202025227	245372002	SW846 7471A Prep	02-FEB-2010 14:00	0.521 g	30 mL	57.58157	SOIL
MSD	1202025229	245372002	SW846 7471A Prep	02-FEB-2010 14:00	0.524 g	30 mL	57.25191	SOIL
SDILT	1202025228	245372002	SW846 7471A Prep	02-FEB-2010 14:00	0.516 g	30 mL	58.13953	SOIL
SAMPLE	245372003		SW846 7471A Prep	02-FEB-2010 14:00	0.508 g	30 mL	59.05512	SOIL
SAMPLE	245372004		SW846 7471A Prep	02-FEB-2010 14:00	0.52 g	30 mL	57.69231	SOIL

Reagent/Solvent Lot ID Amount Description
 1236355-A 1.125 mL Hydrochloric Acid Conc.
 1257474-1 .375 mL NITRIC ACID
 1255535-C 7.5 mL 5% KMnO4 solution
 1255532-C 2 mL Hg reducing agent

Comments: Sample 245372002 is a brown dry soil.
 Digestion Start Date: 02-FEB-10 14:00
 Digestion End Date: 02-FEB-10 14:30

Prep Data Logbook Version 1:1

GEL Laboratories LLC

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Prep LogBook

WHG100202-07	30 uL	Mercury Working Standard 1st Source CAL S 0.2/CRA
WHG100202-08	75 uL	Mercury Working Standard 1st Source CAL S 0.5
WHG100202-11	1.5 mL	Mercury Working 1st Source CAL S 10.0
WHG100202-09	300 uL	Mercury Working 1st Source CAL S 2.0
WHG100202-10	750 uL	Mercury Working 1st Source CAL S 5.0/CCV
WHG100202-12	750 uL	Mercury Working 2nd Source S 5.0/ICV

DATA EXCEPTION REPORT

Mo. Day Yr. 11-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 944124	Sample Numbers: See Below		
<p>Potentially affected work order(s)(SDG): 245113(10-1325-1)</p> <p>Application Issues:</p> <p>Failed Recovery for MS/PS</p> <p>Method Blank contamination</p> <p>Failed RPD for DUP</p> <p>Failed Recovery for MSD/PSD</p>			
Specification and Requirements Exception Description:		DER Disposition:	
<p>1. Failed Recovery for MS/PS:</p> <p>QC 1202021604MS</p> <p>2. Failed RPD for DUP:</p> <p>QC 1202021602DUP</p> <p>3. Failed Recovery for MSD/PSD:</p> <p>QC 1202021605MSD</p> <p>4. Method Blank Contamination:</p> <p>QC 1202021601MB</p>		<p>1./3. The matrix spike and matrix spike duplicate 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.</p> <p>2. The sample and sample duplicate % RPD failed outside the control limits for barium due to possible sample non-homogeneity and/or matrix interference. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.</p> <p>4. The method blank was high for iron and manganese but all samples were 10x greater than RDL/PQL therefore the data was not adversely affected.</p>	

Originator's Name:
Helen Camello 15-FEB-10

Data Validator/Group Leader:
Eric Lawson 15-FEB-10

DATA EXCEPTION REPORT

Mo. Day Yr. 14-FEB-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: 944127	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 245113(10-1325-1) Application Issues: Failed Recovery for MS/PS Failed RPD for DUP			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/PS: QC 1202021620MS 2. Failed RPD for DUP: QC 1202021618DUP		The sample and sample duplicate % RPD failed outside the control limits for U due to possible sample non-homogeneity and/or matrix interference. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported. The matrix spike recovery failed outside of the control limits for U 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:

Elizabeth Janssen 16-FEB-10

Data Validator/Group Leader:

Samantha Jacobs 16-FEB-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: 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: UI090610-03 **Opened:** 10-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 10-JUN-09 **Lot Number :** 1016338
Type: Source Material **Expires:** 10-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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090828-42 **Opened:** 16-SEP-09 **Amount :** 500 mL
Name: TRACE ICP Na-1000SOUR **Received:** 27-AUG-09 **Catalog Number :** 060011-02-03
Type: Source Material **Expires:** 16-SEP-10 **Lot Number :** 1017098
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: 02SI
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: 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: UI091015-A **Opened:** 15-OCT-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 15-OCT-09 **Lot Number :** 1017142
Type: Source Material **Expires:** 15-OCT-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: UI091015-B **Opened:** 15-OCT-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 15-OCT-09 **Lot Number :** 1017142
Type: Source Material **Expires:** 15-OCT-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: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI091212-60 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
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: UI091212-61 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B
Comments: None

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 mg/L

Serial ID: UI091216-01 **Opened:** 16-DEC-09 **Lot Number :** 1018095
Name: METALSPIKE-1 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
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: UI091216-06 **Opened:** 16-DEC-09 **Lot Number :** 1018096
Name: METALSPIKE-2 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
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
Vanadium	100 ug/mL	Zinc	100 ug/mL

Standard Logbook

Serial ID: UI091217-06 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-DEC-09 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018209
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI091217-07 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-DEC-09 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018210
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Zirconium	20 mg/L		

Serial ID: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 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: UI091217-13 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 17-DEC-09 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1016926
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 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: UI100114-48 **Opened:** 22-JAN-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 18-JAN-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 22-JAN-11 **Lot Number :** 1018466
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI100126-11 **Opened:** 26-JAN-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 26-JAN-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 26-JAN-11 **Lot Number :** 1018321
Employee: Elizabeth Janssen **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: UI100128-40 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Standard Logbook

Serial ID: UI100128-41 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
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: UMS090303-01 **Opened:** 03-MAR-09 **Amount :** 250 mL
Name: ICPMSCaSPIKEB **Received:** 03-MAR-09 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 14-81JB
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: UMS090303-02 **Opened:** 03-MAR-09 **Catalog Number :** ZGEL-102-250
Name: ICPMSCaSPIKEA **Received:** 03-MAR-09 **Lot Number :** 14-83JB
Type: Source Material **Expires:** 28-FEB-10
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		

Standard Logbook

Serial ID: UMS090303-03 **Opened:** 03-MAR-09 **Amount :** 250 ml
Name: ICPMSCalSPIKEC **Received:** 03-MAR-09 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 15-199JB
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: IHG100202-01 **Opened:** 02-FEB-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 02-FEB-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 03-FEB-10 **Solvent :** 1mL HNO3 + Type1 H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100202-02 **Opened:** 02-FEB-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 02-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Intermediate **Expires:** 03-FEB-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: WHG100202-07 **Opened:** 02-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALSO.2CRA **Received:** 02-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 09-FEB-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.
IHG100202-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Standard Logbook

Serial ID: WHG100202-08 **Opened:** 02-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.5 **Received:** 02-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 09-FEB-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.
IHG100202-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100202-09 **Opened:** 02-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS2.0 **Received:** 02-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 09-FEB-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.
IHG100202-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100202-10 **Opened:** 02-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 02-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 09-FEB-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.
IHG100202-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100202-11 **Opened:** 02-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 02-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 09-FEB-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.
IHG100202-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Standard Logbook

Serial ID: WHG100202-12 **Opened:** 02-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 02-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 09-FEB-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.
IHG100202-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100202-14 **Opened:** 02-FEB-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 02-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 09-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury soil working intermediate standard for MS
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WI100203-42 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1263028
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.
WI100203-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100203-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100203-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100203-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100203-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100203-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100203-43 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1263028
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.
UI090828-42	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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100203-44 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL and 1 %HNO3-1263028
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: WI100203-45 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1263028
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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
UI090828-42	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L

Serial ID: WI100203-46 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expres:** 04-FEB-10 **Solvent :** 3%HCL AND 1%HNO3-1263028
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI091102-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI091102-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100203-47 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL & 1%HNO3-1263028
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI090701-40	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID: WMS100211-04 **Opened:** 11-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 11-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 12-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1266278
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100211-04A **Opened:** 11-FEB-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 11-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 12-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100211-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100211-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100211-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100211-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100211-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100211-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100211-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100211-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100211-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100211-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100211-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100211-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100211-05 **Opened:** 11-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 11-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 12-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100211-06 **Opened:** 11-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 11-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 12-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100211-07 **Opened:** 11-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 11-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 12-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1266278
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100211-08 **Opened:** 11-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 11-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 12-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100211-70 **Opened:** 11-FEB-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 11-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 12-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: Q2SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091212-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI091212-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100213-04 **Opened:** 13-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 13-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 14-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1266278
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100213-04A **Opened:** 13-FEB-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 13-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 14-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100213-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100213-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
WMS100213-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100213-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100213-05 **Opened:** 13-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 13-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 14-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100213-06 **Opened:** 13-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 13-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 14-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
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

Serial ID: WMS100213-07 **Opened:** 13-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 13-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 14-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1266278
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100213-08 **Opened:** 13-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 13-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 14-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100215-04 **Opened:** 15-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 15-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 16-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1269792
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Serial ID: WMS100215-04A **Opened:** 15-FEB-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 15-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 16-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100215-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100215-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100215-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Serial ID: WMS100215-05 **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 15-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 16-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Serial ID: WMS100215-06 **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 15-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 16-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
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: WMS100215-07 **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 15-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 16-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1269792
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100215-08 **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 15-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 16-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100215-70 **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 15-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 16-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
Employee: Paul Boyd
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI091212-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: 100202 **Opened:** 02-FEB-10 **Lot Number :** 200930201
Name: I-HCL **Received:** 02-FEB-10
Type: Reagent/Solvent **Expires:** 02-FEB-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1100721TCLP **Opened:** 16-APR-09 **Lot Number :** H02026 L
Name: I-HNO3 **Received:** 02-APR-09
Type: Reagent/Solvent **Expires:** 02-APR-10
Employee: Clifford Postell
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-07
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Standard Logbook

Serial ID: 1203655-02 Opened: 15-OCT-09 Lot Number : ZU74081198 mL
Name: B-H2O2 Received: 15-OCT-09
Type: Reagent/Solvent Expires: 15-OCT-10
Employee: Francena Armstrong
Supplier: EM SCIENCE
Description: Hydrogen Peroxide 30%
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: 1234886 Opened: 27-NOV-09 Lot Number : H20053 L
Name: I-HNO3 Received: 27-NOV-09
Type: Reagent/Solvent Expires: 27-NOV-10
Employee: Bryan Davis
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1236355-A Opened: 01-DEC-09 Lot Number : 200930201
Name: B-HCl-MER Received: 01-DEC-09
Type: Reagent/Solvent Expires: 01-DEC-10
Employee: Tara Griffin
Supplier: Aristar
Description: Hydrochloric Acid Conc.
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: 1252836 **Opened:** 08-JAN-10 **Lot Number :** H20053 L
Name: I-HNO3 **Received:** 08-JAN-10
Type: Reagent/Solvent **Expires:** 08-JAN-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1252838 **Opened:** 08-JAN-10 **Lot Number :** H41032
Name: I-HCL **Received:** 08-JAN-10 **Preservative Id :** 5 none
Type: Reagent/Solvent **Expires:** 08-JAN-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 125532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 125535-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-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: 1257474-1 **Opened:** 20-JAN-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 20-JAN-10 **Lot Number :** H20053
Type: Reagent/Solvent **Expires:** 20-JAN-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID

Standard Logbook

Comments: None

Serial ID: 1263028 Opened: 01-FEB-10 Amount : 20 L
 Name: B-ICP-RINSE SOLN Received: 15-JAN-10 Lot Number : H04040+G34050
 Type: Reagent/Solvent Expires: 07-FEB-10 Solvent : 3%HCL+1%HNO3
 Employee: Helen Camello
 Supplier: GEL
 Description: 3%HCL+1%HNO3 RINSE SOLN.
 Comments: None

Serial ID: 1266278 Opened: 08-FEB-10 Solvent : Type I Water
 Name: B-2%HNO3/1%HCL-ICPMS Received: 08-FEB-10
 Type: Reagent/Solvent Expires: 15-FEB-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.
1252836	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1252838	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1268732 Opened: 11-FEB-10 Lot Number : H12022 L
 Name: I-HNO3 Received: 11-FEB-10
 Type: Reagent/Solvent Expires: 11-FEB-11
 Employee: Bryan Davis
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1269792 Opened: 15-FEB-10 Solvent : Type I Water
 Name: B-2%HNO3/1%HCL-ICPMS Received: 15-FEB-10
 Type: Reagent/Solvent Expires: 22-FEB-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.
100202	I-HCL	36.5-38.0	90 mL	9 l	N/A
1100721TCLP	I-HNO3	69.0-70.0	180 mL	9 l	N/A

General Chemistry

Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1325**

Method/Analysis Information

Product: Cyanide, Total

Analytical Batch: 944394 **Method:** SW9012A Cyanide and Total

Prep Batch : 944393 **Method:** SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
245112001	RE15-10-8442
1202022256	Method Blank (MB)
1202022257	245137001(RE15-10-7228) Sample Duplicate (DUP)
1202022259	245137001(RE15-10-7228) Matrix Spike (MS)
1202022261	245137001(RE15-10-7228) Matrix Spike Duplicate (MSD)
1202022263	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 sample was selected for QC analysis: 245137001 (RE15-10-7228).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recovery for this sample set was within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovery for this sample set was within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample 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 samples were re-analyzed due to CCB failure: 1202022256 (MB) and 1202022263 (LCS).

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: 943485

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
245112001	RE15-10-8442
1202020124	Method Blank (MB)
1202020125	245256001(50FWC-10-9940) Sample Duplicate (DUP)
1202020126	245256001(50FWC-10-9940) Post Spike (PS)
1202020127	Laboratory Control Sample (LCS)
1202022183	245110001(RE16-10-1016) Sample Duplicate (DUP)
1202022185	245110001(RE16-10-1016) 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: 245110001 (RE16-10-1016) and 245256001 (50FWC-10-9940).

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 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 samples in this sample group were diluted due to high concentration: 1202020125 (50FWC-10-9940) and 1202020126 (50FWC-10-9940). The following samples in this sample group were diluted due to matrix interference: 1202022183 (RE16-10-1016), 1202022185 (RE16-10-1016) and 245112001 (RE15-10-8442).

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.

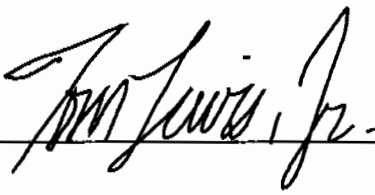
Certification Statement

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:  Date: 10Feb10

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: 10-1325 GEL Work Order: 245112

The Qualifiers in this report are defined as follows:

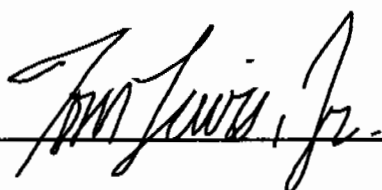
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

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

A handwritten signature in black ink, appearing to read "Tom Lewis, Jr.", is written over a horizontal line.

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: February 8, 2010

Client SDG: 10-1325

Client Sample ID: RE15-10-8442
Sample ID: 245112001
Matrix: W
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-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	01/26/10	1028	944394	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	01/26/10	1129	943485	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1441	944393

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	
2	EPA 353.2	

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 8, 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: 245112

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	944394										
QC1202022257	245137001	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A		AXC2	01/26/10	10:33
QC1202022263	LCS										
Cyanide, Total	50.0				49.7	ug/L	99.4	(90%-110%)		01/26/10	10:17
QC1202022256	MB										
Cyanide, Total			U		5.00	ug/L				01/26/10	10:11
QC1202022259	245137001	MS									
Cyanide, Total	100	U	ND		105	ug/L	105	(60%-127%)		01/26/10	10:34
QC1202022261	245137001	MSD									
Cyanide, Total	100	U	ND		102	ug/L	2.90	102	(0%-20%)	01/26/10	10:34
Nutrient Analysis											
Batch	943485										
QC1202020125	245256001	DUP									
Nitrogen, Nitrate/Nitrite			2.22		2.17	mg/L	2.28 ^	(+/-0.500)	AXH3	01/26/10	11:16
QC1202022183	245110001	DUP									
Nitrogen, Nitrate/Nitrite		U	ND	U	ND	mg/L	N/A			01/26/10	11:12
QC1202020127	LCS										
Nitrogen, Nitrate/Nitrite	1.00				0.945	mg/L	94.5	(90%-110%)		01/26/10	10:56
QC1202020124	MB										
Nitrogen, Nitrate/Nitrite			U		0.050	mg/L				01/26/10	10:54
QC1202020126	245256001	PS									
Nitrogen, Nitrate/Nitrite	1.00		0.222		1.18	mg/L	95.8	(90%-110%)		01/26/10	11:17
QC1202022185	245110001	PS									
Nitrogen, Nitrate/Nitrite	1.00	U	ND		0.985	mg/L	97.7	(90%-110%)		01/26/10	11:14

Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

A The TIC is a suspected aldol-condensation product

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

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

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

F Estimated Value

GEL LABORATORIES LLC

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

QC Summary

Workorder: 245112

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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: 08-FEB-2010 17:43

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1325

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	26-JAN-2010 09:01:56	OM_1-26-2010_08-51-25	147	150	98	(90%-110%)	Yes
CCV	26-JAN-2010 10:00:18	OM_1-26-2010_09-58-45	102	100	102	(90%-110%)	Yes
CCV	26-JAN-2010 10:12:41	OM_1-26-2010_09-58-45	101	100	101	(90%-110%)	Yes
CCV	26-JAN-2010 10:25:10	OM_1-26-2010_09-58-45	102	100	102	(90%-110%)	Yes
CCV	26-JAN-2010 10:37:37	OM_1-26-2010_09-58-45	101	100	101	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	26-JAN-2010 09:03:46	OM_1-26-2010_08-51-25	-1.27	5	Yes
CCB	26-JAN-2010 10:02:07	OM_1-26-2010_09-58-45	2.83	5	Yes
CCB	26-JAN-2010 10:14:31	OM_1-26-2010_09-58-45	-1.42	5	Yes
CCB	26-JAN-2010 10:27:00	OM_1-26-2010_09-58-45	-1.45	5	Yes
CCB	26-JAN-2010 10:39:27	OM_1-26-2010_09-58-45	-1.77	5	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 08-FEB-2010 17:43

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1325

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	26-JAN-2010 10:45:33	OM_1-26-2010_10-36-04	0.937	1	94	(90%-110%)	Yes
CCV	26-JAN-2010 11:07:02	OM_1-26-2010_10-36-04	1	1	100	(90%-110%)	Yes
CCV	26-JAN-2010 11:23:49	OM_1-26-2010_10-36-04	0.986	1	99	(90%-110%)	Yes
CCV	26-JAN-2010 11:40:31	OM_1-26-2010_10-36-04	0.939	1	94	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	26-JAN-2010 10:47:55	OM_1-26-2010_10-36-04	-0.00048	0.05	Yes
CCB	26-JAN-2010 11:09:24	OM_1-26-2010_10-36-04	-0.00099	0.05	Yes
CCB	26-JAN-2010 11:26:11	OM_1-26-2010_10-36-04	-0.00176	0.05	Yes
CCB	26-JAN-2010 11:42:54	OM_1-26-2010_10-36-04	-0.00021	0.05	Yes

Cyanide, Total

Prep LogBook

Analyst: AXS5
 Batch: 944393
 Lab SOP: GL-GC-E-067 REV# 13

Verified by: _____

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202022256		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.0125	mL
LCS	1202022263		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	244447003		EPA 335.3	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
DUP	1202024087	244447003	EPA 335.3	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
MS	1202024088	244447003	EPA 335.3	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
MSD	1202024089	244447003	EPA 335.3	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245089001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245089002		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245089003		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245089004		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245112001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245120001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245135001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245135002		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245137001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
DUP	1202022257	245137001	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
MS	1202022259	245137001	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
MSD	1202022261	245137001	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245137002		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245137003		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245142005		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245175001		EPA 335.4	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245175002		EPA 335.4	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245175003		EPA 335.4	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245185003		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
DUP	1202022258	245185003	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL

Prep Data Logbook Version 1:1

GEL Laboratories LLC

Page#

Prep LogBook

Analyst: AXS5
Batch: 944393
Lab SOP: GL-GC-E-067 REV# 13

Verified by: _____

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MS	1202022260	245185003	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.0125	mL
MSD	1202022262	245185003	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245185014		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245270001		EPA 335.4	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL

Reagent/Solvent Lot ID	Amount	Description
091211-C	25 mL	0.25N Sodium Hydroxide Solution
WCN100125-07	.0375 mL	150 ppb CN Distilled ICV Standard
1176724-C	1.25 mL	0.8N H3NO3S
1238146-C	2.5 mL	50% H2SO4 CN Prep
1176778-C	1 mL	51% MgCl2 Soln
1238142-C	1.25 mL	Bismuth Nitrate Solution

Comments: Samples 245185003, 1202022258, 1202022260, 1202022262, and 245185014 were received with improper preservation. These samples were preserved with 50% NAOH which has an expiration date of 6/23/10 and a reference number that is 1246596-C.

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	1/26/2010 8:54:47	OM_1-26-2010_08-51-25
150 ppb		1	axc2	1/26/2010 8:55:39	OM_1-26-2010_08-51-25
100 ppb		1	axc2	1/26/2010 8:56:31	OM_1-26-2010_08-51-25
50 ppb		1	axc2	1/26/2010 8:57:24	OM_1-26-2010_08-51-25
10 ppb		1	axc2	1/26/2010 8:58:18	OM_1-26-2010_08-51-25
CRDL 5.0 ppb		1	axc2	1/26/2010 8:59:11	OM_1-26-2010_08-51-25
ICAL-00		1	axc2	1/26/2010 9:00:05	OM_1-26-2010_08-51-25
ICV		1	axc2	1/26/2010 9:01:56	OM_1-26-2010_08-51-25
ICB		1	axc2	1/26/2010 9:03:46	OM_1-26-2010_08-51-25
CRDL		1	axc2	1/26/2010 9:05:36	OM_1-26-2010_08-51-25
1202022282	944401	1	axc2	1/26/2010 9:07:26	OM_1-26-2010_08-51-25
1202022289	944401	25	axc2	1/26/2010 9:08:19	OM_1-26-2010_08-51-25
245113001	944401	1	axc2	1/26/2010 9:09:13	OM_1-26-2010_08-51-25
245113002	944401	1	axc2	1/26/2010 9:10:06	OM_1-26-2010_08-51-25
245113003	944401	1	axc2	1/26/2010 9:10:59	OM_1-26-2010_08-51-25
245113004	944401	1	axc2	1/26/2010 9:11:51	OM_1-26-2010_08-51-25
245113005	944401	1	axc2	1/26/2010 9:12:44	OM_1-26-2010_08-51-25
245113006	944401	1	axc2	1/26/2010 9:13:37	OM_1-26-2010_08-51-25
245113007	944401	1	axc2	1/26/2010 9:14:29	OM_1-26-2010_08-51-25
245113009	944401	1	axc2	1/26/2010 9:15:22	OM_1-26-2010_08-51-25
CCV		1	axc2	1/26/2010 9:16:14	OM_1-26-2010_08-51-25
CCB		1	axc2	1/26/2010 9:18:04	OM_1-26-2010_08-51-25
245113010	944401	1	axc2	1/26/2010 9:19:52	OM_1-26-2010_08-51-25
245147008	944401	1	axc2	1/26/2010 9:20:45	OM_1-26-2010_08-51-25
1202022283	944401	1	axc2	1/26/2010 9:21:36	OM_1-26-2010_08-51-25
1202022285	944401	1	axc2	1/26/2010 9:22:28	OM_1-26-2010_08-51-25
1202022287	944401	1	axc2	1/26/2010 9:23:20	OM_1-26-2010_08-51-25
245147009	944401	1	axc2	1/26/2010 9:24:13	OM_1-26-2010_08-51-25
1202022284	944401	1	axc2	1/26/2010 9:25:07	OM_1-26-2010_08-51-25
1202022286	944401	1	axc2	1/26/2010 9:26:00	OM_1-26-2010_08-51-25
1202022288	944401	1	axc2	1/26/2010 9:26:53	OM_1-26-2010_08-51-25
245147010	944401	1	axc2	1/26/2010 9:27:47	OM_1-26-2010_08-51-25
CCV		1	axc2	1/26/2010 9:28:40	OM_1-26-2010_08-51-25
CCB		1	axc2	1/26/2010 9:30:29	OM_1-26-2010_08-51-25
245147011*	944401	1	axc2	1/26/2010 9:32:18	OM_1-26-2010_08-51-25
245147012*	944401	1	axc2	1/26/2010 9:33:11	OM_1-26-2010_08-51-25
245147013*	944401	1	axc2	1/26/2010 9:34:04	OM_1-26-2010_08-51-25
245147014*	944401	1	axc2	1/26/2010 9:34:56	OM_1-26-2010_08-51-25
245147015*	944401	1	axc2	1/26/2010 9:35:49	OM_1-26-2010_08-51-25
245147016*	944401	1	axc2	1/26/2010 9:36:41	OM_1-26-2010_08-51-25
245147017*	944401	1	axc2	1/26/2010 9:37:33	OM_1-26-2010_08-51-25
245147018*	944401	1	axc2	1/26/2010 9:38:26	OM_1-26-2010_08-51-25
1202022256*	944394	1	axc2	1/26/2010 9:39:18	OM_1-26-2010_08-51-25
1202022263*	944394	1	axc2	1/26/2010 9:40:09	OM_1-26-2010_08-51-25
CCV		1	axc2	1/26/2010 9:41:02	OM_1-26-2010_08-51-25
CCB		1	axc2	1/26/2010 9:42:53	OM_1-26-2010_08-51-25

Original Run Filename: OM_1-26-2010_08-51-25.OMN created 1/26/2010 08:51:25
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-26-2010_08-51-25.OMN last modified 1/26/2010 09:43:57
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN100126-01	1	S1	200	8.68	1/26/2010@08:54:47			200 ppb
WCN100126-02	1	S2	150	6.65	1/26/2010@08:55:39			150 ppb
WCN100126-03	1	S3	100	4.23	1/26/2010@08:56:31			100 ppb
WCN100126-04	1	S4	50.0	2.33	1/26/2010@08:57:24			50 ppb
WCN100126-05	1	S5	10.0	0.535	1/26/2010@08:58:18			10 ppb
WCN100126-06	1	S6	5.00	0.332	1/26/2010@08:59:11			CRDL 5.0 ppb
WCN100126-08	1	S7	0.00	0.0443	1/26/2010@09:00:05			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99965 > 0.99500					
Message			Pass					
Action			Continue					
WCN100126-07	1	S8	147	6.42	1/26/2010@09:01:56			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-1.9 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-1.9 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100126-08	1	S7	-1.27	0.0330	1/26/2010@09:03:46			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.27 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.27 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100126-06	1	S6	5.62	0.330	1/26/2010@09:05:36			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.62 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.62 > 2.50					
Message			Pass					
Action			None					
1202022282|944401|MB	1	1	-1.64	0.0171	1/26/2010@09:07:26			
1202022289|LCS	1	2	24.2	1.13	1/26/2010@09:08:19		25.00	
245113001	1	3	12.9	0.642	1/26/2010@09:09:13			
245113002	1	4	0.109	0.0924	1/26/2010@09:10:06			
245113003	1	5	-0.503	0.0660	1/26/2010@09:10:59			
245113004	1	6	-0.778	0.0541	1/26/2010@09:11:51			
245113005	1	7	0.853	0.124	1/26/2010@09:12:44			
245113006	1	8	-0.727	0.0563	1/26/2010@09:13:37			
245113007	1	9	0.715	0.118	1/26/2010@09:14:29			
245113009	1	10	0.323	0.102	1/26/2010@09:15:22			
WCN100126-03	1	S3	101	4.46	1/26/2010@09:16:14			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.5 < 10.0					
Message			CCV Passed					

Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			1.5 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100126-08	1	S7	-1.21	0.0353	1/26/2010@09:18:04			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.21 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.21 > -5.00					
Message			CCB Passed					
Action			Continue					
245113010	1	11	0.237	0.0979	1/26/2010@09:19:52			
245147008	1	12	2.01	0.174	1/26/2010@09:20:45			
1202022283|DUP	1	13	0.898	0.126	1/26/2010@09:21:36			
1202022285|MS	1	14	99.9	4.39	1/26/2010@09:22:28			
1202022287|MSD	1	15	99.4	4.37	1/26/2010@09:23:20			
245147009	1	16	1.79	0.165	1/26/2010@09:24:13			
1202022284|DUP	1	17	0.819	0.123	1/26/2010@09:25:07			
1202022286|MS	1	18	97.2	4.28	1/26/2010@09:26:00			
1202022288|MSD	1	19	98.9	4.35	1/26/2010@09:26:53			
245147010	1	20	-0.567	0.0633	1/26/2010@09:27:47			
WCN100126-03	1	S3	103	4.50	1/26/2010@09:28:40			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			2.5 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			2.5 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100126-08	1	S7	-1.63	0.0175	1/26/2010@09:30:29			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					
245147011	1	21	2.89	0.212	1/26/2010@09:32:18			
245147012	1	22	11.2	0.572	1/26/2010@09:33:11			
245147013	1	23	3.03	0.218	1/26/2010@09:34:04			
245147014	1	24	0.384	0.104	1/26/2010@09:34:56			
245147015	1	25	-0.655	0.0595	1/26/2010@09:35:49			
245147016	1	26	7.81	0.424	1/26/2010@09:36:41			
245147017	1	27	-0.657	0.0594	1/26/2010@09:37:33			
245147018	1	28	0.543	0.111	1/26/2010@09:38:26			
1202022256|944394|MB	1	29	-1.01	0.0440	1/26/2010@09:39:18			
1202022263|LCS	1	30	49.2	2.21	1/26/2010@09:40:09			
WCN100126-03	1	S3	103	4.54	1/26/2010@09:41:02			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					
WCN100126-08	1	S7	5.78	0.337	1/26/2010@09:42:53			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								

Result:	5.78 > 5.00				
Message	CCB Failed				
Action	Stop Run				
DOM Test: < - Concentration Limit					
Result:	5.78 > -5.00				
Message	CCB Passed				
Action	Continue				

Analyte Properties Table for OM_1-26-2010_08-51-25.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

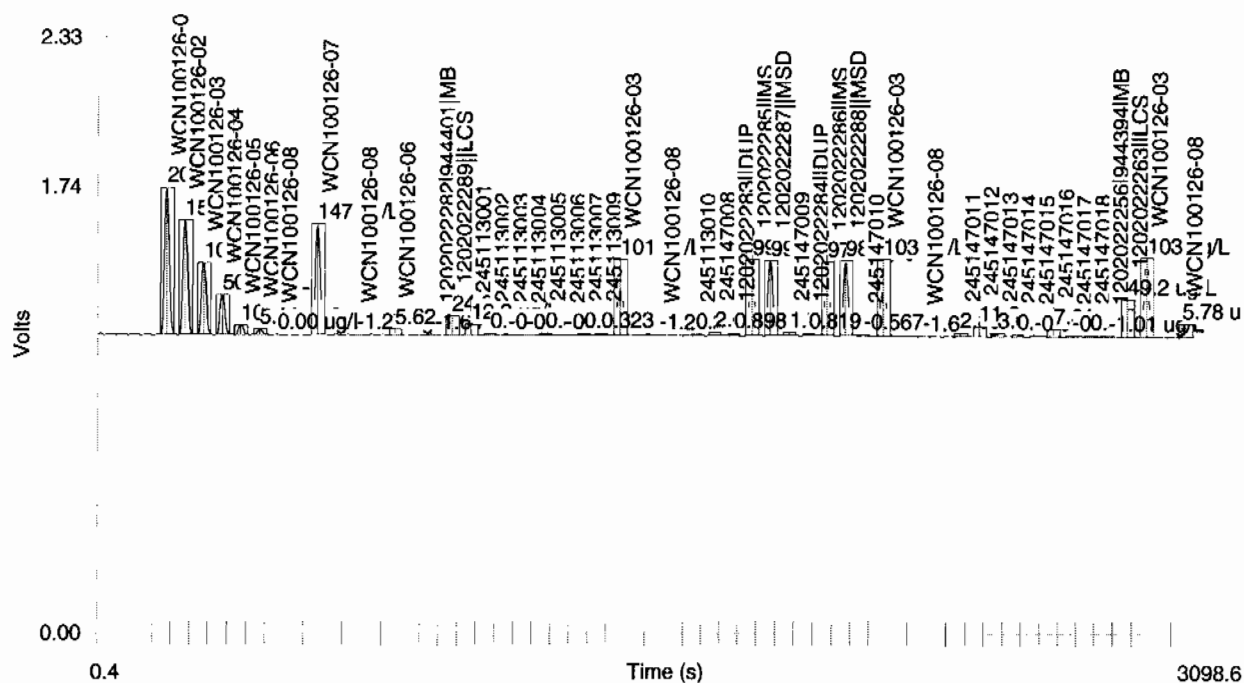
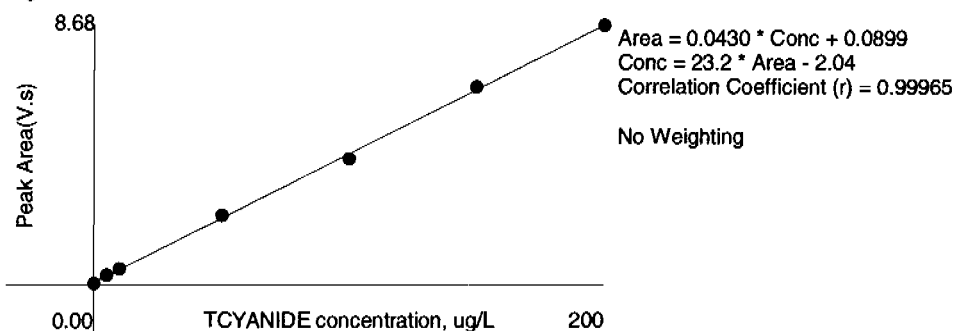


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.68	0.566	0.2	1/26/2010	08:55:50
2	150	1	6.65	0.437	-1.5	1/26/2010	08:56:42
3	100	1	4.23	0.275	3.8	1/26/2010	08:57:34
4	50.0	1	2.33	0.152	-3.8	1/26/2010	08:58:27
5	10.0	1	0.535	0.0337	-2.9	1/26/2010	08:59:21
6	5.00	1	0.332	0.0213	-8.8	1/26/2010	09:00:14
7	0.00	1	0.0443	8.65e-4		1/26/2010	09:01:08

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	1/26/2010 10:00:18	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:02:07	OM_1-26-2010_09-58-45
245147011	944401	1	axc2	1/26/2010 10:03:57	OM_1-26-2010_09-58-45
245147012	944401	1	axc2	1/26/2010 10:04:50	OM_1-26-2010_09-58-45
245147013	944401	1	axc2	1/26/2010 10:05:43	OM_1-26-2010_09-58-45
245147014	944401	1	axc2	1/26/2010 10:06:35	OM_1-26-2010_09-58-45
245147015	944401	1	axc2	1/26/2010 10:07:28	OM_1-26-2010_09-58-45
245147016	944401	1	axc2	1/26/2010 10:08:20	OM_1-26-2010_09-58-45
245147017	944401	1	axc2	1/26/2010 10:09:12	OM_1-26-2010_09-58-45
245147018	944401	1	axc2	1/26/2010 10:10:04	OM_1-26-2010_09-58-45
245147015	944401	1	axc2	1/26/2010 10:10:57	OM_1-26-2010_09-58-45
1202022256	944394	1	axc2	1/26/2010 10:11:49	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010 10:12:41	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:14:31	OM_1-26-2010_09-58-45
245147017	944401	1	axc2	1/26/2010 10:16:19	OM_1-26-2010_09-58-45
1202022263	944394	1	axc2	1/26/2010 10:17:10	OM_1-26-2010_09-58-45
244447003	944394	1	axc2	1/26/2010 10:18:05	OM_1-26-2010_09-58-45
1202024087	944394	1	axc2	1/26/2010 10:18:58	OM_1-26-2010_09-58-45
1202024088	944394	1	axc2	1/26/2010 10:19:52	OM_1-26-2010_09-58-45
1202024089	944394	1	axc2	1/26/2010 10:20:45	OM_1-26-2010_09-58-45
245089001	944394	1	axc2	1/26/2010 10:21:39	OM_1-26-2010_09-58-45
245089002	944394	1	axc2	1/26/2010 10:22:32	OM_1-26-2010_09-58-45
245089003	944394	1	axc2	1/26/2010 10:23:25	OM_1-26-2010_09-58-45
245089004	944394	1	axc2	1/26/2010 10:24:18	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010 10:25:10	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:27:00	OM_1-26-2010_09-58-45
245112001	944394	1	axc2	1/26/2010 10:28:48	OM_1-26-2010_09-58-45
245120001	944394	1	axc2	1/26/2010 10:29:41	OM_1-26-2010_09-58-45
245135001	944394	1	axc2	1/26/2010 10:30:34	OM_1-26-2010_09-58-45
245135002	944394	1	axc2	1/26/2010 10:31:26	OM_1-26-2010_09-58-45
245137001	944394	1	axc2	1/26/2010 10:32:18	OM_1-26-2010_09-58-45
1202022257	944394	1	axc2	1/26/2010 10:33:11	OM_1-26-2010_09-58-45
1202022259	944394	1	axc2	1/26/2010 10:34:02	OM_1-26-2010_09-58-45
1202022261	944394	1	axc2	1/26/2010 10:34:57	OM_1-26-2010_09-58-45
245137002	944394	1	axc2	1/26/2010 10:35:50	OM_1-26-2010_09-58-45
245137003	944394	1	axc2	1/26/2010 10:36:44	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010 10:37:37	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:39:27	OM_1-26-2010_09-58-45
245142005	944394	1	axc2	1/26/2010 10:41:16	OM_1-26-2010_09-58-45
245175001	944394	1	axc2	1/26/2010 10:42:10	OM_1-26-2010_09-58-45
245175002	944394	1	axc2	1/26/2010 10:43:03	OM_1-26-2010_09-58-45
245175003	944394	1	axc2	1/26/2010 10:43:56	OM_1-26-2010_09-58-45
245185003	944394	1	axc2	1/26/2010 10:44:49	OM_1-26-2010_09-58-45
1202022258	944394	1	axc2	1/26/2010 10:45:43	OM_1-26-2010_09-58-45
1202022260	944394	1	axc2	1/26/2010 10:46:35	OM_1-26-2010_09-58-45
1202022262	944394	1	axc2	1/26/2010 10:47:27	OM_1-26-2010_09-58-45
245185014	944394	1	axc2	1/26/2010 10:48:20	OM_1-26-2010_09-58-45
245270001	944394	1	axc2	1/26/2010 10:49:12	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010 10:50:05	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:51:54	OM_1-26-2010_09-58-45
1202020944	943824	1	axc2	1/26/2010 10:53:44	OM_1-26-2010_09-58-45
1202020948	943824	1	axc2	1/26/2010 10:54:36	OM_1-26-2010_09-58-45
245032001	943824	1	axc2	1/26/2010 10:55:30	OM_1-26-2010_09-58-45
245127001*	943824	1	axc2	1/26/2010 10:56:24	OM_1-26-2010_09-58-45
245130001	943824	1	axc2	1/26/2010 10:57:18	OM_1-26-2010_09-58-45
245323003	943824	1	axc2	1/26/2010 10:58:12	OM_1-26-2010_09-58-45
1202020945	943824	1	axc2	1/26/2010 10:59:06	OM_1-26-2010_09-58-45
1202020946	943824	1	axc2	1/26/2010 11:00:00	OM_1-26-2010_09-58-45

1202020947	943824	1	axc2	1/26/2010	11:00:53	OM_1-26-2010_09-58-45
245323014	943824	1	axc2	1/26/2010	11:01:46	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010	11:02:38	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010	11:04:28	OM_1-26-2010_09-58-45
245323025	943824	1	axc2	1/26/2010	11:06:17	OM_1-26-2010_09-58-45
245341001	943824	1	axc2	1/26/2010	11:07:10	OM_1-26-2010_09-58-45
245341003	943824	1	axc2	1/26/2010	11:08:03	OM_1-26-2010_09-58-45
245341005	943824	1	axc2	1/26/2010	11:08:55	OM_1-26-2010_09-58-45
245341007	943824	1	axc2	1/26/2010	11:09:48	OM_1-26-2010_09-58-45
245341009	943824	1	axc2	1/26/2010	11:10:40	OM_1-26-2010_09-58-45
245341010	943824	1	axc2	1/26/2010	11:11:32	OM_1-26-2010_09-58-45
245355007	943824	1	axc2	1/26/2010	11:12:27	OM_1-26-2010_09-58-45
245362002	943824	1	axc2	1/26/2010	11:13:21	OM_1-26-2010_09-58-45
245378002	943824	1	axc2	1/26/2010	11:14:16	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010	11:15:08	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010	11:16:58	OM_1-26-2010_09-58-45
1202023391	943824	1	axc2	1/26/2010	11:18:48	OM_1-26-2010_09-58-45
1202023392	943824	1	axc2	1/26/2010	11:19:41	OM_1-26-2010_09-58-45
1202023393	943824	1	axc2	1/26/2010	11:20:35	OM_1-26-2010_09-58-45
245382001	943824	1	axc2	1/26/2010	11:21:28	OM_1-26-2010_09-58-45
245386001	943824	1	axc2	1/26/2010	11:22:22	OM_1-26-2010_09-58-45
245127001	943824	1	axc2	1/26/2010	11:23:16	OM_1-26-2010_09-58-45
245390001	943824	1	axc2	1/26/2010	11:24:09	OM_1-26-2010_09-58-45
245392001	943824	1	axc2	1/26/2010	11:25:03	OM_1-26-2010_09-58-45
245392002	943824	1	axc2	1/26/2010	11:25:55	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010	11:26:48	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010	11:28:38	OM_1-26-2010_09-58-45

Original Run Filename: OM_1-26-2010_09-58-45.OMN created 1/26/2010 09:58:45
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-26-2010_09-58-45.OMN last modified 1/26/2010 11:29:43
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE	Area (Vs)				
WCN100126-03	1	S3	102	4.46	1/26/2010@10:00:18			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.6 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			1.6 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100126-08	1	S7	2.83	0.210	1/26/2010@10:02:07			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			2.83 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			2.83 > -5.00					
Message			CCB Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
245147011|944401|	1	21	2.95	0.215	1/26/2010@10:03:57			
245147012	1	22	11.6	0.586	1/26/2010@10:04:50			
245147013	1	23	3.64	0.245	1/26/2010@10:05:43			
245147014	1	24	0.385	0.104	1/26/2010@10:06:35			
245147015	1	25	2.58	0.199	1/26/2010@10:07:28			
245147016	1	26	8.00	0.432	1/26/2010@10:08:20			
245147017	1	27	3.47	0.237	1/26/2010@10:09:12			
245147018	1	28	1.87	0.168	1/26/2010@10:10:04			
245147015	1	25	0.130	0.0933	1/26/2010@10:10:57			
1202022256|944394|MB	1	29	-0.422	0.0695	1/26/2010@10:11:49			
WCN100126-03	1	S3	101	4.45	1/26/2010@10:12:41			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.2 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			1.2 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100126-08	1	S7	-1.42	0.0263	1/26/2010@10:14:31			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.42 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.42 > -5.00					
Message			CCB Passed					
Action			Continue					
245147017|944401|	1	27	-0.706	0.0572	1/26/2010@10:16:19			
1202022263|944394|LCS	1	30	49.7	2.23	1/26/2010@10:17:10			
244447003	1	31	-1.57	0.0199	1/26/2010@10:18:05			
1202024087|DUP	1	32	-1.41	0.0270	1/26/2010@10:18:58			
1202024088|MS	1	33	107	4.68	1/26/2010@10:19:52			
1202024089|MSD	1	34	104	4.55	1/26/2010@10:20:45			

245089001	1	35	-1.51	0.0226	1/26/2010@10:21:39		
245089002	1	36	-1.45	0.0252	1/26/2010@10:22:32		
245089003	1	37	-1.32	0.0307	1/26/2010@10:23:25		
245089004	1	38	-1.41	0.0271	1/26/2010@10:24:18		
WCN100126-03	1	S3	102	4.48	1/26/2010@10:25:10		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				
WCN100126-08	1	S7	-1.45	0.0252	1/26/2010@10:27:00		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.45 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.45 > -5.00				
Message			CCB Passed				
Action			Continue				
245112001	1	39	-1.32	0.0309	1/26/2010@10:28:48		
245120001	1	40	-1.68	0.0151	1/26/2010@10:29:41		
245135001	1	41	-1.58	0.0196	1/26/2010@10:30:34		
245135002	1	42	-1.93	0.00472	1/26/2010@10:31:26		
245137001	1	43	-1.47	0.0245	1/26/2010@10:32:18		
1202022257||DUP	1	44	-1.40	0.0273	1/26/2010@10:33:11		
1202022259||MS	1	45	105	4.60	1/26/2010@10:34:02		
1202022261||MSD	1	46	102	4.48	1/26/2010@10:34:57		
245137002	1	47	-0.835	0.0517	1/26/2010@10:35:50		
245137003	1	48	-1.51	0.0224	1/26/2010@10:36:44		
WCN100126-03	1	S3	101	4.45	1/26/2010@10:37:37		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			1.2 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			1.2 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100126-08	1	S7	-1.77	0.0114	1/26/2010@10:39:27		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.77 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.77 > -5.00				
Message			CCB Passed				
Action			Continue				
245142005	1	49	-0.822	0.0523	1/26/2010@10:41:16		
245175001	1	50	1.04	0.132	1/26/2010@10:42:10		
245175002	1	51	16.2	0.787	1/26/2010@10:43:03		
245175003	1	52	2.88	0.212	1/26/2010@10:43:56		
245185003	1	53	-7.41e-4	0.0876	1/26/2010@10:44:49		
1202022258||DUP	1	54	-1.09	0.0406	1/26/2010@10:45:43		
1202022260||MS	1	55	106	4.67	1/26/2010@10:46:35		
1202022262||MSD	1	56	105	4.62	1/26/2010@10:47:27		
245185014	1	57	-0.743	0.0557	1/26/2010@10:48:20		
245270001	1	58	8.01	0.433	1/26/2010@10:49:12		
WCN100126-03	1	S3	102	4.46	1/26/2010@10:50:05		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			1.6 < 10.0				

		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	1.6 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100126-08	1	S7	-1.71	0.0141	1/26/2010@10:51:54		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				
1202020944|943824|MB	1	59	-1.90	0.00597	1/26/2010@10:53:44		
1202020948|LCS	1	60	50.5	2.26	1/26/2010@10:54:36		
245032001	1	61	-0.813	0.0526	1/26/2010@10:55:30		
245127001	1	62	5.79	0.337	1/26/2010@10:56:24		
245130001	1	63	-1.19	0.0366	1/26/2010@10:57:18		
245323003	1	64	-1.30	0.0316	1/26/2010@10:58:12		
1202020945|DUP	1	65	-1.49	0.0236	1/26/2010@10:59:06		
1202020946|MS	1	66	107	4.70	1/26/2010@11:00:00		
1202020947|MSD	1	67	107	4.69	1/26/2010@11:00:53		
245323014	1	68	-1.45	0.0252	1/26/2010@11:01:46		
WCN100126-03	1	S3	101	4.46	1/26/2010@11:02:38		CCV
		Known Conc:	100				
DQM Test: > + Percent Relative Difference							
		Result:	1.5 < 10.0				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	1.5 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100126-08	1	S7	-1.27	0.0331	1/26/2010@11:04:28		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							
		Result:	-1.27 < 5.00				
		Message	CCB Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	-1.27 > -5.00				
		Message	CCB Passed				
		Action	Continue				
245323025	1	69	-1.07	0.0417	1/26/2010@11:06:17		
245341001	1	70	-0.612	0.0613	1/26/2010@11:07:10		
245341003	1	71	-1.34	0.0299	1/26/2010@11:08:03		
245341005	1	72	-1.33	0.0302	1/26/2010@11:08:55		
245341007	1	73	-1.74	0.0128	1/26/2010@11:09:48		
245341009	1	74	-1.57	0.0201	1/26/2010@11:10:40		
245341010	1	75	-1.09	0.0408	1/26/2010@11:11:32		
245355007	1	76	-0.933	0.0475	1/26/2010@11:12:27		
245362002	1	77	0.794	0.122	1/26/2010@11:13:21		
245378002	1	78	-0.745	0.0556	1/26/2010@11:14:16		
WCN100126-03	1	S3	102	4.47	1/26/2010@11:15:08		CCV
		Known Conc:	100				
DQM Test: > + Percent Relative Difference							
		Result:	1.8 < 10.0				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	1.8 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100126-08	1	S7	-1.40	0.0274	1/26/2010@11:16:58		CCB
		Known Conc:	0.00				

DQM Test: > + Concentration Limit						
Result:	-1.40 < 5.00					
Message	CCB Passed					
Action	Continue					
DQM Test: < - Concentration Limit						
Result:	-1.40 > -5.00					
Message	CCB Passed					
Action	Continue					
1202023391||DUP	1	79	-1.50	0.0229	1/26/2010@11:18:48	
1202023392||MS	1	80	104	4.57	1/26/2010@11:19:41	
1202023393||MSD	1	81	104	4.57	1/26/2010@11:20:35	
245382001	1	82	-1.27	0.0331	1/26/2010@11:21:28	
245386001	1	83	-2.03	2.70e-4	1/26/2010@11:22:22	
245127001	1	62	-0.758	0.0550	1/26/2010@11:23:16	
245390001	1	84	-1.68	0.0154	1/26/2010@11:24:09	
245392001	1	85	-1.33	0.0306	1/26/2010@11:25:03	
245392002	1	86	-1.86	0.00771	1/26/2010@11:25:55	
WCN100126-03	1	S3	101	4.44	1/26/2010@11:26:48	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:	1.0 < 10.0					
Message	CCV Passed					
Action	Continue					
DQM Test: < - Percent Relative Difference						
Result:	1.0 < 10.0					
Message	CCV Passed					
Action	Continue					
WCN100126-08	1	S7	-1.17	0.0373	1/26/2010@11:28:38	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:	-1.17 < 5.00					
Message	CCB Passed					
Action	Continue					
DQM Test: < - Concentration Limit						
Result:	-1.17 > -5.00					
Message	CCB Passed					
Action	Continue					

Analyte Properties Table for OM_1-26-2010_09-58-45.OMN

Property	Channel 1
	TCYANIDE
Concentration Units	ug/L
Callibration 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

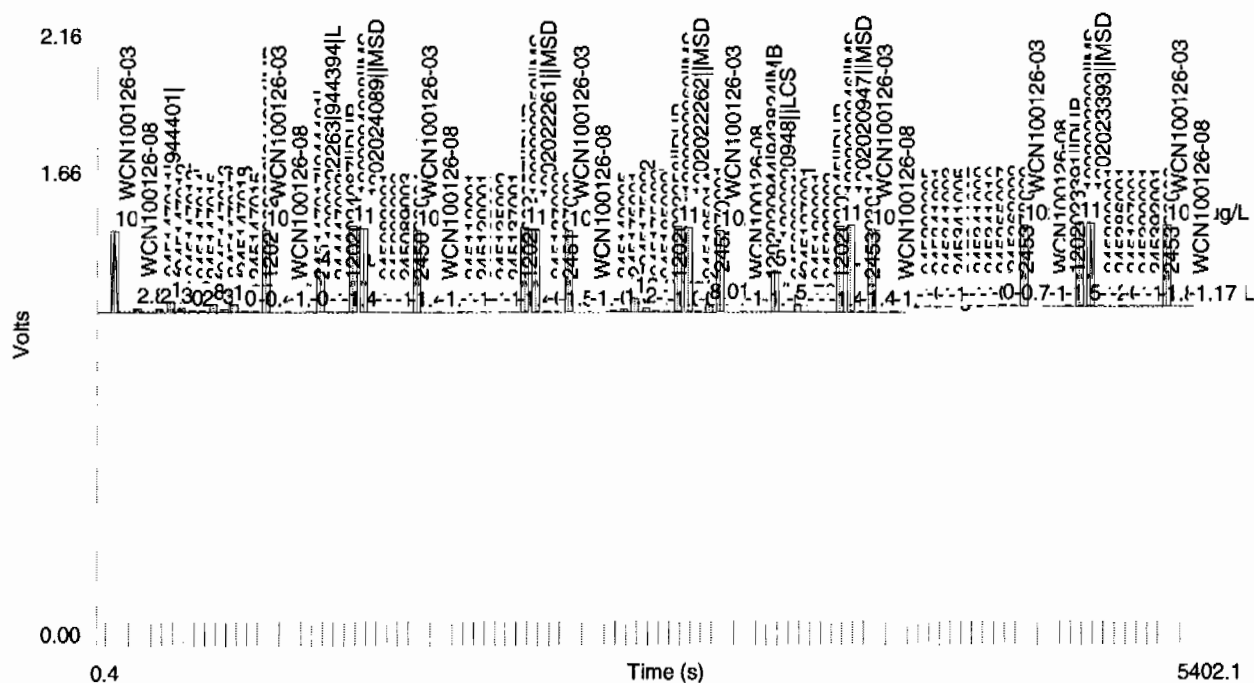
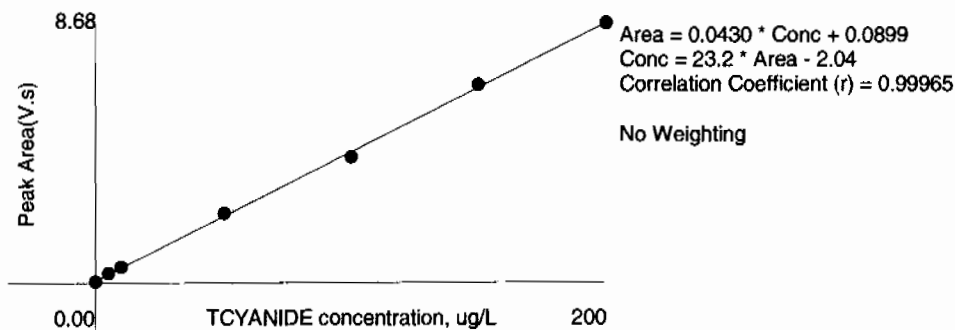


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.68	0.566	0.2	1/26/2010	08:55:50
2	150	1	6.65	0.437	-1.5	1/26/2010	08:56:42
3	100	1	4.23	0.275	3.8	1/26/2010	08:57:34
4	50.0	1	2.33	0.152	-3.8	1/26/2010	08:58:27
5	10.0	1	0.535	0.0337	-2.9	1/26/2010	08:59:21
6	5.00	1	0.332	0.0213	-8.8	1/26/2010	09:00:14
7	0.00	1	0.0443	8.65e-4		1/26/2010	09:01:08

Figure 1: TCYANIDE



Nitrate Nitrite by Cadmium Reduction

This is runlog lachat3

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
1.5 PPM		1	axh3	1/26/2010 10:37:06	OM_1-26-2010_10-36-04
1.0 PPM		1	axh3	1/26/2010 10:38:18	OM_1-26-2010_10-36-04
0.5 ppm		1	axh3	1/26/2010 10:39:31	OM_1-26-2010_10-36-04
0.1 ppm		1	axh3	1/26/2010 10:40:44	OM_1-26-2010_10-36-04
0.05 ppm		1	axh3	1/26/2010 10:41:57	OM_1-26-2010_10-36-04
ICAL-00		1	axh3	1/26/2010 10:43:11	OM_1-26-2010_10-36-04
1.0 ppm ICB		1	axh3	1/26/2010 10:45:33	OM_1-26-2010_10-36-04
ICB		1	axh3	1/26/2010 10:47:55	OM_1-26-2010_10-36-04
Nitrate 1.0 ppm		1	axh3	1/26/2010 10:50:15	OM_1-26-2010_10-36-04
Nitrite 1.0 ppm		1	axh3	1/26/2010 10:52:35	OM_1-26-2010_10-36-04
1202020124	943485	1	axh3	1/26/2010 10:54:56	OM_1-26-2010_10-36-04
1202020127	943485	1	axh3	1/26/2010 10:56:09	OM_1-26-2010_10-36-04
245012002	943485	10	axh3	1/26/2010 10:57:22	OM_1-26-2010_10-36-04
1202023306	943485	10	axh3	1/26/2010 10:58:35	OM_1-26-2010_10-36-04
1202023307	943485	10	axh3	1/26/2010 10:59:48	OM_1-26-2010_10-36-04
245262004	943485	5	axh3	1/26/2010 11:01:00	OM_1-26-2010_10-36-04
245012006	943485	10	axh3	1/26/2010 11:02:13	OM_1-26-2010_10-36-04
245012009	943485	25	axh3	1/26/2010 11:03:25	OM_1-26-2010_10-36-04
245012012	943485	25	axh3	1/26/2010 11:04:38	OM_1-26-2010_10-36-04
245012015	943485	25	axh3	1/26/2010 11:05:50	OM_1-26-2010_10-36-04
1.0 ppm CCV		1	axh3	1/26/2010 11:07:02	OM_1-26-2010_10-36-04
CCB		1	axh3	1/26/2010 11:09:24	OM_1-26-2010_10-36-04
245110001	943485	5	axh3	1/26/2010 11:11:44	OM_1-26-2010_10-36-04
1202022183	943485	5	axh3	1/26/2010 11:12:56	OM_1-26-2010_10-36-04
1202022185	943485	5	axh3	1/26/2010 11:14:08	OM_1-26-2010_10-36-04
245256001	943485	10	axh3	1/26/2010 11:15:21	OM_1-26-2010_10-36-04
1202020125	943485	10	axh3	1/26/2010 11:16:34	OM_1-26-2010_10-36-04
1202020126	943485	10	axh3	1/26/2010 11:17:46	OM_1-26-2010_10-36-04
245154001	943485	5	axh3	1/26/2010 11:18:59	OM_1-26-2010_10-36-04
1202022182	943485	5	axh3	1/26/2010 11:20:12	OM_1-26-2010_10-36-04
1202022184	943485	5	axh3	1/26/2010 11:21:25	OM_1-26-2010_10-36-04
245032001	943485	5	axh3	1/26/2010 11:22:37	OM_1-26-2010_10-36-04
1.0 ppm CCV		1	axh3	1/26/2010 11:23:49	OM_1-26-2010_10-36-04
CCB		1	axh3	1/26/2010 11:26:11	OM_1-26-2010_10-36-04
245110002	943485	5	axh3	1/26/2010 11:28:31	OM_1-26-2010_10-36-04
245112001	943485	5	axh3	1/26/2010 11:29:42	OM_1-26-2010_10-36-04
245140001	943485	5	axh3	1/26/2010 11:30:56	OM_1-26-2010_10-36-04
245231001	943485	5	axh3	1/26/2010 11:32:08	OM_1-26-2010_10-36-04
245237001	943485	5	axh3	1/26/2010 11:33:21	OM_1-26-2010_10-36-04
245270001	943485	25	axh3	1/26/2010 11:34:33	OM_1-26-2010_10-36-04
245318006	943485	100	axh3	1/26/2010 11:35:44	OM_1-26-2010_10-36-04
245318009	943485	5	axh3	1/26/2010 11:36:57	OM_1-26-2010_10-36-04
245318010	943485	5	axh3	1/26/2010 11:38:08	OM_1-26-2010_10-36-04
245373001	943485	5	axh3	1/26/2010 11:39:19	OM_1-26-2010_10-36-04
1.0 ppm CCV		1	axh3	1/26/2010 11:40:31	OM_1-26-2010_10-36-04
CCB		1	axh3	1/26/2010 11:42:54	OM_1-26-2010_10-36-04

Original Run Filename: OM_1-26-2010_10-36-04.OMN created 1/26/2010 10:36:04
 Original Run Author's Signature: [lachat]
 Current Run Filename: OM_1-26-2010_10-36-04.OMN last modified 1/26/2010 11:44:35
 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		Detection Time	ADF	MDF	Description
			NO3 + NO2 Conc. (mg/L)	Area (Vs)				
WTR100126-26	1	S9	1.50	19.1	1/26/2010@10:37:06			1.5 PPM
WTR100126-25	1	S10	1.00	12.6	1/26/2010@10:38:18			1.0 PPM
WTR100126-24	1	S11	0.500	6.34	1/26/2010@10:39:31			0.5 ppm
WTR100126-23	1	S12	0.100	1.28	1/26/2010@10:40:44			0.1 ppm
WTR100126-21	1	S13	0.0500	0.656	1/26/2010@10:41:57			0.05 ppm
0.0ppm	1	S15	0.00	-0.0175	1/26/2010@10:43:11			0.0 ppm
DQM Test: Minimum Correlation Coefficient								
Result:			0.99996 > 0.99500					
Message			Calibration Passed					
Action			Continue					
WTR100126-27 ICV	1	S16	0.937	11.9	1/26/2010@10:45:33			1.0 ppm ICV
Known Conc:			1.00					
DQM Test: > + Concentration Limit								
Result:			0.937 < 1.10					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.937 > 0.894					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
ICB	1	S15	-4.77e-4	-0.0161	1/26/2010@10:47:55			ICB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-4.77e-4 < 0.0500					
Message			ICB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-4.77e-4 > -0.0500					
Message			ICB Passed					
Action			Continue					
WTR100126-22	1	S1	0.932	11.8	1/26/2010@10:50:15			Nitrate 1.0 ppm
Known Conc:			1.00					
DQM Test: > + Concentration Limit								
Result:			0.932 < 1.10					
Message			Nitrate Standard Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.932 > 0.894					
Message			Nitrate Standard Passed					
Action			Continue					
WTR100126-28	1	S2	0.937	11.9	1/26/2010@10:52:35			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					
1202020124|943485|MB	1	1	0.00776	0.0885	1/26/2010@10:54:56			
1202020127|LCS	1	2	0.945	12.0	1/26/2010@10:56:09			
245012002	1	3	0.242	3.07	1/26/2010@10:57:22		10.00	
1202023306|DUP	1	4	0.238	3.01	1/26/2010@10:58:35		10.00	
1202023307|PS	1	5	1.21	15.3	1/26/2010@10:59:48		10.00	

245262004	1	25	0.0172	0.208	1/26/2010@11:01:00			
245012006	1	6	0.248	3.15	1/26/2010@11:02:13		10.00	
245012009	1	7	0.863	11.0	1/26/2010@11:03:25		25.00	
245012012	1	8	0.191	2.42	1/26/2010@11:04:38		25.00	
245012015	1	9	0.392	4.98	1/26/2010@11:05:50		25.00	
WTR100126-25 CCV	1	S10	1.00	12.8	1/26/2010@11:07:02			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	-9.91e-4	-0.0227	1/26/2010@11:09:24			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-9.91e-4 < 0.0500					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-9.91e-4 > -0.0500					
Message			CCB Passed					
Action			Continue					
245110001	1	11	0.00797	0.0913	1/26/2010@11:11:44		5.00	
1202022183||DUP	1	12	0.00935	0.109	1/26/2010@11:12:56		5.00	
1202022185||PS	1	13	0.985	12.5	1/26/2010@11:14:08		5.00	
245256001	1	22	0.222	2.81	1/26/2010@11:15:21		10.00	
1202020125||DUP	1	23	0.217	2.75	1/26/2010@11:16:34		10.00	
1202020126||PS	1	24	1.18	15.0	1/26/2010@11:17:46		10.00	
245154001	1	17	0.637	8.08	1/26/2010@11:18:59		5.00	
1202022182||DUP	1	18	0.589	7.48	1/26/2010@11:20:12		5.00	
1202022184||PS	1	19	1.54	19.6	1/26/2010@11:21:25		5.00	
245032001	1	10	0.258	3.27	1/26/2010@11:22:37		5.00	
WTR100126-25 CCV	1	S10	0.986	12.5	1/26/2010@11:23:49			1.0 ppm CCV
Known Conc:			1.00					
DQM Test: > + Concentration Limit								
Result:			0.986 < 1.10					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.986 > 0.894					
Message			CCV Passed					
Action			Continue					
CCB	1	S15	-0.00176	-0.0324	1/26/2010@11:26:11			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.00176 < 0.0500					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.00176 > -0.0500					
Message			CCB Passed					
Action			Continue					
245110002	1	14	0.00943	0.110	1/26/2010@11:28:31		5.00	
245112001	1	15	0.00535	0.0579	1/26/2010@11:29:42		5.00	
245140001	1	16	0.00743	0.0844	1/26/2010@11:30:56		5.00	
245231001	1	20	0.141	1.78	1/26/2010@11:32:08		5.00	
245237001	1	21	0.0951	1.20	1/26/2010@11:33:21		5.00	
245270001	1	26	0.543	6.89	1/26/2010@11:34:33		25.00	
245318006	1	27	0.481	6.10	1/26/2010@11:35:44		100.00	
245318009	1	28	0.0788	0.992	1/26/2010@11:36:57		5.00	
245318010	1	29	0.0748	0.941	1/26/2010@11:38:08		5.00	
245373001	1	30	0.00646	0.0721	1/26/2010@11:39:19		5.00	
WTR100126-25 CCV	1	S10	0.939	11.9	1/26/2010@11:40:31			1.0 ppm CCV
Known Conc:			1.00					
DQM Test: > + Concentration Limit								

Result:		0.939 < 1.10					
Message		CCV Passed					
Action		Continue					
DQM Test: < - Concentration Limit							
Result:		0.939 > 0.894					
Message		CCV Passed					
Action		Continue					
CCB	1	S15	-2.10e-4	-0.0127	1/26/2010@11:42:54		CCB
Known Conc:		0.00					
DQM Test: > + Concentration Limit							
Result:		-2.10e-4 < 0.0500					
Message		CCB Passed					
Action		Continue					
DQM Test: < - Concentration Limit							
Result:		-2.10e-4 > -0.0500					
Message		CCB Passed					
Action		Continue					

Channel 1 (NO₃ + NO₂) : Current View

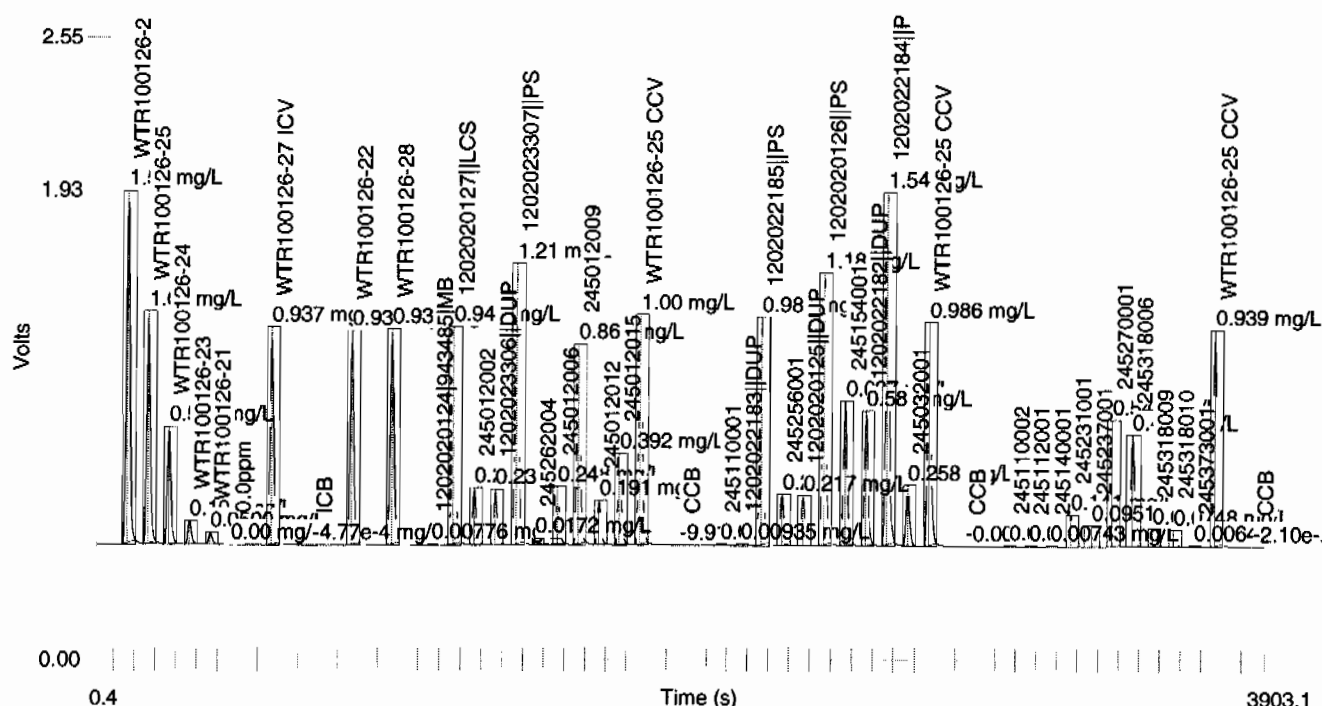
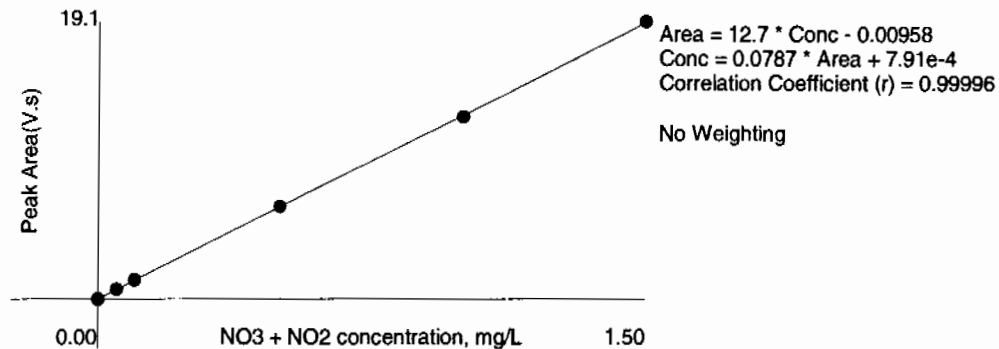


Table 1: NO3 + NO2

	Conc. (mg/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	1.50	1	19.1	1.45	-0.4	1/26/2010	10:38:26
2	1.00	1	12.6	0.952	0.9	1/26/2010	10:39:38
3	0.500	1	6.34	0.478	0.0	1/26/2010	10:40:50
4	0.100	1	1.28	0.0960	-1.7	1/26/2010	10:42:04
5	0.0500	1	0.656	0.0489	-4.9	1/26/2010	10:43:17
6	0.00	1	-0.0175	-1.92e-4		1/26/2010	10:44:31

Figure 1: NO3 + NO2



General Chemistry

Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1325-1**

Method/Analysis Information

Product: pH

Analytical Batch: 944409 and 945107 **Method:** SW9045C pH

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9045C/9045D:

Sample ID	Client ID
245113001	RE15-10-8410
245113002	RE15-10-8411
245113003	RE15-10-8412
245113004	RE15-10-8441
245113005	RE15-10-8413
245113006	RE15-10-8425
245113007	RE15-10-8422
245113008	RE15-10-8417
245113009	RE15-10-8423
245113010	RE15-10-8416
245113011	RE15-10-8418
245113012	RE15-10-8424
245113013	RE15-10-8421
245113014	RE15-10-8420
1202022307	245113001(RE15-10-8410) Sample Duplicate (DUP)
1202022308	245113014(RE15-10-8420) Sample Duplicate (DUP)
1202022309	Laboratory Control Sample (LCS)
1202024169	245383001(RE15-10-8439) Sample Duplicate (DUP)
1202024170	245389010(RE14-10-7685) Sample Duplicate (DUP)
1202024171	Laboratory Control Sample (LCS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-008 REV# 17.

Preparation/Analytical Method Verification

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

Calibration Information

The Electrode analysis was performed on a PerpHect pH Meter Orion 370.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Quality Control (QC) Information**Laboratory Control Sample (LCS) Recovery**

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 245113001 (RE15-10-8410), 245113014 (RE15-10-8420)- Batch 944409, 245383001 (RE15-10-8439) and 245389010 (RE14-10-7685)- Batch 945107.

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: 1202022307 (RE15-10-8410), 1202022308 (RE15-10-8420), 245113001 (RE15-10-8410), 245113002 (RE15-10-8411), 245113003 (RE15-10-8412), 245113004 (RE15-10-8441), 245113005 (RE15-10-8413), 245113006 (RE15-10-8425), 245113007 (RE15-10-8422), 245113009 (RE15-10-8423), 245113010 (RE15-10-8416), 245113011 (RE15-10-8418), 245113012 (RE15-10-8424), 245113013 (RE15-10-8421), 245113014 (RE15-10-8420)- Batch 944409, 1202024169 (RE15-10-8439), 1202024170 (RE14-10-7685) and 245113008 (RE15-10-8417)- Batch 945107.

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: 944401, 944403 and 944832 **Method:** SW9012A Cyanide and Total

Prep Batch : 944400, 944402 and 944831 **Method:** SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
245113001	RE15-10-8410
245113002	RE15-10-8411
245113003	RE15-10-8412
245113004	RE15-10-8441
245113005	RE15-10-8413
245113006	RE15-10-8425
245113007	RE15-10-8422
245113008	RE15-10-8417
245113009	RE15-10-8423
245113010	RE15-10-8416
245113011	RE15-10-8418
245113012	RE15-10-8424
245113013	RE15-10-8421
245113014	RE15-10-8420
1202022282	Method Blank (MB)
1202022283	245147008(RE15-10-7166) Sample Duplicate (DUP)
1202022284	245147009(RE15-10-7177) Sample Duplicate (DUP)
1202022285	245147008(RE15-10-7166) Matrix Spike (MS)
1202022286	245147009(RE15-10-7177) Matrix Spike (MS)
1202022287	245147008(RE15-10-7166) Matrix Spike Duplicate (MSD)
1202022288	245147009(RE15-10-7177) Matrix Spike Duplicate (MSD)
1202022289	Laboratory Control Sample (LCS)
1202022290	Method Blank (MB)
1202022291	245113011(RE15-10-8418) Sample Duplicate (DUP)
1202022292	245113012(RE15-10-8424) Sample Duplicate (DUP)
1202022293	245113011(RE15-10-8418) Matrix Spike (MS)
1202022294	245113012(RE15-10-8424) Matrix Spike (MS)
1202022295	245113011(RE15-10-8418) Matrix Spike Duplicate (MSD)
1202022296	245113012(RE15-10-8424) Matrix Spike Duplicate (MSD)
1202022297	Laboratory Control Sample (LCS)
1202023367	Method Blank (MB)
1202023368	245113008(RE15-10-8417) Sample Duplicate (DUP)
1202023369	245138001(WSTWA-10-11331) Sample Duplicate (DUP)
1202023370	245113008(RE15-10-8417) Matrix Spike (MS)
1202023371	245138001(WSTWA-10-11331) Matrix Spike (MS)
1202023372	245113008(RE15-10-8417) Matrix Spike Duplicate (MSD)
1202023373	245138001(WSTWA-10-11331) Matrix Spike Duplicate (MSD)
1202023374	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 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) Designation

The following samples were selected for QC analysis: 245147008 (RE15-10-7166), 245147009 (RE15-10-7177)- Batch 944401, 245113011 (RE15-10-8418), 245113012 (RE15-10-8424)- Batch 944403, 245113008 (RE15-10-8417) and 245138001 (WSTWA-10-11331)- Batch 944832.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The spike recovery falls outside of the established acceptance limits due to matrix interference: 1202022293 (RE15-10-8418) and 1202022294 (RE15-10-8424)- Batch 944403.

Matrix Spike Duplicate (MSD) Recovery Statement

The spike duplicate recovery falls outside of the established acceptance limits due to matrix interference: 1202022295 (RE15-10-8418) and 1202022296 (RE15-10-8424)- Batch 944403.

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. 1202022283 (RE15-10-7166), 1202022284 (RE15-10-7177)- Batch 944401, 1202022291 (RE15-10-8418), 1202022292 (RE15-10-8424), 245113011 (RE15-10-8418), 245113012 (RE15-10-8424)- Batch 944403, 1202023368 (RE15-10-8417) and 245113008 (RE15-10-8417)- Batch 944832.

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 high concentration: 1202022289 (LCS)- Batch 944401, 1202022297 (LCS)- Batch 944403 and 1202023374 (LCS)- Batch 944832.

Sample Re-analysis

The following sample was re-analyzed due to air-spike. 1202022293 (RE15-10-8418)- Batch 944403.

Miscellaneous Information

Data Exception (DER) Documentation

The following DER was generated for this SDG: 785579 1202022293 (RE15-10-8418), 1202022294 (RE15-10-8424), 1202022295 (RE15-10-8418) and 1202022296 (RE15-10-8424)- Batch 944403.

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: 946562 **Method:** EPA 300.0 Nitrate in Soil
Prep Batch : 946561 **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
245113001	RE15-10-8410
245113002	RE15-10-8411
245113003	RE15-10-8412
245113004	RE15-10-8441
245113005	RE15-10-8413
245113006	RE15-10-8425
245113007	RE15-10-8422
245113008	RE15-10-8417
245113009	RE15-10-8423
245113010	RE15-10-8416
245113011	RE15-10-8418
245113012	RE15-10-8424
245113013	RE15-10-8421
245113014	RE15-10-8420
1202027475	Method Blank (MB)
1202027476	245113001(RE15-10-8410) Sample Duplicate (DUP)
1202027477	245113014(RE15-10-8420) Sample Duplicate (DUP)
1202027478	245113001(RE15-10-8410) Matrix Spike (MS)
1202027479	245113014(RE15-10-8420) Matrix Spike (MS)
1202027480	245113001(RE15-10-8410) Matrix Spike Duplicate (MSD)
1202027481	245113014(RE15-10-8420) Matrix Spike Duplicate (MSD)
1202027482	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: 245113001 (RE15-10-8410) and 245113014 (RE15-10-8420).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The spike recovery falls outside of the GEL acceptance limits but within the client specified limits. 1202027478 (RE15-10-8410) and 1202027479 (RE15-10-8420).

Matrix Spike Duplicate (MSD) Recovery Statement

The spike duplicate recovery falls outside of the GEL acceptance limits but within the client specified limits. 1202027480 (RE15-10-8410) and 1202027481 (RE15-10-8420).

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

The following DER was generated for this SDG: 786626 1202027478 (RE15-10-8410), 1202027479 (RE15-10-8420), 1202027480 (RE15-10-8410) and 1202027481 (RE15-10-8420).

Manual Integrations

The following sample from this sample group had to be manually integrated due to errors in the instrument software peak integration: 245113013 (RE15-10-8421).

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

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

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

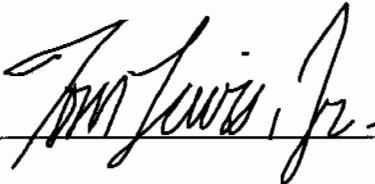
Certification Statement

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

Review Validation:

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

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

Reviewer:  Date: 10Feb10

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: 10-1325-1 GEL Work Order: 245113

The Qualifiers in this report are defined as follows:

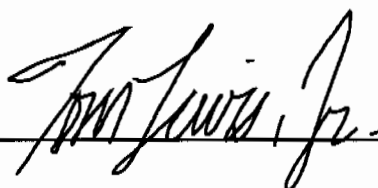
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

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

A handwritten signature in black ink, appearing to read "Tom Lewis, Jr.", is written over a horizontal line.

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8410
Sample ID: 245113001
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 24.9%

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 21.1C	H	6.34	0.010	0.100	SU	1	EXF1	01/22/10	1025	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		810	85.4	314	ug/kg	1	AXC2	01/26/10	0909	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.397	1.32	mg/kg	1	GXM	01/30/10	1836	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8411
Sample ID: 245113002
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 15.4%

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 21.3C	H	5.67	0.010	0.100	SU	1	EXF1	01/22/10	1029	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	77.2	284	ug/kg	1	AXC2	01/26/10	0910	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.348	1.16	mg/kg	1	GXM	01/30/10	2035	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8412
Sample ID: 245113003
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 7.6%

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 21.3C	H	6.08	0.010	0.100	SU	1	EXF1	01/22/10	1032	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	65.7	242	ug/kg	1	AXC2	01/26/10	0910	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.321	1.07	mg/kg	1	GXM	01/30/10	2105	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8441
Sample ID: 245113004
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.58%

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	6.03	0.010	0.100	SU	1	EXF1	01/22/10	1036	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.3	266	ug/kg	1	AXC2	01/26/10	0911	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.332	1.11	mg/kg	1	GXM	01/30/10	2235	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8413
Sample ID: 245113005
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 10.6%

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 21.3C	H	5.39	0.010	0.100	SU	1	EXF1	01/22/10	1038	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	67.9	250	ug/kg	1	AXC2	01/26/10	0912	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.336	1.12	mg/kg	1	GXM	01/30/10	2305	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8425
Sample ID: 245113006
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-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 21.1C	H	5.95	0.010	0.100	SU	1	EXF1	01/22/10	1042	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.0	268	ug/kg	1	AXC2	01/26/10	0913	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.332	1.11	mg/kg	1	GXM	01/30/10	2335	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8422
Sample ID: 245113007
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 10.9%

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 21.0C	H	5.77	0.010	0.100	SU	1	EXF1	01/22/10	1047	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.0	265	ug/kg	1	AXC2	01/26/10	0914	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.334	1.11	mg/kg	1	GXM	01/31/10	0005	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8417
Sample ID: 245113008
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 23-JAN-10
Collector: Client
Moisture: 5.34%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 20.2C	H	6.17	0.010	0.100	SU	1	EXF1	01/25/10	1506	945107	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	66.5	245	ug/kg	1	AXC2	01/28/10	1507	944832	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.311	1.04	mg/kg	1	GXM	01/31/10	0035	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/27/10	1602	944831

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8423
Sample ID: 245113009
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.36%

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	5.52	0.010	0.100	SU	1	EXF1	01/22/10	1049	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.6	270	ug/kg	1	AXC2	01/26/10	0915	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.328	1.09	mg/kg	1	GXM	01/31/10	0105	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8416
Sample ID: 245113010
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.57%

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	6.07	0.010	0.100	SU	1	EXF1	01/22/10	1055	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.9	261	ug/kg	1	AXC2	01/26/10	0919	944401	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.332	1.11	mg/kg	1	GXM	01/31/10	0134	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1602	944400

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8418
Sample ID: 245113011
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 11.3%

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	6.12	0.010	0.100	SU	1	EXF1	01/22/10	1058	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.7	271	ug/kg	1	AXC2	01/28/10	1539	944403	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.47	0.338	1.13	mg/kg	1	GXM	01/31/10	0304	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/28/10	1422	944402

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8424
Sample ID: 245113012
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 10%

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 21.0C	H	5.97	0.010	0.100	SU	1	EXF1	01/22/10	1104	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	121	67.5	248	ug/kg	1	AXC2	01/28/10	1546	944403	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.333	1.11	mg/kg	1	GXM	01/31/10	0334	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/28/10	1422	944402

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8421
Sample ID: 245113013
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-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 21.1C	H	5.64	0.010	0.100	SU	1	EXF1	01/22/10	1106	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	76.2	280	ug/kg	1	AXC2	01/28/10	1551	944403	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.39	0.343	1.14	mg/kg	1	GXM	01/31/10	0404	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/28/10	1422	944402

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: February 8, 2010

Client SDG: 10-1325-1

Client Sample ID: RE15-10-8420
Sample ID: 245113014
Matrix: R
Collect Date: 14-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 30.1%

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 21.0C	H	6.07	0.010	0.100	SU	1	EXF1	01/22/10	1111	944409	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	90.1	331	ug/kg	1	AXC2	01/28/10	1551	944403	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.413	1.38	mg/kg	1	GXM	01/31/10	0434	946562	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	GXM3	01/30/10	1040	946561
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/28/10	1422	944402

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: February 8, 2010

Page 1 of 3

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

Contact: Ms. Joylene Valdez

Workorder: 245113

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Electrode Analysis											
Batch	944409										
QC1202022307	245113001	DUP									
pH		H	6.34	H	6.35	SU	0.158	(0%-10%)	EXF1	01/22/10	10:26
QC1202022308	245113014	DUP									
pH		H	6.07	H	6.08	SU	0.165	(0%-10%)		01/22/10	11:16
QC1202022309	LCS										
pH	7.00				7.02	SU		100	(95%-105%)		01/22/10 10:23
Batch	945107										
QC1202024169	245383001	DUP									
pH		H	6.29	H	6.21	SU	1.28	(0%-10%)	EXF1	01/25/10	15:12
QC1202024170	245389010	DUP									
pH		H	7.05	H	7.06	SU	0.142	(0%-10%)		01/25/10	15:48
QC1202024171	LCS										
pH	7.00				6.99	SU		99.9	(95%-105%)		01/25/10 15:03
Flow Injection Analysis											
Batch	944401										
QC1202022283	245147008	DUP									
Cyanide, Total		J	139	U	ND	ug/kg	200 ^		AXC2	01/26/10	09:21
QC1202022284	245147009	DUP									
Cyanide, Total		J	93.0	U	ND	ug/kg	200 ^			01/26/10	09:25
QC1202022289	LCS										
Cyanide, Total	67900				60500	ug/kg		89.1	(46%-145%)		01/26/10 09:08
QC1202022282	MB										
Cyanide, Total				U	250	ug/kg					01/26/10 09:07
QC1202022285	245147008	MS									
Cyanide, Total	7310	J	139		7300	ug/kg		98	(50%-130%)		01/26/10 09:22
QC1202022286	245147009	MS									
Cyanide, Total	5400	J	93.0		5250	ug/kg		95.5	(50%-130%)		01/26/10 09:26
QC1202022287	245147008	MSD									
Cyanide, Total	7160	J	139		7120	ug/kg	2.48	97.5	(0%-30%)		01/26/10 09:23
QC1202022288	245147009	MSD									
Cyanide, Total	5400	J	93.0		5340	ug/kg	1.73	97.2	(0%-30%)		01/26/10 09:26
Batch	944403										
QC1202022291	245113011	DUP									
Cyanide, Total		U	ND	J	130	ug/kg	200	(+/-256)	AXC2	01/28/10	15:40
QC1202022292	245113012	DUP									
Cyanide, Total		J	121	U	ND	ug/kg	200 ^			01/28/10	15:47
QC1202022297	LCS										
Cyanide, Total	67900				79300	ug/kg		117	(46%-145%)		01/28/10 15:38
QC1202022290	MB										
Cyanide, Total				U	250	ug/kg					01/28/10 15:37
QC1202022293	245113011	MS									
Cyanide, Total	5320	U	ND		1970	ug/kg		36.6 *	(50%-130%)		01/28/10 15:50
QC1202022294	245113012	MS									

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QC Summary

Workorder: 245113

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	944403										
Cyanide, Total	5450	J	121	1980	ug/kg		34.2 *	(50%-130%)	AXC2	01/28/10	15:48
QC1202022295 245113011 MSD											
Cyanide, Total	5640	U	ND	2010	ug/kg	2.25	35.3 *	(0%-30%)		01/28/10	15:45
QC1202022296 245113012 MSD											
Cyanide, Total	5560	J	121	2400	ug/kg	19.0	41 *	(0%-30%)		01/28/10	15:49
Batch	944832										
QC1202023368 245113008 DUP											
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	01/28/10	15:08
QC1202023369 245138001 DUP											
Cyanide, Total		U	ND	U	ND	ug/kg	N/A			01/28/10	15:23
QC1202023374 LCS											
Cyanide, Total	67900			67000	ug/kg		98.7	(46%-145%)		01/28/10	15:02
QC1202023367 MB											
Cyanide, Total			U	250	ug/kg					01/28/10	15:01
QC1202023370 245113008 MS											
Cyanide, Total	4980	U	ND	4580	ug/kg		91.2	(50%-130%)		01/28/10	15:09
QC1202023371 245138001 MS											
Cyanide, Total	5440	U	ND	5710	ug/kg		105	(50%-130%)		01/28/10	15:24
QC1202023372 245113008 MSD											
Cyanide, Total	4800	U	ND	4530	ug/kg	1.02	93.7	(0%-30%)		01/28/10	15:10
QC1202023373 245138001 MSD											
Cyanide, Total	5130	U	ND	5490	ug/kg	3.94	107	(0%-30%)		01/28/10	15:25
Ion Chromatography											
Batch	946562										
QC1202027476 245113001 DUP											
Nitrate-N		U	ND	U	ND	mg/kg	N/A		GXM3	01/30/10	19:06
QC1202027477 245113014 DUP											
Nitrate-N		U	ND	U	ND	mg/kg	N/A			01/31/10	05:04
QC1202027482 LCS											
Nitrate-N	50.0			45.9	mg/kg		91.8	(90%-110%)		01/30/10	18:06
QC1202027475 MB											
Nitrate-N			U	1.00	mg/kg					01/30/10	17:36
QC1202027478 245113001 MS											
Nitrate-N	66.4	U	ND	59.2	mg/kg		89.1 *	(90%-110%)		01/30/10	19:36
QC1202027479 245113014 MS											
Nitrate-N	71.0	U	ND	62.6	mg/kg		88.1 *	(90%-110%)		01/31/10	05:34
QC1202027480 245113001 MSD											
Nitrate-N	66.4	U	ND	59.2	mg/kg	0.0449	89.1 *	(0%-20%)		01/30/10	20:05
QC1202027481 245113014 MSD											
Nitrate-N	71.0	U	ND	62.6	mg/kg	0.0386	88.2 *	(0%-20%)		01/31/10	06:04

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

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QC Summary

Workorder: 245113

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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										
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: 08-FEB-2010 18:17

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1325-1

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	26-JAN-2010 09:01:56	OM_1-26-2010_08-51-25	147	150	98	(90%-110%)	Yes
CCV	26-JAN-2010 09:16:14	OM_1-26-2010_08-51-25	101	100	101	(90%-110%)	Yes
CCV	26-JAN-2010 09:28:40	OM_1-26-2010_08-51-25	103	100	103	(90%-110%)	Yes
ICV	28-JAN-2010 14:24:36	OM_1-28-2010_14-14-06	152	150	101	(90%-110%)	Yes
CCV	28-JAN-2010 14:51:17	OM_1-28-2010_14-14-06	99.5	100	100	(90%-110%)	Yes
CCV	28-JAN-2010 15:03:41	OM_1-28-2010_14-14-06	100	100	100	(90%-110%)	Yes
CCV	28-JAN-2010 15:16:11	OM_1-28-2010_14-14-06	99.7	100	100	(90%-110%)	Yes
CCV	28-JAN-2010 15:28:41	OM_1-28-2010_14-14-06	99.6	100	100	(90%-110%)	Yes
CCV	28-JAN-2010 15:41:08	OM_1-28-2010_14-14-06	100	100	100	(90%-110%)	Yes
CCV	28-JAN-2010 15:53:43	OM_1-28-2010_14-14-06	100	100	100	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	26-JAN-2010 09:03:46	OM_1-26-2010_08-51-25	-1.27	5	Yes
CCB	26-JAN-2010 09:18:04	OM_1-26-2010_08-51-25	-1.21	5	Yes
CCB	26-JAN-2010 09:30:29	OM_1-26-2010_08-51-25	-1.63	5	Yes
ICB	28-JAN-2010 14:26:26	OM_1-28-2010_14-14-06	-0.499	5	Yes
CCB	28-JAN-2010 14:53:08	OM_1-28-2010_14-14-06	-1.08	5	Yes
CCB	28-JAN-2010 15:05:31	OM_1-28-2010_14-14-06	-0.436	5	Yes
CCB	28-JAN-2010 15:18:02	OM_1-28-2010_14-14-06	-0.423	5	Yes
CCB	28-JAN-2010 15:30:31	OM_1-28-2010_14-14-06	-0.256	5	Yes
CCB	28-JAN-2010 15:42:57	OM_1-28-2010_14-14-06	-0.239	5	Yes
CCB	28-JAN-2010 15:55:34	OM_1-28-2010_14-14-06	-1.4	5	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 08-FEB-2010 18:17

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1325-1

Ion Chromatography

Method: EPA 300.0

Concentration Units:mg/L

Instrument: Dionex ICS-3000 Ion Chromatograph

Parmname: Nitrate-N

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	30-JAN-2010 09:08:00	100130	4.636	5	93	(90%-110%)	Yes
CCV	30-JAN-2010 16:36:00	100130	4.5909	5	92	(90%-110%)	Yes
CCV	30-JAN-2010 21:35:00	100130	7.063	7.5	94	(90%-110%)	Yes
CCV	31-JAN-2010 02:04:00	100130	4.5917	5	92	(90%-110%)	Yes
CCV	31-JAN-2010 06:33:00	100130	7.0691	7.5	94	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	30-JAN-2010 09:38:00	100130	0	0.1	Yes
CCB	30-JAN-2010 17:06:00	100130	0	0.1	Yes
CCB	30-JAN-2010 22:05:00	100130	0	0.1	Yes
CCB	31-JAN-2010 02:34:00	100130	0	0.1	Yes
CCB	31-JAN-2010 07:03:00	100130	0	0.1	Yes

Cyanide, Total

Prep LogBook

Analyst: AXS5
 Batch: 944402
 Lab SOP: GL-GC-E-067 REV# 13

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202022297	URF1200957-01	.25	g
MS	1202022293	URF1184831-02	.025	mL
MS	1202022294	URF1184831-02	.025	mL
MSD	1202022295	URF1184831-02	.025	mL
MSD	1202022296	URF1184831-02	.025	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202022290		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.5 g	25 mL	50	SOIL
LCS	1202022297		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.25 g	25 mL	100	SOIL
SAMPLE	245113011		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.52 g	25 mL	48.07692	SOIL
DUP	1202022291	245113011	SW846 9010B Prep	28-JAN-2010 14:22	>12	0.55 g	25 mL	45.45455	SOIL
MS	1202022293	245113011	SW846 9010B Prep	28-JAN-2010 14:22	>12	0.53 g	25 mL	47.16981	SOIL
MSD	1202022295	245113011	SW846 9010B Prep	28-JAN-2010 14:22	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245113012		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.56 g	25 mL	44.64286	SOIL
DUP	1202022292	245113012	SW846 9010B Prep	28-JAN-2010 14:22	>12	0.53 g	25 mL	47.16981	SOIL
MS	1202022294	245113012	SW846 9010B Prep	28-JAN-2010 14:22	>12	0.51 g	25 mL	49.01961	SOIL
MSD	1202022296	245113012	SW846 9010B Prep	28-JAN-2010 14:22	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245113013		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	245113014		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245119001		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245119002		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.55 g	25 mL	45.45455	SOIL
SAMPLE	245119003		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245119004		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245119005		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.56 g	25 mL	44.64286	SOIL
SAMPLE	245119006		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245119007		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245119008		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	245119009		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.57 g	25 mL	43.85965	SOIL
SAMPLE	245119010		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245119011		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.56 g	25 mL	44.64286	SOIL
SAMPLE	245119012		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.57 g	25 mL	43.85965	SOIL
SAMPLE	245119013		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.58 g	25 mL	43.10345	SOIL
SAMPLE	245119014		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245119015		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.55 g	25 mL	45.45455	SOIL
SAMPLE	245119016		SW846 9010B Prep	28-JAN-2010 14:22	>12	0.5 g	25 mL	50	SOIL

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments:
091211-C	25 mL	0.25N Sodium Hydroxide Solution	
WCN100128-07	.0375 mL	150 ppb CN Distilled ICV Standard	
1176724-C	1.25 mL	0.8N H3NO3S	
1260189-C	2.5 mL	50% H2SO4 CN Prep	
1176778-C	1 mL	51% MgCl2 Soln	
1238142-C	1.25 mL	Bismuth Nitrate Solution	

Prep LogBook

Analyst: AXS5
 Batch: 944400
 Lab SOP: GL-GC-E-067 REV# 13

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202022289	URF1200957-01	.25	g
MS	1202022285	URF1184831-02	.025	mL
MS	1202022286	URF1184831-02	.025	mL
MSD	1202022287	URF1184831-02	.025	mL
MSD	1202022288	URF1184831-02	.025	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202022282		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.5 g	25 mL	50	SOIL
LCS	1202022289		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.25 g	25 mL	100	SOIL
SAMPLE	245113001		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245113002		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245113003		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.56 g	25 mL	44.64286	SOIL
SAMPLE	245113004		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245113005		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.56 g	25 mL	44.64286	SOIL
SAMPLE	245113006		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245113007		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245113009		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	245113010		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245147008		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981	SOIL
DUP	1202022283	245147008	SW846 9010B Prep	25-JAN-2010 16:02	>12	0.51 g	25 mL	49.01961	SOIL
MS	1202022285	245147008	SW846 9010B Prep	25-JAN-2010 16:02	>12	0.5 g	25 mL	50	SOIL
MSD	1202022287	245147008	SW846 9010B Prep	25-JAN-2010 16:02	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	245147009		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.52 g	25 mL	48.07692	SOIL
DUP	1202022284	245147009	SW846 9010B Prep	25-JAN-2010 16:02	>12	0.57 g	25 mL	43.85965	SOIL
MS	1202022286	245147009	SW846 9010B Prep	25-JAN-2010 16:02	>12	0.5 g	25 mL	50	SOIL
MSD	1202022288	245147009	SW846 9010B Prep	25-JAN-2010 16:02	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245147010		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245147011		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245147012		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.56 g	25 mL	44.64286	SOIL
SAMPLE	245147013		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245147014		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	245147015		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.55 g	25 mL	45.45455	SOIL
SAMPLE	245147016		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245147017		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245147018		SW846 9010B Prep	25-JAN-2010 16:02	>12	0.58 g	25 mL	43.10345	SOIL

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments
091211-C	25 mL	0.25N Sodium Hydroxide Solution	
WCN100125-07	.0375 mL	150 ppb CN Distilled ICV Standard	
1176724-C	1.25 mL	0.8N H3NO3S	
1238146-C	2.5 mL	50% H2SO4 CN Prep	
1176778-C	1 mL	51% MgCl2 Soln	
1238142-C	1.25 mL	Bismuth Nitrate Solution	

Prep LogBook

Analyst: AXS5
 Batch: 944831
 Lab SOP: GL-GC-E-067 REV# 13

Verified by: _____

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202023367		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.5 g	25 mL	50	25	g
LCS	1202023374		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.25 g	25 mL	100	.025	mL
SAMPLE	245113008		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.54 g	25 mL	46.2963	.025	mL
DUP	1202023368	245113008	SW846 9010B Prep	27-JAN-2010 16:02	>12	0.51 g	25 mL	49.01961	.025	mL
MS	1202023370	245113008	SW846 9010B Prep	27-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981	.025	mL
MSD	1202023372	245113008	SW846 9010B Prep	27-JAN-2010 16:02	>12	0.55 g	25 mL	45.45455	.025	mL
SAMPLE	245134002		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	245134003		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981		
SAMPLE	245134004		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.5 g	25 mL	50		
SAMPLE	245134005		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.52 g	25 mL	48.07692		
SAMPLE	245134006		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.55 g	25 mL	45.45455		
SAMPLE	245134007		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.52 g	25 mL	48.07692		
SAMPLE	245134008		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.5 g	25 mL	50		
SAMPLE	245134009		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.52 g	25 mL	48.07692		
SAMPLE	245134010		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.51 g	25 mL	49.01961		
SAMPLE	245138001		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981		
DUP	1202023369	245138001	SW846 9010B Prep	27-JAN-2010 16:02	>12	0.5 g	25 mL	50		
MS	1202023371	245138001	SW846 9010B Prep	27-JAN-2010 16:02	>12	0.5 g	25 mL	50		
MSD	1202023373	245138001	SW846 9010B Prep	27-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981		
SAMPLE	245138002		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.56 g	25 mL	44.64286		
SAMPLE	245383001		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.54 g	25 mL	46.2963		
SAMPLE	245383002		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.5 g	25 mL	50		
SAMPLE	245383003		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.57 g	25 mL	43.85965		
SAMPLE	245383004		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.56 g	25 mL	44.64286		
SAMPLE	245383005		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.53 g	25 mL	47.16981		
SAMPLE	245385001		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.51 g	25 mL	49.01961		
SAMPLE	245385002		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.5 g	25 mL	50		
SAMPLE	245385003		SW846 9010B Prep	27-JAN-2010 16:02	>12	0.54 g	25 mL	46.2963		

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments:
091211-C	25 mL	0.25N Sodium Hydroxide Solution	
WCN100127-07	.0375 mL	150 ppb CN Distilled ICV Standard	
1176724-C	1.25 mL	0.8N H3NO3S	
1260189-C	2.5 mL	50% H2SO4 CN Prep	
1176778-C	1 mL	51% MgCl2 Soln	
1238142-C	1.25 mL	Bismuth Nitrate Solution	

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	1/26/2010 8:54:47	OM_1-26-2010_08-51-25
150 ppb		1	axc2	1/26/2010 8:55:39	OM_1-26-2010_08-51-25
100 ppb		1	axc2	1/26/2010 8:56:31	OM_1-26-2010_08-51-25
50 ppb		1	axc2	1/26/2010 8:57:24	OM_1-26-2010_08-51-25
10 ppb		1	axc2	1/26/2010 8:58:18	OM_1-26-2010_08-51-25
CRDL 5.0 ppb		1	axc2	1/26/2010 8:59:11	OM_1-26-2010_08-51-25
ICAL-00		1	axc2	1/26/2010 9:00:05	OM_1-26-2010_08-51-25
ICV		1	axc2	1/26/2010 9:01:56	OM_1-26-2010_08-51-25
ICB		1	axc2	1/26/2010 9:03:46	OM_1-26-2010_08-51-25
CRDL		1	axc2	1/26/2010 9:05:36	OM_1-26-2010_08-51-25
1202022282	944401	1	axc2	1/26/2010 9:07:26	OM_1-26-2010_08-51-25
1202022289	944401	25	axc2	1/26/2010 9:08:19	OM_1-26-2010_08-51-25
245113001	944401	1	axc2	1/26/2010 9:09:13	OM_1-26-2010_08-51-25
245113002	944401	1	axc2	1/26/2010 9:10:06	OM_1-26-2010_08-51-25
245113003	944401	1	axc2	1/26/2010 9:10:59	OM_1-26-2010_08-51-25
245113004	944401	1	axc2	1/26/2010 9:11:51	OM_1-26-2010_08-51-25
245113005	944401	1	axc2	1/26/2010 9:12:44	OM_1-26-2010_08-51-25
245113006	944401	1	axc2	1/26/2010 9:13:37	OM_1-26-2010_08-51-25
245113007	944401	1	axc2	1/26/2010 9:14:29	OM_1-26-2010_08-51-25
245113009	944401	1	axc2	1/26/2010 9:15:22	OM_1-26-2010_08-51-25
CCV		1	axc2	1/26/2010 9:16:14	OM_1-26-2010_08-51-25
CCB		1	axc2	1/26/2010 9:18:04	OM_1-26-2010_08-51-25
245113010	944401	1	axc2	1/26/2010 9:19:52	OM_1-26-2010_08-51-25
245147008	944401	1	axc2	1/26/2010 9:20:45	OM_1-26-2010_08-51-25
1202022283	944401	1	axc2	1/26/2010 9:21:36	OM_1-26-2010_08-51-25
1202022285	944401	1	axc2	1/26/2010 9:22:28	OM_1-26-2010_08-51-25
1202022287	944401	1	axc2	1/26/2010 9:23:20	OM_1-26-2010_08-51-25
245147009	944401	1	axc2	1/26/2010 9:24:13	OM_1-26-2010_08-51-25
1202022284	944401	1	axc2	1/26/2010 9:25:07	OM_1-26-2010_08-51-25
1202022286	944401	1	axc2	1/26/2010 9:26:00	OM_1-26-2010_08-51-25
1202022288	944401	1	axc2	1/26/2010 9:26:53	OM_1-26-2010_08-51-25
245147010	944401	1	axc2	1/26/2010 9:27:47	OM_1-26-2010_08-51-25
CCV		1	axc2	1/26/2010 9:28:40	OM_1-26-2010_08-51-25
CCB		1	axc2	1/26/2010 9:30:29	OM_1-26-2010_08-51-25
245147011*	944401	1	axc2	1/26/2010 9:32:18	OM_1-26-2010_08-51-25
245147012*	944401	1	axc2	1/26/2010 9:33:11	OM_1-26-2010_08-51-25
245147013*	944401	1	axc2	1/26/2010 9:34:04	OM_1-26-2010_08-51-25
245147014*	944401	1	axc2	1/26/2010 9:34:56	OM_1-26-2010_08-51-25
245147015*	944401	1	axc2	1/26/2010 9:35:49	OM_1-26-2010_08-51-25
245147016*	944401	1	axc2	1/26/2010 9:36:41	OM_1-26-2010_08-51-25
245147017*	944401	1	axc2	1/26/2010 9:37:33	OM_1-26-2010_08-51-25
245147018*	944401	1	axc2	1/26/2010 9:38:26	OM_1-26-2010_08-51-25
1202022256*	944394	1	axc2	1/26/2010 9:39:18	OM_1-26-2010_08-51-25
1202022263*	944394	1	axc2	1/26/2010 9:40:09	OM_1-26-2010_08-51-25
CCV		1	axc2	1/26/2010 9:41:02	OM_1-26-2010_08-51-25
CCB		1	axc2	1/26/2010 9:42:53	OM_1-26-2010_08-51-25

Original Run Filename: OM_1-26-2010_08-51-25.OMN created 1/26/2010 08:51:25
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-26-2010_08-51-25.OMN last modified 1/26/2010 09:43:57
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN100126-01	1	S1	200	8.68	1/26/2010@08:54:47			200 ppb
WCN100126-02	1	S2	150	6.65	1/26/2010@08:55:39			150 ppb
WCN100126-03	1	S3	100	4.23	1/26/2010@08:56:31			100 ppb
WCN100126-04	1	S4	50.0	2.33	1/26/2010@08:57:24			50 ppb
WCN100126-05	1	S5	10.0	0.535	1/26/2010@08:58:18			10 ppb
WCN100126-06	1	S6	5.00	0.332	1/26/2010@08:59:11			CRDL 5.0 ppb
WCN100126-08	1	S7	0.00	0.0443	1/26/2010@09:00:05			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99965 > 0.99500					
Message			Pass					
Action			Continue					
WCN100126-07	1	S8	147	6.42	1/26/2010@09:01:56			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-1.9 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-1.9 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100126-08	1	S7	-1.27	0.0330	1/26/2010@09:03:46			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.27 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.27 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100126-06	1	S6	5.62	0.330	1/26/2010@09:05:36			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.62 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.62 > 2.50					
Message			Pass					
Action			None					
1202022282|944401|MB	1	1	-1.64	0.0171	1/26/2010@09:07:26			
1202022289|LCS	1	2	24.2	1.13	1/26/2010@09:08:19		25.00	
245113001	1	3	12.9	0.642	1/26/2010@09:09:13			
245113002	1	4	0.109	0.0924	1/26/2010@09:10:06			
245113003	1	5	-0.503	0.0660	1/26/2010@09:10:59			
245113004	1	6	-0.778	0.0541	1/26/2010@09:11:51			
245113005	1	7	0.853	0.124	1/26/2010@09:12:44			
245113006	1	8	-0.727	0.0563	1/26/2010@09:13:37			
245113007	1	9	0.715	0.118	1/26/2010@09:14:29			
245113009	1	10	0.323	0.102	1/26/2010@09:15:22			
WCN100126-03	1	S3	101	4.46	1/26/2010@09:16:14			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.5 < 10.0					
Message			CCV Passed					

		Action	Continue						
DQM Test: < - Percent Relative Difference									
		Result:	1.5 < 10.0						
		Message	CCV Passed						
		Action	Continue						
WCN100126-08	1	S7	-1.21	0.0353	1/26/2010@09:18:04			CCB	
		Known Conc:	0.00						
DQM Test: > + Concentration Limit									
		Result:	-1.21 < 5.00						
		Message	CCB Passed						
		Action	Continue						
DQM Test: < - Concentration Limit									
		Result:	-1.21 > -5.00						
		Message	CCB Passed						
		Action	Continue						
245113010	1	11	0.237	0.0979	1/26/2010@09:19:52				
245147008	1	12	2.01	0.174	1/26/2010@09:20:45				
1202022283||DUP	1	13	0.898	0.126	1/26/2010@09:21:36				
1202022285||MS	1	14	99.9	4.39	1/26/2010@09:22:28				
1202022287||MSD	1	15	99.4	4.37	1/26/2010@09:23:20				
245147009	1	16	1.79	0.165	1/26/2010@09:24:13				
1202022284||DUP	1	17	0.819	0.123	1/26/2010@09:25:07				
1202022286||MS	1	18	97.2	4.28	1/26/2010@09:26:00				
1202022288||MSD	1	19	98.9	4.35	1/26/2010@09:26:53				
245147010	1	20	-0.567	0.0633	1/26/2010@09:27:47				
WCN100126-03	1	S3	103	4.50	1/26/2010@09:28:40			CCV	
		Known Conc:	100						
DQM Test: > + Percent Relative Difference									
		Result:	2.5 < 10.0						
		Message	CCV Passed						
		Action	Continue						
DQM Test: < - Percent Relative Difference									
		Result:	2.5 < 10.0						
		Message	CCV Passed						
		Action	Continue						
WCN100126-08	1	S7	-1.63	0.0175	1/26/2010@09:30:29			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						
245147011	1	21	2.89	0.212	1/26/2010@09:32:18				
245147012	1	22	11.2	0.572	1/26/2010@09:33:11				
245147013	1	23	3.03	0.218	1/26/2010@09:34:04				
245147014	1	24	0.384	0.104	1/26/2010@09:34:56				
245147015	1	25	-0.655	0.0595	1/26/2010@09:35:49				
245147016	1	26	7.81	0.424	1/26/2010@09:36:41				
245147017	1	27	-0.657	0.0594	1/26/2010@09:37:33				
245147018	1	28	0.543	0.111	1/26/2010@09:38:26				
1202022256|944394|MB	1	29	-1.01	0.0440	1/26/2010@09:39:18				
1202022263||LCS	1	30	49.2	2.21	1/26/2010@09:40:09				
WCN100126-03	1	S3	103	4.54	1/26/2010@09:41:02			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						
WCN100126-08	1	S7	5.78	0.337	1/26/2010@09:42:53			CCB	
		Known Conc:	0.00						
DQM Test: > + Concentration Limit									

Result:	5.78 > 5.00					
Message	CCB Failed					
Action	Stop Run					
	DQM Test: < - Concentration Limit					
Result:	5.78 > -5.00					
Message	CCB Passed					
Action	Continue					

Analyte Properties Table for OM_1-26-2010_08-51-25.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

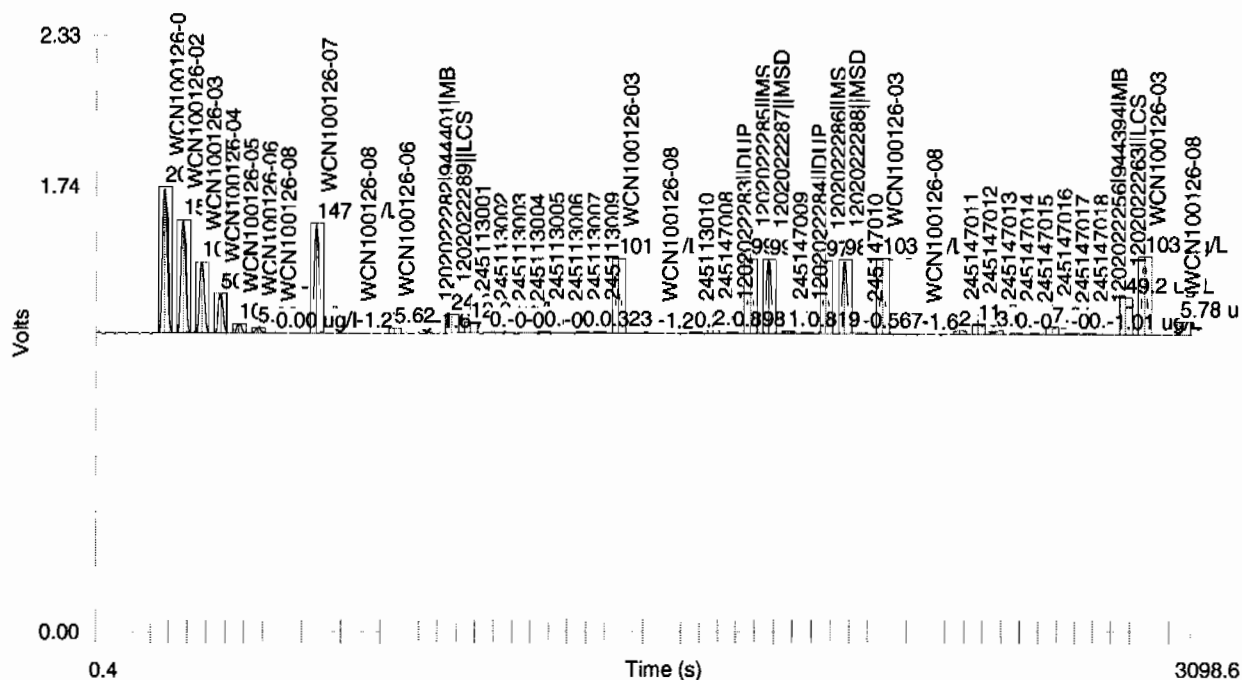
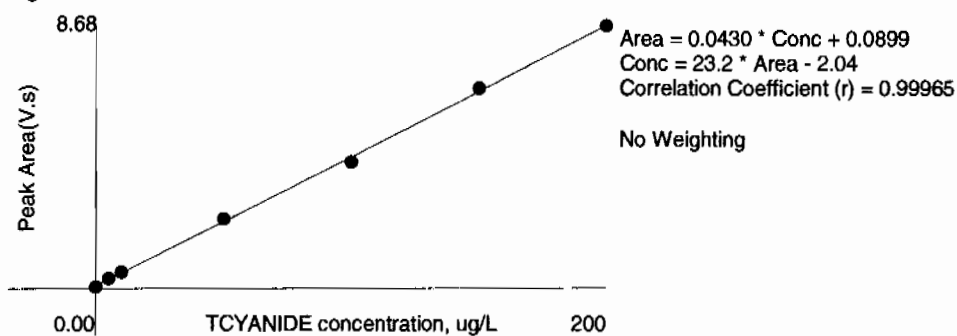


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.68	0.566	0.2	1/26/2010	08:55:50
2	150	1	6.65	0.437	-1.5	1/26/2010	08:56:42
3	100	1	4.23	0.275	3.8	1/26/2010	08:57:34
4	50.0	1	2.33	0.152	-3.8	1/26/2010	08:58:27
5	10.0	1	0.535	0.0337	-2.9	1/26/2010	08:59:21
6	5.00	1	0.332	0.0213	-8.8	1/26/2010	09:00:14
7	0.00	1	0.0443	8.65e-4		1/26/2010	09:01:08

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	1/28/2010 14:17:27	OM_1-28-2010_14-14-06
150 ppb		1	axc2	1/28/2010 14:18:18	OM_1-28-2010_14-14-06
100 ppb		1	axc2	1/28/2010 14:19:11	OM_1-28-2010_14-14-06
50 ppb		1	axc2	1/28/2010 14:20:04	OM_1-28-2010_14-14-06
10 ppb		1	axc2	1/28/2010 14:20:57	OM_1-28-2010_14-14-06
CRDL 5.0 ppb		1	axc2	1/28/2010 14:21:51	OM_1-28-2010_14-14-06
ICAL-00		1	axc2	1/28/2010 14:22:45	OM_1-28-2010_14-14-06
ICV		1	axc2	1/28/2010 14:24:36	OM_1-28-2010_14-14-06
ICB		1	axc2	1/28/2010 14:26:26	OM_1-28-2010_14-14-06
CRDL		1	axc2	1/28/2010 14:28:15	OM_1-28-2010_14-14-06
1202020922	943818	1	axc2	1/28/2010 14:30:04	OM_1-28-2010_14-14-06
1202020929	943818	25	axc2	1/28/2010 14:30:58	OM_1-28-2010_14-14-06
245093001	943818	1	axc2	1/28/2010 14:31:51	OM_1-28-2010_14-14-06
245134001	943818	1	axc2	1/28/2010 14:32:44	OM_1-28-2010_14-14-06
245144002	943818	1	axc2	1/28/2010 14:33:37	OM_1-28-2010_14-14-06
245144003	943818	1	axc2	1/28/2010 14:34:29	OM_1-28-2010_14-14-06
245144004	943818	1	axc2	1/28/2010 14:35:22	OM_1-28-2010_14-14-06
245144005	943818	1	axc2	1/28/2010 14:36:15	OM_1-28-2010_14-14-06
245144006	943818	1	axc2	1/28/2010 14:37:07	OM_1-28-2010_14-14-06
245144007	943818	1	axc2	1/28/2010 14:37:59	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010 14:38:52	OM_1-28-2010_14-14-06
CCB		1	axc2	1/28/2010 14:40:42	OM_1-28-2010_14-14-06
245144008	943818	1	axc2	1/28/2010 14:42:31	OM_1-28-2010_14-14-06
245144009	943818	1	axc2	1/28/2010 14:43:22	OM_1-28-2010_14-14-06
245144010	943818	1	axc2	1/28/2010 14:44:14	OM_1-28-2010_14-14-06
245144011	943818	1	axc2	1/28/2010 14:45:06	OM_1-28-2010_14-14-06
245144012	943818	1	axc2	1/28/2010 14:45:58	OM_1-28-2010_14-14-06
245144013	943818	1	axc2	1/28/2010 14:46:51	OM_1-28-2010_14-14-06
245144014	943818	1	axc2	1/28/2010 14:47:45	OM_1-28-2010_14-14-06
245144015	943818	1	axc2	1/28/2010 14:48:38	OM_1-28-2010_14-14-06
245144016	943818	1	axc2	1/28/2010 14:49:32	OM_1-28-2010_14-14-06
245144017	943818	1	axc2	1/28/2010 14:50:24	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010 14:51:17	OM_1-28-2010_14-14-06
CCB		1	axc2	1/28/2010 14:53:08	OM_1-28-2010_14-14-06
245151001	943818	1	axc2	1/28/2010 14:54:56	OM_1-28-2010_14-14-06
1202020923	943818	1	axc2	1/28/2010 14:55:50	OM_1-28-2010_14-14-06
1202020925	943818	1	axc2	1/28/2010 14:56:42	OM_1-28-2010_14-14-06
1202020927	943818	1	axc2	1/28/2010 14:57:35	OM_1-28-2010_14-14-06
245151002	943818	1	axc2	1/28/2010 14:58:27	OM_1-28-2010_14-14-06
1202020924	943818	1	axc2	1/28/2010 14:59:20	OM_1-28-2010_14-14-06
1202020926	943818	1	axc2	1/28/2010 15:00:12	OM_1-28-2010_14-14-06
1202020928	943818	1	axc2	1/28/2010 15:01:04	OM_1-28-2010_14-14-06
1202023367	944832	1	axc2	1/28/2010 15:01:56	OM_1-28-2010_14-14-06
1202023374	944832	25	axc2	1/28/2010 15:02:48	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010 15:03:41	OM_1-28-2010_14-14-06
CCB		1	axc2	1/28/2010 15:05:31	OM_1-28-2010_14-14-06
245113008	944832	1	axc2	1/28/2010 15:07:21	OM_1-28-2010_14-14-06
1202023368	944832	1	axc2	1/28/2010 15:08:15	OM_1-28-2010_14-14-06
1202023370	944832	1	axc2	1/28/2010 15:09:09	OM_1-28-2010_14-14-06
1202023372	944832	1	axc2	1/28/2010 15:10:01	OM_1-28-2010_14-14-06
245134002	944832	1	axc2	1/28/2010 15:10:55	OM_1-28-2010_14-14-06
245134003	944832	1	axc2	1/28/2010 15:11:47	OM_1-28-2010_14-14-06
245134004	944832	1	axc2	1/28/2010 15:12:41	OM_1-28-2010_14-14-06
245134005	944832	1	axc2	1/28/2010 15:13:33	OM_1-28-2010_14-14-06
245134006	944832	1	axc2	1/28/2010 15:14:27	OM_1-28-2010_14-14-06
245134007	944832	1	axc2	1/28/2010 15:15:20	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010 15:16:11	OM_1-28-2010_14-14-06
CCB		1	axc2	1/28/2010 15:18:02	OM_1-28-2010_14-14-06

245134008	944832	1	axc2	1/28/2010	15:19:51	OM_1-28-2010_14-14-06
245134009	944832	1	axc2	1/28/2010	15:20:43	OM_1-28-2010_14-14-06
245134010	944832	1	axc2	1/28/2010	15:21:35	OM_1-28-2010_14-14-06
245138001	944832	1	axc2	1/28/2010	15:22:28	OM_1-28-2010_14-14-06
1202023369	944832	1	axc2	1/28/2010	15:23:19	OM_1-28-2010_14-14-06
1202023371	944832	1	axc2	1/28/2010	15:24:14	OM_1-28-2010_14-14-06
1202023373	944832	1	axc2	1/28/2010	15:25:08	OM_1-28-2010_14-14-06
245138002	944832	1	axc2	1/28/2010	15:26:01	OM_1-28-2010_14-14-06
245383001	944832	1	axc2	1/28/2010	15:26:55	OM_1-28-2010_14-14-06
245383002	944832	1	axc2	1/28/2010	15:27:49	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010	15:28:41	OM_1-28-2010_14-14-06
CCB		1	axc2	1/28/2010	15:30:31	OM_1-28-2010_14-14-06
245383003	944832	1	axc2	1/28/2010	15:32:20	OM_1-28-2010_14-14-06
245383004	944832	1	axc2	1/28/2010	15:33:14	OM_1-28-2010_14-14-06
245383005	944832	1	axc2	1/28/2010	15:34:07	OM_1-28-2010_14-14-06
245385001	944832	1	axc2	1/28/2010	15:35:00	OM_1-28-2010_14-14-06
245385002	944832	1	axc2	1/28/2010	15:35:52	OM_1-28-2010_14-14-06
245385003	944832	1	axc2	1/28/2010	15:36:45	OM_1-28-2010_14-14-06
1202022290	944403	1	axc2	1/28/2010	15:37:38	OM_1-28-2010_14-14-06
1202022297	944403	25	axc2	1/28/2010	15:38:30	OM_1-28-2010_14-14-06
245113011	944403	1	axc2	1/28/2010	15:39:23	OM_1-28-2010_14-14-06
1202022291	944403	1	axc2	1/28/2010	15:40:14	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010	15:41:08	OM_1-28-2010_14-14-06
CCB		1	axc2	1/28/2010	15:42:57	OM_1-28-2010_14-14-06
1202022293	944403	1	axc2	1/28/2010	15:44:48	OM_1-28-2010_14-14-06
1202022295	944403	1	axc2	1/28/2010	15:45:42	OM_1-28-2010_14-14-06
245113012	944403	1	axc2	1/28/2010	15:46:36	OM_1-28-2010_14-14-06
1202022292	944403	1	axc2	1/28/2010	15:47:30	OM_1-28-2010_14-14-06
1202022294	944403	1	axc2	1/28/2010	15:48:23	OM_1-28-2010_14-14-06
1202022296	944403	1	axc2	1/28/2010	15:49:17	OM_1-28-2010_14-14-06
1202022293	944403	1	axc2	1/28/2010	15:50:11	OM_1-28-2010_14-14-06
245113013	944403	1	axc2	1/28/2010	15:51:06	OM_1-28-2010_14-14-06
245113014	944403	1	axc2	1/28/2010	15:51:58	OM_1-28-2010_14-14-06
245119001	944403	1	axc2	1/28/2010	15:52:51	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010	15:53:43	OM_1-28-2010_14-14-06
CCB		1	axc2	1/28/2010	15:55:34	OM_1-28-2010_14-14-06
245119002	944403	1	axc2	1/28/2010	15:57:23	OM_1-28-2010_14-14-06
245119003	944403	1	axc2	1/28/2010	15:58:15	OM_1-28-2010_14-14-06
245119004	944403	1	axc2	1/28/2010	15:59:08	OM_1-28-2010_14-14-06
245119005	944403	1	axc2	1/28/2010	16:00:01	OM_1-28-2010_14-14-06
245119006	944403	1	axc2	1/28/2010	16:00:53	OM_1-28-2010_14-14-06
245119007	944403	1	axc2	1/28/2010	16:01:45	OM_1-28-2010_14-14-06
245119008	944403	1	axc2	1/28/2010	16:02:40	OM_1-28-2010_14-14-06
245119009	944403	1	axc2	1/28/2010	16:03:34	OM_1-28-2010_14-14-06
245119010	944403	1	axc2	1/28/2010	16:04:28	OM_1-28-2010_14-14-06
245119011	944403	1	axc2	1/28/2010	16:05:22	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010	16:06:15	OM_1-28-2010_14-14-06
CCB		1	axc2	1/28/2010	16:08:05	OM_1-28-2010_14-14-06
245119012	944403	1	axc2	1/28/2010	16:09:55	OM_1-28-2010_14-14-06
245119013	944403	1	axc2	1/28/2010	16:10:48	OM_1-28-2010_14-14-06
245119014	944403	1	axc2	1/28/2010	16:11:42	OM_1-28-2010_14-14-06
245119015	944403	1	axc2	1/28/2010	16:12:35	OM_1-28-2010_14-14-06
245119016	944403	1	axc2	1/28/2010	16:13:28	OM_1-28-2010_14-14-06
245119011	944403	2	axc2	1/28/2010	16:14:23	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010	16:15:16	OM_1-28-2010_14-14-06
245119014	944403	2	axc2	1/28/2010	16:17:06	OM_1-28-2010_14-14-06
CCV		1	axc2	1/28/2010	16:17:58	OM_1-28-2010_14-14-06
CCB		1	axc2	1/28/2010	16:19:48	OM_1-28-2010_14-14-06

Original Run Filename: OM_1-28-2010_14-14-06.OMN created 1/28/2010 14:14:06
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-28-2010_14-14-06.OMN last modified 1/28/2010 16:20:53
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE					
			Conc. (ug/L)	Area (Vs)				
WCN100128-01	1	S1	200	7.62	1/28/2010@14:17:27			200 ppb
WCN100128-02	1	S2	150	5.78	1/28/2010@14:18:18			150 ppb
WCN100128-03	1	S3	100	3.49	1/28/2010@14:19:11			100 ppb
WCN100128-04	1	S4	50.0	2.00	1/28/2010@14:20:04			50 ppb
WCN100128-05	1	S5	10.0	0.489	1/28/2010@14:20:57			10 ppb
WCN100128-06	1	S6	5.00	0.283	1/28/2010@14:21:51			CRDL 5.0 ppb
WCN100128-08	1	S7	0.00	-0.00460	1/28/2010@14:22:45			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99883 > 0.99500					
Message			Pass					
Action			Continue					
WCN100128-07	1	S8	152	5.77	1/28/2010@14:24:36			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			1.4 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			1.4 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100128-08	1	S7	-0.499	0.0163	1/28/2010@14:26:26			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.499 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.499 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100128-06	1	S6	6.84	0.293	1/28/2010@14:28:15			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			6.84 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			6.84 > 2.50					
Message			Pass					
Action			None					
1202020922|943818|MB	1	1	-0.367	0.0213	1/28/2010@14:30:04			
1202020929|LCS	1	2	27.1	1.06	1/28/2010@14:30:58		25.00	
245093001	1	3	1.25	0.0824	1/28/2010@14:31:51			
245134001	1	4	0.105	0.0391	1/28/2010@14:32:44			
245144002	1	5	-0.390	0.0204	1/28/2010@14:33:37			
245144003	1	6	-0.310	0.0234	1/28/2010@14:34:29			
245144004	1	7	-0.308	0.0235	1/28/2010@14:35:22			
245144005	1	8	-0.414	0.0195	1/28/2010@14:36:15			
245144006	1	9	-1.05	-0.00433	1/28/2010@14:37:07			
245144007	1	10	-0.0973	0.0315	1/28/2010@14:37:59			
WCN100128-03	1	S3	98.5	3.75	1/28/2010@14:38:52			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-1.5 < 10.0					
Message			CCV Passed					

Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-1.5 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100128-08	1	S7	-0.102	0.0313	1/28/2010@14:40:42			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.102 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.102 > -5.00					
Message			CCB Passed					
Action			Continue					
245144008	1	11	-0.158	0.0292	1/28/2010@14:42:31			
245144009	1	12	-0.192	0.0279	1/28/2010@14:43:22			
245144010	1	13	-0.484	0.0169	1/28/2010@14:44:14			
245144011	1	14	-0.169	0.0288	1/28/2010@14:45:06			
245144012	1	15	-0.342	0.0223	1/28/2010@14:45:58			
245144013	1	16	-0.427	0.0191	1/28/2010@14:46:51			
245144014	1	17	-0.0995	0.0314	1/28/2010@14:47:45			
245144015	1	18	-0.936	-1.47e-4	1/28/2010@14:48:38			
245144016	1	19	1.67	0.0980	1/28/2010@14:49:32			
245144017	1	20	0.152	0.0409	1/28/2010@14:50:24			
WCN100128-03	1	S3	99.5	3.79	1/28/2010@14:51:17			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-0.5 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.5 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100128-08	1	S7	-1.08	-0.00547	1/28/2010@14:53:08			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.08 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.08 > -5.00					
Message			CCB Passed					
Action			Continue					
245151001	1	21	-0.269	0.0250	1/28/2010@14:54:56			
1202020923|DUP	1	22	-0.281	0.0246	1/28/2010@14:55:50			
1202020925|MS	1	23	104	3.97	1/28/2010@14:56:42			
1202020927|MSD	1	24	105	4.01	1/28/2010@14:57:35			
245151002	1	25	0.451	0.0522	1/28/2010@14:58:27			
1202020924|DUP	1	26	0.0905	0.0386	1/28/2010@14:59:20			
1202020926|MS	1	27	99.1	3.77	1/28/2010@15:00:12			
1202020928|MSD	1	28	101	3.85	1/28/2010@15:01:04			
1202023367|944832|MB	1	29	-0.397	0.0202	1/28/2010@15:01:56			
1202023374|LCS	1	30	26.8	1.05	1/28/2010@15:02:48		25.00	
WCN100128-03	1	S3	100	3.81	1/28/2010@15:03:41			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.0 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.0 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100128-08	1	S7	-0.436	0.0187	1/28/2010@15:05:31			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								

			Result:	-0.436 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-0.436 > -5.00				
			Message	CCB Passed				
			Action	Continue				
245113008	1	31		0.698	0.0614	1/28/2010@15:07:21		
1202023368	DUP	1	32	0.935	0.0704	1/28/2010@15:08:15		
1202023370	MS	1	33	91.9	3.50	1/28/2010@15:09:09		
1202023372	MSD	1	34	94.4	3.59	1/28/2010@15:10:01		
245134002		1	35	-0.229	0.0265	1/28/2010@15:10:55		
245134003		1	36	1.24	0.0818	1/28/2010@15:11:47		
245134004		1	37	3.06	0.151	1/28/2010@15:12:41		
245134005		1	38	-0.196	0.0278	1/28/2010@15:13:33		
245134006		1	39	-0.111	0.0310	1/28/2010@15:14:27		
245134007		1	40	0.0799	0.0382	1/28/2010@15:15:20		
WCN100128-03		1	S3	99.7	3.79	1/28/2010@15:16:11		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	-0.3 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	-0.3 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100128-08		1	S7	-0.423	0.0192	1/28/2010@15:18:02		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-0.423 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-0.423 > -5.00				
			Message	CCB Passed				
			Action	Continue				
245134008		1	41	-0.249	0.0258	1/28/2010@15:19:51		
245134009		1	42	0.241	0.0442	1/28/2010@15:20:43		
245134010		1	43	0.860	0.0676	1/28/2010@15:21:35		
245138001		1	44	0.399	0.0502	1/28/2010@15:22:28		
1202023369	DUP	1	45	0.326	0.0475	1/28/2010@15:23:19		
1202023371	MS	1	46	105	3.98	1/28/2010@15:24:14		
1202023373	MSD	1	47	107	4.05	1/28/2010@15:25:08		
245138002		1	48	0.179	0.0419	1/28/2010@15:26:01		
245383001		1	49	0.331	0.0476	1/28/2010@15:26:55		
245383002		1	50	5.02	0.224	1/28/2010@15:27:49		
WCN100128-03		1	S3	99.6	3.79	1/28/2010@15:28:41		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	-0.4 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	-0.4 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100128-08		1	S7	-0.256	0.0255	1/28/2010@15:30:31		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-0.256 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-0.256 > -5.00				
			Message	CCB Passed				
			Action	Continue				
245383003		1	51	1.12	0.0774	1/28/2010@15:32:20		

245383004	1	52	0.314	0.0470	1/28/2010@15:33:14			
245383005	1	53	-0.0313	0.0340	1/28/2010@15:34:07			
245385001	1	54	0.240	0.0442	1/28/2010@15:35:00			
245385002	1	55	-0.203	0.0275	1/28/2010@15:35:52			
245385003	1	56	1.13	0.0778	1/28/2010@15:36:45			
1202022290|944403|MB	1	57	0.258	0.0449	1/28/2010@15:37:38			
1202022297||LCS	1	58	31.7	1.23	1/28/2010@15:38:30	25.00		
245113011	1	59	0.439	0.0517	1/28/2010@15:39:23			
1202022291||DUP	1	60	2.53	0.131	1/28/2010@15:40:14			
WCN100128-03	1	S3	100	3.81	1/28/2010@15:41:08			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.1 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.1 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100128-08	1	S7	-0.239	0.0261	1/28/2010@15:42:57			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.239 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.239 > -5.00					
Message			CCB Passed					
Action			Continue					
1202022293|MS	1	61	44.9	1.73	1/28/2010@15:44:48			
1202022295|MSD	1	62	35.7	1.38	1/28/2010@15:45:42			
245113012	1	63	2.44	0.127	1/28/2010@15:46:36			
1202022292|DUP	1	64	0.670	0.0604	1/28/2010@15:47:30			
1202022294|MS	1	65	36.4	1.41	1/28/2010@15:48:23			
1202022296|MSD	1	66	43.2	1.66	1/28/2010@15:49:17			
1202022293|MS	1	61	37.0	1.43	1/28/2010@15:50:11			
245113013	1	67	0.453	0.0522	1/28/2010@15:51:06			
245113014	1	68	0.544	0.0557	1/28/2010@15:51:58			
245119001	1	69	-0.191	0.0279	1/28/2010@15:52:51			
WCN100128-03	1	S3	100	3.81	1/28/2010@15:53:43			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.1 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.1 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100128-08	1	S7	-1.40	-0.0175	1/28/2010@15:55:34			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.40 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.40 > -5.00					
Message			CCB Passed					
Action			Continue					
245119002	1	70	0.959	0.0713	1/28/2010@15:57:23			
245119003	1	71	1.76	0.102	1/28/2010@15:58:15			
245119004	1	72	0.504	0.0542	1/28/2010@15:59:08			
245119005	1	73	0.659	0.0600	1/28/2010@16:00:01			
245119006	1	74	0.418	0.0509	1/28/2010@16:00:53			
245119007	1	75	0.0380	0.0366	1/28/2010@16:01:45			
245119008	1	76	-0.0746	0.0323	1/28/2010@16:02:40			
245119009	1	77	1.35	0.0859	1/28/2010@16:03:34			
245119010	1	78	0.903	0.0692	1/28/2010@16:04:28			

245119011	1	79	20.2	0.796	1/28/2010@16:05:22			
WCN100128-03	1	S3	100	3.80	1/28/2010@16:06:15			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-0.0 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.0 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100128-08	1	S7	0.751	0.0635	1/28/2010@16:08:05			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.751 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.751 > -5.00					
Message			CCB Passed					
Action			Continue					
245119012	1	80	5.54	0.244	1/28/2010@16:09:55			
245119013	1	81	4.60	0.209	1/28/2010@16:10:48			
245119014	1	82	26.2	1.02	1/28/2010@16:11:42			
245119015	1	83	1.43	0.0890	1/28/2010@16:12:35			
245119016	1	84	1.77	0.102	1/28/2010@16:13:28			
245119011	1	79	24.3	0.952	1/28/2010@16:14:23		2.00	
WCN100128-03	1	S3	99.9	3.80	1/28/2010@16:15:16			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-0.1 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.1 < 10.0					
Message			CCV Passed					
Action			Continue					
245119014	1	82	30.6	1.19	1/28/2010@16:17:06		2.00	
WCN100128-03	1	S3	100	3.82	1/28/2010@16:17:58			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100128-08	1	S7	-0.259	0.0254	1/28/2010@16:19:48			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.259 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.259 > -5.00					
Message			CCB Passed					
Action			Continue					

Analyte Properties Table for OM_1-28-2010_14-14-06.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

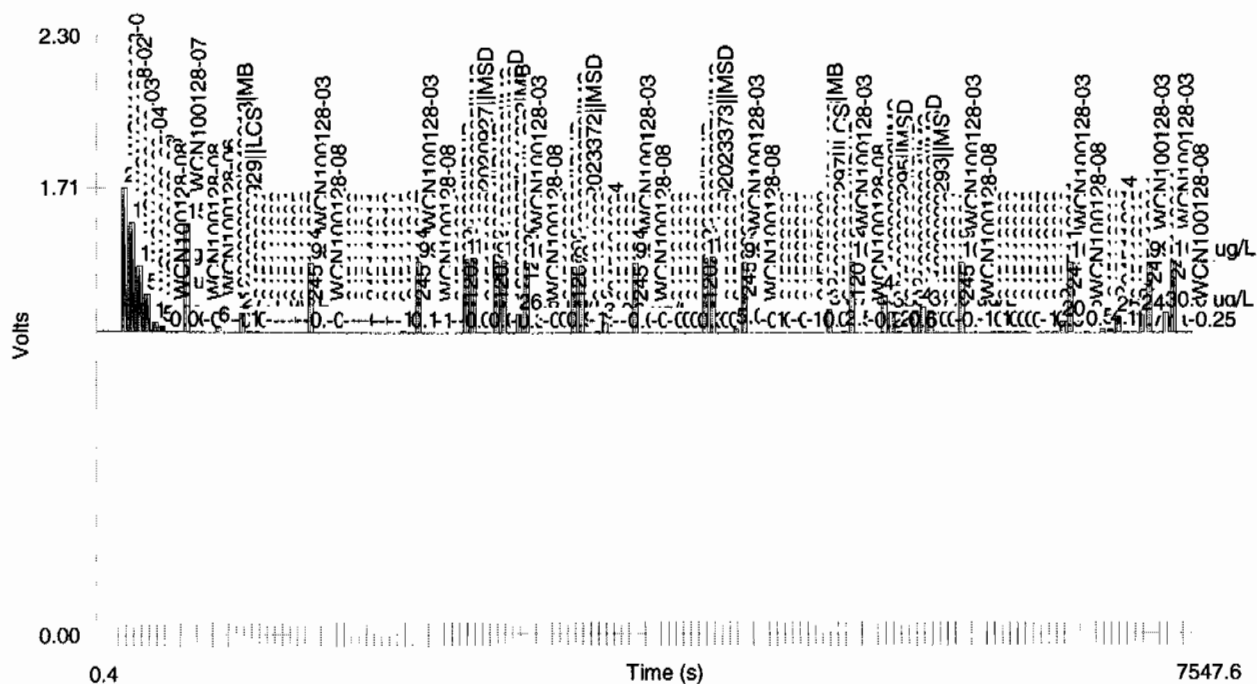
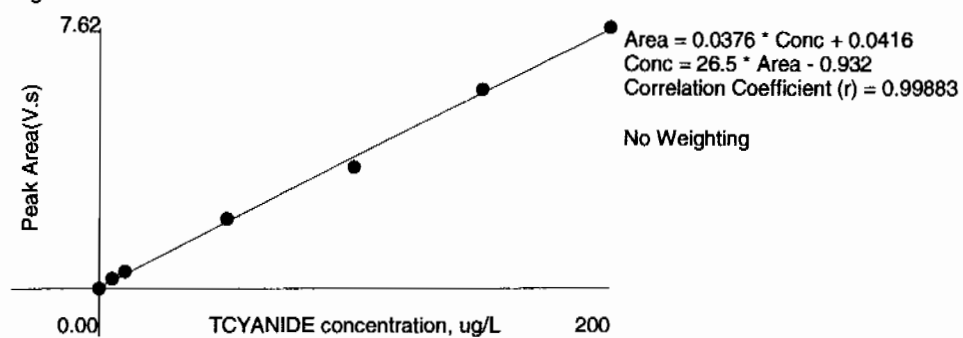


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	7.62	0.545	-0.8	1/28/2010	14:18:29
2	150	1	5.78	0.411	-1.7	1/28/2010	14:19:22
3	100	1	3.49	0.249	8.1	1/28/2010	14:20:14
4	50.0	1	2.00	0.143	-3.9	1/28/2010	14:21:07
5	10.0	1	0.489	0.0341	-17.0	1/28/2010	14:22:00
6	5.00	1	0.283	0.0200	-23.3	1/28/2010	14:22:54
7	0.00	1	-0.00460	-0.00126		1/28/2010	14:23:48

Figure 1: TCYANIDE



Ion Chromatography

Prep LogBook

Analyst: GXM3
 Batch: 946561
 Lab SOP: GL-GC-E-086 REV# 17

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202027482	UIC100123SPK-1	.8	mL
MS	1202027478	UIC100123SPK-1	.8	mL
MS	1202027479	UIC100123SPK-1	.8	mL
MSD	1202027480	UIC100123SPK-1	.8	mL
MSD	1202027481	UIC100123SPK-1	.8	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202027475		EPA 300.0 PREP	30-JAN-2010 10:40	4 g	40 mL	10	SOIL
LCS	1202027482		EPA 300.0 PREP	30-JAN-2010 10:40	4 g	40 mL	10	SOIL
SAMPLE	245113001		EPA 300.0 PREP	30-JAN-2010 10:40	4.03 g	40 mL	9.92556	SOIL
DUP	1202027476	245113001	EPA 300.0 PREP	30-JAN-2010 10:40	4.03 g	40 mL	9.92556	SOIL
MS	1202027478	245113001	EPA 300.0 PREP	30-JAN-2010 10:40	4.01 g	40 mL	9.97506	SOIL
MSD	1202027480	245113001	EPA 300.0 PREP	30-JAN-2010 10:40	4.01 g	40 mL	9.97506	SOIL
SAMPLE	245113002		EPA 300.0 PREP	30-JAN-2010 10:40	4.07 g	40 mL	9.82801	SOIL
SAMPLE	245113003		EPA 300.0 PREP	30-JAN-2010 10:40	4.04 g	40 mL	9.90099	SOIL
SAMPLE	245113004		EPA 300.0 PREP	30-JAN-2010 10:40	4 g	40 mL	10	SOIL
SAMPLE	245113005		EPA 300.0 PREP	30-JAN-2010 10:40	4 g	40 mL	10	SOIL
SAMPLE	245113006		EPA 300.0 PREP	30-JAN-2010 10:40	4.04 g	40 mL	9.90099	SOIL
SAMPLE	245113007		EPA 300.0 PREP	30-JAN-2010 10:40	4.03 g	40 mL	9.92556	SOIL
SAMPLE	245113008		EPA 300.0 PREP	30-JAN-2010 10:40	4.07 g	40 mL	9.82801	SOIL
SAMPLE	245113009		EPA 300.0 PREP	30-JAN-2010 10:40	4.04 g	40 mL	9.90099	SOIL
SAMPLE	245113010		EPA 300.0 PREP	30-JAN-2010 10:40	4 g	40 mL	10	SOIL
SAMPLE	245113011		EPA 300.0 PREP	30-JAN-2010 10:40	4 g	40 mL	10	SOIL
SAMPLE	245113012		EPA 300.0 PREP	30-JAN-2010 10:40	4.01 g	40 mL	9.97506	SOIL
SAMPLE	245113013		EPA 300.0 PREP	30-JAN-2010 10:40	4 g	40 mL	10	SOIL
SAMPLE	245113014		EPA 300.0 PREP	30-JAN-2010 10:40	4.16 g	40 mL	9.61538	SOIL
DUP	1202027477	245113014	EPA 300.0 PREP	30-JAN-2010 10:40	4.16 g	40 mL	9.61538	SOIL
MS	1202027479	245113014	EPA 300.0 PREP	30-JAN-2010 10:40	4.03 g	40 mL	9.92556	SOIL
MSD	1202027481	245113014	EPA 300.0 PREP	30-JAN-2010 10:40	4.03 g	40 mL	9.92556	SOIL

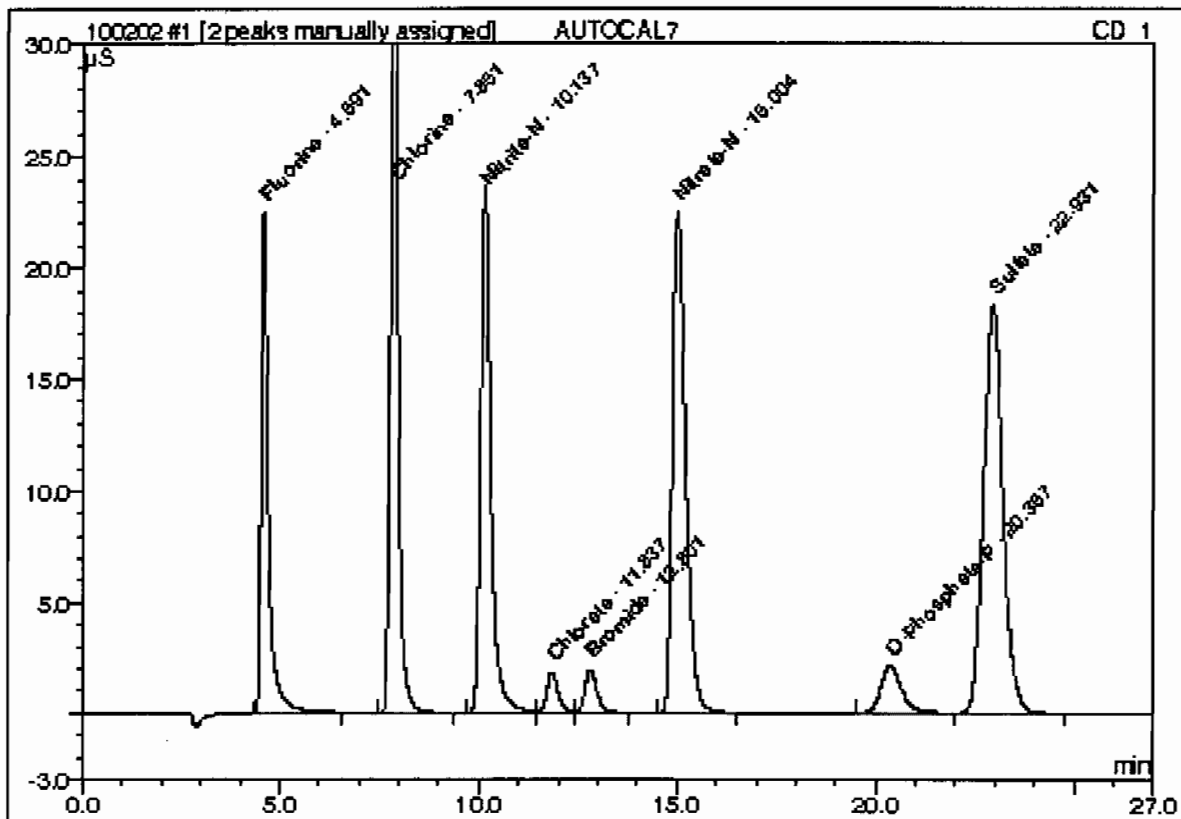
Comments.

This is runlog for Sequence 100130.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
ICAL-07	01/20/10 14:18		1	100130	GXM3
ICAL-06	01/20/10 14:48		1	100130	GXM3
ICAL-05	01/20/10 15:18		1	100130	GXM3
ICAL-04	01/20/10 15:48		1	100130	GXM3
ICAL-03	01/20/10 16:18		1	100130	GXM3
ICAL-02	01/20/10 16:48		1	100130	GXM3
ICAL-01	01/20/10 17:18		1	100130	GXM3

1 AUTOCAL7

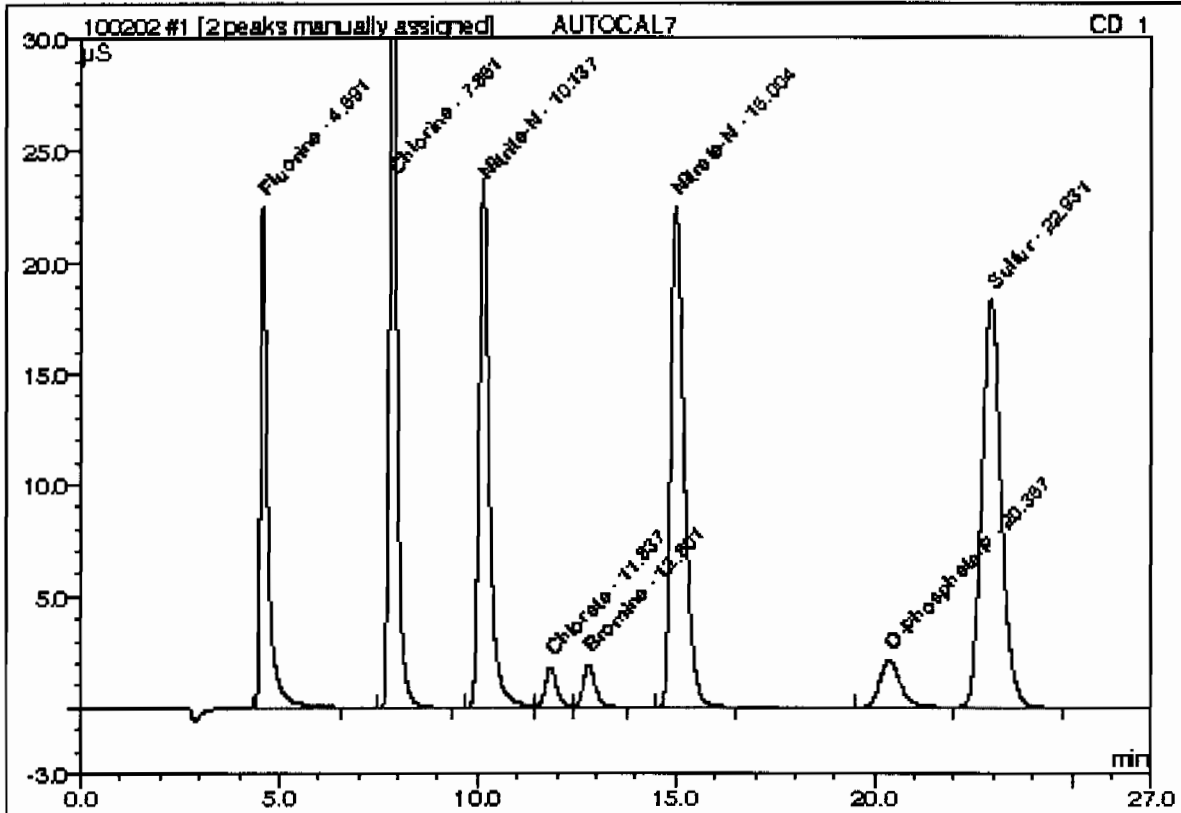
Sample Name:	AUTOCAL7	Injection Volume:	50.0
Vial Number:	2	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 14:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.59	Fluorine	10.0000	10.1192		4.74802	11.53
2	7.86	Chlorine	20.0000	20.3942		7.53536	18.29
3	10.14	Nitrite-N	10.0000	10.1198		6.99786	16.99
4	11.84	Chlorate	5.0000	5.0633		0.61212	1.49
5	12.80	Bromide	5.0000	5.0408		0.67011	1.63
6	15.00	Nitrate-N	10.0000	10.1732		8.87368	21.54
7	20.36	O-Phosphate-P	5.0000	5.0583		1.26749	3.08
8	22.93	Sulfate	40.0000	40.5883		10.48876	25.46
Total:				106.5571	0.000	41.193	100.00

1 AUTOCAL7

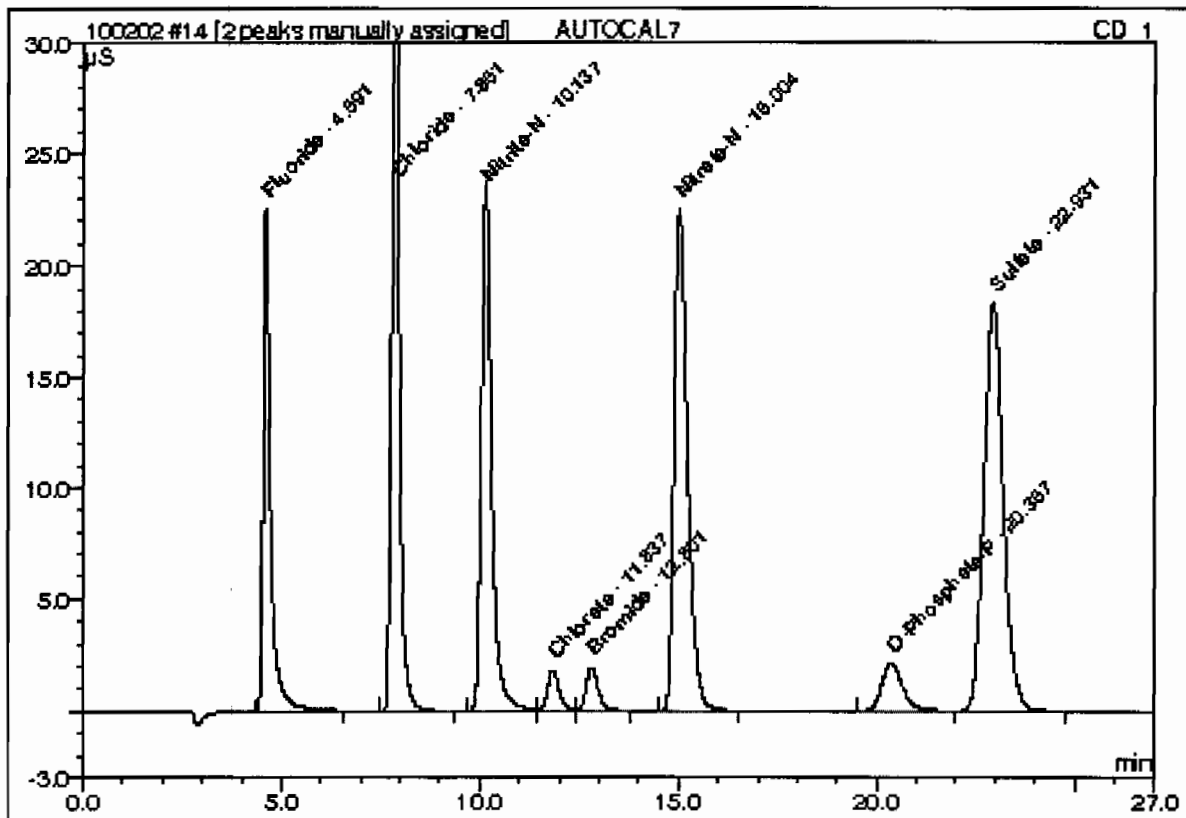
Sample Name:	AUTOCAL7	Injection Volume:	50.0
Vial Number:	2	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 14:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.59	Fluorine	10.0000	10.1192		4.74802	11.53
2	7.86	Chlorine	20.0000	20.3942		7.53536	18.29
3	10.14	Nitrite-N	10.0000	10.1198		6.99786	16.99
4	11.84	Chlorate	5.0000	5.0633		0.61212	1.49
5	12.80	Bromine	5.0000	5.0408		0.67011	1.63
6	15.00	Nitrate-N	10.0000	10.1732		8.87368	21.54
7	20.36	O-Phosphate-P	5.0000	5.0583		1.26749	3.08
8	22.93	Sulfur	13.3320	13.5281		10.48876	25.46
Total:				79.4968	0.000	41.193	100.00

14 AUTOCAL7

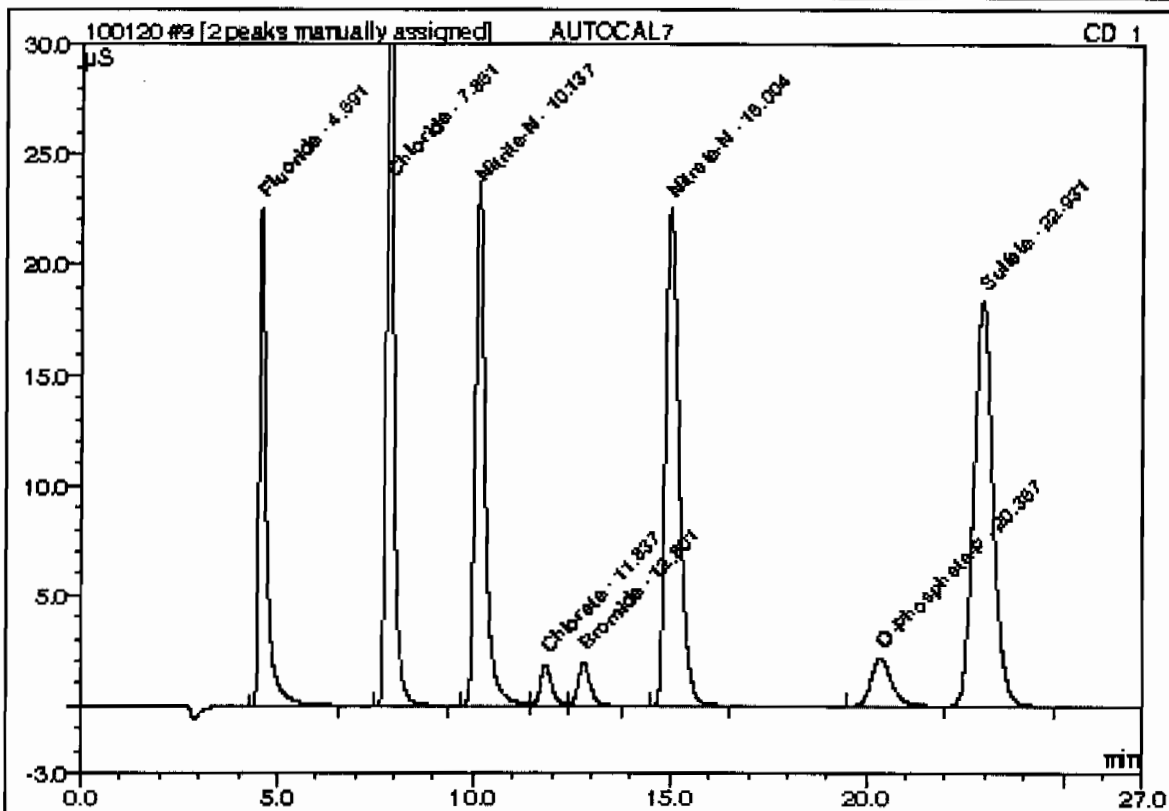
Sample Name:	AUTOCAL7	Injection Volume:	50.0
Vial Number:	2	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 14:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.59	Fluoride	10.0000	10.1192		4.74802	11.53
2	7.86	Chloride	20.0000	20.3942		7.53536	18.29
3	10.14	Nitrite-N	10.0000	10.1198		6.99786	16.99
4	11.84	Chlorate	5.0000	5.0633		0.61212	1.49
5	12.80	Bromide	5.0000	5.0408		0.67011	1.63
6	15.00	Nitrate-N	10.0000	10.1732		8.87368	21.54
7	20.36	O-Phosphate-P	5.0000	5.0583		1.26749	3.08
8	22.93	Sulfate	40.0000	40.5883		10.48876	25.46
Total:				106.5571	0.000	41.193	100.00

9 AUTOCAL7

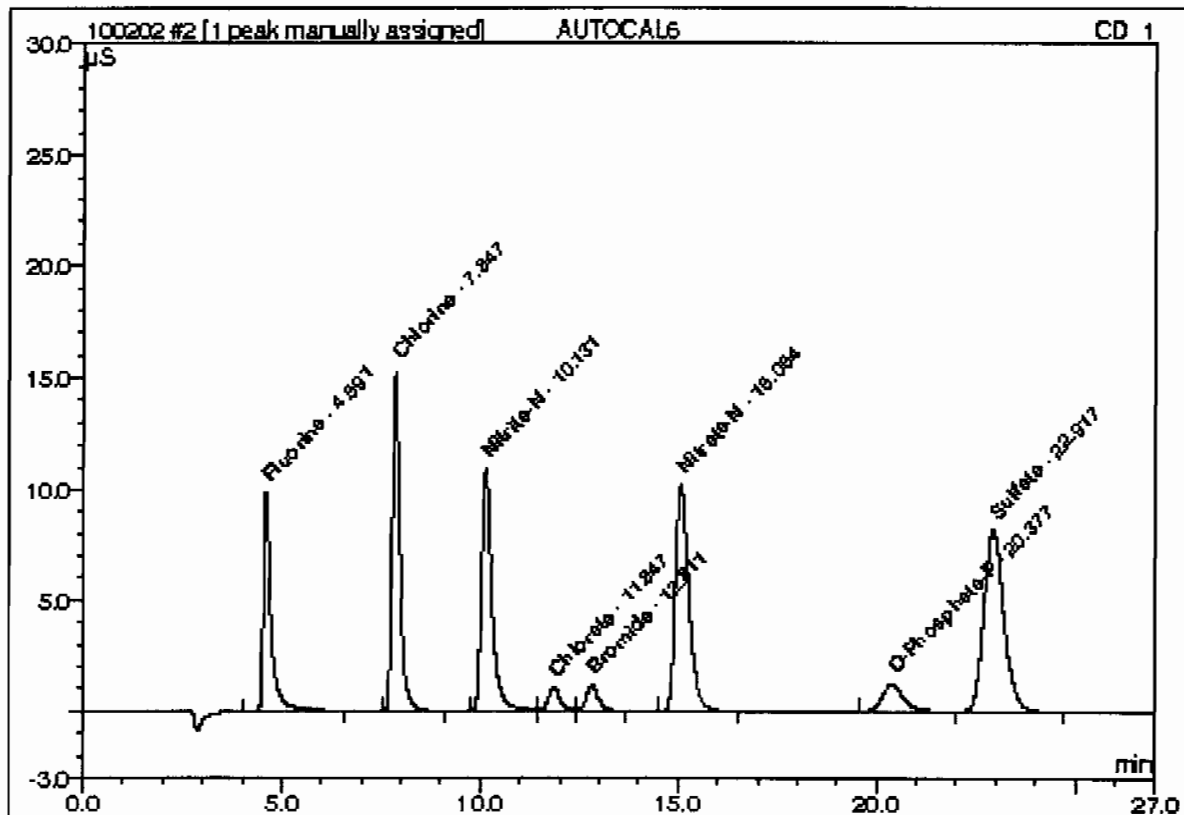
Sample Name:	AUTOCAL7	Injection Volume:	50.0
Vial Number:	2	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 14:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC BD86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %
1	4.59	Fluoride	10.0000	10.1192		4.74802	11.53
2	7.86	Chloride	20.0000	20.3942		7.53536	18.29
3	10.14	Nitrite-N	10.0000	10.1198		6.99788	16.99
4	11.84	Chlorate	5.0000	5.0633		0.61212	1.49
5	12.80	Bromide	5.0000	5.0408		0.67011	1.63
6	15.00	Nitrate-N	10.0000	10.1732		8.87368	21.54
7	20.36	O-Phosphate-P	5.0000	5.0583		1.26749	3.08
8	22.93	Sulfate	40.0000	40.5883		10.48876	25.46
Total:				106.5571	0.000	41.193	100.00

2 AUTOCAL6

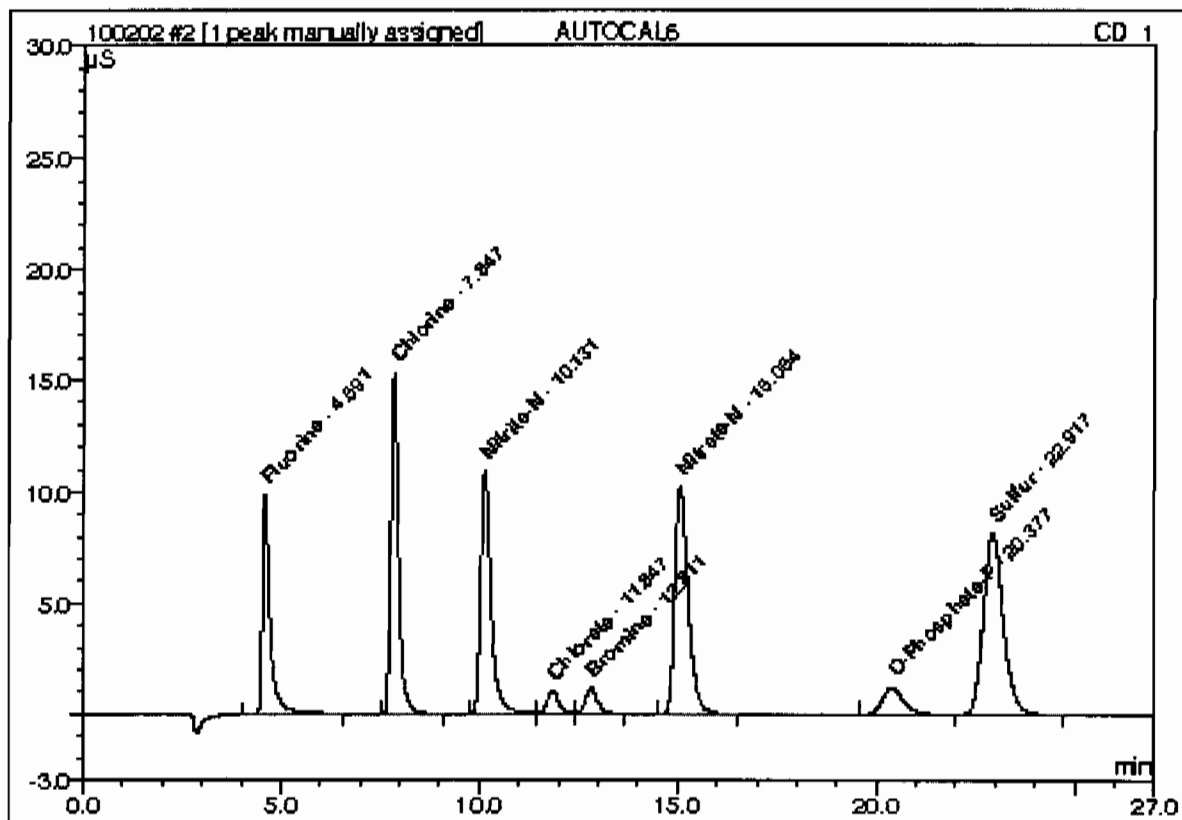
Sample Name:	AUTOCAL6	Injection Volume:	50.0
Vial Number:	3	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 14:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.59	Fluorine	5.0000	4.7694		2.22199	11.58
2	7.85	Chlorine	10.0000	9.2330		3.38077	17.62
3	10.13	Nitrite-N	5.0000	4.7695		3.26902	17.03
4	11.85	Chlorate	3.0000	2.9491		0.35453	1.85
5	12.81	Bromide	3.0000	2.9578		0.39136	2.04
6	15.06	Nitrate-N	5.0000	4.6637		4.02092	20.95
7	20.38	O-Phosphate-P	3.0000	2.9465		0.72644	3.79
8	22.92	Sulfate	20.0000	18.8436		4.82696	25.15
Total:				51.1328	0.000	19.192	100.00

2 AUTOCAL6

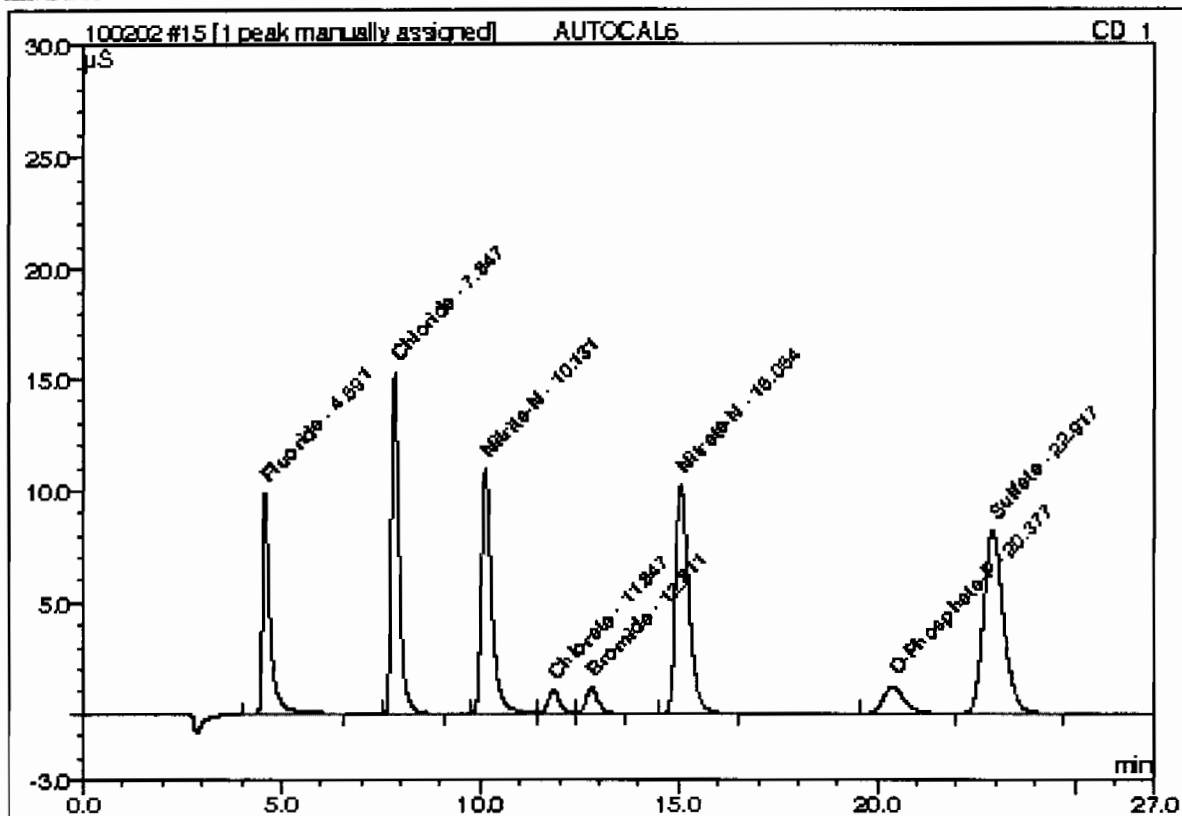
Sample Name:	AUTOCAL6	Injection Volume:	50.0
Vial Number:	3	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 14:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.59	Fluorine	5.0000	4.7694		2.22199	11.58
2	7.85	Chlorine	10.0000	9.2330		3.38077	17.62
3	10.13	Nitrite-N	5.0000	4.7695		3.26902	17.03
4	11.85	Chlorate	3.0000	2.9491		0.35453	1.85
5	12.81	Bromine	3.0000	2.9578		0.39136	2.04
6	15.08	Nitrate-N	5.0000	4.6637		4.02092	20.95
7	20.38	O-Phosphate-P	3.0000	2.9465		0.72644	3.79
8	22.92	Sulfur	6.6660	6.2806		4.82696	25.15
Total:				38.5697	0.000	19.192	100.00

15 AUTOCAL6

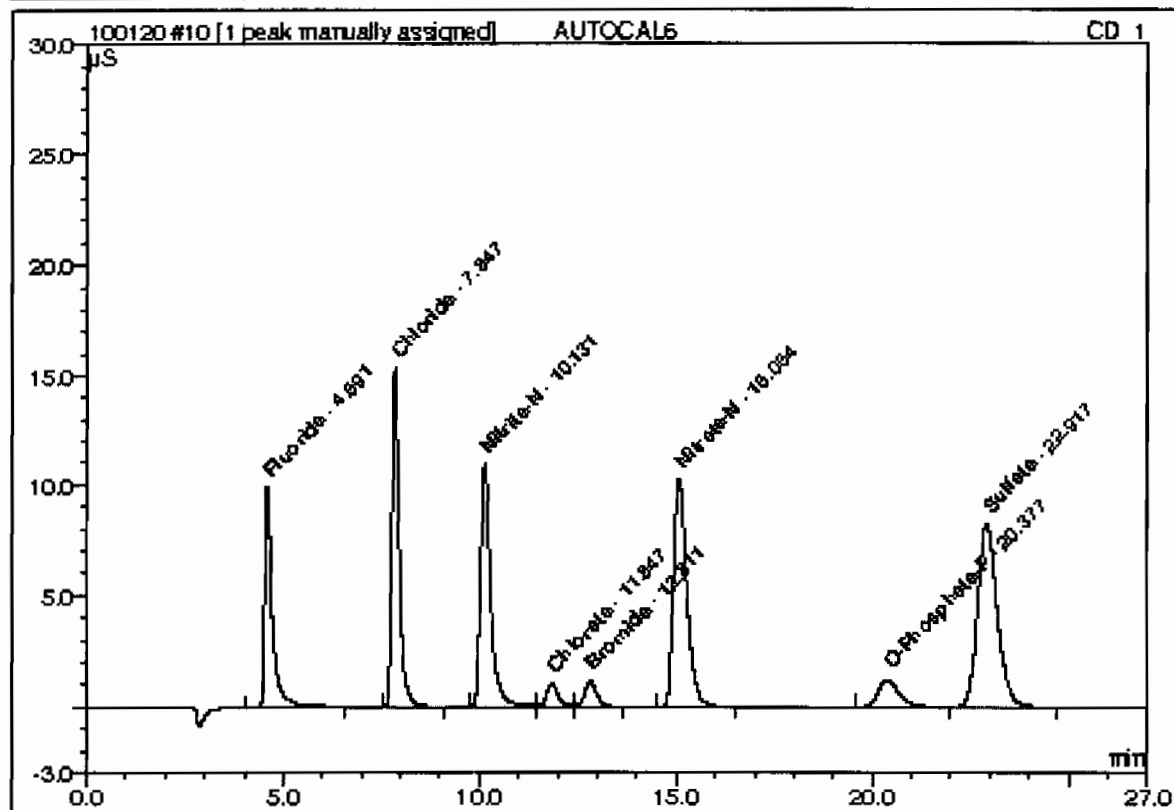
Sample Name:	AUTOCAL6	Injection Volume:	50.0
Vial Number:	3	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 14:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.59	Fluoride	5.0000	4.7694		2.22199	11.58
2	7.85	Chloride	10.0000	9.2330		3.38077	17.62
3	10.13	Nitrite-N	5.0000	4.7695		3.26902	17.03
4	11.85	Chlorate	3.0000	2.9491		0.35453	1.85
5	12.81	Bromide	3.0000	2.9578		0.39136	2.04
6	15.06	Nitrate-N	5.0000	4.6637		4.02092	20.95
7	20.38	O-Phosphate-P	3.0000	2.9465		0.72644	3.79
8	22.92	Sulfate	20.0000	18.8436		4.82696	25.15
Total:				51.1328	0.000	19.192	100.00

10 AUTOCAL6

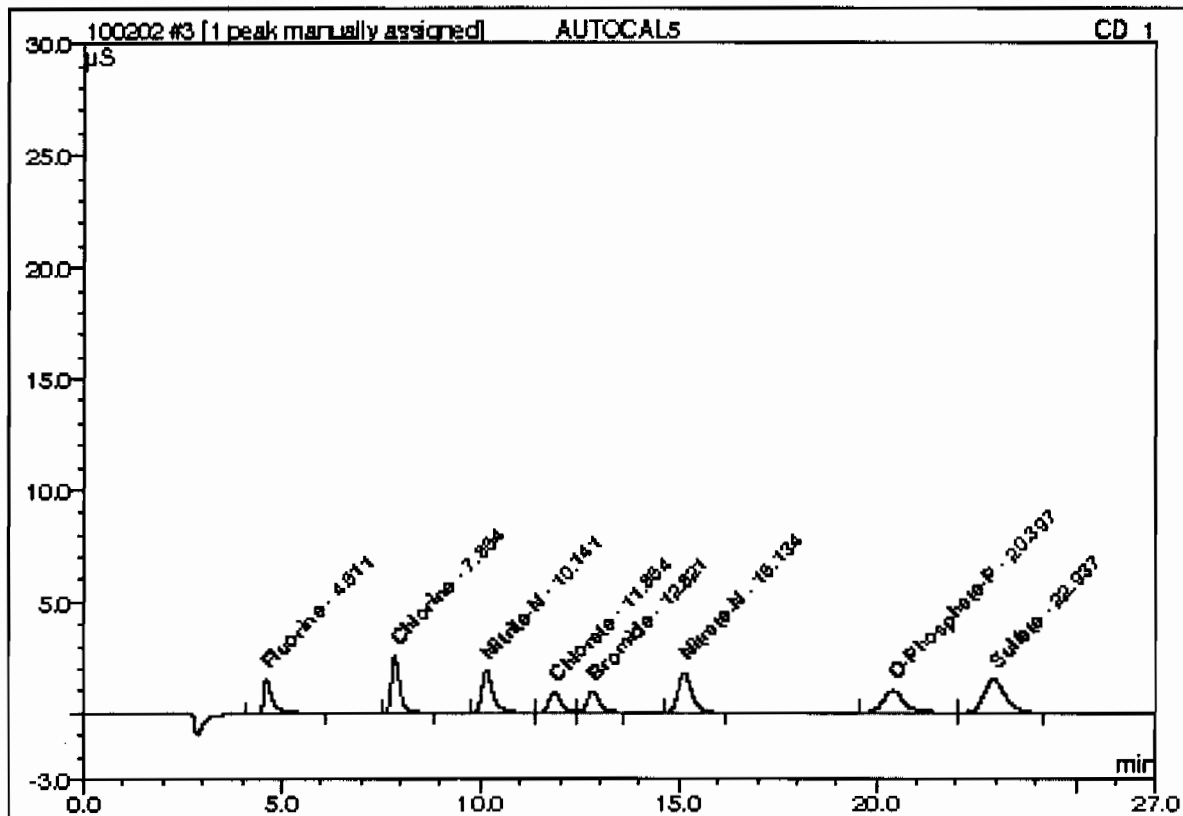
Sample Name:	AUTOCAL6	Injection Volume:	50.0
Vial Number:	3	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 14:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.59	Fluoride	5.0000	4.7694		2.22199	11.58
2	7.85	Chloride	10.0000	9.2330		3.38077	17.62
3	10.13	Nitrite-N	5.0000	4.7695		3.26902	17.03
4	11.85	Chlorate	3.0000	2.9491		0.35453	1.85
5	12.81	Bromide	3.0000	2.9578		0.39136	2.04
6	15.06	Nitrate-N	5.0000	4.6637		4.02092	20.95
7	20.38	O-Phosphate-P	3.0000	2.9465		0.72644	3.79
8	22.92	Sulfate	20.0000	18.8438		4.82896	25.15
Total:				51.1328	0.000	19.192	100.00

3 AUTOCAL5

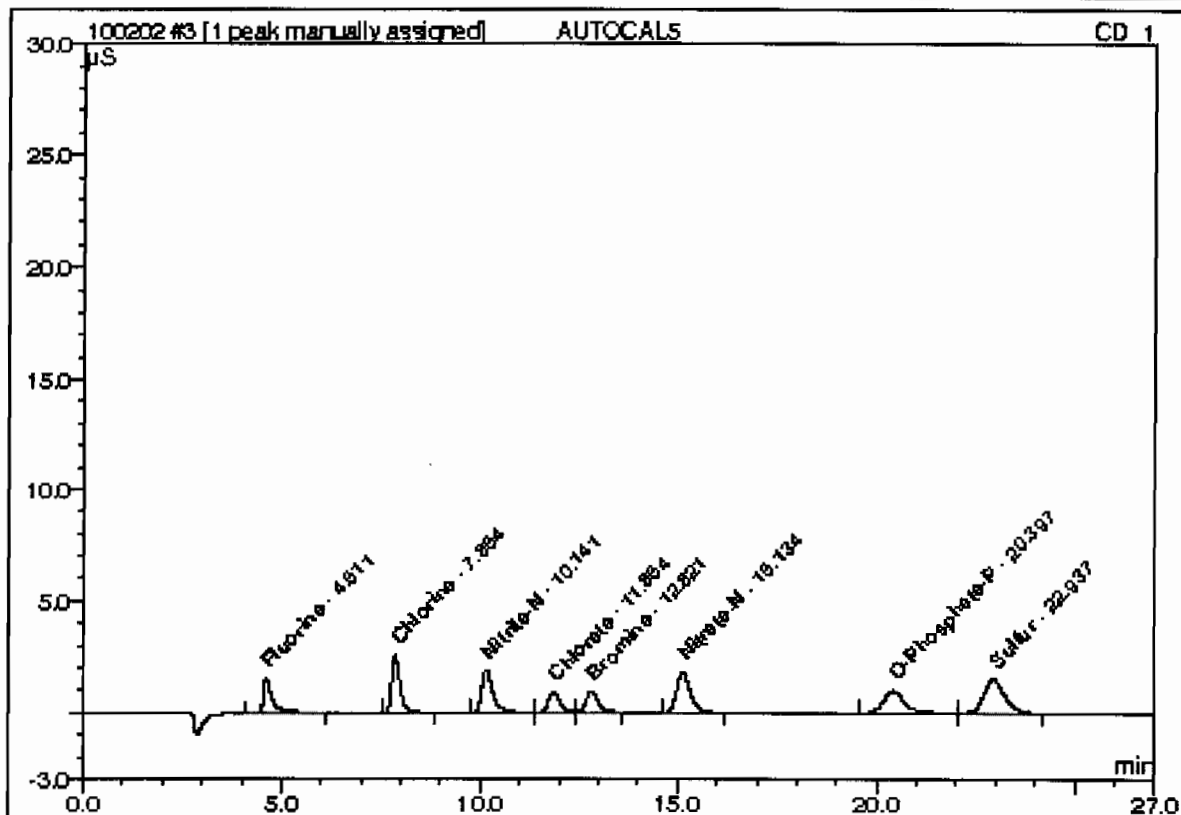
Sample Name:	AUTOCAL5	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 15:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.81	Fluorine	1.0000	0.9486		0.41792	9.28
2	7.85	Chlorine	2.0000	1.8063		0.61629	13.69
3	10.14	Nitrite-N	1.0000	0.9388		0.59924	13.31
4	11.85	Chlorate	2.5000	2.4398		0.29248	6.49
5	12.82	Bromide	2.5000	2.4752		0.32676	7.26
6	15.13	Nitrate-N	1.0000	0.9233		0.72636	16.13
7	20.40	O-Phosphate-P	2.5000	2.4887		0.60913	13.53
8	22.94	Sulfate	4.0000	3.8197		0.91508	20.32
Total:				15.8403	0.000	4.503	100.00

3 AUTOCAL5

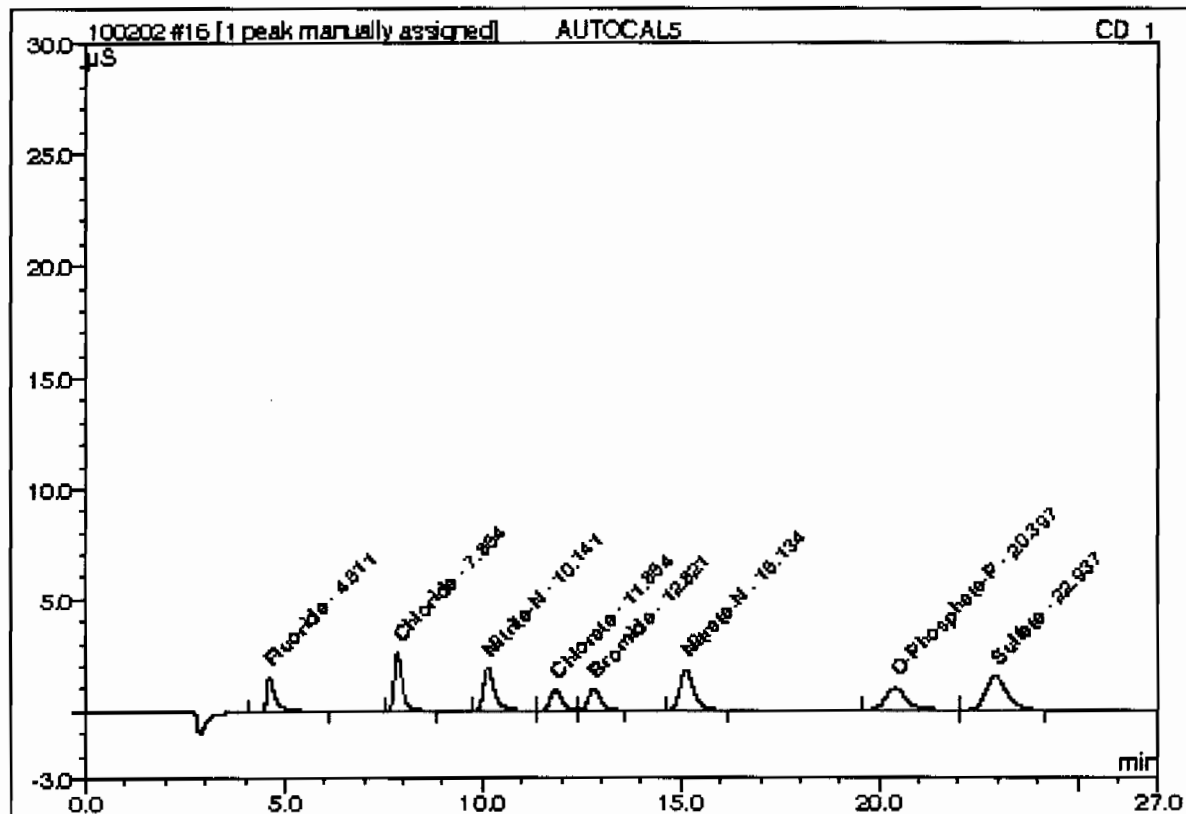
Sample Name:	AUTOCAL5	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 15:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.61	Fluorine	1.0000	0.9486		0.41792	9.28
2	7.85	Chlorine	2.0000	1.8063		0.61629	13.69
3	10.14	Nitrite-N	1.0000	0.9388		0.59924	13.31
4	11.85	Chlorate	2.5000	2.4398		0.29248	6.49
5	12.82	Bromine	2.5000	2.4752		0.32676	7.26
6	15.13	Nitrate-N	1.0000	0.9233		0.72636	16.13
7	20.40	O-Phosphate-P	2.5000	2.4887		0.60913	13.53
8	22.94	Sulfur	1.3332	1.2731		0.91508	20.32
Total:				13.2937	0.000	4.503	100.00

16 AUTOCAL5

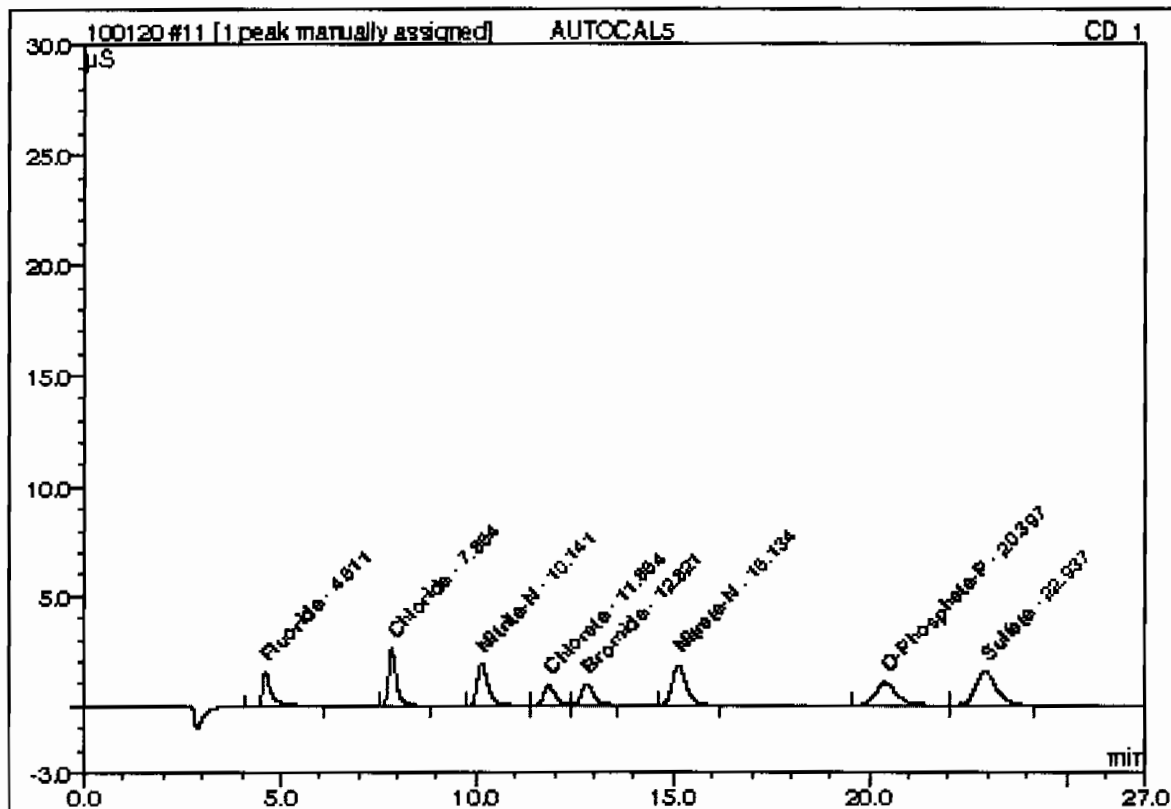
Sample Name:	AUTOCAL5	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 15:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.61	Fluoride	1.0000	0.9486		0.41792	9.28
2	7.85	Chloride	2.0000	1.8063		0.61629	13.69
3	10.14	Nitrate-N	1.0000	0.9388		0.59924	13.31
4	11.85	Chlorate	2.5000	2.4398		0.29248	6.49
5	12.82	Bromide	2.5000	2.4752		0.32676	7.26
6	15.13	Nitrate-N	1.0000	0.9233		0.72636	16.13
7	20.40	O-Phosphate-P	2.5000	2.4887		0.60913	13.53
8	22.94	Sulfate	4.0000	3.8197		0.91508	20.32
Total:				15.8403	0.000	4.503	100.00

11 AUTOCAL5

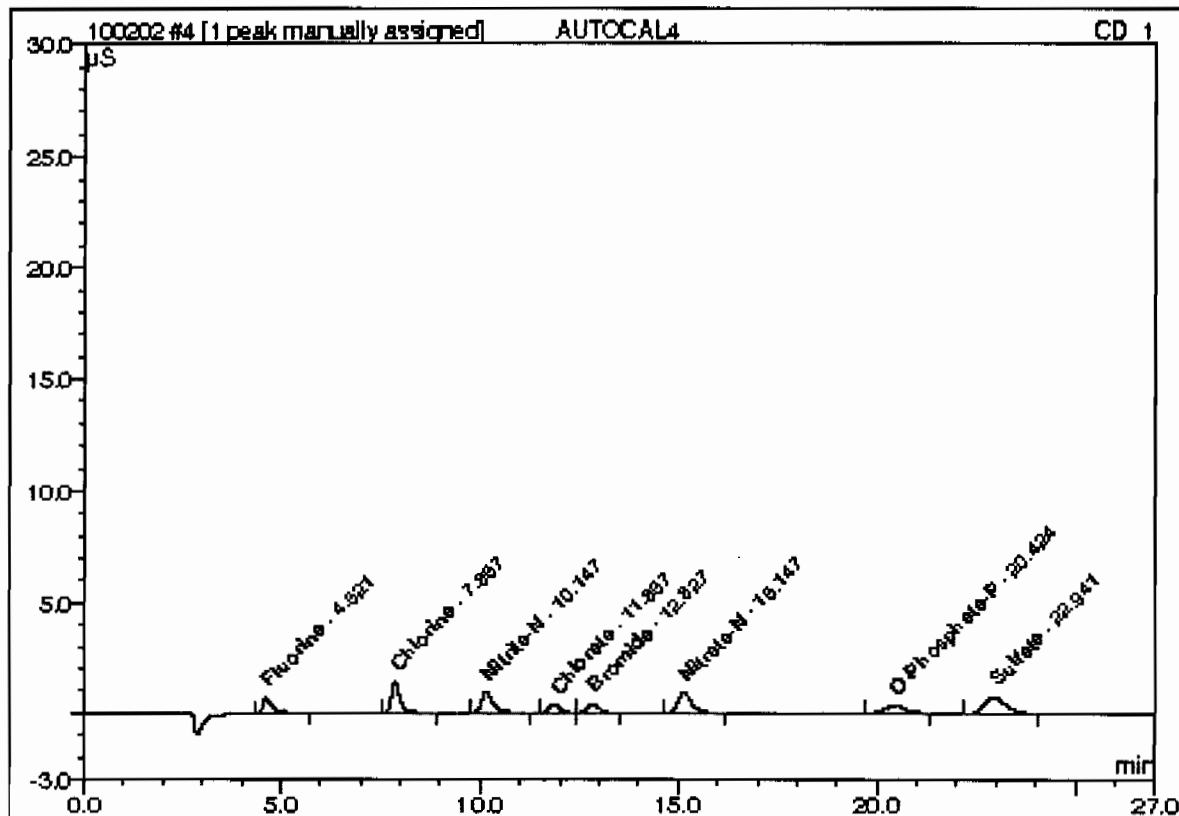
Sample Name:	AUTOCAL5	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 15:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.61	Fluoride	1.0000	0.9486		0.41792	9.28
2	7.85	Chloride	2.0000	1.8063		0.61629	13.69
3	10.14	Nitrite-N	1.0000	0.9388		0.59924	13.31
4	11.85	Chlorate	2.5000	2.4398		0.29248	6.49
5	12.82	Bromide	2.5000	2.4752		0.32676	7.26
6	15.13	Nitrate-N	1.0000	0.9233		0.72636	16.13
7	20.40	O-Phosphate-P	2.5000	2.4887		0.60913	13.53
8	22.94	Sulfate	4.0000	3.8197		0.91508	20.32
Total:				15.8403	0.000	4.503	100.00

4 AUTOCAL4

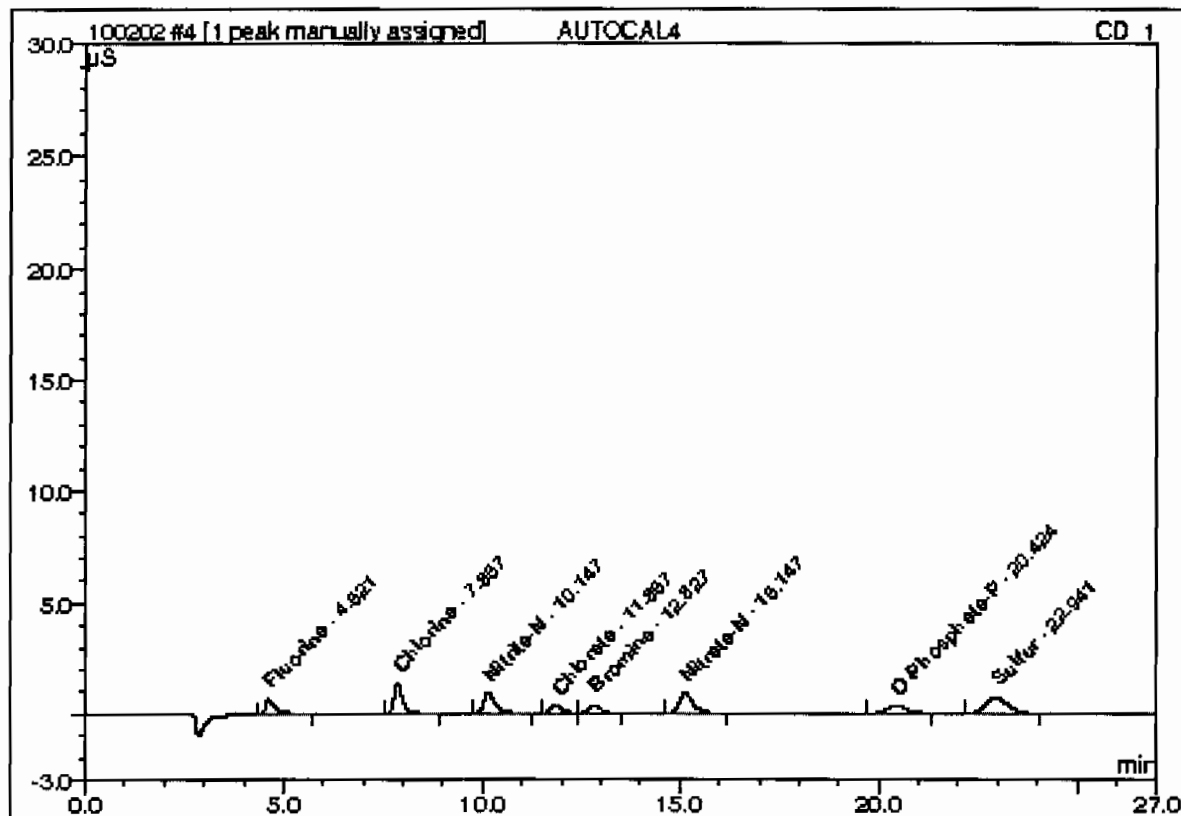
Sample Name:	AUTOCAL4	Injection Volume:	50.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 15:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.62	Fluorine	0.5000	0.4934		0.20297	9.66
2	7.86	Chlorine	1.0000	1.0808		0.34624	16.47
3	10.15	Nitrite-N	0.5000	0.5019		0.29478	14.02
4	11.86	Chlorate	1.0000	0.9849		0.11523	5.48
5	12.83	Bromide	1.0000	0.9918		0.12824	6.10
6	15.15	Nitrate-N	0.5000	0.5115		0.36357	17.30
7	20.42	O-Phosphate-P	1.0000	0.9121		0.20520	9.76
8	22.94	Sulfate	2.0000	2.0174		0.44581	21.21
Total:				7.4938	0.000	2.102	100.00

4 AUTOCAL4

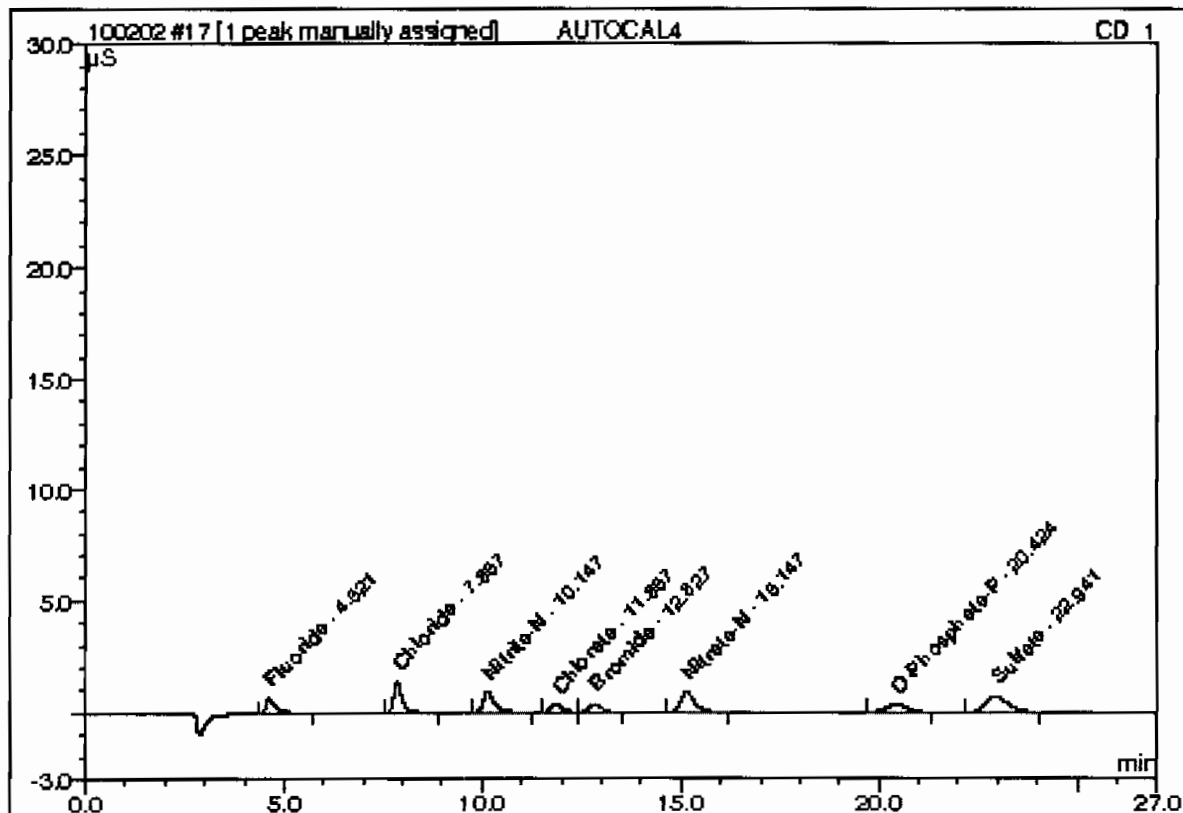
Sample Name:	AUTOCAL4	Injection Volume:	50.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 15:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.62	Fluorine	0.5000	0.4934		0.20297	9.66
2	7.86	Chlorine	1.0000	1.0808		0.34624	16.47
3	10.15	Nitrate-N	0.5000	0.5019		0.29478	14.02
4	11.86	Chlorate	1.0000	0.9849		0.11523	5.48
5	12.83	Bromine	1.0000	0.9918		0.12824	6.10
6	15.15	Nitrate-N	0.5000	0.5115		0.36357	17.30
7	20.42	O-Phosphate-P	1.0000	0.9121		0.20520	9.76
8	22.94	Sulfur	0.6666	0.6724		0.44581	21.21
Total:				6.1488	0.000	2.102	100.00

17 AUTOCAL4

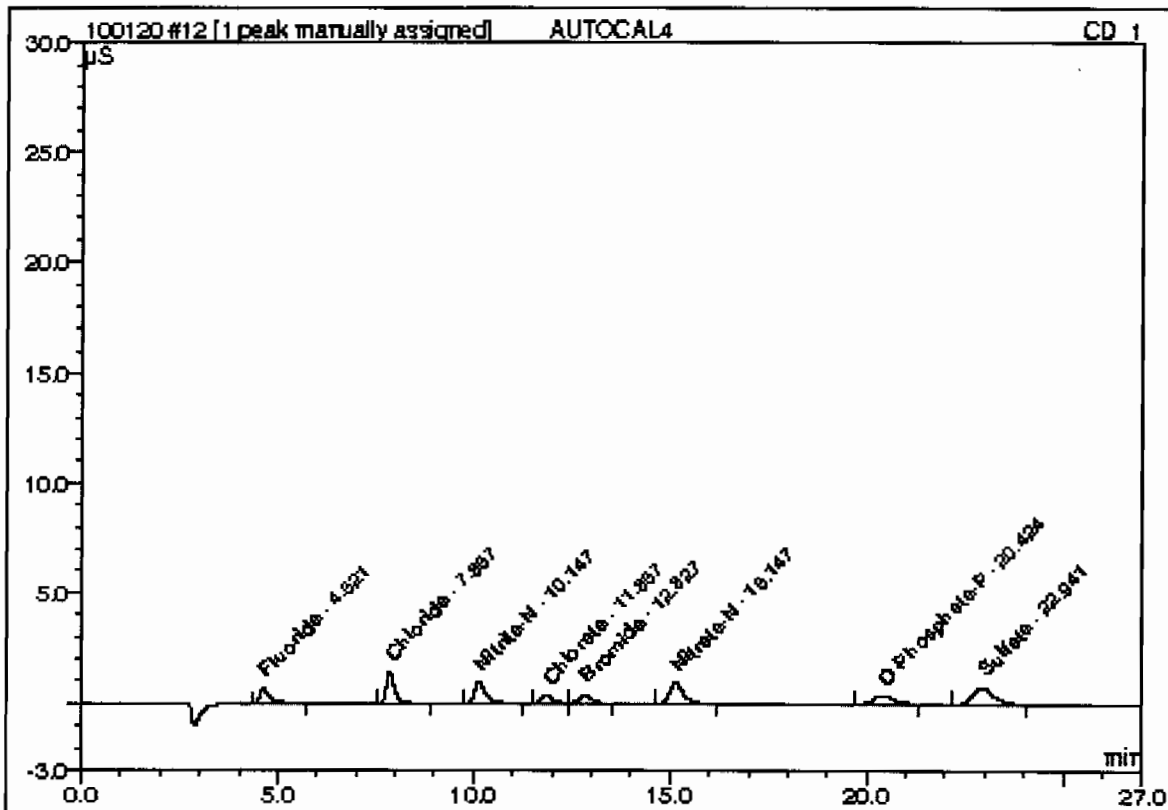
Sample Name:	AUTOCAL4	Injection Volume:	50.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 15:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.62	Fluoride	0.5000	0.4934		0.20297	9.66
2	7.86	Chloride	1.0000	1.0808		0.34624	16.47
3	10.15	Nitrite-N	0.5000	0.5019		0.29478	14.02
4	11.86	Chlorate	1.0000	0.9849		0.11523	5.48
5	12.83	Bromide	1.0000	0.9918		0.12624	6.10
6	15.15	Nitrate-N	0.5000	0.5115		0.36357	17.30
7	20.42	O-Phosphate-P	1.0000	0.9121		0.20520	9.76
8	22.94	Sulfate	2.0000	2.0174		0.44581	21.21
Total:				7.4938	0.000	2.102	100.00

12 AUTOCAL4

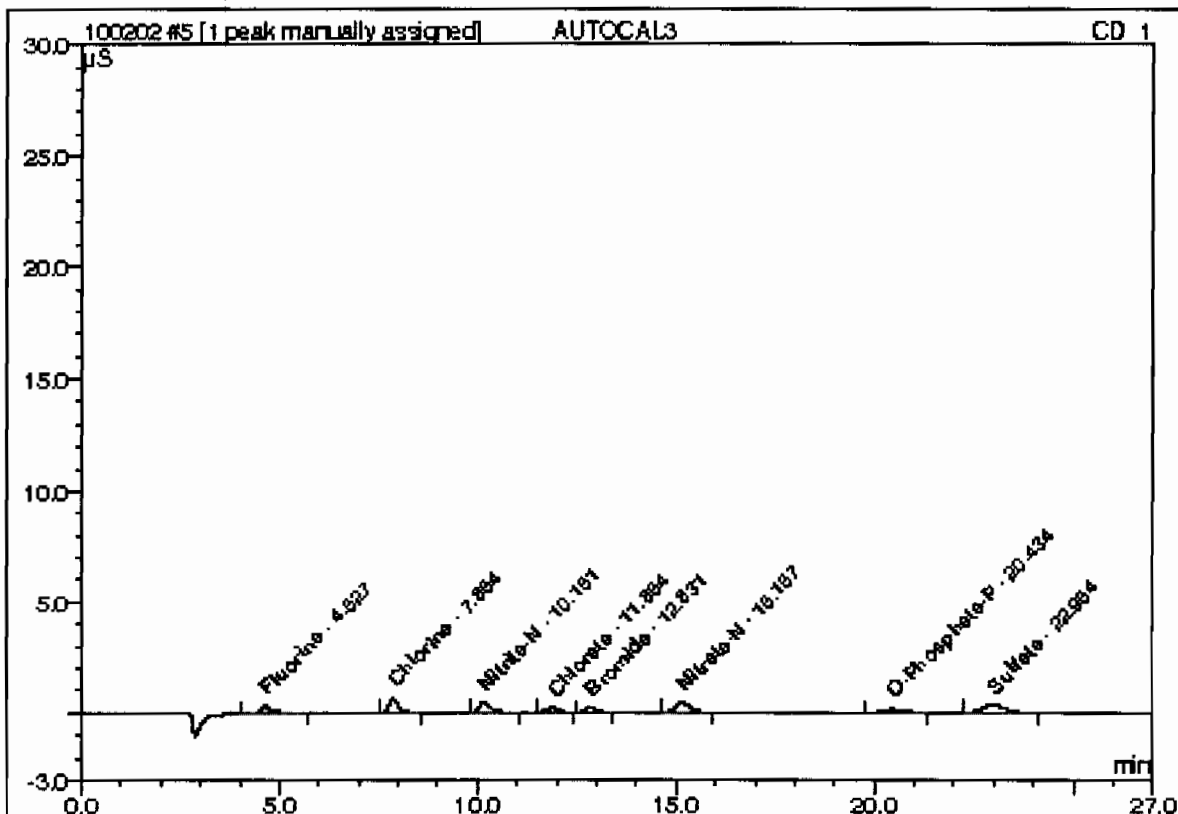
Sample Name:	AUTOCAL4	Injection Volume:	50.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 15:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.82	Fluoride	0.5000	0.4934		0.20297	9.66
2	7.86	Chloride	1.0000	1.0808		0.34624	16.47
3	10.15	Nitrate-N	0.5000	0.5019		0.29478	14.02
4	11.86	Chlorate	1.0000	0.9849		0.11523	5.48
5	12.83	Bromide	1.0000	0.9918		0.12824	6.10
6	15.15	Nitrate-N	0.5000	0.5115		0.36357	17.30
7	20.42	O-Phosphate-P	1.0000	0.9121		0.20520	9.76
8	22.94	Sulfate	2.0000	2.0174		0.44581	21.21
Total:				7.4938	0.000	2.102	100.00

5 AUTOCAL3

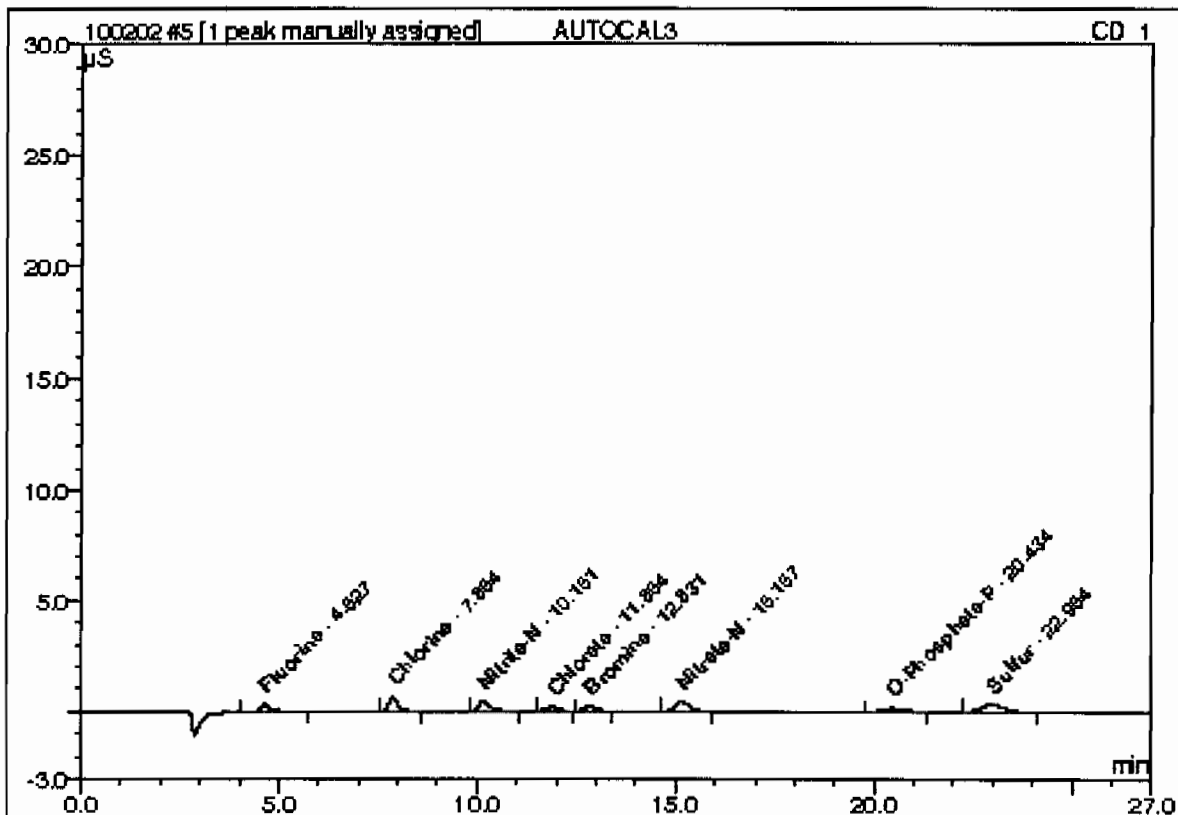
Sample Name:	AUTOCAL3	Injection Volume:	50.0
Vial Number:	6	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 16:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.63	Fluorine	0.2500	0.2874		0.10571	10.37
2	7.86	Chlorine	0.5000	0.5822		0.16065	15.77
3	10.15	Nitrate-N	0.2500	0.2848		0.14345	14.08
4	11.86	Chlorate	0.5000	0.4903		0.05496	5.39
5	12.83	Bromide	0.5000	0.4761		0.05922	5.81
6	15.16	Nitrate-N	0.2500	0.2988		0.17631	17.30
7	20.43	O-Phosphate-P	0.5000	0.4623		0.08994	8.83
8	22.95	Sulfate	1.0000	1.1838		0.22676	22.45
Total:				4.0657	0.000	1.019	100.00

5 AUTOCAL3

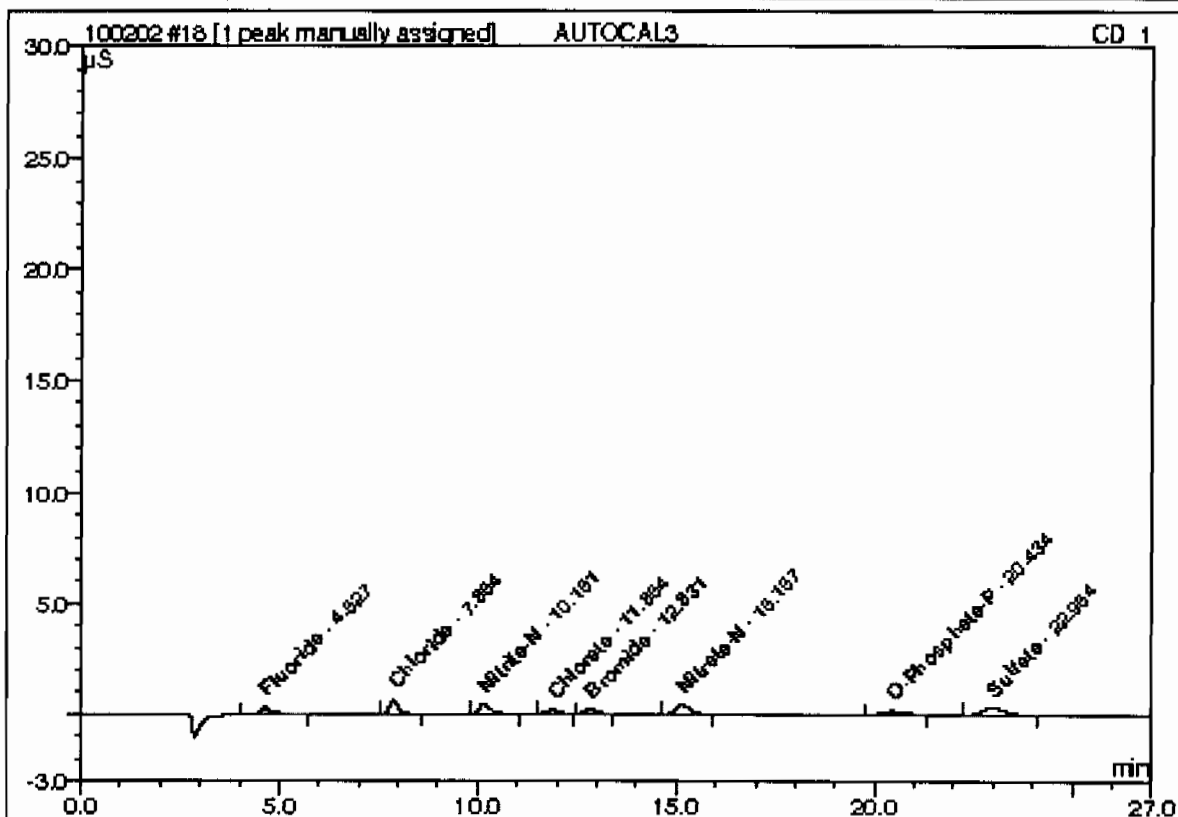
Sample Name:	AUTOCAL3	Injection Volume:	50.0
Vial Number:	6	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120b	Sample Amount:	1.0000
Recording Time:	1/20/2010 16:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.63	Fluorine	0.2500	0.2874		0.10571	10.37
2	7.86	Chlorine	0.5000	0.5822		0.16065	15.77
3	10.15	Nitrite-N	0.2500	0.2848		0.14345	14.08
4	11.86	Chlorate	0.5000	0.4903		0.05496	5.39
5	12.83	Bromine	0.5000	0.4761		0.05922	5.81
6	15.16	Nitrate-N	0.2500	0.2968		0.17631	17.30
7	20.43	O-Phosphate-P	0.5000	0.4623		0.08994	8.83
8	22.95	Sulfur	0.3333	0.3945		0.22876	22.45
Total:				3.2765	0.000	1.019	100.00

18 AUTOCAL3

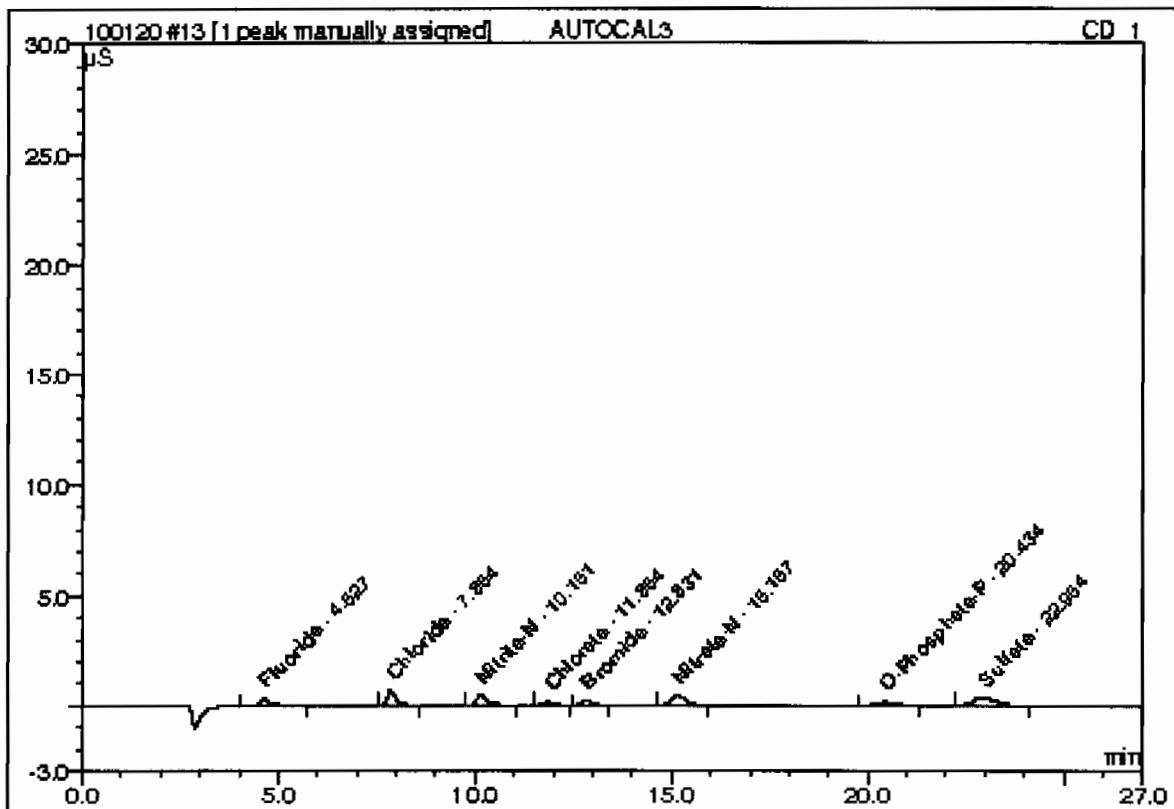
Sample Name:	AUTOCAL3	Injection Volume:	50.0
Vial Number:	6	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 16:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.63	Fluoride	0.2500	0.2874		0.10571	10.37
2	7.86	Chloride	0.5000	0.5822		0.16065	15.77
3	10.15	Nitrite-N	0.2500	0.2848		0.14345	14.08
4	11.86	Chlorate	0.5000	0.4903		0.05496	5.39
5	12.83	Bromide	0.5000	0.4761		0.05922	5.81
6	15.16	Nitrate-N	0.2500	0.2988		0.17631	17.30
7	20.43	O-Phosphate-P	0.5000	0.4623		0.08994	8.83
8	22.95	Sulfate	1.0000	1.1838		0.22876	22.45
Total:				4.0857	0.000	1.019	100.00

13 AUTOCAL3

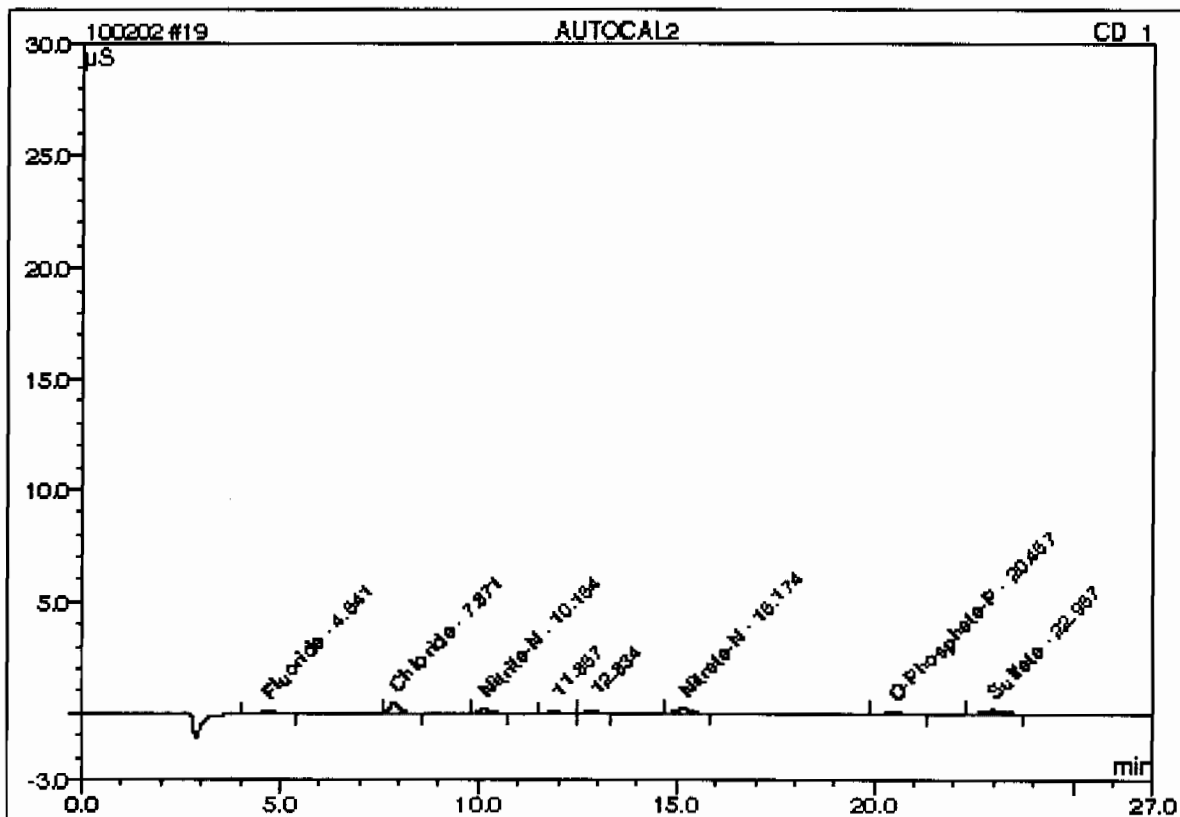
Sample Name:	AUTOCAL3	Injection Volume:	50.0
Vial Number:	6	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 16:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; 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	4.63	Fluoride	0.2500	0.2874		0.10571	10.37
2	7.86	Chloride	0.5000	0.5822		0.16065	15.77
3	10.15	Nitrate-N	0.2500	0.2848		0.14345	14.08
4	11.86	Chlorate	0.5000	0.4903		0.05496	5.39
5	12.83	Bromide	0.5000	0.4761		0.05922	5.81
6	15.16	Nitrate-N	0.2500	0.2988		0.17631	17.30
7	20.43	O-Phosphate-P	0.5000	0.4623		0.08994	8.83
8	22.95	Sulfate	1.0000	1.1838		0.22876	22.45
Total:				4.0657	0.000	1.019	100.00

19 AUTOCAL2

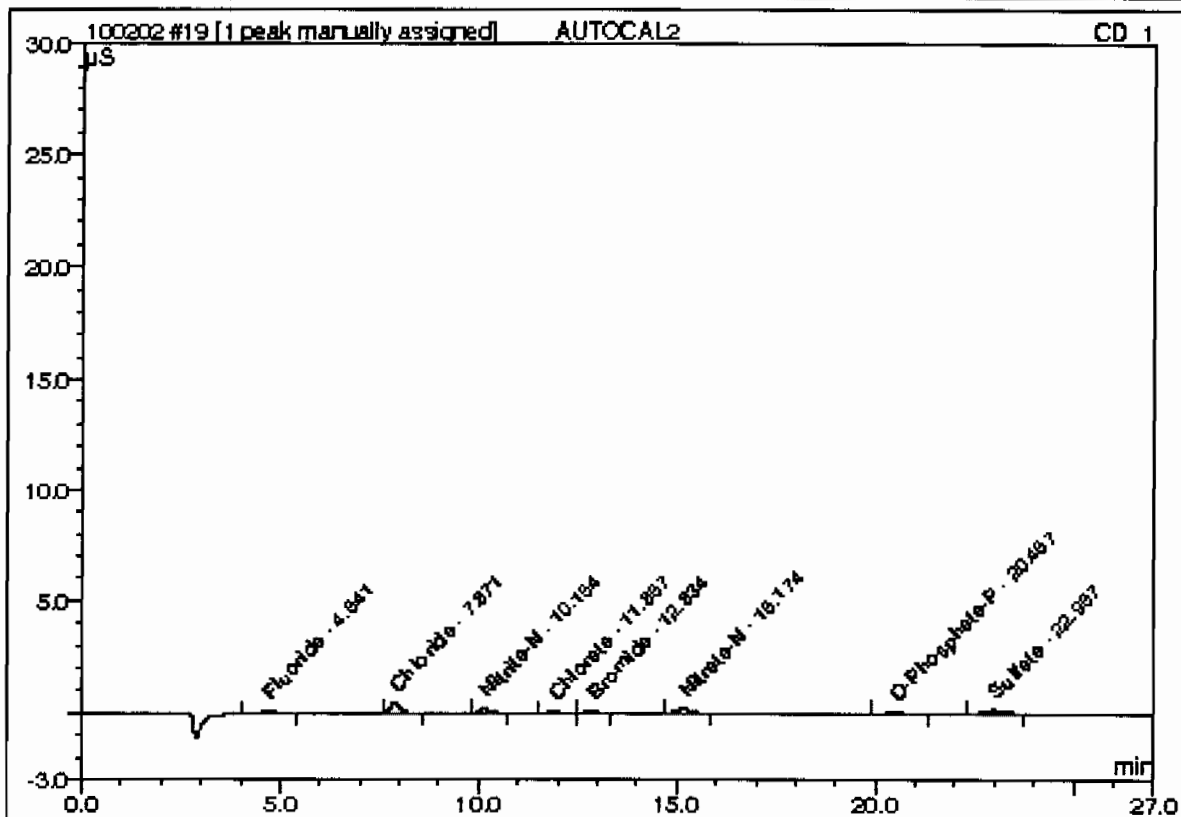
Sample Name:	AUTOCAL2	Injection Volume:	50.0
Vial Number:	7	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 16:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.64	Fluoride	0.1000	0.1684		0.04953	10.93
2	7.87	Chloride	0.2000	0.4528		0.11247	24.82
3	10.15	Nitrite-N	0.1000	0.1561		0.05376	11.87
n.a.	n.a.	Chlorate	0.2000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	0.2000	n.a.	n.a.	n.a.	n.a.
6	15.17	Nitrate-N	0.1000	0.1808		0.07230	15.96
7	20.47	O-Phosphate-P	0.2000	0.2209		0.02810	6.20
8	22.97	Sulfate	0.4000	0.6419		0.08768	19.35
Total:				1.8210	0.000	0.404	89.13

19 AUTOCAL2

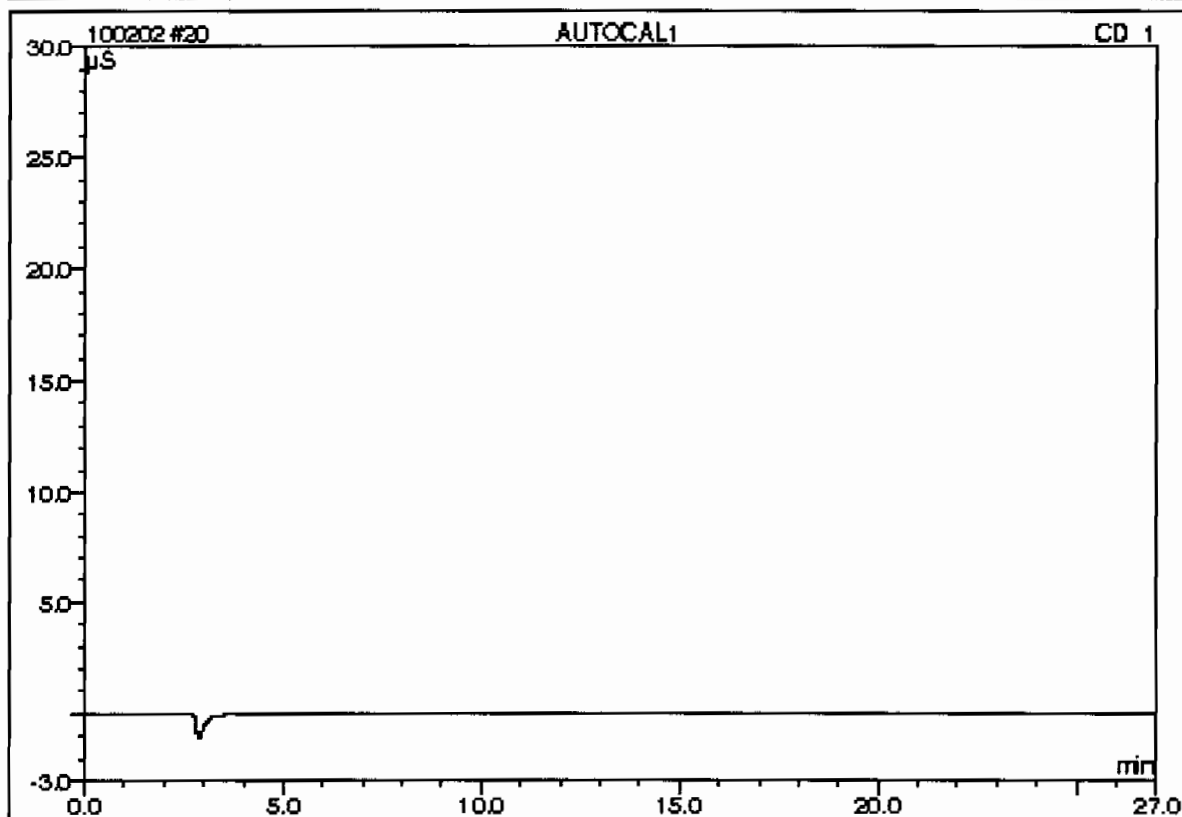
Sample Name:	AUTOCAL2	Injection Volume:	50.0
Vial Number:	7	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 16:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.64	Fluoride	0.1000	0.1684		0.04953	10.93
2	7.87	Chloride	0.2000	0.4528		0.11247	24.82
3	10.15	Nitrite-N	0.1000	0.1561		0.05376	11.87
4	11.87	Chlorate	0.2000	0.2335		0.02368	5.23
5	12.83	Bromide	0.2000	0.2248		0.02559	5.65
6	15.17	Nitrate-N	0.1000	0.1808		0.07230	15.96
7	20.47	O-Phosphate-P	0.2000	0.2209		0.02810	6.20
8	22.97	Sulfate	0.4000	0.6419		0.08768	19.35
Total:				2.2792	0.000	0.453	100.00

20 AUTOCAL1

Sample Name:	AUTOCAL1	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:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 17:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	0.0000	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

20 AUTOCAL1

Sample Name: AUTOCAL1

Vial Number: 8

Sample Type: standard

Control Program: AS23

Quantif. Method: 100120an

Recording Time: 1/20/2010 17:18

Run Time (min): 27.00

Injection Volume: 50.0

Channel: CD_1

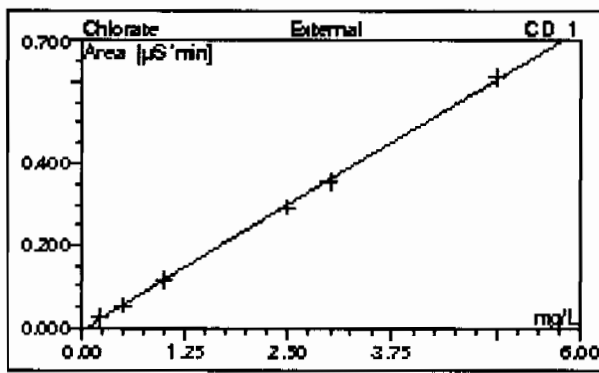
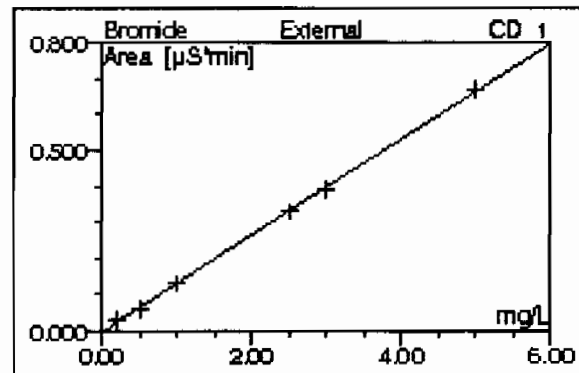
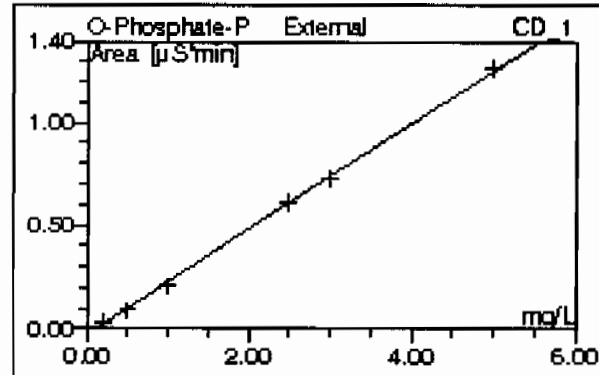
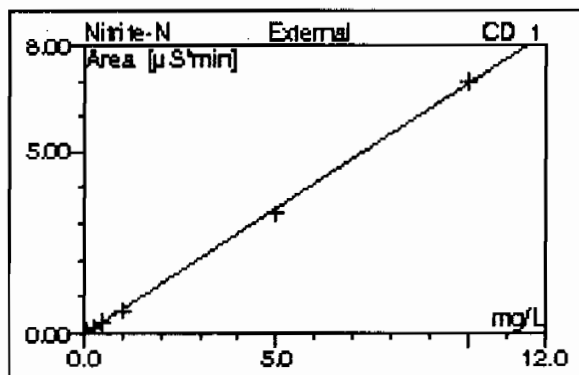
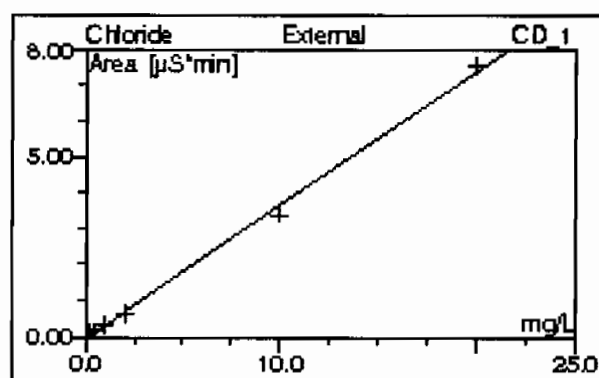
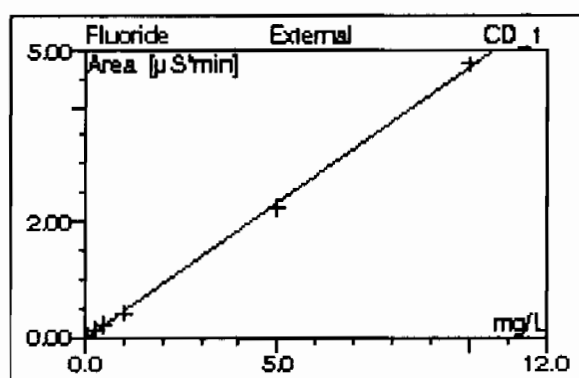
Dilution Factor: 1.0000

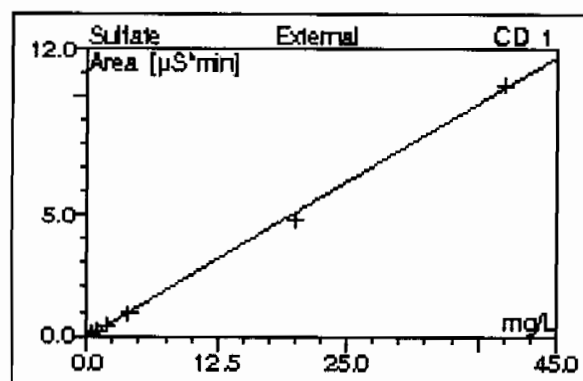
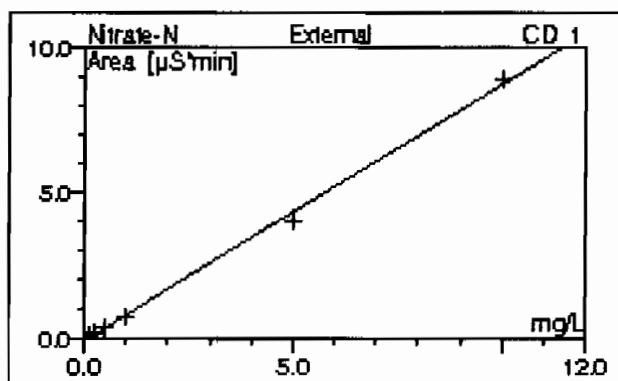
Sample Weight: 1.0000

Sample Amount: 1.0000

Analyst: GXM3

Column: AS23-002503; GLGCE086; 300; 9056

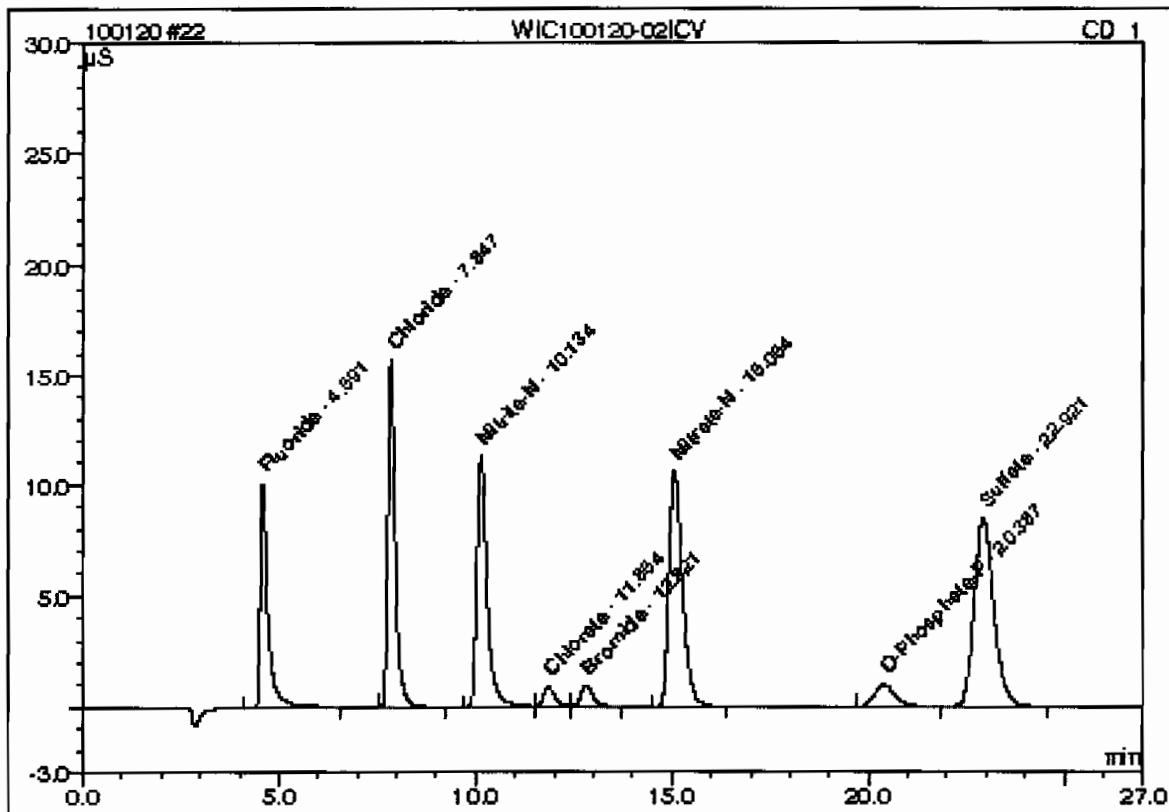




No. CD_1	Ret.Time CD_1 min	Peak Name CD_1	Cal.Type CD_1	Coeff.Det. CD_1 %	Offset CD_1	Slope CD_1	Curve CD_1
n.a.	n.a.	Fluoride	OLOH	99.9041	-0.0300	0.4722	0.0000
n.a.	n.a.	Chloride	OLOH	99.7305	-0.0561	0.3722	0.0000
n.a.	n.a.	Nitrite-N	OLOH	99.9049	-0.0550	0.6969	0.0000
n.a.	n.a.	Chlorate	OLOH	99.9310	-0.0048	0.1218	0.0000
n.a.	n.a.	Bromide	OLOH	99.9685	-0.0045	0.1338	0.0000
n.a.	n.a.	Nitrate-N	OLOH	99.8018	-0.0869	0.8608	0.0000
n.a.	n.a.	O-Phosphate-P	OLOH	99.9072	-0.0285	0.2562	0.0000
n.a.	n.a.	Sulfate	OLOH	99.8579	-0.0795	0.2604	0.0000
Average:				99.8758	-0.0432	0.3993	0.0000

22 WIC100120-02ICV

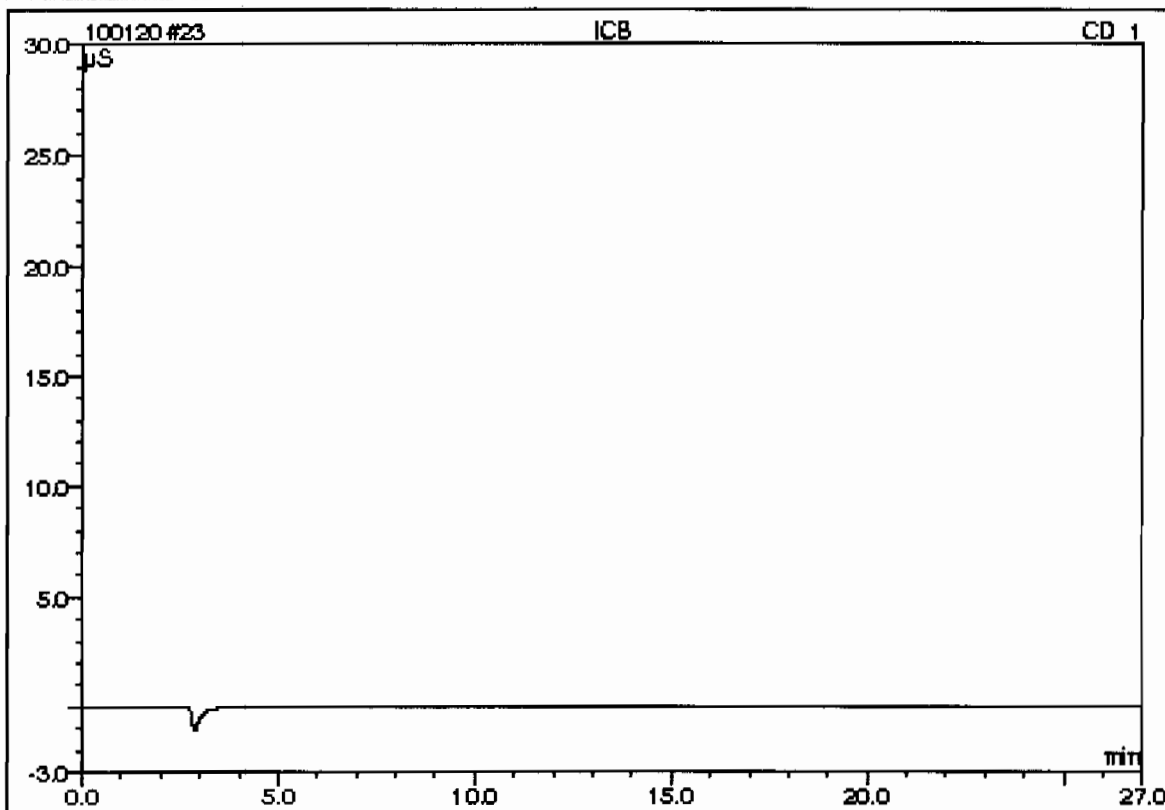
Sample Name:	WIC100120-02ICV	Injection Volume:	50.0
Vial Number:	9	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 17:48	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.59	Fluoride	n.a.	4.8635		2.26645	11.64
2	7.85	Chloride	n.a.	9.4702		3.46904	17.82
3	10.13	Nitrite-N	n.a.	4.9247		3.37718	17.34
4	11.85	Chlorate	n.a.	2.5493		0.30583	1.57
5	12.82	Bromide	n.a.	2.5177		0.33245	1.71
6	15.06	Nitrate-N	n.a.	4.8281		4.16571	21.39
7	20.39	O-Phosphate-P	n.a.	2.4490		0.59895	3.08
8	22.92	Sulfate	n.a.	19.3362		4.95520	25.45
Total:				50.9387	0.000	19.471	100.00

23 ICB

Sample Name:	ICB	Injection Volume:	50.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantit. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/20/2010 18:18	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
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

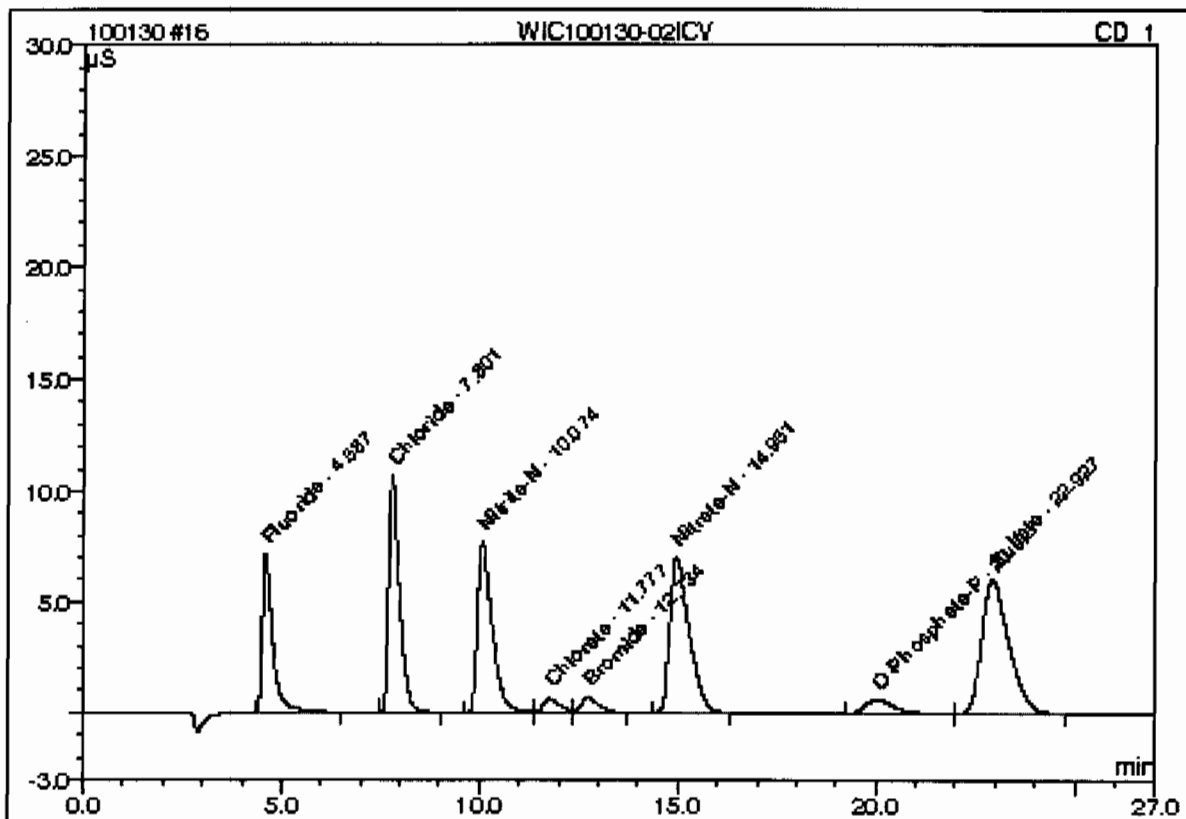
This is runlog for Sequence 100130.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	01/30/10 08:09		1	100130	GXM3
BLK	01/30/10 08:38		1	100130	GXM3
ICV	01/30/10 09:08		1	100130	GXM3
ICB	01/30/10 09:38		1	100130	GXM3
245111007	01/30/10 10:08	944728	1	100130	GXM3
CVH	01/30/10 10:38		1	100130	GXM3
CCB	01/30/10 11:08		1	100130	GXM3
1202027483	01/30/10 11:38	946566	1	100130	GXM3
1202027487	01/30/10 12:08	946566	1	100130	GXM3
245098001	01/30/10 12:37	946566	1	100130	GXM3
1202027484	01/30/10 13:07	946566	1	100130	GXM3
1202027485	01/30/10 13:37	946566	1	100130	GXM3
1202027486	01/30/10 14:07	946566	1	100130	GXM3
245141001	01/30/10 14:37	946566	1	100130	GXM3
245141002	01/30/10 15:06	946566	1	100130	GXM3
245141003	01/30/10 15:36	946566	1	100130	GXM3
245141004	01/30/10 16:06	946566	1	100130	GXM3
CCV	01/30/10 16:36		1	100130	GXM3
CCB	01/30/10 17:06		1	100130	GXM3
1202027475	01/30/10 17:36	946562	1	100130	GXM3
1202027482	01/30/10 18:06	946562	1	100130	GXM3
245113001	01/30/10 18:36	946562	1	100130	GXM3
1202027476	01/30/10 19:06	946562	1	100130	GXM3
1202027478	01/30/10 19:36	946562	1	100130	GXM3
1202027480	01/30/10 20:05	946562	1	100130	GXM3
245113002	01/30/10 20:35	946562	1	100130	GXM3
245113003	01/30/10 21:05	946562	1	100130	GXM3
CVH	01/30/10 21:35		1	100130	GXM3

CCB	01/30/10 22:05	1	100130	GXM3
245113004	01/30/10 22:35 946562 1		100130	GXM3
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16 WIC100130-02ICV

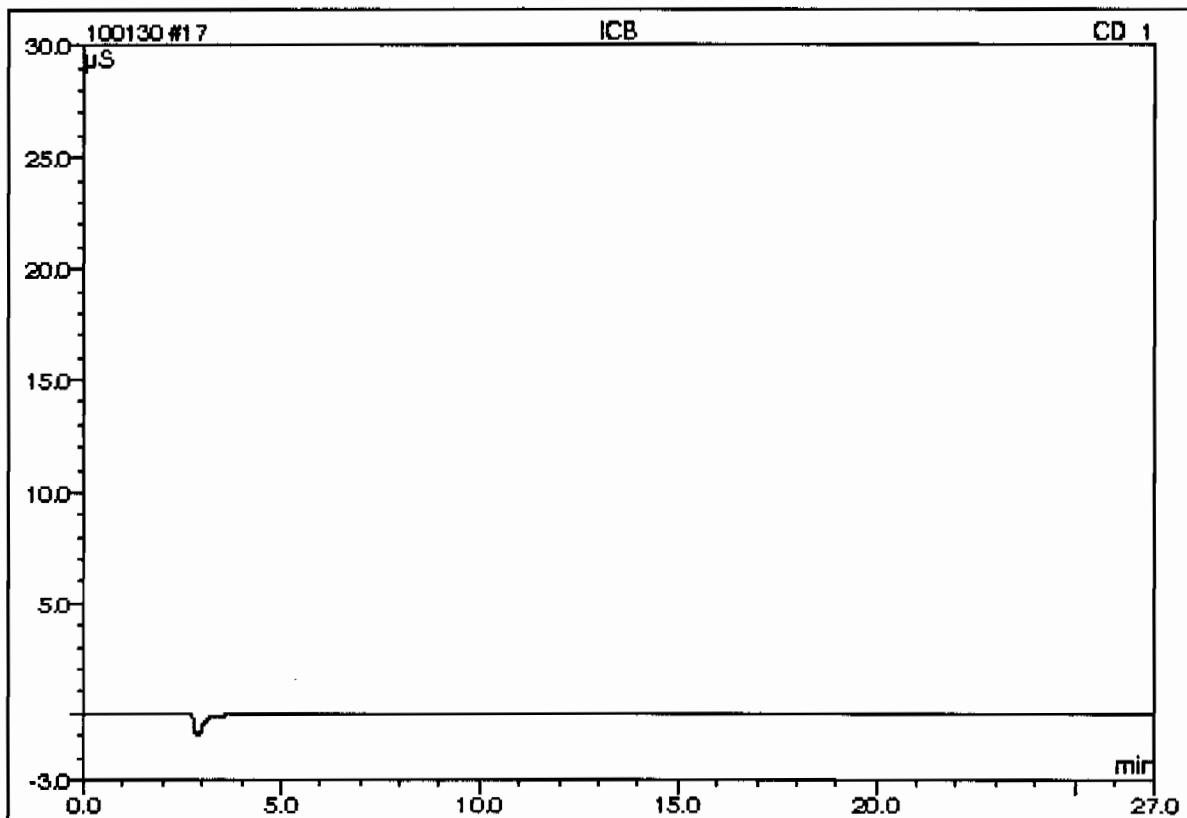
Sample Name:	WIC100130-02ICV	Injection Volume:	50.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 9:08	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.59	Fluoride	n.a.	4.6623		2.17141	11.65
2	7.80	Chloride	n.a.	9.0387		3.30844	17.75
3	10.07	Nitrite-N	n.a.	4.7407		3.24891	17.44
4	11.78	Chlorate	n.a.	2.5157		0.30173	1.62
5	12.73	Bromide	n.a.	2.5373		0.33508	1.80
6	14.96	Nitrate-N	n.a.	4.6360		3.99647	21.45
7	20.03	O-Phosphate-P	n.a.	1.9483		0.47066	2.53
8	22.93	Sulfate	n.a.	18.7465		4.80166	25.77
Total:				48.8254	0.000	18.634	100.00

17 ICB

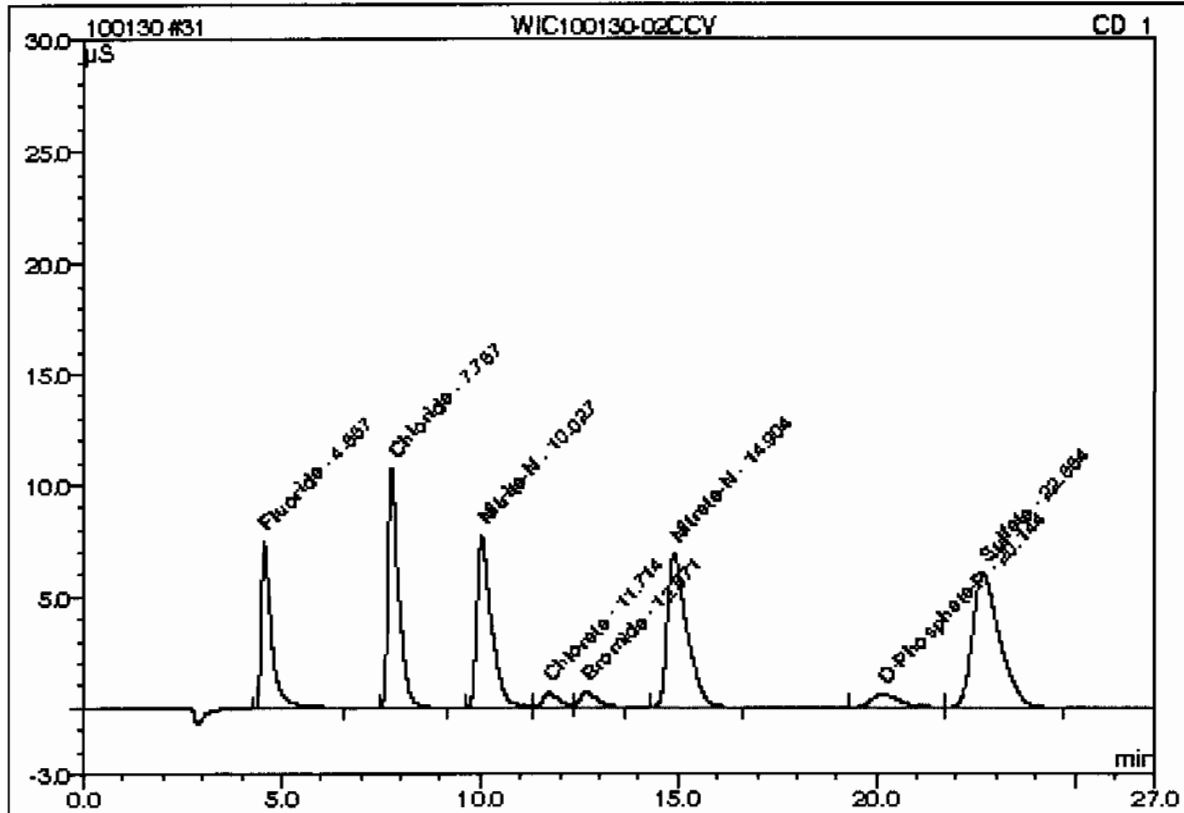
Sample Name:	ICB	Injection Volume:	50.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 9:38	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86; 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

31 WIC100130-02CCV

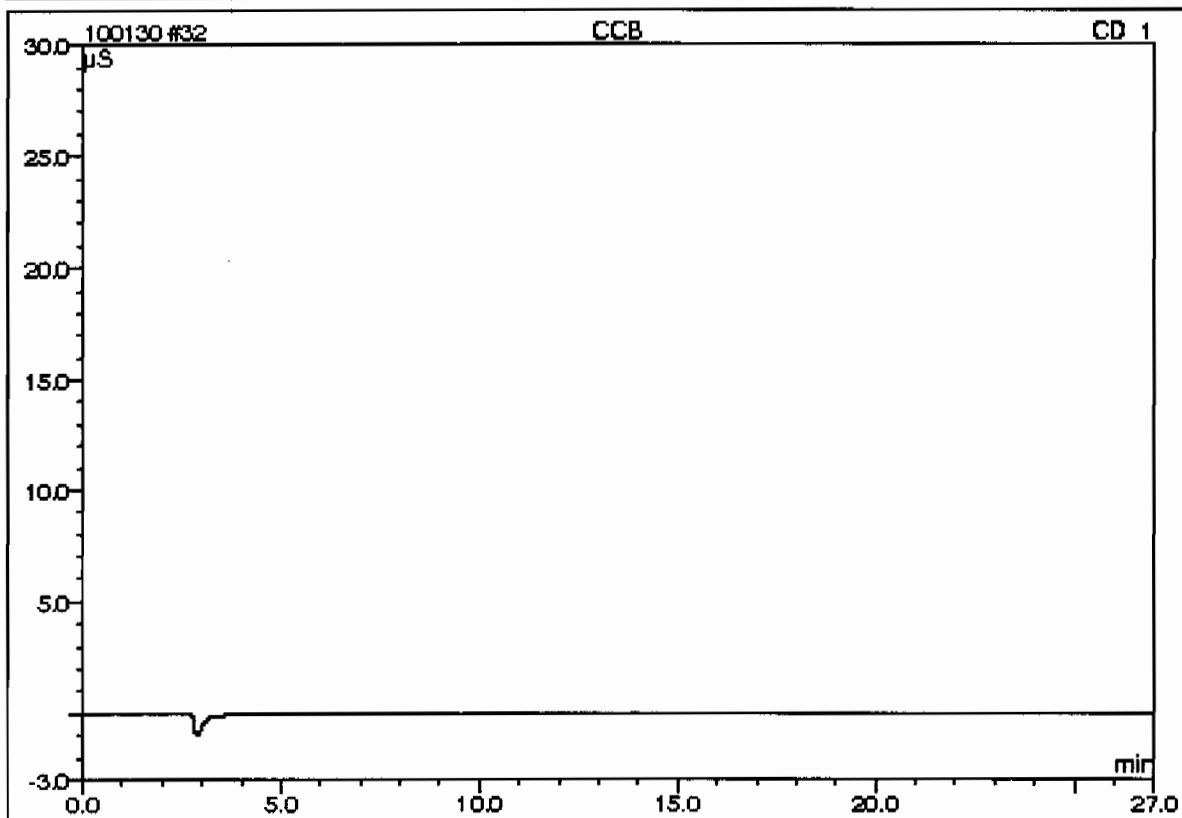
Sample Name:	WIC100130-02CCV	Injection Volume:	50.0
Vial Number:	18	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 16:36	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.57	Fluoride	n.a.	4.7435		2.20976	11.88
2	7.77	Chloride	n.a.	9.0339		3.30664	17.78
3	10.03	Nitrate-N	n.a.	4.7185		3.23348	17.38
4	11.71	Chlorate	n.a.	2.5081		0.30080	1.62
5	12.67	Bromide	n.a.	2.5005		0.33015	1.77
6	14.90	Nitrate-N	n.a.	4.5909		3.95679	21.27
7	20.14	O-Phosphate-P	n.a.	1.9168		0.46261	2.49
8	22.86	Sulfate	n.a.	18.7472		4.80184	25.81
Total:				48.7594	0.000	18.602	100.00

32 CCB

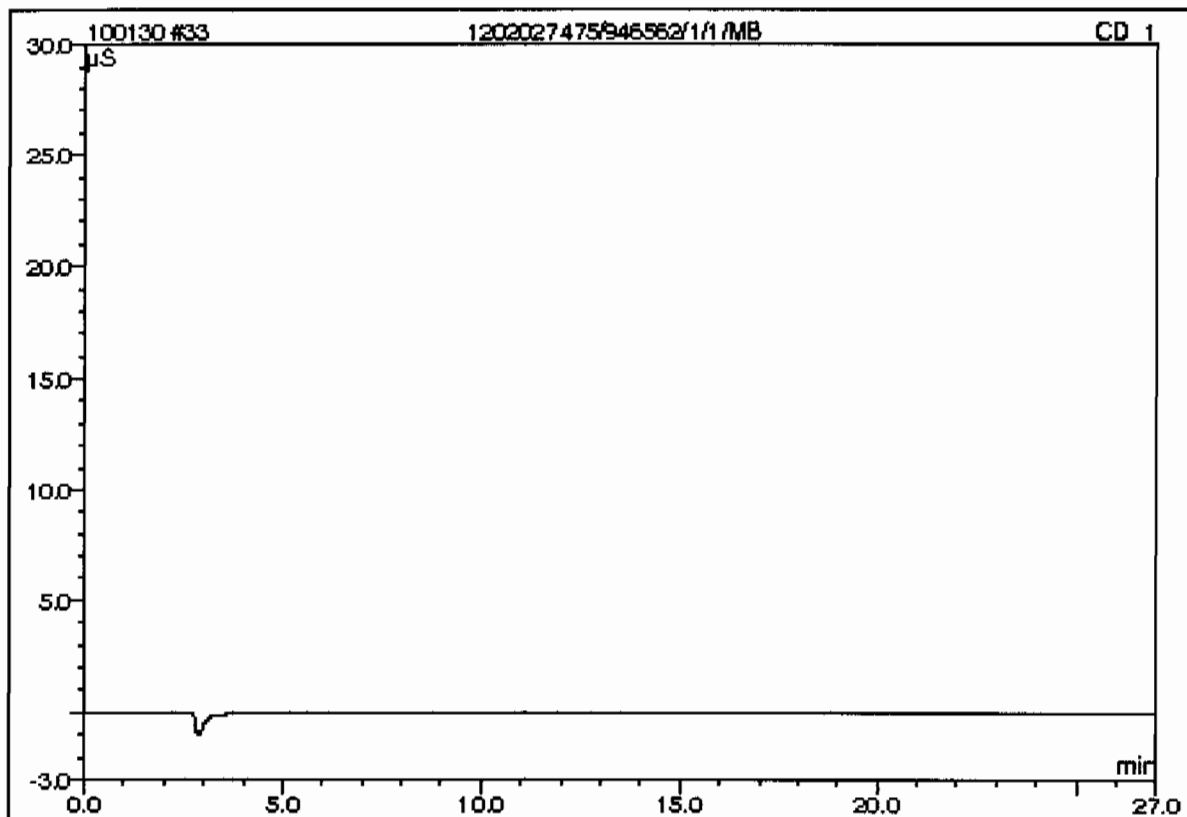
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	19	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 17:06	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86; 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

33 1202027475/946562/1/1/MB

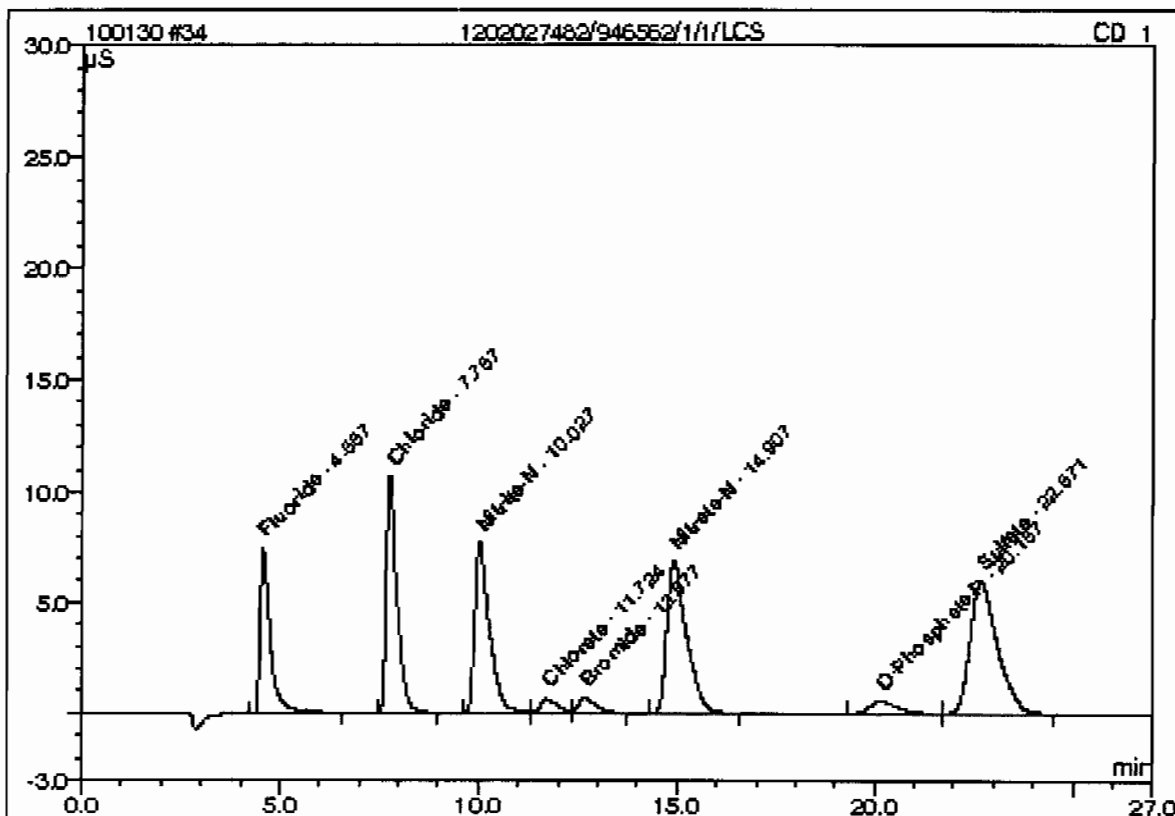
Sample Name:	1202027475/946562/1/1/MB	Injection Volume:	50.0
Vial Number:	20	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 17:36	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
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

34 1202027482/946562/1/1/LCS

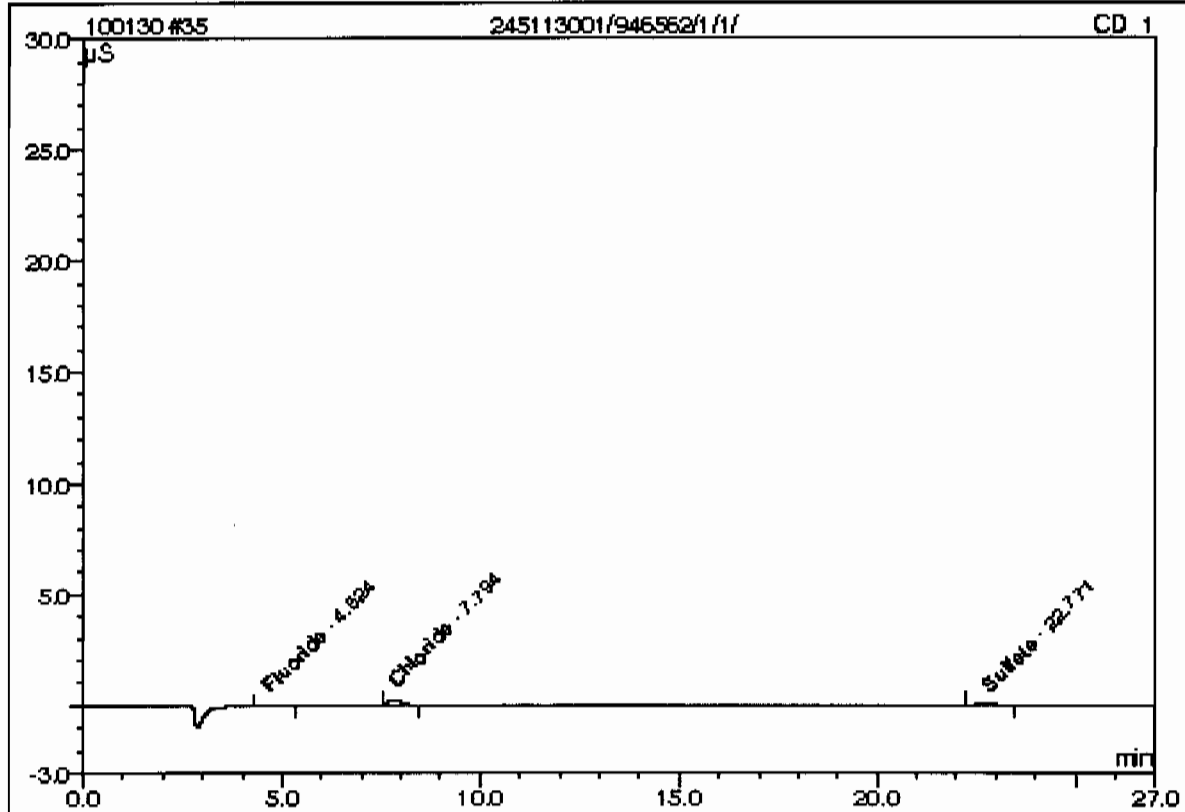
Sample Name:	1202027482/946562/1/1/LCS	Injection Volume:	50.0
Vial Number:	21	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 18:06	Analyst:	GXM3
Run Time (min):	27.00	Column:	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	4.57	Fluoride	n.a.	4.7531		2.21428	11.92
2	7.77	Chloride	n.a.	9.0429		3.30999	17.81
3	10.03	Nitrite-N	n.a.	4.7261		3.23877	17.43
4	11.72	Chlorate	n.a.	2.4758		0.29686	1.60
5	12.68	Bromide	n.a.	2.5141		0.33196	1.79
6	14.91	Nitrate-N	n.a.	4.5897		3.95568	21.29
7	20.16	O-Phosphate-P	n.a.	1.8842		0.45426	2.44
8	22.67	Sulfate	n.a.	18.6692		4.78154	25.73
Total:				48.6550	0.000	18.583	100.00

35 245113001/946562/1/1/

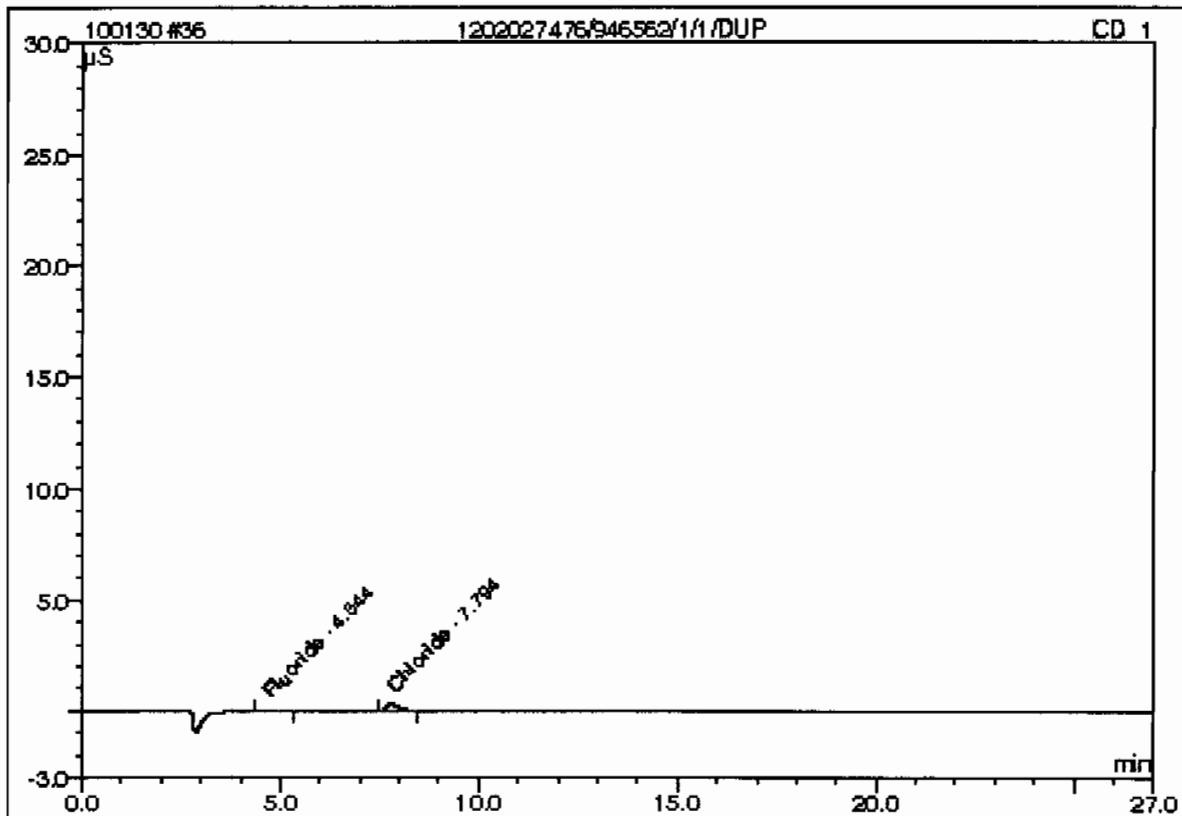
Sample Name:	245113001/946562/1/1/	Injection Volume:	50.0
Vial Number:	22	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 18:36	Analyst:	GXM3
Run Time (min):	27.00	Column:	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	4.62	Fluoride	n.a.	0.1165		0.02498	19.23
2	7.79	Chloride	n.a.	0.3844		0.08701	66.98
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.
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	22.77	Sulfate	n.a.	0.3740		0.01792	13.79
Total:				0.8749	0.000	0.130	100.00

36 1202027476/946562/1/1/DUP

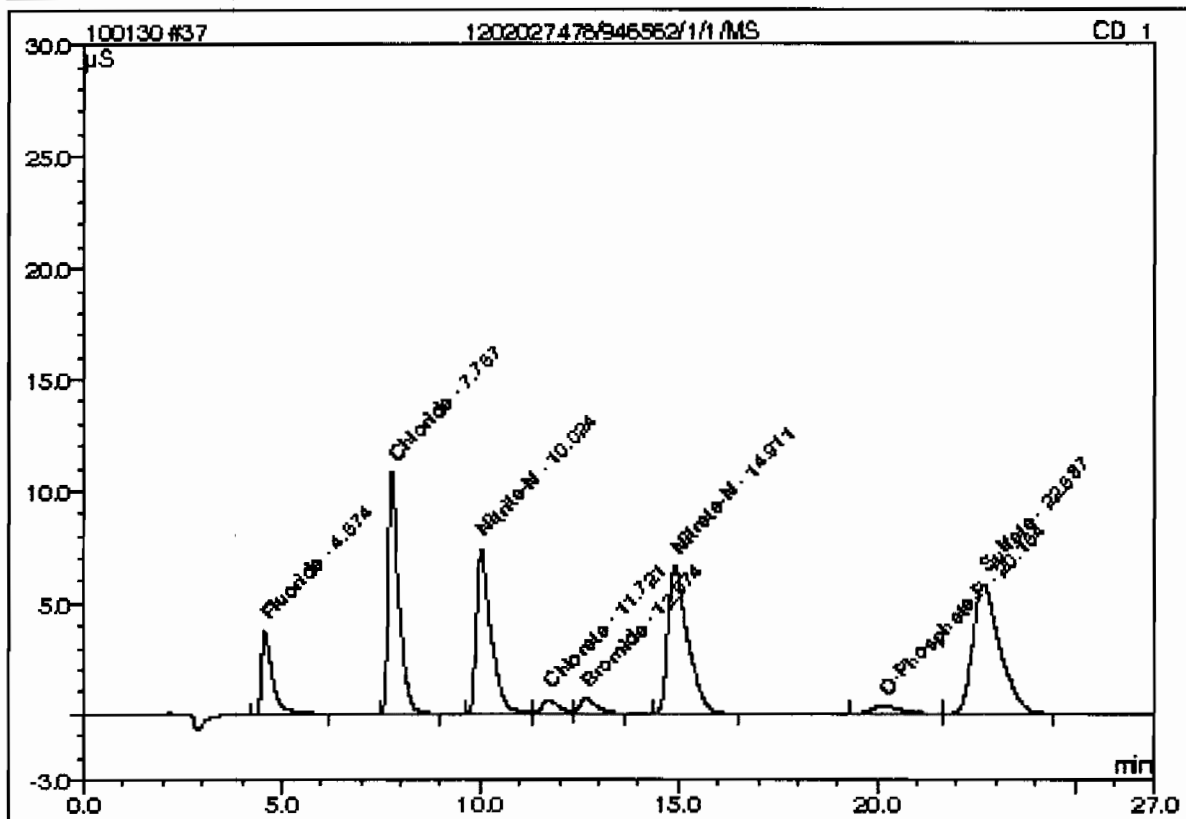
Sample Name:	1202027476/946562/1/1/DUP	Injection Volume:	50.0
Vial Number:	23	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 19:06	Analyst:	GXM3
Run Time (min):	27.00	Column:	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	4.64	Fluoride	n.a.	0.1129		0.02330	18.63
2	7.79	Chloride	n.a.	0.4242		0.10181	81.37
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
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:				0.5371	0.000	0.125	100.00

37 1202027478/946562/1/1/MS

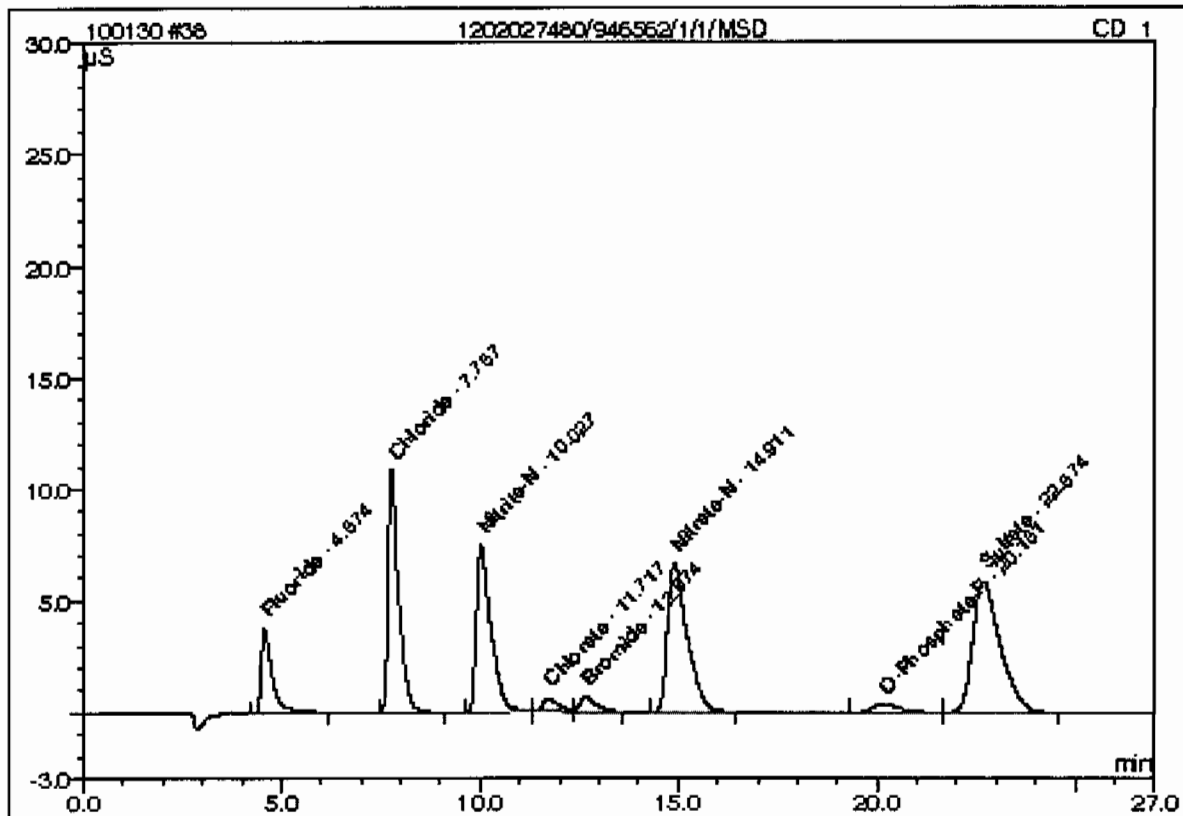
Sample Name:	1202027478/946562/1/1/MS	Injection Volume:	50.0
Vial Number:	24	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 19:36	Analyst:	GXM3
Run Time (min):	27.00	Column:	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	4.57	Fluoride	n.a.	2.5804		1.18838	6.97
2	7.77	Chloride	n.a.	9.1019		3.33196	19.55
3	10.02	Nitrate-N	n.a.	4.5626		3.12479	18.34
4	11.72	Chlorate	n.a.	2.4002		0.28766	1.69
5	12.67	Bromide	n.a.	2.4436		0.32253	1.89
6	14.91	Nitrate-N	n.a.	4.4553		3.83737	22.52
7	20.15	O-Phosphate-P	n.a.	1.1780		0.27333	1.60
8	22.69	Sulfate	n.a.	18.2571		4.67424	27.43
Total:				44.9791	0.000	17.040	100.00

38 1202027480/946562/1/1/MSD

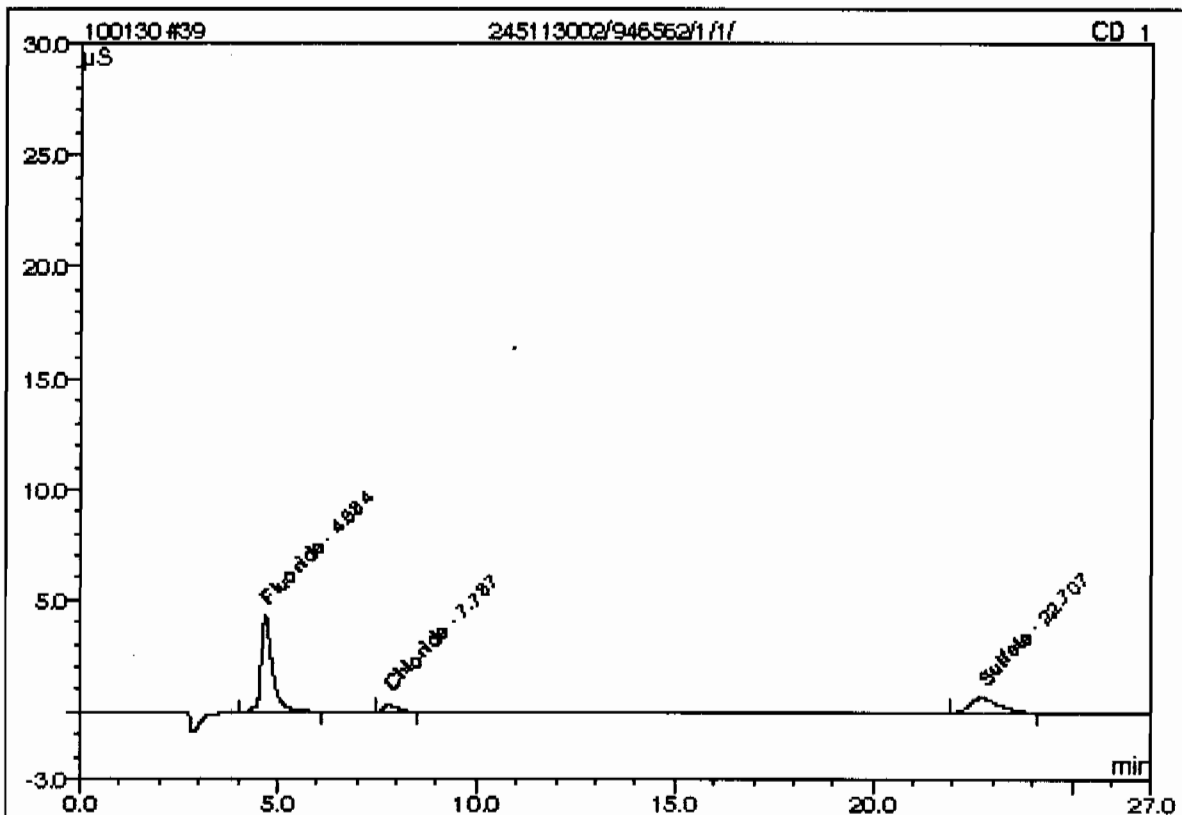
Sample Name:	1202027480/946562/1/1/MSD	Injection Volume:	50.0
Vial Number:	25	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 20:05	Analyst:	GXM3
Run Time (min):	27.00	Column:	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	4.57	Fluoride	n.a.	2.5851		1.19062	7.01
2	7.77	Chloride	n.a.	9.1074		3.33403	19.62
3	10.03	Nitrite-N	n.a.	4.5256		3.09900	18.24
4	11.72	Chlorate	n.a.	2.1957		0.26275	1.55
5	12.67	Bromide	n.a.	2.3146		0.30527	1.80
6	14.91	Nitrate-N	n.a.	4.4533		3.83555	22.58
7	20.16	O-Phosphate-P	n.a.	1.2091		0.28128	1.66
8	22.67	Sulfate	n.a.	18.2860		4.68176	27.56
Total:				44.6768	0.000	16.990	100.00

39 245113002/946562/1/1/

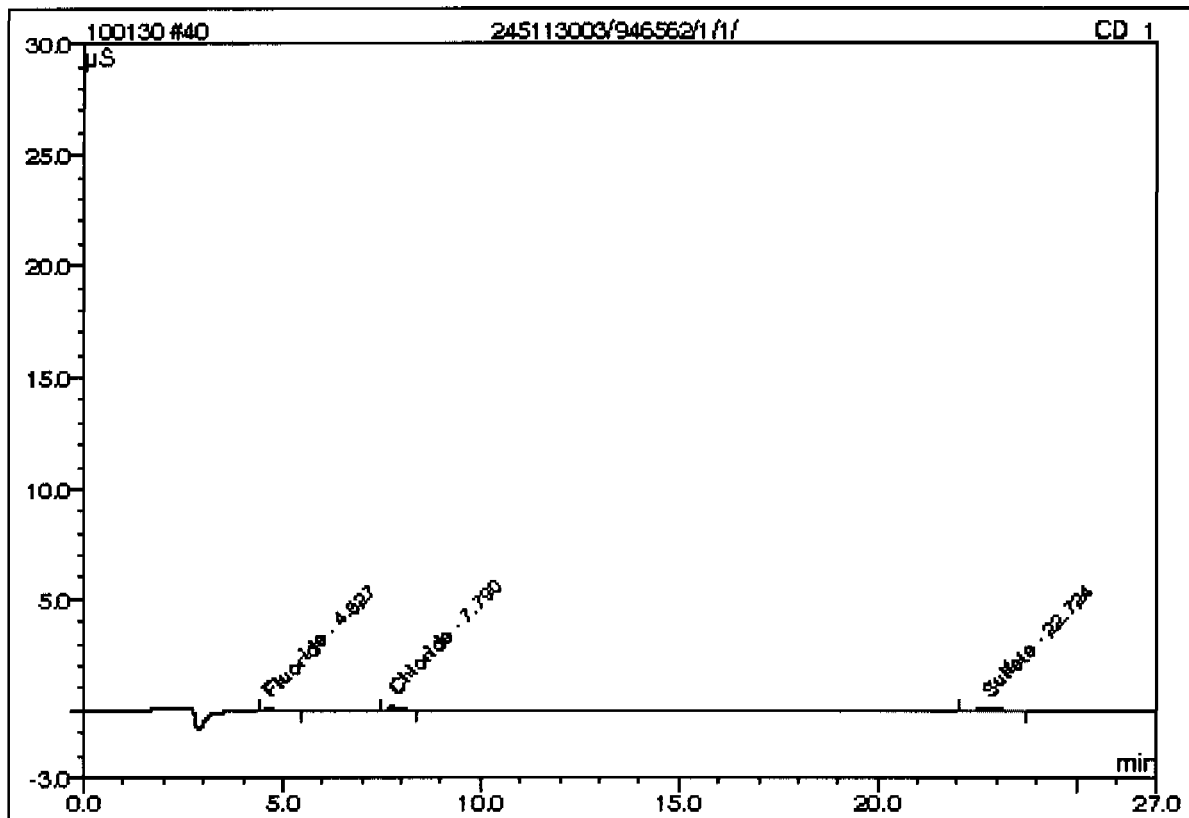
Sample Name:	245113002/946562/1/1/	Injection Volume:	50.0
Vial Number:	26	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 20:35	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area uS*min	Rel. Area %
1	4.68	Fluoride	n.a.	3.0340		1.40257	67.40
2	7.79	Chloride	n.a.	0.4774		0.12164	5.85
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
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	22.71	Sulfate	n.a.	2.4432		0.55667	26.75
Total:				5.9546	0.000	2.081	100.00

40 245113003/946562/1/1/

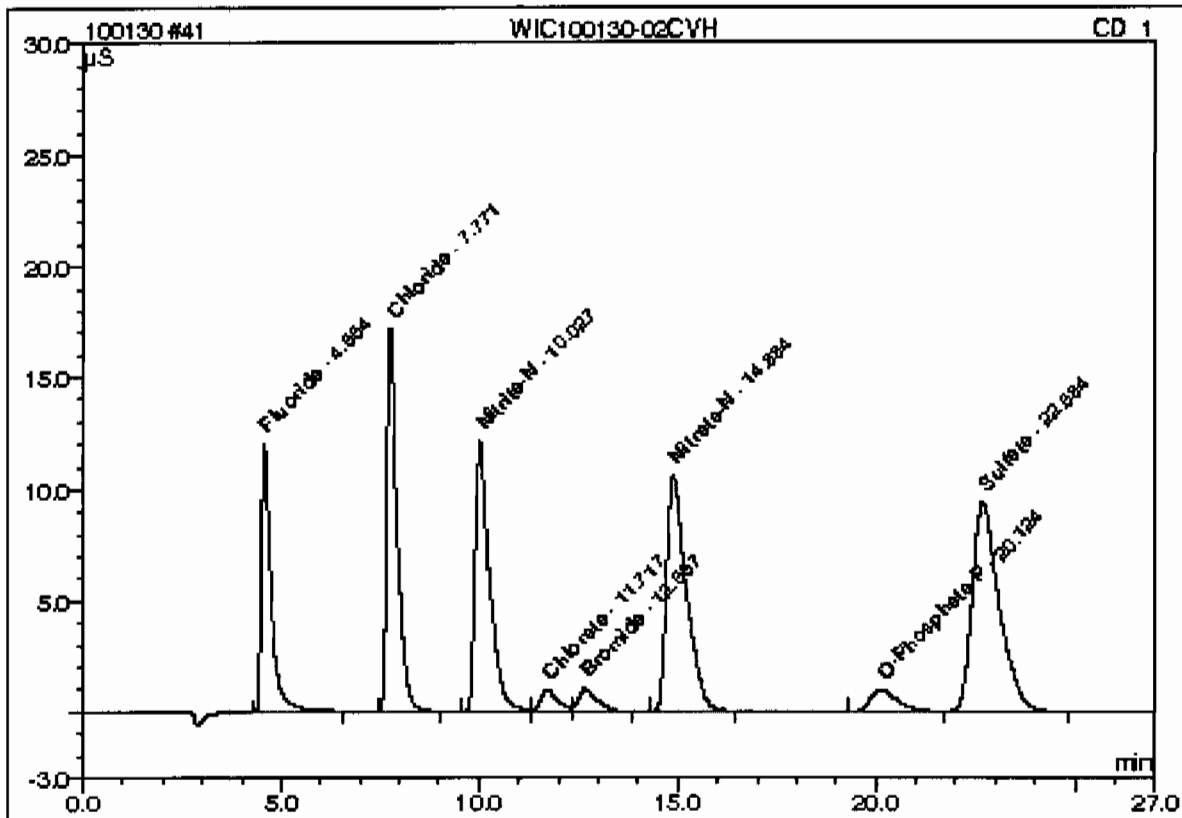
Sample Name:	245113003/946562/1/1/	Injection Volume:	50.0
Vial Number:	27	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 21:05	Analys:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.63	Fluoride	n.a.	0.1231		0.02812	21.55
2	7.79	Chloride	n.a.	0.2914		0.05241	40.16
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
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	22.72	Sulfate	n.a.	0.4972		0.04998	38.29
Total:				0.9117	0.000	0.131	100.00

41 WIC100130-02CVH

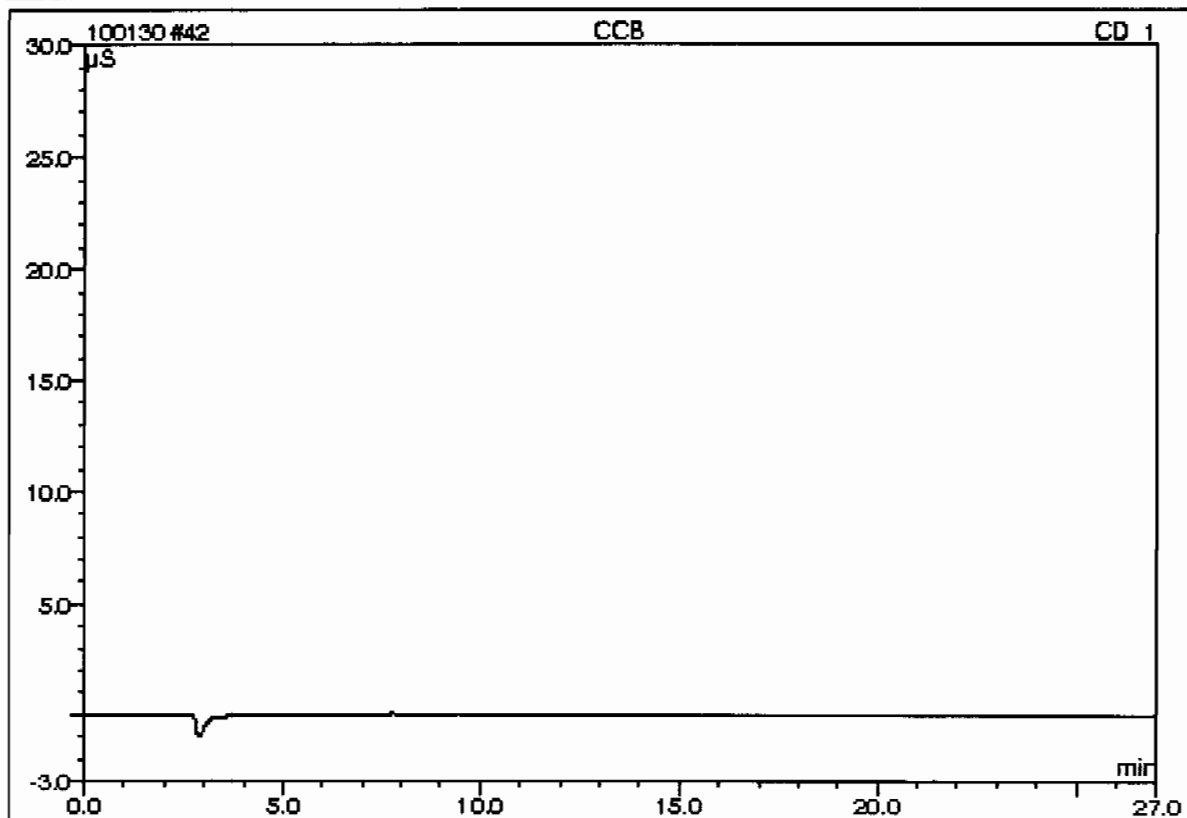
Sample Name:	WIC100130-02CVH	Injection Volume:	50.0
Vial Number:	28	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 21:35	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area uS*min	Rel.Area %
1	4.56	Fluoride	n.a.	7.3092		3.42121	11.84
2	7.77	Chloride	n.a.	14.0954		5.19072	17.97
3	10.03	Nitrite-N	n.a.	7.2755		5.01553	17.36
4	11.72	Chlorate	n.a.	3.7634		0.45374	1.57
5	12.67	Bromide	n.a.	3.7920		0.50299	1.74
6	14.88	Nitrate-N	n.a.	7.0630		6.13421	21.24
7	20.12	O-Phosphate-P	n.a.	3.0147		0.74391	2.58
8	22.68	Sulfate	n.a.	28.8167		7.42371	25.70
Total:				75.1300	0.000	28.886	100.00

42 CCB

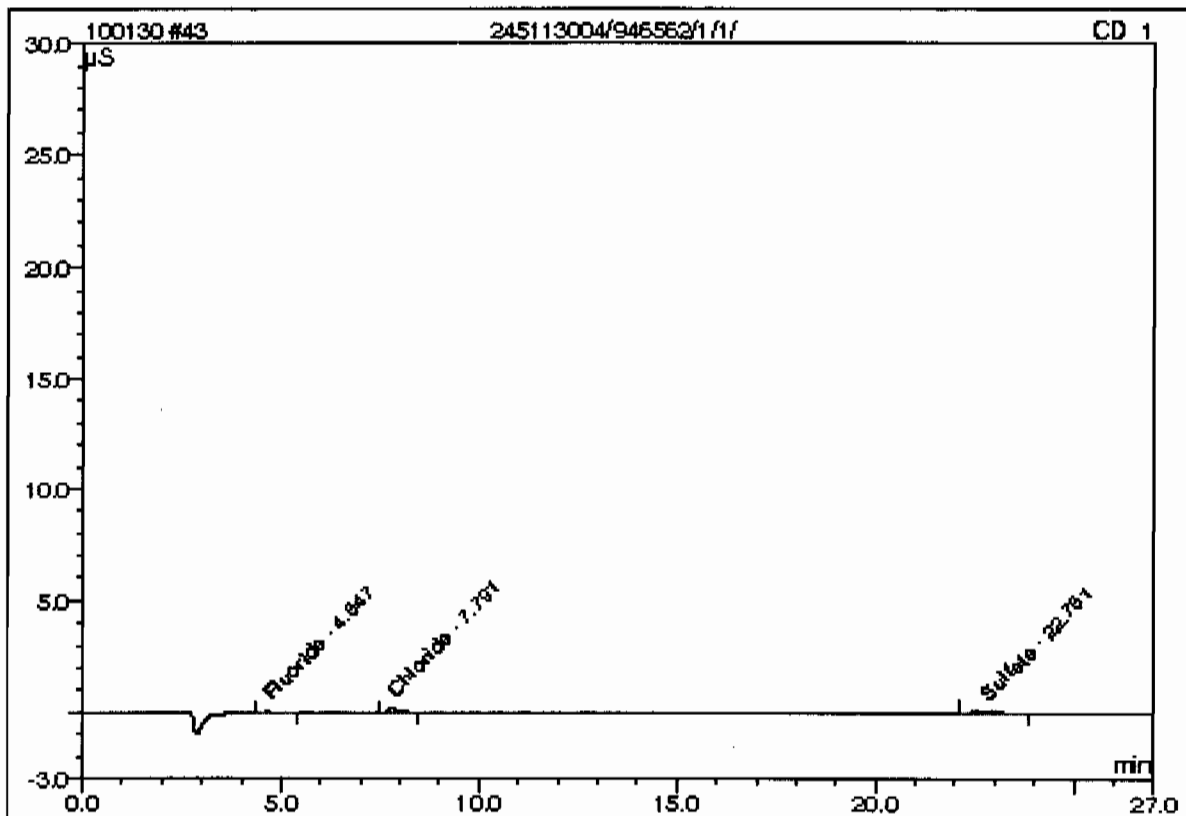
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	29	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 22:05	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86; 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

43 245113004/946562/1/1/

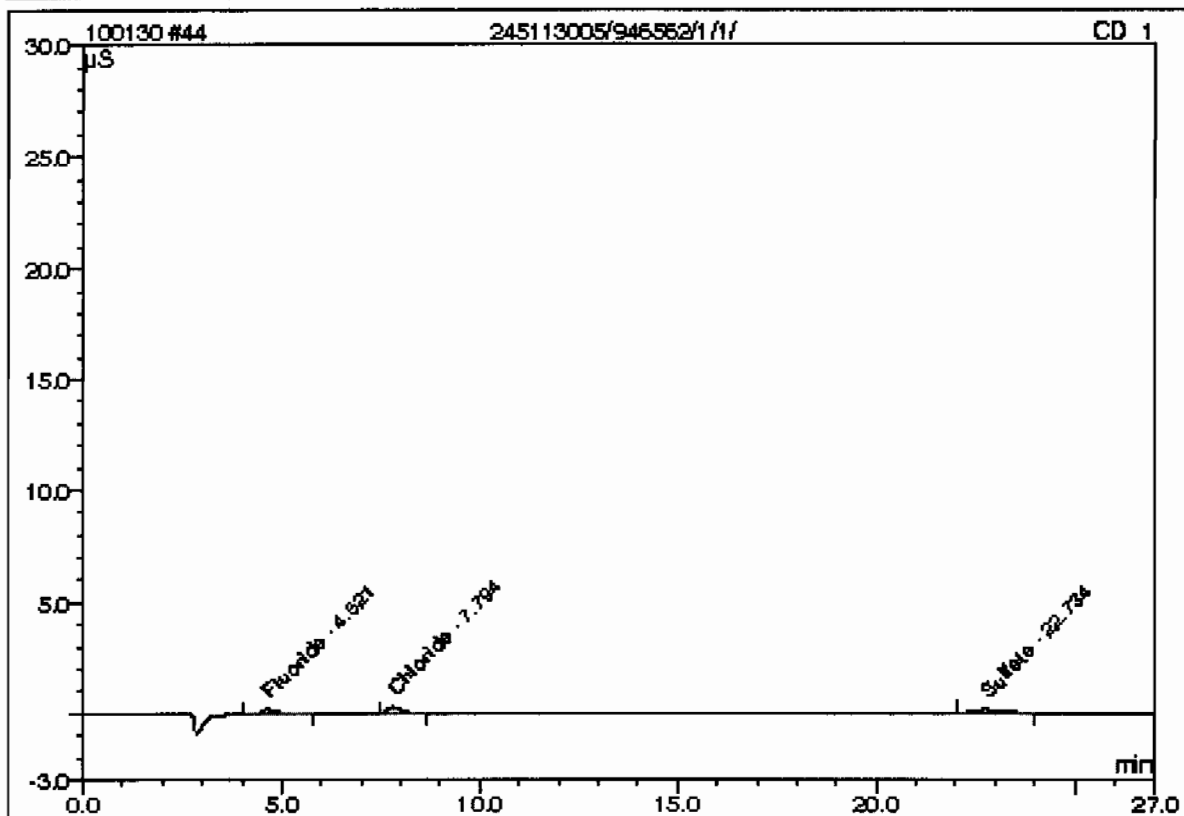
Sample Name:	245113004/946562/1/1/	Injection Volume:	50.0
Vial Number:	30	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 22:35	Analyst:	GXM3
Run Time (min):	27.00	Column:	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	4.65	Fluoride	n.a.	0.1237		0.02839	19.59
2	7.79	Chloride	n.a.	0.3195		0.06286	43.39
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.
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	22.76	Sulfate	n.a.	0.5112		0.05363	37.02
Total:				0.9544	0.000	0.145	100.00

44 245113005/946562/1/1/

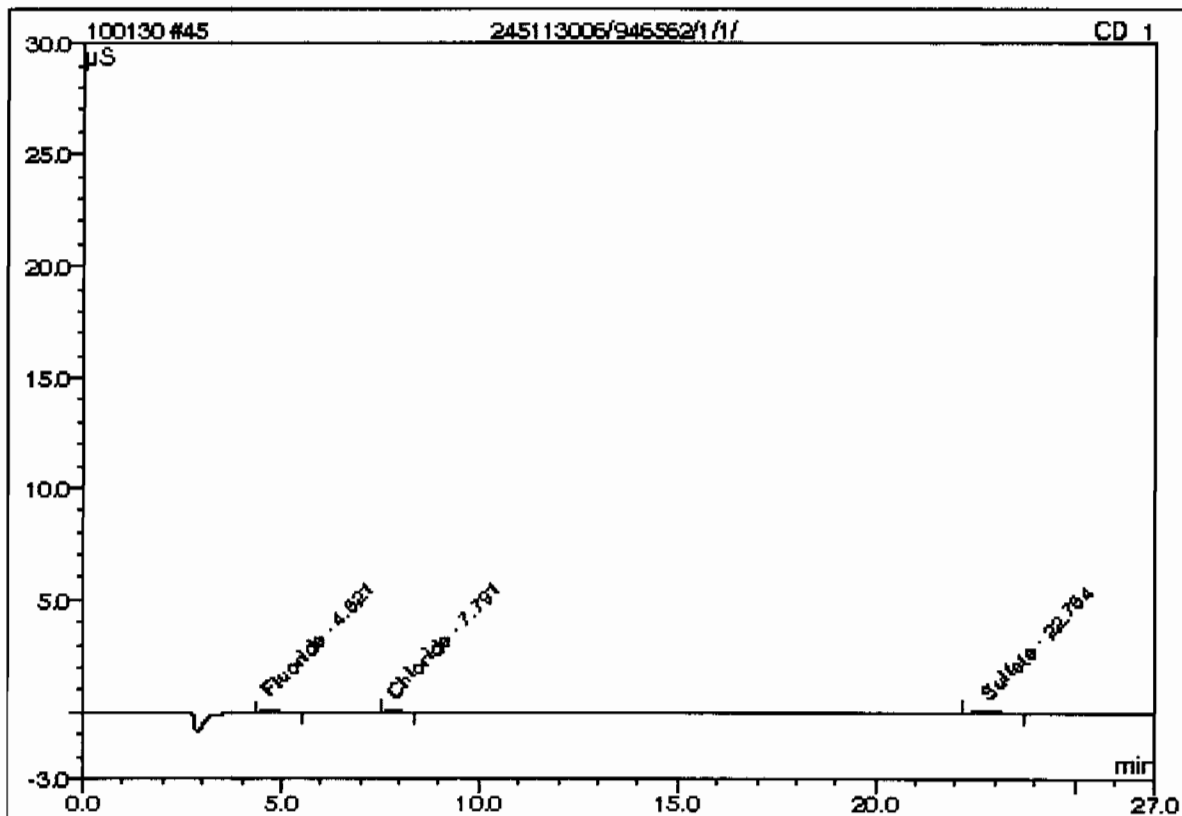
Sample Name:	245113005/946562/1/1/	Injection Volume:	50.0
Vial Number:	31	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 23:05	Analyst:	GXM3
Run Time (min):	27.00	Column:	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	4.62	Fluoride	n.a.	0.2334		0.08022	26.66
2	7.79	Chloride	n.a.	0.4147		0.09829	32.91
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	22.73	Sulfate	n.a.	0.7666		0.12014	40.23
Total:				1.4147	0.000	0.299	100.00

45 245113006/946562/1/1/

Sample Name:	245113006/946562/1/1/	Injection Volume:	50.0
Vial Number:	32	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/30/2010 23:35	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



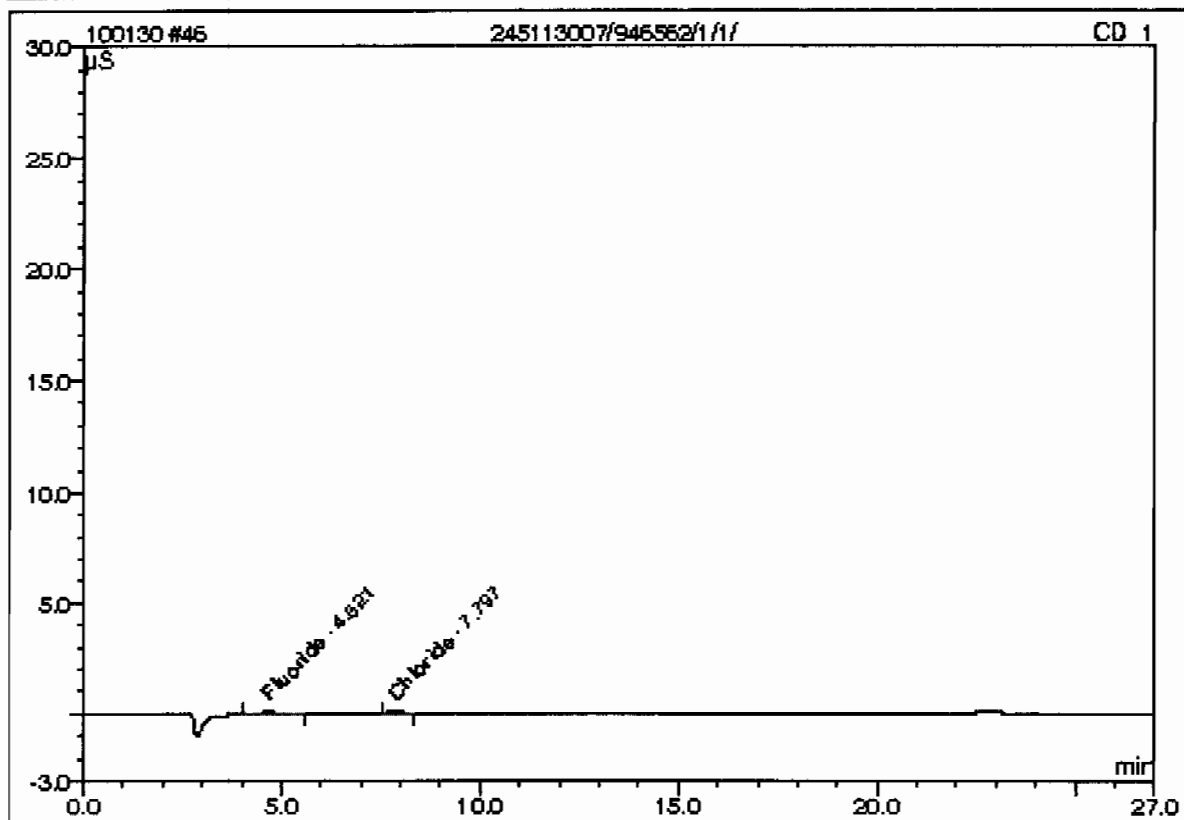
No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.62	Fluoride	n.a.	0.2037		0.06619	48.15
2	7.79	Chloride	n.a.	0.2313		0.03001	21.83
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	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	22.76	Sulfate	n.a.	0.4637		0.04127	30.02
Total:				0.8987	0.000	0.137	100.00

This is runlog for Sequence 100130.seq for IC7

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
245113007	01/31/10 00:05	946562	1	100130	GXM3
245113008	01/31/10 00:35	946562	1	100130	GXM3
245113009	01/31/10 01:05	946562	1	100130	GXM3
245113010	01/31/10 01:34	946562	1	100130	GXM3
CCV	01/31/10 02:04		1	100130	GXM3
CCB	01/31/10 02:34		1	100130	GXM3
245113011	01/31/10 03:04	946562	1	100130	GXM3
245113012	01/31/10 03:34	946562	1	100130	GXM3
245113013	01/31/10 04:04	946562	1	100130	GXM3
245113014	01/31/10 04:34	946562	1	100130	GXM3
1202027477	01/31/10 05:04	946562	1	100130	GXM3
1202027479	01/31/10 05:34	946562	1	100130	GXM3
1202027481	01/31/10 06:04	946562	1	100130	GXM3
CVH	01/31/10 06:33		1	100130	GXM3
CCB	01/31/10 07:03		1	100130	GXM3
1202027505	01/31/10 07:33	946579	1	100130	GXM3
1202027509	01/31/10 08:03	946579	1	100130	GXM3
245371001	01/31/10 08:33	946579	1	100130	GXM3
1202027506	01/31/10 09:03	946579	1	100130	GXM3
1202027507	01/31/10 09:33	946579	1	100130	GXM3
1202027508	01/31/10 10:03	946579	1	100130	GXM3
245371002	01/31/10 10:33	946579	1	100130	GXM3
245372002	01/31/10 11:03	946579	1	100130	GXM3
245372003	01/31/10 11:32	946579	1	100130	GXM3
245372004	01/31/10 12:02	946579	1	100130	GXM3
CCV	01/31/10 12:32		1	100130	GXM3
CCB	01/31/10 13:02		1	100130	GXM3

46 245113007/946562/1/1/

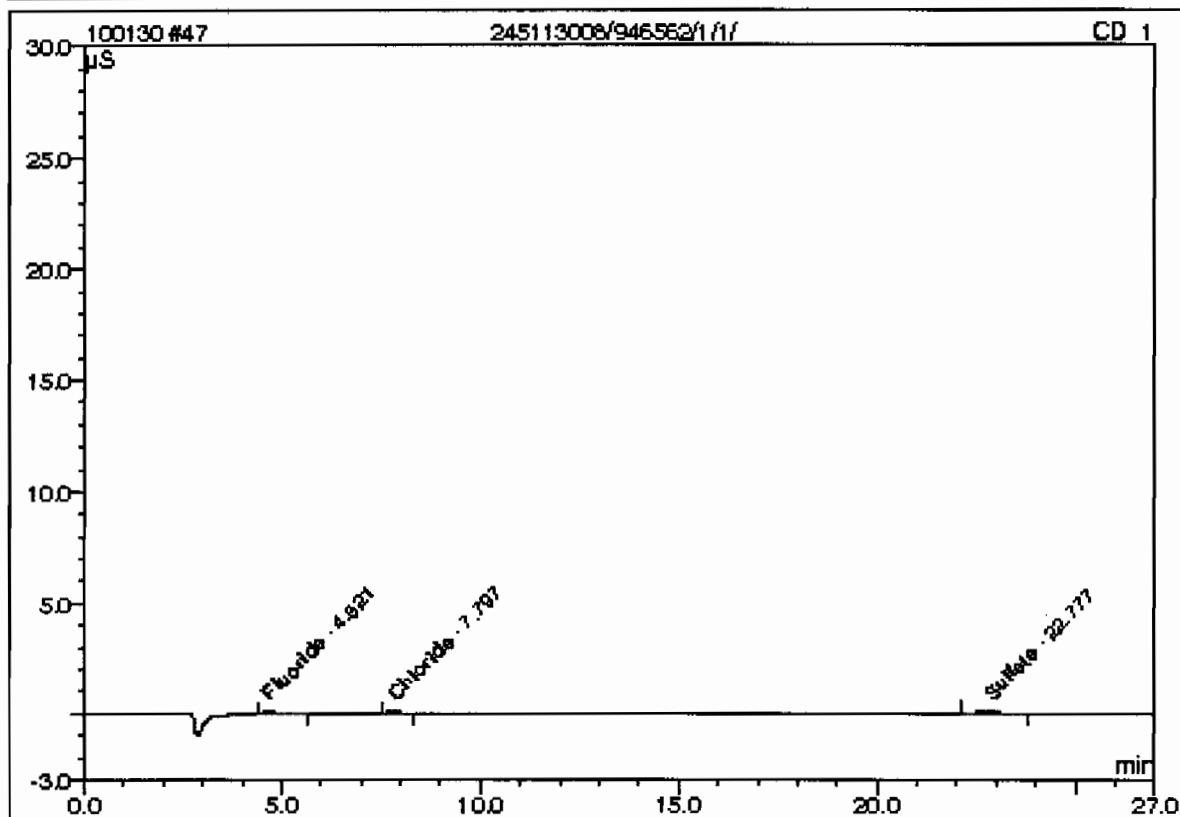
Sample Name:	245113007/946562/1/1/	Injection Volume:	50.0
Vial Number:	33	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 0:05	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.62	Fluoride	n.a.	0.1764		0.05330	66.18
2	7.80	Chloride	n.a.	0.2238		0.02724	33.82
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:				0.4003	0.000	0.081	100.00

47 245113008/946562/1/1/

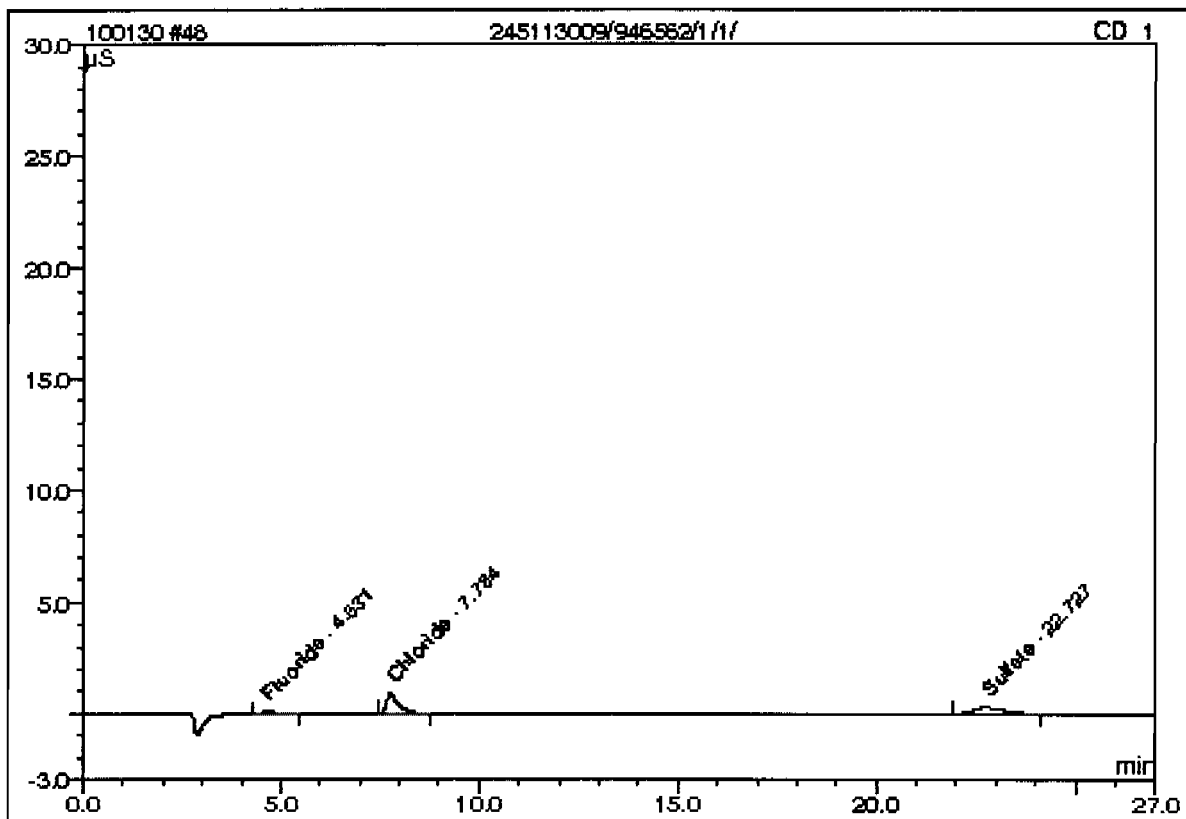
Sample Name:	245113008/946562/1/1/	Injection Volume:	50.0
Vial Number:	34	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 0:35	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC ED86; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.62	Fluoride	n.a.	0.1668		0.04969	42.77
2	7.80	Chloride	n.a.	0.2143		0.02369	20.39
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.
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	22.78	Sulfate	n.a.	0.4696		0.04281	36.84
Total:				0.8527	0.000	0.116	100.00

48 245113009/946562/1/1/

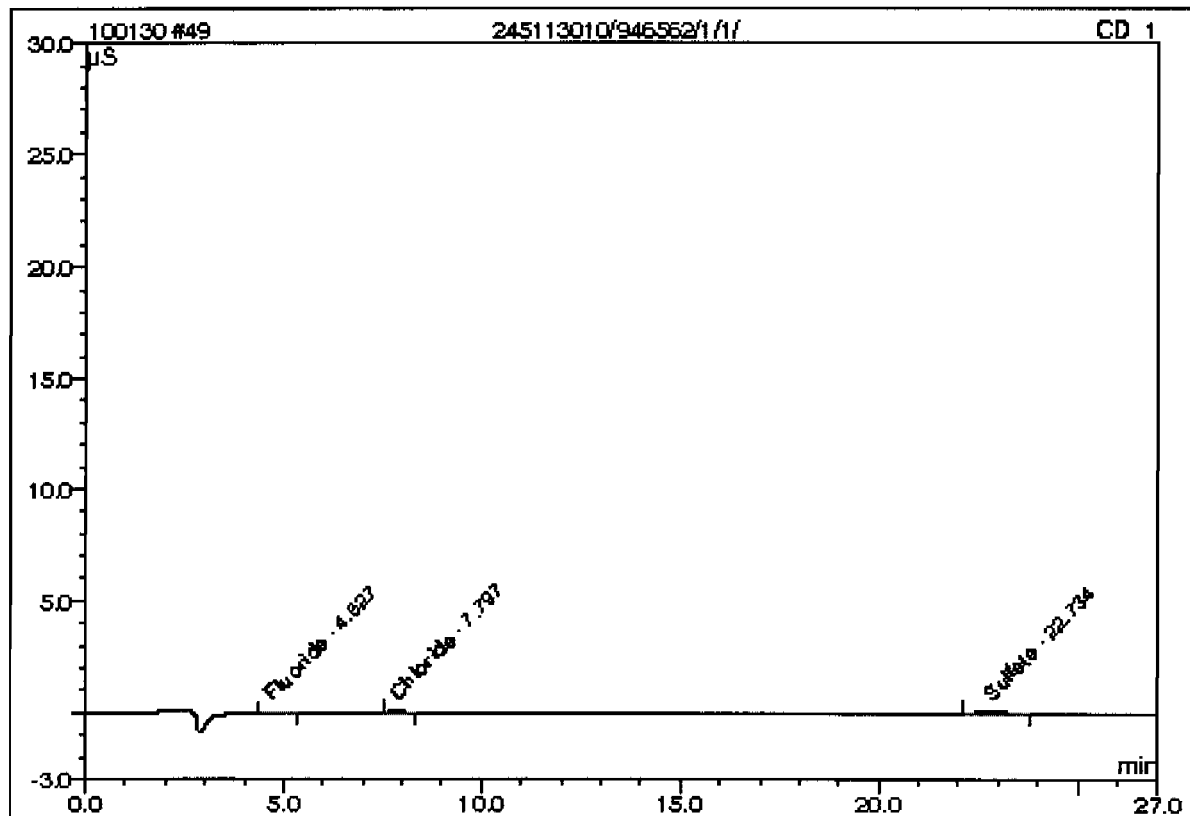
Sample Name:	245113009/946562/1/1/	Injection Volume:	50.0
Vial Number:	35	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 1:05	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.63	Fluoride	n.a.	0.1560		0.04365	7.41
2	7.78	Chloride	n.a.	0.9602		0.30134	51.13
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	22.73	Sulfate	n.a.	1.2437		0.24435	41.46
Total:				2.3599	0.000	0.589	100.00

49 245113010/946562/1/1/

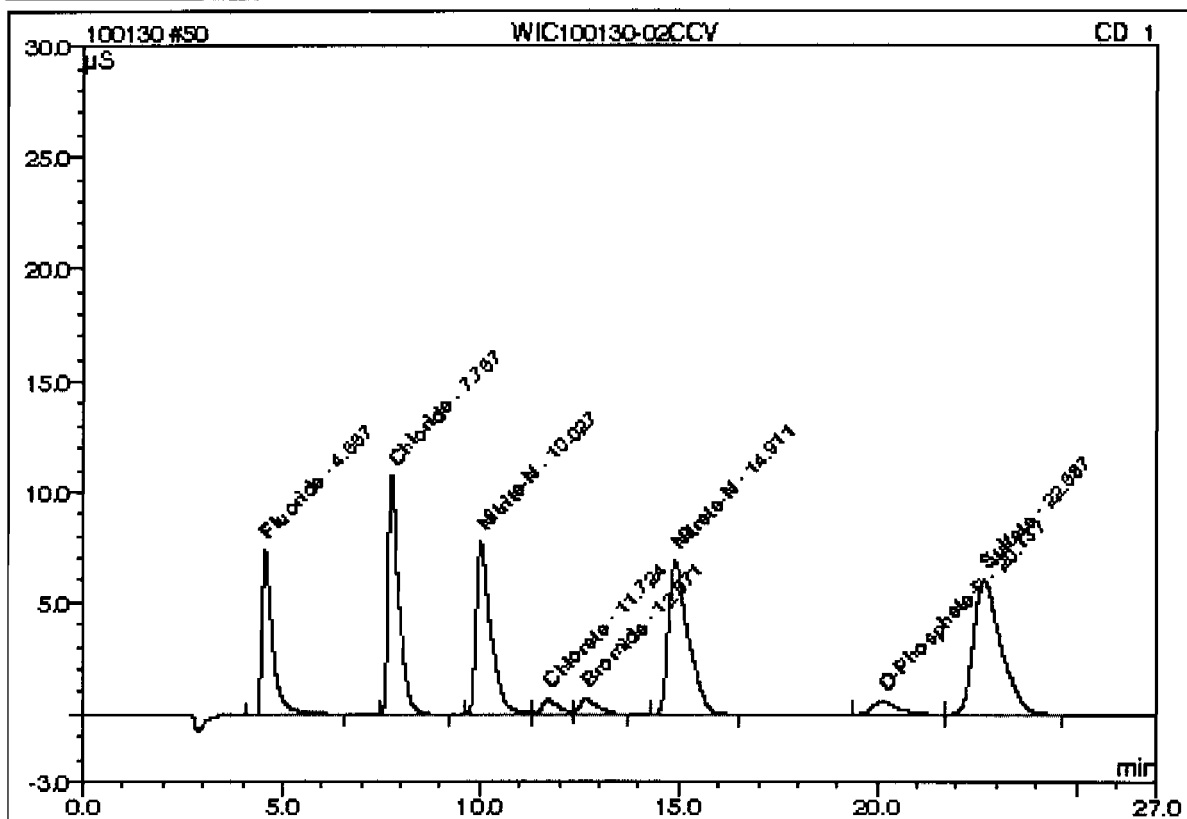
Sample Name:	245113010/946562/1/1/	Injection Volume:	50.0
Vial Number:	36	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 1:34	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.63	Fluoride	n.a.	0.1073		0.02065	21.59
2	7.80	Chloride	n.a.	0.2246		0.02753	28.78
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	22.73	Sulfate	n.a.	0.4875		0.04746	49.62
Total:				0.8194	0.000	0.096	100.00

50 WIC100130-02CCV

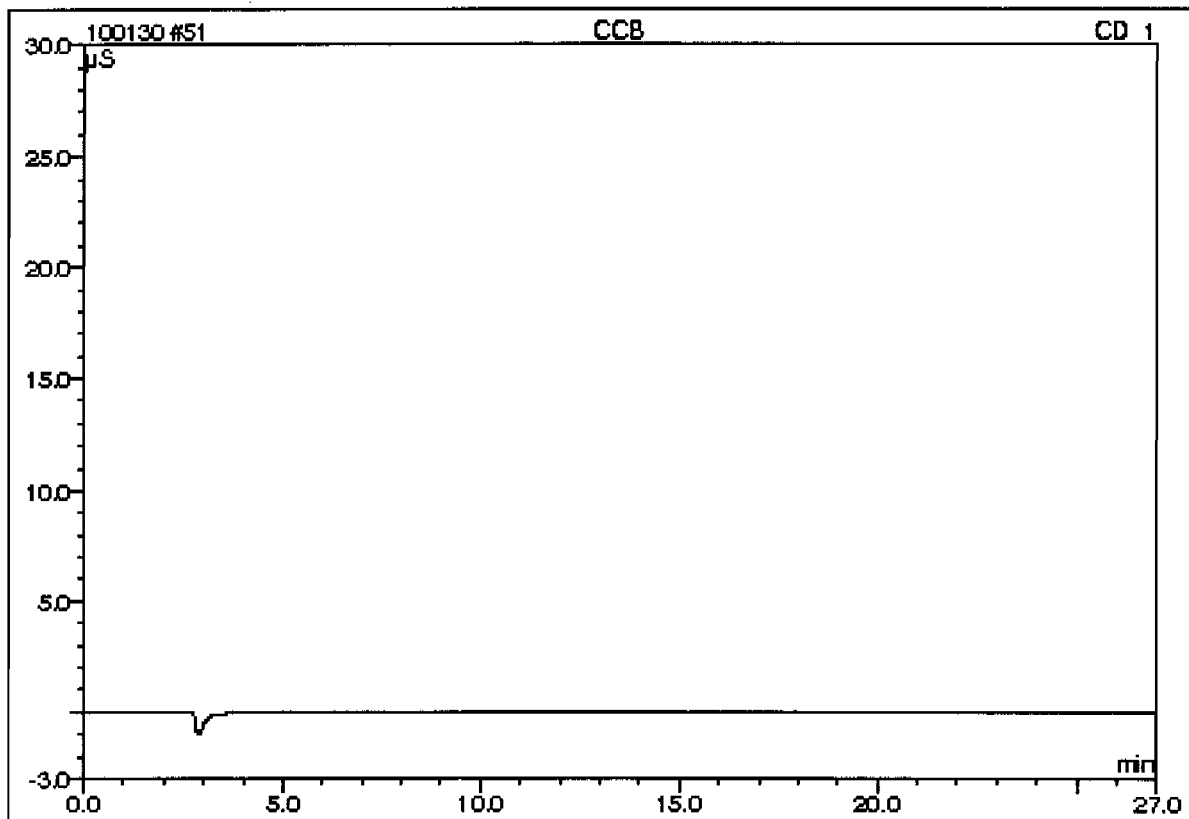
Sample Name:	WIC100130-02CCV	Injection Volume:	50.0
Vial Number:	37	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 2:04	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.57	Fluoride	n.a.	4.7455		2.21073	11.87
2	7.77	Chloride	n.a.	9.0735		3.32139	17.83
3	10.03	Nitrate-N	n.a.	4.7347		3.24477	17.42
4	11.72	Chlorate	n.a.	2.5347		0.30404	1.63
5	12.67	Bromide	n.a.	2.5784		0.34057	1.83
6	14.91	Nitrate-N	n.a.	4.5917		3.95748	21.24
7	20.14	O-Phosphate-P	n.a.	1.8420		0.44344	2.38
8	22.69	Sulfate	n.a.	18.7767		4.80954	25.81
Total:				48.8773	0.000	18.632	100.00

51 CCB

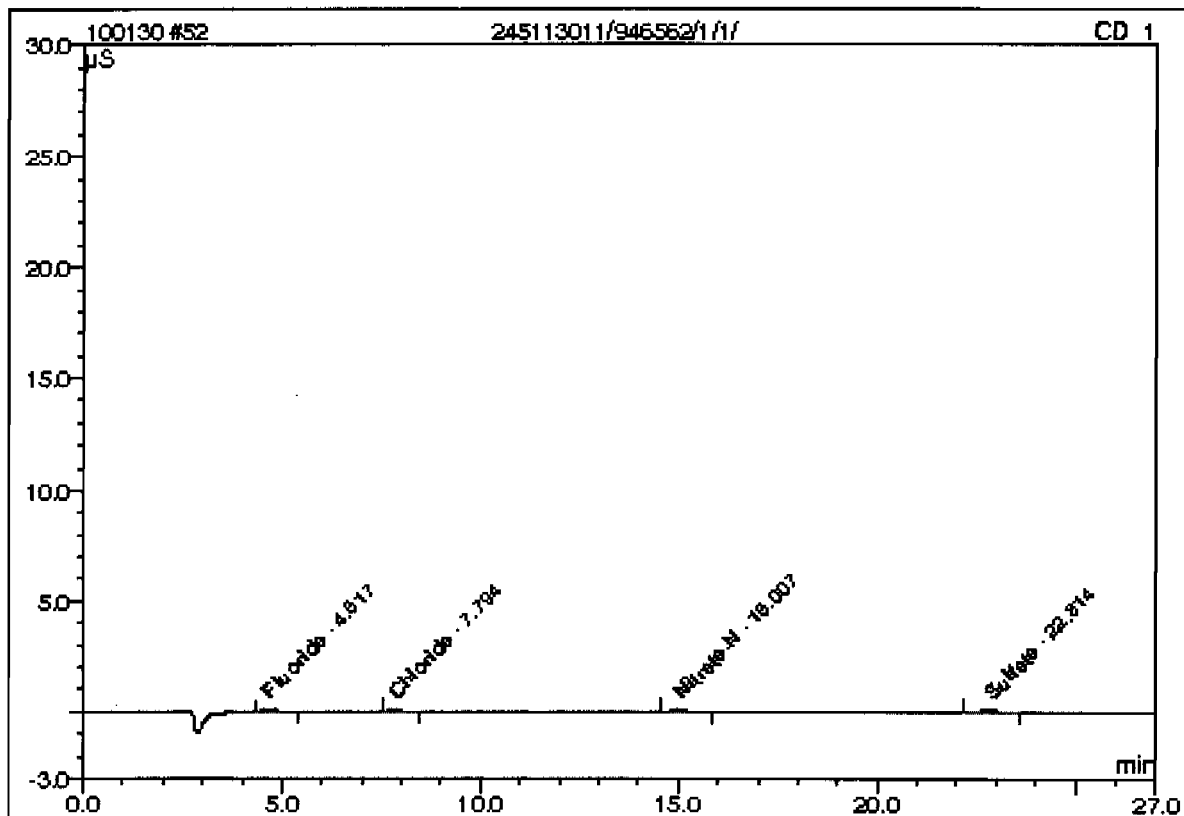
Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	38	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 2:34	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
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

52 245113011/946562/1/1/

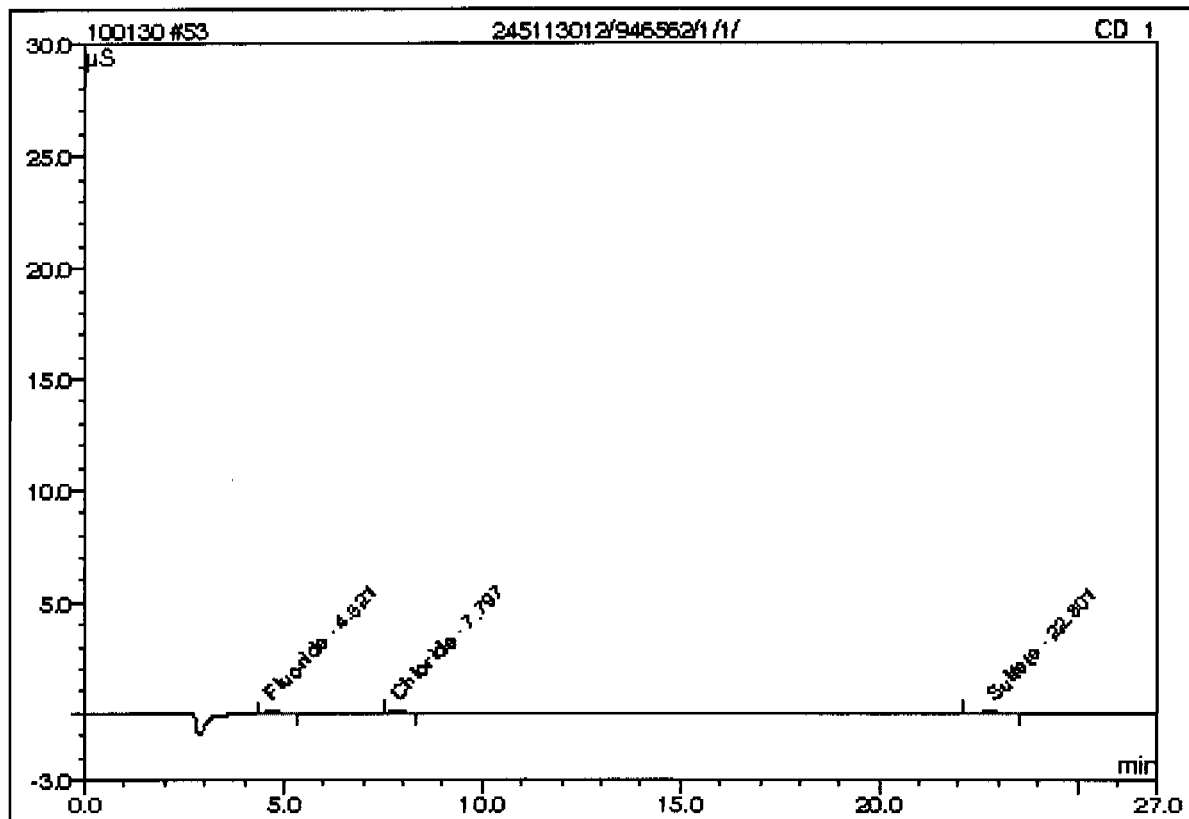
Sample Name:	245113011/946562/1/1/	Injection Volume:	50.0
Vial Number:	39	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 3:04	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.62	Fluoride	n.a.	0.1809		0.05539	43.86
2	7.79	Chloride	n.a.	0.2017		0.01899	15.04
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	15.01	Nitrate-N	n.a.	0.1303		0.02785	22.05
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	22.81	Sulfate	n.a.	0.3976		0.02405	19.05
Total:				0.9104	0.000	0.126	100.00

53 245113012/946562/1/1/

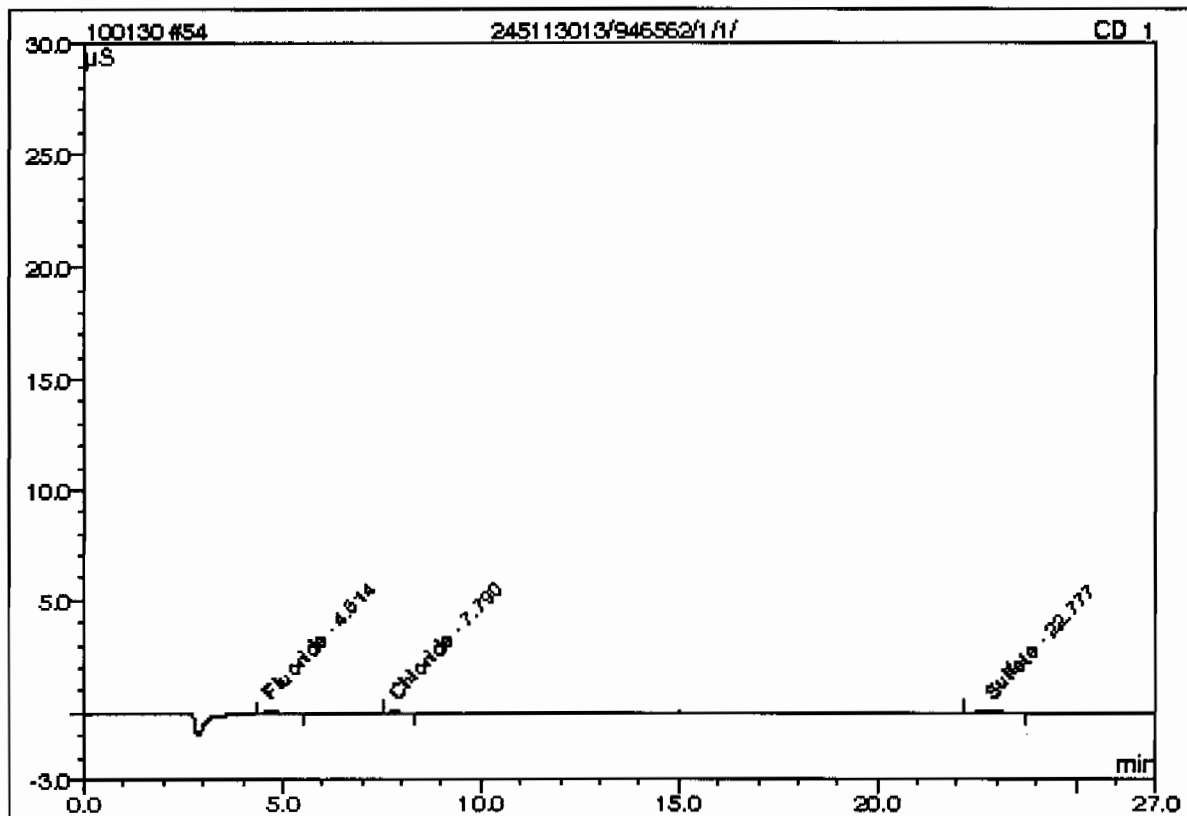
Sample Name:	245113012/946562/1/1/	Injection Volume:	50.0
Vial Number:	40	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 3:34	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.62	Fluoride	n.a.	0.1537		0.04258	44.27
2	7.80	Chloride	n.a.	0.2267		0.02829	29.42
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	22.80	Sulfate	n.a.	0.4024		0.02530	26.31
Total:				0.7828	0.000	0.096	100.00

54 245113013/946562/1/1/

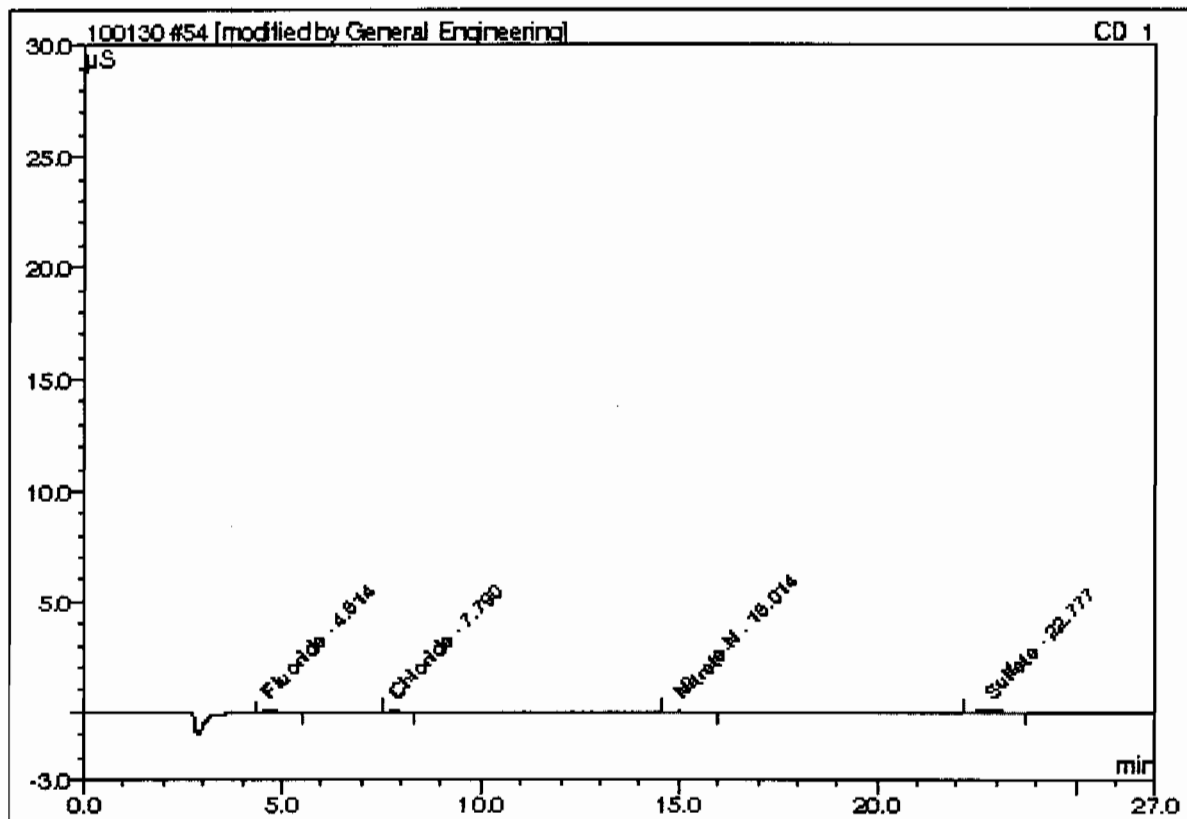
Sample Name:	245113013/946562/1/1/	Injection Volume:	50.0
Vial Number:	41	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 4:04	Analys:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.61	Fluoride	n.a.	0.1754		0.05283	48.86
2	7.79	Chloride	n.a.	0.1947		0.01641	15.17
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
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	22.78	Sulfate	n.a.	0.4546		0.03889	35.97
Total:				0.8247	0.000	0.108	100.00

54 245113013/946562/1/1/

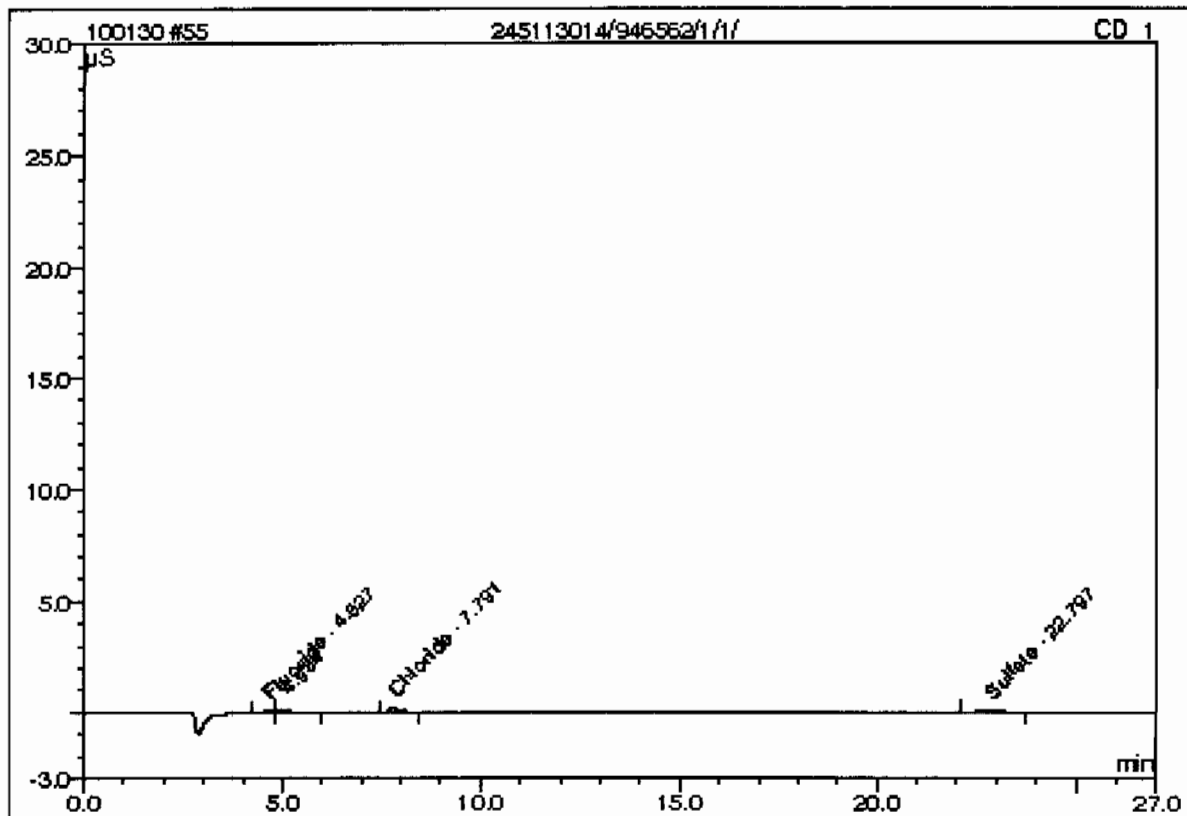
Sample Name:	245113013/946562/1/1/	Injection Volume:	50.0
Vial Number:	41	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 4:04	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCED86; 300; 9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.61	Fluoride	n.a.	0.1754		0.05283	41.21
2	7.79	Chloride	n.a.	0.1947		0.01641	12.80
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	15.01	Nitrate-N	n.a.	0.1215		0.02008	15.66
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	22.78	Sulfate	n.a.	0.4548		0.03889	30.33
Total:				0.9462	0.000	0.128	100.00

55 245113014/946562/1/1/

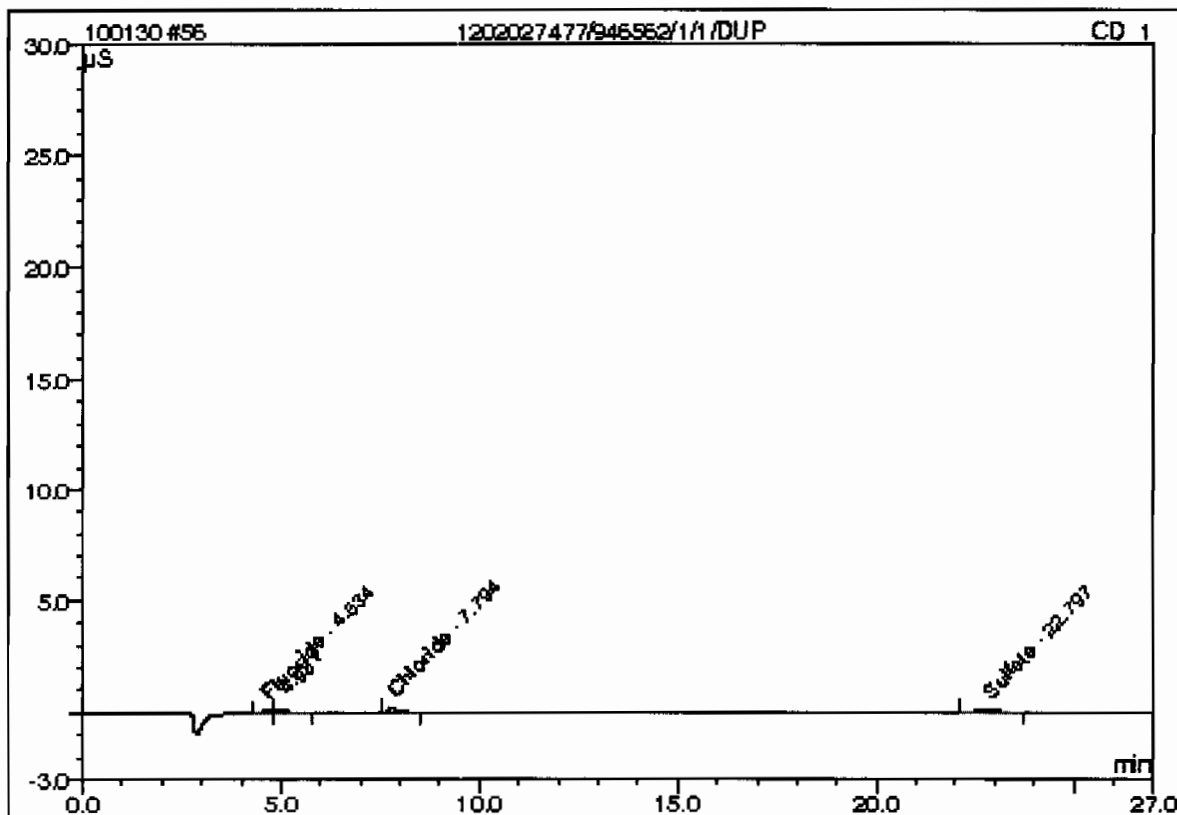
Sample Name:	245113014/946562/1/1/	Injection Volume:	50.0
Vial Number:	42	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 4:34	Analys:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.63	Fluoride	n.a.	0.1159		0.02471	13.93
3	7.79	Chloride	n.a.	0.3109		0.05967	33.63
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.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	22.80	Sulfate	n.a.	0.4751		0.04422	24.93
Total:				0.9019	0.000	0.129	72.48

56 1202027477/946562/1/1/DUP

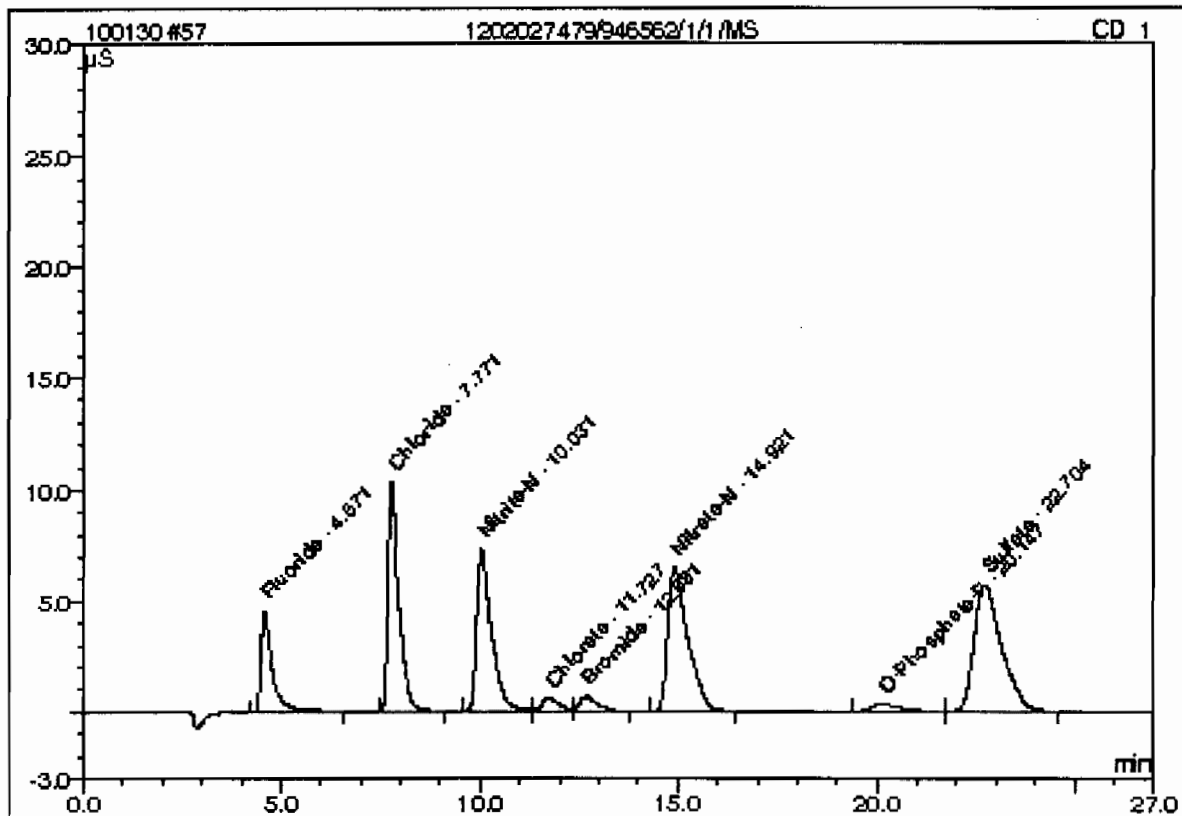
Sample Name:	1202027477/946562/1/1/DUP	Injection Volume:	50.0
Vial Number:	43	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 5:04	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.63	Fluoride	n.a.	0.1141		0.02387	14.34
3	7.79	Chloride	n.a.	0.3117		0.05994	36.01
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	22.80	Sulfate	n.a.	0.4659		0.04184	25.14
Total:				0.8917	0.000	0.126	75.48

57 1202027479/946562/1/1/MS

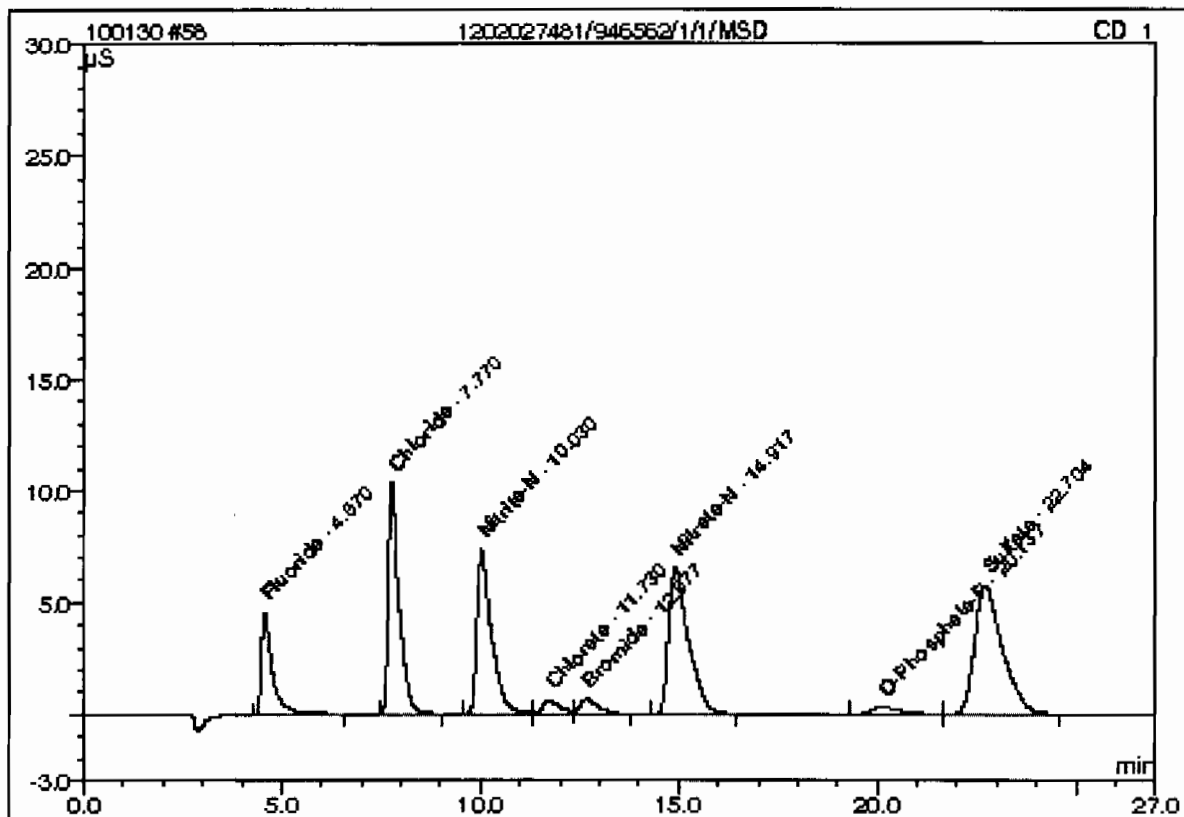
Sample Name:	1202027479/946562/1/1/MS	Injection Volume:	50.0
Vial Number:	44	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 5:34	Analyst:	GXM3
Run Time (min):	27.00	Column:	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	4.57	Fluoride	n.a.	3.1856		1.47416	8.62
2	7.77	Chloride	n.a.	8.8012		3.22004	18.82
3	10.03	Nitrite-N	n.a.	4.5306		3.10253	18.14
4	11.73	Chlorate	n.a.	2.4327		0.29162	1.70
5	12.68	Bromide	n.a.	2.4593		0.32464	1.90
6	14.92	Nitrate-N	n.a.	4.4065		3.79436	22.18
7	20.15	O-Phosphate-P	n.a.	1.0983		0.25289	1.48
8	22.70	Sulfate	n.a.	18.1478		4.64577	27.16
Total:				45.0621	0.000	17.106	100.00

58 1202027481/946562/1/1/MSD

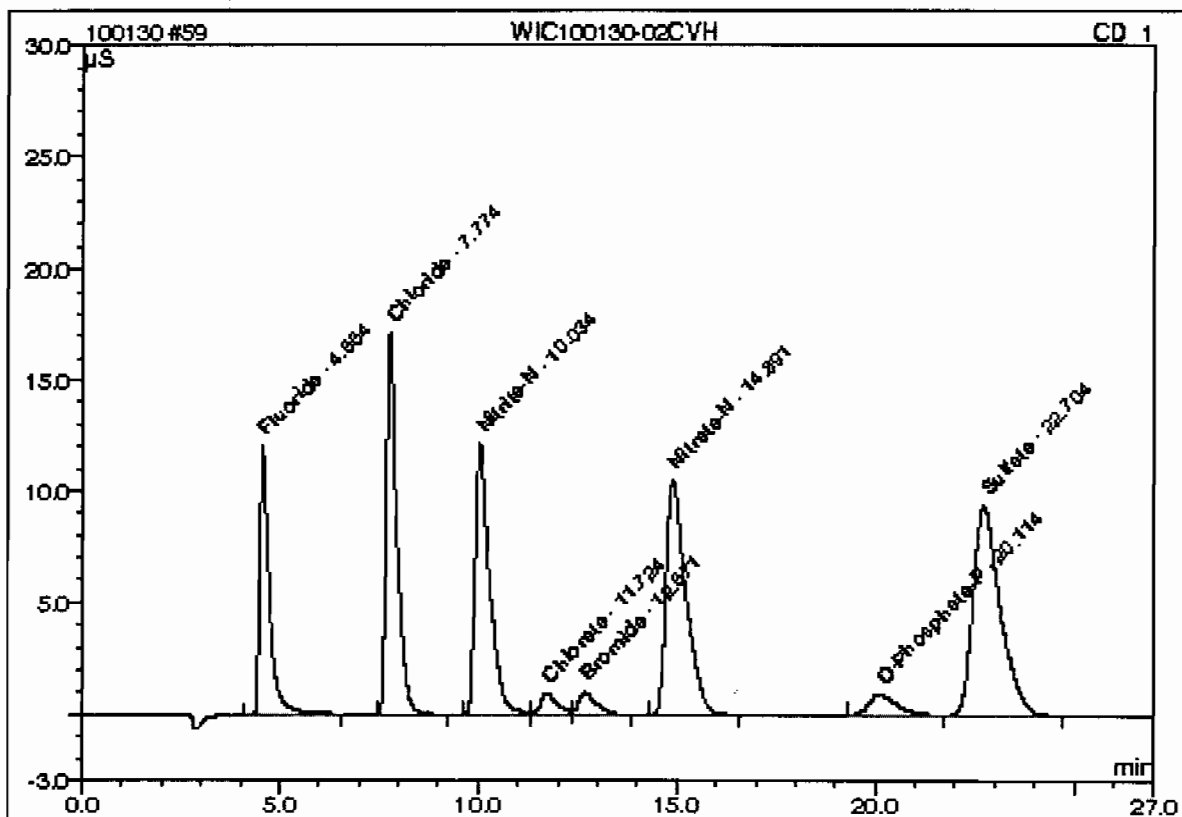
Sample Name:	1202027481/946562/1/1/MSD	Injection Volume:	50.0
Vial Number:	45	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 6:04	Analyst:	GXM3
Run Time (min):	27.00	Column:	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	4.57	Fluoride	n.a.	3.1963		1.47923	8.63
2	7.77	Chloride	n.a.	8.8171		3.22596	18.83
3	10.03	Nitrite-N	n.a.	4.5407		3.10956	18.15
4	11.73	Chlorate	n.a.	2.4473		0.29340	1.71
5	12.68	Bromide	n.a.	2.4895		0.32868	1.92
6	14.92	Nitrate-N	n.a.	4.4082		3.79581	22.15
7	20.14	O-Phosphate-P	n.a.	1.0851		0.24952	1.46
8	22.70	Sulfate	n.a.	18.1672		4.65084	27.15
Total:				45.1515	0.000	17.133	100.00

59 WIC100130-02CVH

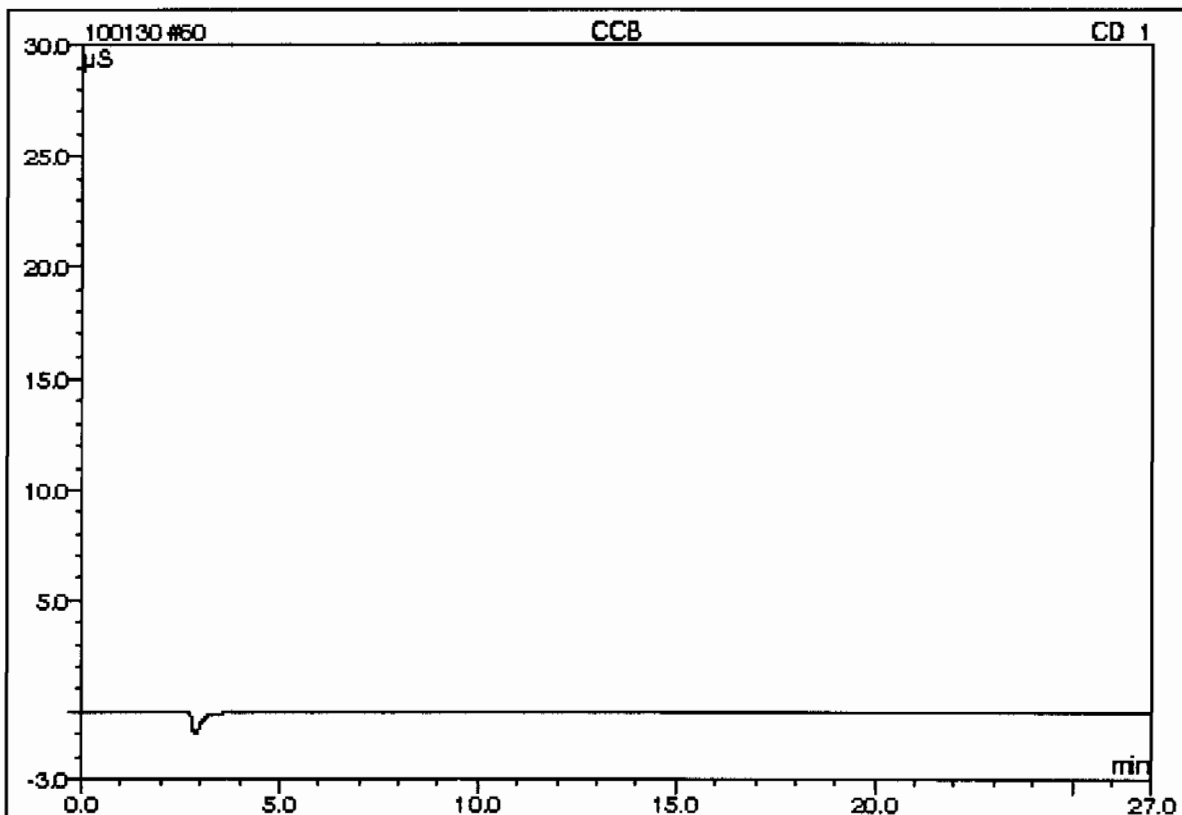
Sample Name:	WIC100130-02CVH	Injection Volume:	50.0
Vial Number:	46	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantit. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 6:33	Analyst:	GXM3
Run Time (min):	27.00	Column:	AS23-002407; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.56	Fluoride	n.a.	7.2954		3.41472	11.82
2	7.77	Chloride	n.a.	14.1168		5.19869	17.99
3	10.03	Nitrate-N	n.a.	7.2957		5.02965	17.40
4	11.72	Chlorate	n.a.	3.7610		0.45345	1.57
5	12.67	Bromide	n.a.	3.8317		0.50831	1.76
6	14.89	Nitrate-N	n.a.	7.0691		6.13957	21.25
7	20.11	O-Phosphate-P	n.a.	2.9786		0.73464	2.54
8	22.70	Sulfate	n.a.	28.8010		7.41962	25.67
Total:				75.1494	0.000	28.899	100.00

60 CCB

Sample Name:	CCB	Injection Volume:	50.0
Vial Number:	47	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100120an	Sample Amount:	1.0000
Recording Time:	1/31/2010 7:03	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

pH

pH / Corrosivity LogBook

Analyst: EXF1
 Batch: 944409
 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(%)
1202022309 LCS		Soil	10:00	10:05	22-JAN-10 10:23	pH	20	20	7.02	21.1°C	7	100.286	
1202022309 LCS		Soil	10:00	10:05	22-JAN-10 10:23	pH 2	20	20	7.01	21.2°C	7	100.143	
245113001		Soil	10:00	10:05	22-JAN-10 10:25	pH	20	20	6.34	21.1°C			
245113001		Soil	10:00	10:05	22-JAN-10 10:25	pH 2	20	20	6.33	21.2°C			
1202022307 DUP	245113001	Soil	10:00	10:05	22-JAN-10 10:26	pH	20	20	6.35	21.2°C			.158
1202022307 DUP	245113001	Soil	10:00	10:05	22-JAN-10 10:26	pH 2	20	20	6.33	21.2°C			0
245113002		Soil	10:00	10:05	22-JAN-10 10:29	pH	20	20	5.67	21.3°C			
245113002		Soil	10:00	10:05	22-JAN-10 10:29	pH 2	20	20	5.65	21.3°C			
245113003		Soil	10:00	10:05	22-JAN-10 10:32	pH	20	20	6.08	21.3°C			
245113003		Soil	10:00	10:05	22-JAN-10 10:32	pH 2	20	20	6.05	21.2°C			
CCV			10:00	10:05	22-JAN-10 10:35	pH	20	20	7	19.8°C	7	100	
CCV			10:00	10:05	22-JAN-10 10:35	pH 2	20	20	7	19.8°C	7	100	
245113004		Soil	10:00	10:05	22-JAN-10 10:36	pH	20	20	6.03	21.1°C			
245113004		Soil	10:00	10:05	22-JAN-10 10:36	pH 2	20	20	6.01	21.1°C			
245113005		Soil	10:00	10:05	22-JAN-10 10:38	pH	20	20	5.39	21.3°C			
245113005		Soil	10:00	10:05	22-JAN-10 10:38	pH 2	20	20	5.36	21.2°C			
245113006		Soil	10:00	10:05	22-JAN-10 10:42	pH	20	20	5.95	21.1°C			
245113006		Soil	10:00	10:05	22-JAN-10 10:42	pH 2	20	20	5.92	21.1°C			
245113007		Soil	10:00	10:05	22-JAN-10 10:47	pH	20	20	5.77	21.0°C			
245113007		Soil	10:00	10:05	22-JAN-10 10:47	pH 2	20	20	5.75	21.0°C			
245113009		Soil	10:00	10:05	22-JAN-10 10:49	pH	20	20	5.52	21.1°C			
245113009		Soil	10:00	10:05	22-JAN-10 10:49	pH 2	20	20	5.48	21.1°C			
CCV			10:00	10:05	22-JAN-10 10:53	pH	20	20	6.99	19.8°C	7	99.857	
CCV			10:00	10:05	22-JAN-10 10:53	pH 2	20	20	6.98	20.0°C	7	99.714	
245113010		Soil	10:00	10:05	22-JAN-10 10:55	pH	20	20	6.07	21.1°C			
245113010		Soil	10:00	10:05	22-JAN-10 10:55	pH 2	20	20	6.04	21.1°C			
245113011		Soil	10:00	10:05	22-JAN-10 10:58	pH	20	20	6.12	21.1°C			
245113011		Soil	10:00	10:05	22-JAN-10 10:58	pH 2	20	20	6.1	21.1°C			

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pH / Corrosivity LogBook

Analyst: EXF1
 Batch: 944409
 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
 1202022309
 IMM091221-01
 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Net(mg/L)	Recovery(%)	Rpd(%)
245113012		Soil	10:00	10:05	22-JAN-10 11:04	pH	20	20	5.97	21.0°C			
245113012		Soil	10:00	10:05	22-JAN-10 11:04	pH 2	20	20	5.96	21.1°C			
245113013		Soil	10:00	10:05	22-JAN-10 11:06	pH	20	20	5.64	21.1°C			
245113013		Soil	10:00	10:05	22-JAN-10 11:06	pH 2	20	20	5.6	21.0°C			
245113014		Soil	10:00	10:05	22-JAN-10 11:11	pH	20	20	6.07	21.0°C			
245113014		Soil	10:00	10:05	22-JAN-10 11:11	pH 2	20	20	6.03	21.0°C			
CCV			10:00	10:05	22-JAN-10 11:14	pH	20	20	6.99	20.1°C	7	99.857	
CCV			10:00	10:05	22-JAN-10 11:14	pH 2	20	20	6.98	20.2°C	7	99.714	
1202022308 DUP	245113014	Soil	10:00	10:05	22-JAN-10 11:16	pH	20	20	6.08	21.0°C			.165
1202022308 DUP	245113014	Soil	10:00	10:05	22-JAN-10 11:16	pH 2	20	20	6.07	20.9°C			.661
CCV			10:00	10:05	22-JAN-10 11:19	pH	20	20	6.97	20.3°C	7	99.571	
CCV			10:00	10:05	22-JAN-10 11:19	pH 2	20	20	6.97	20.3°C	7	99.571	

Comments:

Calibration Information:				Comments:			
Run Date:	22-JAN-10 10:15	Standard	Observed	Theoretical	C	%Recovery	
Instrument:	PHX370	IMM100122-PH1	4.01	SU	21.1	100.25	
Analyst:	EXF1	IMM100122-PH-	7.01	SU	21.1	100.14	
		UPH100122-b	10	SU	21.1	100	
		UPH100122-02c-	2.03	SU	21.1	101.5	
		100122-b	12.03	SU	21.1	100.25	
		IMM100122-01b	7	SU	21.1	100	

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pH / Corrosivity LogBook

Analyst: EXF1
 Batch: 945107
 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(%)	Description	
														Type	Serial Number
1202024171	LCS	Soil	15:00	15:05	25-JAN-10 15:03	pH	20	20	6.99	20.3°C	7	99.857		CCV	IMM091029-PH
1202024171	LCS	Soil	15:00	15:05	25-JAN-10 15:03	pH 2	20	20	6.99	20.4°C	7	99.857			PH 7 BUFFER FOR PH
245113008		Soil	15:00	15:05	25-JAN-10 15:06	pH	20	20	6.17	20.2°C					LCS BUFFER SOLUTION
245113008		Soil	15:00	15:05	25-JAN-10 15:06	pH 2	20	20	6.16	20.4°C					
245383001		Soil	15:00	15:05	25-JAN-10 15:10	pH	20	20	6.29	20.3°C					
245383001		Soil	15:00	15:05	25-JAN-10 15:10	pH 2	20	20	6.28	20.3°C					
1202024169	DUP	245383001	15:00	15:05	25-JAN-10 15:12	pH	20	20	6.21	20.3°C			1.28		
1202024169	DUP	245383001	15:00	15:05	25-JAN-10 15:12	pH 2	20	20	6.19	20.3°C			1.443		
245383002		Soil	15:00	15:05	25-JAN-10 15:13	pH	20	20	5.88	20.0°C					
245383002		Soil	15:00	15:05	25-JAN-10 15:13	pH 2	20	20	5.86	20.2°C					
CCV			15:00	15:05	25-JAN-10 15:16	pH	20	20	7.01	20.4°C	7	100.143			
CCV			15:00	15:05	25-JAN-10 15:16	pH 2	20	20	7.01	20.6°C	7	100.143			
245383003		Soil	15:00	15:05	25-JAN-10 15:17	pH	20	20	6.77	20.2°C					
245383003		Soil	15:00	15:05	25-JAN-10 15:17	pH 2	20	20	6.77	20.2°C					
245383004		Soil	15:00	15:05	25-JAN-10 15:19	pH	20	20	6.53	20.1°C					
245383004		Soil	15:00	15:05	25-JAN-10 15:19	pH 2	20	20	6.51	20.3°C					
245383005		Soil	15:00	15:05	25-JAN-10 15:20	pH	20	20	6.46	20.3°C					
245383005		Soil	15:00	15:05	25-JAN-10 15:20	pH 2	20	20	6.44	20.3°C					
245389001		Soil	15:00	15:05	25-JAN-10 15:24	pH	20	20	8.11	20.4°C					
245389001		Soil	15:00	15:05	25-JAN-10 15:24	pH 2	20	20	8.1	20.5°C					
245389002		Soil	15:00	15:05	25-JAN-10 15:26	pH	20	20	7.27	20.1°C					
245389002		Soil	15:00	15:05	25-JAN-10 15:26	pH 2	20	20	7.24	20.1°C					
CCV			15:00	15:05	25-JAN-10 15:28	pH	20	20	7	20.5°C	7	100			
CCV			15:00	15:05	25-JAN-10 15:28	pH 2	20	20	6.99	20.5°C	7	99.857			
245389003		Soil	15:00	15:05	25-JAN-10 15:30	pH	20	20	7.87	20.2°C					
245389003		Soil	15:00	15:05	25-JAN-10 15:30	pH 2	20	20	7.81	20.2°C					
245389004		Soil	15:00	15:05	25-JAN-10 15:31	pH	20	20	7.89	20.0°C					
245389004		Soil	15:00	15:05	25-JAN-10 15:31	pH 2	20	20	7.9	20.0°C					

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pH / Corrosivity LogBook

Analyst: EXF1
 Batch: 945107
 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
 Sample Id: 1202024171
 Serial Number: IMM091221-01
 Description: 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(%)
245389005		Soil	15:00	15:05	25-JAN-10 15:34	pH	20	20	7.89	20.0°C			
245389005		Soil	15:00	15:05	25-JAN-10 15:34	pH 2	20	20	7.86	20.0°C			
245389006		Soil	15:00	15:05	25-JAN-10 15:37	pH	20	20	8.04	19.9°C			
245389006		Soil	15:00	15:05	25-JAN-10 15:37	pH 2	20	20	8.03	19.9°C			
245389007		Soil	15:00	15:05	25-JAN-10 15:38	pH	20	20	7.51	19.9°C			
245389007		Soil	15:00	15:05	25-JAN-10 15:38	pH 2	20	20	7.51	19.9°C			
CCV			15:00	15:05	25-JAN-10 15:39	pH	20	20	6.98	20.5°C	7	99.714	
CCV			15:00	15:05	25-JAN-10 15:39	pH 2	20	20	6.97	20.5°C	7	99.571	
245389008		Soil	15:00	15:05	25-JAN-10 15:42	pH	20	20	7.35	19.8°C			
245389008		Soil	15:00	15:05	25-JAN-10 15:42	pH 2	20	20	7.34	19.9°C			
245389009		Soil	15:00	15:05	25-JAN-10 15:44	pH	20	20	8.08	19.9°C			
245389009		Soil	15:00	15:05	25-JAN-10 15:44	pH 2	20	20	8.09	20.1°C			
245389010		Soil	15:00	15:05	25-JAN-10 15:46	pH	20	20	7.05	19.8°C			
245389010		Soil	15:00	15:05	25-JAN-10 15:46	pH 2	20	20	7.05	19.8°C			
1202024170 DUP	245389010	Soil	15:00	15:05	25-JAN-10 15:48	pH	20	20	7.06	19.8°C			.142
1202024170 DUP	245389010	Soil	15:00	15:05	25-JAN-10 15:48	pH 2	20	20	7.06	19.8°C			.142
245389011		Soil	15:00	15:05	25-JAN-10 15:50	pH	20	20	6.63	19.4°C			
245389011		Soil	15:00	15:05	25-JAN-10 15:50	pH 2	20	20	6.64	19.8°C			
CCV			15:00	15:05	25-JAN-10 15:53	pH	20	20	6.98	20.2°C	7	99.714	
CCV			15:00	15:05	25-JAN-10 15:53	pH 2	20	20	6.97	20.4°C	7	99.571	

Calibration Information: Run Date: 25-JAN-10 14:59 Instrument: PHX370 Analyst: EXF1

Standard	Observed	Theoretical	C	%Recovery
IMM100125-PH1	4.01	4	SU	20.4
IMM100125-PH-	7.01	7	SU	20.4
UPH100125-a	10	10	SU	20.4
UPH100125-02c-	2.03	2	SU	20.4
I00125-a	12.03	12	SU	20.4
IMM100125-01a	6.99	7	SU	20.4

Comments:

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Miscellaneous

DATA EXCEPTION REPORT

Mo. Day Yr. 01-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: LACHAT Flow Injection Analyzer	Test / Method: SW846 9012A	Matrix Type: Solid	Client Code: LANL
Batch ID: 944403	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 245113(10-1325-1),245119(10-1328) Application Issues: Failed Recovery for MS/PS Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/MSD: QC 1202022293MS, 1202022294MS 1202022295MSD, 1202022296MSD		1. The matrix spike falls outside of the required acceptance limits due to matrix interference. The matrix spike duplicate verified the result with a passing RPD.	

Originator's Name:

Ashley Earl 01-FEB-10

Data Validator/Group Leader:

Elzbieta Szulc 04-FEB-10

DATA EXCEPTION REPORT

Mo. Day Yr. 03-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: IC	Test / Method: EPA 300.0	Matrix Type: Solid	Client Code: LANL
Batch ID: 946562	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 245113(10-1325-1) Application Issues: Failed Recovery for MS/PS Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/MSD: QC 1202027478MS, QC 1202027480MSD QC 1202027479MS, QC 1202027481MSD		1. The MS and MSD recoveries for Nitrate fall outside of the GEL acceptance limits but within the client specified limits.	

Originator's Name:

Greg Milton 03-FEB-10

Data Validator/Group Leader:

Julia Hamilton 05-FEB-10