Thursday, January 28, 2010

REQUEST NUMBER: 10-1474

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:10-1474

Per Agreement Number:126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 1/28/2010

TURNAROUND/REPORT DUE: 2/27/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-8081	W	1/26/2010	

Thursday, January 28, 2010

REQUEST NUMBER: 10-1474

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-8082	W	1/26/2010	
	SW-846:6850	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-8081	W	1/26/2010	
		1	RE15-10-8082	W	1/26/2010	
	SW-846:7470A	1	RE15-10-8081	W	1/26/2010	
		1	RE15-10-8082	W	1/26/2010	
	SW-846:7471A	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
	SW-846:9012A	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	

Thursday, January 28, 2010

REQUEST NUMBER: 10-1474

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-8081	W	1/26/2010	
		1	RE15-10-8082	W	1/26/2010	

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Thursday, January 28, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1474

REQUEST NUMBER: 10-1474

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

TURNAROUND/REPORT DUE: 2/27/2010

TURNAROUND REQ'D: 30

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7954	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7956	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7955	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7953	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7952	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8060	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8058	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8059	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8081	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8081	1	POLY	SW-846:6850	Ice	W
RE15-10-8081	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8082	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8082	1	POLY	SW-846:6850	Ice	W
RE15-10-8082	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:		Date	Time	Received By:		Date	Time
Joe Lu S		1/28/10	1400				
Printed Name	Signature			Printed Name	Signature		
Printed Name	Signature			Printed Name	Signature		
Printed Name	Signature			Printed Name	Signature		

Received for DISPOSAL By:		Date	Time	Remarks:
Printed Name	Signature			

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7952 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	OBT3	ok
TIME COLLECTED (HH:MM)		1400	SUB-MEDIA:	TUFF 1	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610745	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	2.5	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	3.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / NO / NA

BOREHOLE: YES / NO / NA **BOREHOLE DECLINATION:** NA **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+C N	~~1 GAL~~ POLY 1L RS 01-11-10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Pinkish gray moist tuff

SAMPLE COMMENTS: Hit tuff at 1.5 ft

LOCATION DESC: 8b-65 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 16 **dpm**
Beta/Gamma ≤ 1997 **dpm**

PID Ambient 0.0 / Reading 0.0 **ppm**

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteven Lujan	1/27/10	(Printed Name)	1/28/10
(Signature)	09:16 Am	(Signature)	9:38
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7953 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	OBT3	Alh
TIME COLLECTED (HH:MM)		1457	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610746	↓	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	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	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+CN	~~1 GAL~~ POLY 1L RS 01-11-10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Brown sand

FD RE15-10-8060

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-46 mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE negative

Alpha ≤ 22 dpm
Beta/Gamma ≤ 1970 dpm

PID Ambient 0.0 / Reading 0.0 ppm

COLLECTED BY (PRINT) TLMcFarland

REVIEWED BY (PRINT) R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteban Lujan	1/27/10 09:15AM	(Printed Name)	1/27/10 935
(Signature)		(Signature)	
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7954 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	QBT3	Alh
TIME COLLECTED (HH:MM)		1512	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610746	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	3.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	3.4	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / (NO) / NA

BOREHOLE: YES / (NO) / NA **BOREHOLE DECLINATION:** NA **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+CN	~~1 GAL~~ POLY 1L RS 01-11-10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Gray tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-46 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 33 dpm
Beta/Gamma ≤ 3340 dpm

PID Ambient 0.0 / Reading 0.0 ppm

COLLECTED BY (PRINT) TLMcFarland

REVIEWED BY (PRINT) R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteban Lujan	1/27/10 09:16AM	(Printed Name) Sherri Sherwood	1/27/10 0916
(Signature)		(Signature)	
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7955 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	QBT3	ALLH
TIME COLLECTED (HH:MM)		1515	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610747	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / (NO) / NA

BOREHOLE: YES / (NO) / NA **BOREHOLE DECLINATION:** NA **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+CN	~~1 GAL~~ POLY 1L RS 01-11-10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Light brown silty sand with some tuff

SAMPLE COMMENTS:
NA

LOCATION DESC: 8b-35 mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE NEG

Alpha = 5 dpm
Beta/Gamma = 4250 dpm

PID Ambient 0.0 / Reading 8.9 ppm

COLLECTED BY (PRINT) R Saunders **REVIEWED BY (PRINT)** TLM cFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteban Lujan	1/27/10	(Printed Name) Sherri Sherwood	1/27/10
(Signature) E Lujan	09:16 AM	(Signature) Sherri Sherwood	0916
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-7956 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	OBT3	OK
TIME COLLECTED (HH:MM)		1530	SUB-MEDIA:	TUFF 1	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610747	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	3.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	3.7	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / NO / NA

BOREHOLE: YES / NO / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Regular	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1	↓	H3	500 ML POLY	Ice	Y	
1	↓	Met+U+CLO4+CN	~~1 GAL~~ POLY 1L RS 01-11-10	Ice	Y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: pinkish grey tuff, tuff fragments

FR RE15-10-8082

SAMPLE COMMENTS:
NA

LOCATION DESC: 8b-35 mesa top

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha 44 dpm
Beta/Gamma 2910 dpm

PID Ambient Reading 0.0 / 7.1 ppm

COLLECTED BY (PRINT) R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteban Lujan	1/27/10	(Printed Name) Sherri Sherwood	1/27/10
(Signature)	09:15 AM	(Signature) Sherri Sherwood	0915
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-8058 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	OBT3	ALLH
TIME COLLECTED (HH:MM)		1029	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	UNK	↓	FIELD QC TYPE:	FD	↓
LOCATION TYPE:	GENERIC	✓	FIELD PREP:	NA	✓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:	NA	
FIELD MATRIX:	R	S	EXCAVATED: YES / (NO) / NA		

COMPOSITE TYPE: NA COMPOSITE TIME INTERVAL: NA WATER FLOWING: YES / (NO) / NA

BOREHOLE: YES / (NO) / NA BOREHOLE DECLINATION: NA BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER 72m 1/26/10	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	~~8082~~+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+CN	1 ~~GAL~~ POLY 1 liter 1.11.10 JC	Ice	Y	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE 15-10-7947
brown sandy silt, rocks, Some roots, pine needles

SAMPLE COMMENTS:
NA

LOCATION DESC: 8b-43 mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE NEG

Alpha ≤ 16 **dpm**
Beta/Gamma ≤ 2300 **dpm**

PID Ambient 0.1 / Reading 1.5 **ppm**

COLLECTED BY (PRINT) R Saunders **REVIEWED BY (PRINT)** TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteban Lujan	1/27/10	(Printed Name)	1/27/10
(Signature)	09:21 Am	(Signature)	938
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-8059 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	OBT3	ok
TIME COLLECTED (HH:MM)		1047	SUB-MEDIA:	TUFF 1	
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	HA	
LOCATION ID:	UNK	15-610742	FIELD QC TYPE:	FD	
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	NA	
TOP DEPTH:	0	2.5	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0	3.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	R	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / NO / NA

BOREHOLE: YES / NO / NA **BOREHOLE DECLINATION:** NA **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
		12m 1/26/10				
1	Normal	~~80827~~ NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+CN	1 ~~GAL~~ POLY 1 liter 1.11.10 LC	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-7946 Gray tuff

SAMPLE COMMENTS: Tuff at 2 ft

LOCATION DESC: 8b-41 mesa top edge

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 16 **dpm**
Beta/Gamma ≤ 2070 **dpm**

PID Ambient 0.1 / Reading 83 **ppm**

COLLECTED BY (PRINT) TL McFarland

REVIEWED BY (PRINT) R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteban Lujan	1/27/10 09:20 Am	(Printed Name) Sherri Sherwood	1/27/10 0920
(Signature)		(Signature) Sherri Sherwood	
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-8060 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	QBT3	Alth
TIME COLLECTED (HH:MM)		1457	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-008(b)	OK	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	UNK	15-61074	FIELD QC TYPE:	FD	↓
LOCATION TYPE:	GENERIC	OK	FIELD PREP:	NA	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	QC	
BOTTOM DEPTH:	0	0.8	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES / NO / NA		

COMPOSITE TYPE: NA **COMPOSITE TIME INTERVAL:** NA **WATER FLOWING:** YES / NO / NA

BOREHOLE: YES / NO / NA **BOREHOLE DECLINATION:** NA **BOREHOLE DIRECTION:** NA

#	PRIORITY	ORDER 72h 1/26/10	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	~~8082~~+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1	↓	AM241+GS+ISOPU+ISOU	1 LITER POLY	None	Y	
1		H3	500 ML POLY	Ice	Y	
1		Met+U+CLO4+CN	1 ~~GAL~~ POLY 1 liter 1.11.10 LC	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-7953

Brown sand

SAMPLE COMMENTS: NA

LOCATION DESC: 8b-46 mesa top

FIELD SCREENING/MEASUREMENT RESULTS: HE negative

Alpha ≤ 22 **dpm**
Beta/Gamma ≤ 7970 **dpm**

PID Ambient 0.0 / Reading 0.0 **ppm**

COLLECTED BY (PRINT) TL McFarlane

REVIEWED BY (PRINT) R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteban Lujan	1/27/10	(Printed Name)	1/27/10
(Signature)	09:15 AM	(Signature)	935
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-8081 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	NA	OK
TIME COLLECTED (HH:MM)		1028	SUB-MEDIA:	OTHER	
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	DC	
LOCATION ID:	UNK	15-610742	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	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		SW-846:6850	250 ML POLY	Ice	Y	
1		TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE15-10-7945 Rinsate

SAMPLE COMMENTS: NA

LOCATION DESC: NA

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = RS 01.26.10 dpm
~~Beta/Gamma~~ = ____ dpm

PID ~~Ambient Reading~~ RS 01.26.10 = ppm

COLLECTED BY (PRINT) R Saunders **REVIEWED BY (PRINT)** TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteban Lujan	1/27/10	(Printed Name) Sherri Sherwood	1/27/10
(Signature)	09:19Am	(Signature) Sherri Sherwood	0919
RELINQUISHED BY	**Date/Time**	**RECEIVED BY**	**Date/Time**
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2499 **EVENT NAME:** 4th Qtr. FY09 - SWMU 15-008(b) - Threemile Canyon

SAMPLE ID: RE15-10-8082 **WORK ORDER:**

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/26/2010	MEDIA:	NA	ok
TIME COLLECTED (HH:MM)		1547	SUB-MEDIA:	OTHER	↓
PRS ID:	15-008(b)	ok	SAMPLE TECH CODE:	DC	↓
LOCATION ID:	UNK	15-610747	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	↓	SW-846:6850	250 ML POLY	Ice	Y	
1	↓	TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE15-10-7956

SAMPLE COMMENTS: Rinsate

LOCATION DESC: NA

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = _____ **dpm** TLM 1/26/10
Beta/~~Gamma~~ = _____ **dpm**

PID ~~**Ambient Reading**~~ **= ppm** TLM 1/26/10

COLLECTED BY (PRINT) TLMcFarland **REVIEWED BY (PRINT)** R Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Esteban Lujan	1/27/10	(Printed Name) Sherri Sherwood	1/27/10
(Signature) E Lj	09:14AM	(Signature) Sherri Sherwood	0914
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):

RE15-10-7890
" " 7889
" " 7956
" " 7953
" " 8060
" " 7954
" " 7955
" " 7952
" " 7951
" " 7949

RE15-10-7886
" " 7885
" " 7882
" " 7881
" " 7941
" " 7942
" " 7943
" " 7944
" " 8059
" " 7946
" " 7945

RE15-10 7948
" " 7947
" " 8058
" " 7950

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):

RE15-10-8082
RE15-10-8081

Reason: Field Rinsate.

Print Last Name Lujan Signature [signature] Date 1/27/10

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00026	Request or PO Number:	
Client Sample ID:	RE15-10-7982	ARS Sample ID:	ARS2-10-00026-007
Sample Collection Date:	01/26/10 14:00	Date Received:	01/27/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	01/28/10 12:07

Analysis Description	Analysis Result	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	62.18	35.32	30.56	36.33		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	81.19	20.92	19.68	23.16		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	-0.16	-12.45	5.49	-12.45		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	14.59	0.15	14.59		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	-0.01	19.09	0.09	19.09		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.42	0.49	0.17	0.49		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.86	0.64	0.15	0.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.89	1.11	0.39	1.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	-0.09	82.03	0.23	82.03		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	5.90	4.57	1.79	4.76		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.41	0.48	0.18	0.48		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.69

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00026	Request or PO Number:	
Client Sample ID:	RE15-10-7953	ARS Sample ID:	ARS2-10-00026-008
Sample Collection Date:	01/26/10 14:57	Date Received:	01/27/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	157.42	54.95	38.20	58.23		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	199.89	29.07	18.71	38.00		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	-0.78	-24.74	3.32	-34.74		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.08	7.42	0.08	7.42		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.05	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.42	0.22	0.05	0.22		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.49	0.40	0.09	0.40		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.00	0.39	0.14	0.39		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	0.74	0.30	0.28	0.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	3.25	1.18	0.46	1.19		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	82.56	8.88	2.44	20.84		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	1.34	1.06	0.39	1.06		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 1.56

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00026	Request or PO Number:	
Client Sample ID:	RE15-10-7954	ARS Sample ID:	ARS2-10-00026-009
Sample Collection Date:	01/26/10 15:12	Date Received:	01/27/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	01/28/10 17:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Dual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	109.48	47.65	36.02	49.50		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	103.84	21.75	17.51	25.22		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	27.12	10.11	2.13	10.14		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	13.97	0.14	13.97		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.10	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.04	0.11	0.09	0.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	1.10	0.83	0.16	0.83		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.84	0.61	0.13	0.62		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	2.52	1.45	0.37	1.46		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	-0.09	157.74	0.35	157.74		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	20.50	6.40	2.03	7.93		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.09	0.29	0.15	0.29		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.64

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR52-10-00026
Client Sample ID: RE15-10-7955
Sample Collection Date: 01/26/10 15:15
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00026-010
Date Received: 01/27/10 00:00
Report Date: 01/28/10 12:07

Analysis Description	Analysis Result	Analysis Error +/- 2 σ	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	62.00	35.66	31.66	35.88		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	94.28	20.75	18.10	23.74		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	21.17	7.18	1.39	7.21		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	0.13	0.09	0.13		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.16	0.16	0.07	0.16		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.24	0.25	0.09	0.25		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.61	0.46	0.11	0.46		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.05	0.45	0.17	0.45		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.72	0.72	0.24	0.72		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	3.40	1.46	0.46	1.47		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	47.98	7.34	2.12	13.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.04	0.25	0.15	0.25		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 1.72

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026
Client Sample ID: RE15-10-7956
Sample Collection Date: 01/26/10 15:30
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00026-011
Date Received: 01/27/10 00:00
Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	91.15	42.42	30.56	43.87		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	83.97	21.62	19.68	23.04		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.12	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	28.52	9.81	1.93	9.85		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	12.64	0.13	12.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.11	0.13	0.09	0.13		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	-0.01	16.54	0.08	16.54		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.00	13.15	0.15	13.15		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.71	0.55	0.11	0.56		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.20	0.57	0.34	0.57		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.49	1.03	0.38	1.03		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	19.18	7.15	2.41	8.39		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.61	0.54	0.20	0.54		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.57

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # F87558

ARS AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00026	Request or PO Number:	
Client Sample ID:	RE15-10-8060	ARS Sample ID:	ARS2-10-00026-012
Sample Collection Date:	01/26/10 14:57	Date Received:	01/27/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	152.81	54.21	38.20	57.34		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	223.52	30.34	18.71	40.86		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	21.72	6.49	1.13	6.53		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	7.37	0.07	7.37		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.26	0.17	0.05	0.17		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.13	0.15	0.05	0.15		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.32	0.36	0.09	0.36		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	0.62	0.36	0.16	0.36		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.04	0.98	0.20	0.99		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	2.66	1.34	0.49	1.34		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	88.93	10.06	2.90	22.66		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.69	0.70	0.31	0.70		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 1.51

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00025	Request or PO Number:	
Client Sample ID:	RE15-10-8058	ARS Sample ID:	ARS2-10-00025-014
Sample Collection Date:	01/26/10 10:29	Date Received:	01/27/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	01/28/10 09:34

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	182.13	58.02	31.78	62.15		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	154.91	26.46	18.25	32.55		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	-1.75	2369.70	4.25	2369.70		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.08	0.16	0.13	0.16		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.10	0.11	0.09	0.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.08	0.42	0.08	0.42		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.73	0.52	0.15	0.52		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.07	0.45	0.11	0.45		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-226	1.49	0.83	0.34	0.83		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	1.85	1.12	0.48	1.12		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	15.92	5.50	1.66	6.60		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.44	0.33	0.11	0.33		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 3.74

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544
505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00025
Client Sample ID: NE15-10-8059
Sample Collection Date: 01/26/10 10:47
Sample Matrix: Soil/Solid

Request or PO Number:
ARS Sample ID: ARS2-10-00025-015
Date Received: 01/27/10 00:00
Report Date: 01/28/10 09:34

Analysis Description	Analysis Results	Analysis Error +/- 2 σ	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	149.10	53.62	30.56	56.64		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	114.64	24.84	19.68	24.54		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.13	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	0.71	9.53	5.30	9.53		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.06	0.17	0.14	0.17		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.36	0.30	0.10	0.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.02	0.12	0.11	0.12		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	1.05	0.64	0.16	0.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.21	0.53	0.17	0.54		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-226	1.00	0.66	0.43	0.66		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	2.42	1.28	0.36	1.29		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	2.14	2.80	1.36	2.84		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.29	0.35	0.14	0.35		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.83

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group:	ARS2-10-00026	Request or PO Number:	
Client Sample ID:	RE15-10-7952	ARS Sample ID:	ARS2-10-00026-007
Sample Collection Date:	01/26/10 14:00	Date Received:	01/27/10 00:00
Sample Matrix:	Soil/Solid	Report Date:	01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	62.18	35.52	30.56	36.33		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	81.19	20.92	19.68	23.16		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	-0.16	-12.45	5.49	-12.45		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	14.58	0.15	14.58		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.11	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	-0.01	19.09	0.09	19.09		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.42	0.49	0.17	0.49		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.86	0.64	0.15	0.64		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-228	1.69	1.11	0.39	1.11		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	-0.09	82.03	0.23	82.03		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	5.90	4.57	1.79	4.76		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	0.41	0.48	0.18	0.48		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 0.69

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00026

Client Sample ID: RE15-10-7953

Sample Collection Date: 01/26/10 14:57

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00026-008

Date Received: 01/27/10 00:00

Report Date: 01/28/10 12:07

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	157.42	54.95	38.20	58.23		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
GROSS BETA	199.89	29.87	18.71	38.00		pCi/g	EPA 900.0M	1/28/2010	ME	N/A
NA-22	0.00	0.00	0.07	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
K-40	-0.78	-24.74	3.32	-24.74		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CO-60	0.00	7.42	0.08	7.42		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-134	0.00	0.00	0.05	0.00		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
CS-137	0.42	0.22	0.05	0.22		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
EU-152	0.49	0.40	0.09	0.40		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
PB-212	1.00	0.39	0.14	0.39		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
RA-226	0.94	0.30	0.28	0.30		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-235	3.25	1.18	0.46	1.19		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
U-238	32.86	8.88	2.44	20.84		pCi/g	EPA 901.1M	1/27/2010	ME	N/A
AM-241	1.34	1.06	0.59	1.06		pCi/g	EPA 901.1M	1/27/2010	ME	N/A

NOTES: % Moisture: 1.56

Quality Assurance Review

LELAP Certificate# 30658 NELAP Certificate # E87558

DATA VALIDATION COVER SHEET

5122-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY

Section I.

REQUEST NUMBER: 10-1474 VALIDATION DATE: 03/09/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

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

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

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

Reviewed by: Mary Donivan Level: II Date: 03/10/10

VALIDATOR'S SIGNATURE: Joanne Compton	DATE: 03/09/10
Form 5122-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST

5121-2

LC/MS/MS Perchlorate Analytical Data Validation Checklist

Records Use only

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	1. The Internal Standard (IS) relativer retention time has shifted by more than 0.98 to 1.02 seconds.	R, PERC0	J, PERC0
☐	☒	☐	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
☐	☐	☒	3. The IS are count is <25% of the expected value.	UJ, PERC1a	J, PERC1a
☐	☐	☒	4. The IS area count is <70% but >25% of the average of that obtained from the calibration standards.	UJ, PERC1b	J, PERC1b
☐	☐	☒	5. The IS area count is >130% of the average of that obtained from the calibration standards.	UJ, PERC1c	J, PERC1c
☐	☐	☒	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PREC1d	R, PERC1d
☐	☒	☐	7. The sample result is ≤ 5X the concentration of the related analyte in the method blank.	U, PERC4	N/A
☐	☒	☐	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
☐	☒	☐	9. The sample result is ≤5X the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, PERC4d	N/A
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	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 Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	13. The ICV and/or CCV were recovered outside the method limits.	UJ, R, PERC7c	J, PERC7c
☐	☒	☐	14. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, PERC7d	J, PERC7d
☐	☒	☐	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
☐	☒	☐	16. The affected analyte is considered not detected because ion abundance ratios did not meet specifications.	N/A	R, PERC8
☐	☒	☐	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
☐	☒	☐	18. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ PERC9	J-, PERC9
☐	☒	☐	19. The holding time was > 2 times the applicable holding time requirement.	R, PERC9a	J-, PERC9a
☐	☒	☐	20. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, PERC12	J-, PERC12
☐	☒	☐	21. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, PERC12a	J-, PERC12a
☐	☒	☐	22. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, PERC12b
☐	☒	☐	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
☐	☒	☐	24. The MS/MSD percent recovery was <10%	R, PERC12d	R, PERC12d
☐	☒	☐	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
☐	☒	☐	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 Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	27. The MS/MSD relative percent difference was >20%.	UJ, PERC12g	J, PERC12g
☐	☐	☒	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
☐	☐	☒	29. The sample was diluted because target analytes were > the initial verification calibration.	UJ, PERC15a	J, PERC15a
☐	☐	☒	30. The Contract Required Detection Limit check standard (CRI) sample did not pass method-acceptance limits.	UJ, R, PERC16	J, PERC16
☐	☐	☒	31. The Interference Check Sample was not within ±20% of the known value.	UJ, PERC16a	J, PERC16a
☐	☐	☒	32. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, PERC16c	R, PERC16c
☐	☒	☐	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
☐	☒	☐	34. Duplicate, dilution, or reanalysis.	UJ, PERC88	J, PERC88

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7954

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806001

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 94.2

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.531	2.12	0.531	ug/kg	U	1	12-FEB-10 17:05	per0212030a
	Perchlorate Isotope Ratio						1	12-FEB-10 17:05	per0212030a
14797-73-0	Perchlorate-101	.531	2.12	0.531	ug/kg	U	1	12-FEB-10 17:05	per0212030a
	Perchlorate-O(18)			5.63	ug/kg		1	12-FEB-10 17:05	per0212030a

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

*Concentration =

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

JCC
03/09/10

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7956

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806002

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 93.9

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.533	2.13	0.923	ug/kg	J	1	12-FEB-10 17:37	per0212034a
	Perchlorate Isotope Ratio			2.92			1	12-FEB-10 17:37	per0212034a
14797-73-0	Perchlorate-101	.533	2.13	0.974	ug/kg	J	1	12-FEB-10 17:37	per0212034a
	Perchlorate-O(18)			5.69	ug/kg		1	12-FEB-10 17:37	per0212034a

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

*Concentration =

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

JCC
03/09/10

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7955

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806003

Date Filtered: 10-FEB-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	.61	2.44	0.610	ug/kg	U	1	12-FEB-10 17:45	per0212035a
	Perchlorate Isotope Ratio						1	12-FEB-10 17:45	per0212035a
14797-73-0	Perchlorate-101	.61	2.44	0.610	ug/kg	U	1	12-FEB-10 17:45	per0212035a
	Perchlorate-O(18)			6.47	ug/kg		1	12-FEB-10 17:45	per0212035a

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

*Concentration =

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

JCC
03/09/10

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7953

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806004

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 86

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.582	2.33	0.582	ug/kg	U	1	12-FEB-10 17:53	per0212036a
	Perchlorate Isotope Ratio						1	12-FEB-10 17:53	per0212036a
14797-73-0	Perchlorate-101	.582	2.33	0.582	ug/kg	U	1	12-FEB-10 17:53	per0212036a
	Perchlorate-O(18)			6.12	ug/kg		1	12-FEB-10 17:53	per0212036a

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

*Concentration =

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

JCC
03/09/10

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7952

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806005

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 93.3

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.536	2.14	0.536	ug/kg	U	1	12-FEB-10 18:01	per0212037a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:01	per0212037a
14797-73-0	Perchlorate-101	.536	2.14	0.536	ug/kg	U	1	12-FEB-10 18:01	per0212037a
	Perchlorate-O(18)			5.80	ug/kg		1	12-FEB-10 18:01	per0212037a

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

*Concentration =

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

JCC
03/09/10

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8060

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806006

Date Filtered: 10-FEB-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	.585	2.34	0.585	ug/kg	U	1	12-FEB-10 18:09	per0212038a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:09	per0212038a
14797-73-0	Perchlorate-101	.585	2.34	0.585	ug/kg	U	1	12-FEB-10 18:09	per0212038a
	Perchlorate-O(18)			6.04	ug/kg		1	12-FEB-10 18:09	per0212038a

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

*Concentration =

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

JCC
03/09/10

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8058

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806007

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 64

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.78	3.12	0.780	ug/kg	U	1	12-FEB-10 18:17	per0212039a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:17	per0212039a
14797-73-0	Perchlorate-101	.78	3.12	0.780	ug/kg	U	1	12-FEB-10 18:17	per0212039a
	Perchlorate-O(18)			8.72	ug/kg		1	12-FEB-10 18:17	per0212039a

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

*Concentration =

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

JCC
03/09/10

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8059

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806008

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 92.7

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.539	2.16	0.539	ug/kg	U	1	12-FEB-10 18:25	per0212040a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:25	per0212040a
14797-73-0	Perchlorate-101	.539	2.16	0.539	ug/kg	U	1	12-FEB-10 18:25	per0212040a
	Perchlorate-O(18)			6.02	ug/kg		1	12-FEB-10 18:25	per0212040a

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

*Concentration =

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

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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: 947198

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.
RE15-10-8081

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474-1

GEL Sample ID: 245807001

Date Filtered: 30-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	01-FEB-10 16:22	per0201014a
	Perchlorate Isotope Ratio						1	01-FEB-10 16:22	per0201014a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	01-FEB-10 16:22	per0201014a
	Perchlorate-O(18)			0.477	ug/L		1	01-FEB-10 16:22	per0201014a

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

*Concentration =

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

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03/09/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 947198

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.
RE15-10-8082

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474-1

GEL Sample ID: 245807002

Date Filtered: 30-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	31-JAN-10 21:34	per0131074a
	Perchlorate Isotope Ratio						1	31-JAN-10 21:34	per0131074a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	31-JAN-10 21:34	per0131074a
	Perchlorate-O(18)			0.499	ug/L		1	31-JAN-10 21:34	per0131074a

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

*Concentration =

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

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DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY EST. 1943

Section I.

REQUEST NUMBER: 10-1474 VALIDATION DATE: 03/09/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

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

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

☐ TPH-GRO	☐ HIGH EXPLOSIVES	☐ DIOXIN FURANS	☐ LCMSMS PERCHLORATES
☐ TPH-DRO	☒ METALS	☐ PCB CONGENERS	☐ ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
☐ GENERAL CHEMISTRY	☐ RADIOCHEMISTRY	☐ LCMSMS HIGH EXPLOSIVES	

☐ OTHER (DESCRIBE):

Section II. Completeness Check

YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
☒	☐	☐	1. CHAIN-OF-CUSTODY FORM(S)	☒	☐	☐	6. RAW/BSS DATA
☒	☐	☐	2. CASE NARRATIVE	☒	☐	☐	7. QUALITY CONTROL FORMS
☒	☐	☐	3. SAMPLE RESULT FORMS	☐	☐	☒	8. QUANTITATION REPORTS
☐	☐	☒	4. SAMPLE CHROMATOGRAMS	☐	☐	☒	9. TICS FORMS
☐	☐	☒	5. STANDARD CHROMATOGRAMS	☐	☐	☒	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 soil MB, U was detected. The associated results for samples RE15-10-7952 and -8059 were detects >5X but ≤50X the MB concentration and, thus, were qualified J,I4a. The associated results for all samples except RE15-10-7952 and -8059 were detects > 50X the MB concentration and, thus, were not qualified based on professional judgment.

   In the aqueous MB, Mg was detected. The associated sample results were NDs and, thus, were not qualified.

2. In the CCBs associated with the soil analysis, Na, Pb, Tl, and Hg were detected. The associated sample results for Hg, Tl results for samples -7954, -7956, -7955, -8058, Na results for samples -7953, -8060, -8058, and Pb results for samples -7952and -8059 were detects ≤ 5X the greatest associated blank concentration and, thus, were qualified U,I4b. All other associated sample results were either NDs or detects >5X the greatest blank concentration and, thus, were not qualified.

DATA VALIDATION COVER SHEET

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Data Validation Cover Sheet

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In the CCBs associated with the aqueous analysis, Mg and Tl were detected. The associated sample results were NDs and, thus, were not qualified.

3. In the FR blanks, samples RE15-10-8081 and -8082 associated with all samples, Na, K, Pb, and U were detected. The Na sample results associated with samples -7956, -7955, -7953, -8060, and -8058 were detects ≤ 5X the greatest FR blank concentration and, thus, were qualified U,I4d. All other associated sample results were either NDs or detects >5X the greatest FR blank concentration and, thus, were not qualified.
4. In the aqueous analysis, the ICV %R was > the method specified limits for Al. The associated sample results were NDs and, thus, qualified UJ,I7c.
5. The soil MS %Rs for Cu, Mg, Mn and K were > the laboratory UAL. The associated sample results were detects and, thus, qualified J+,I6b. The soil MS %Rs for Al, Fe, and U were also > the laboratory UAL. The aqueous MS %R for Ca was < the laboratory LAL but ≥10%. However, the associated parent sample results were detects > than 4X the spike amount and, thus, no sample results were qualified based on professional judgment.
6. The soil duplicate RPD was >35% and the parent and duplicate sample results were ≥ 5X the PQLs for Cr, Cu, Pb, Be, and Ni. The Pb results for samples -7952 and -8059 were qualified ND and, thus, were qualified UJ,I10a. The remaining associated sample results were detects and, thus, were qualified J,I10a.
7. It should be noted that the matrix QC for the aqueous ICP-AES and ICP-MS analysis were performed on samples from other LANL RNs and that the raw data for the parent samples were not included in the data package. It should also be noted that the matrix QC aqueous ICP-AES analysis was performed on the FR blank -8081. No sample data were qualified as a result.

Reviewed by: Mary Donivan Level: I Date: 03/10/10

VALIDATOR'S SIGNATURE: Joanne Compton DATE: 03/09/10

METALS ANALYTICAL DATA VALIDATION CHECKLIST

5118-2

Metals Analytical Data Validation Checklist

Records Use only

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Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, I9	J-, I9
☐	☒	☐	2. The holding time was >2 times the applicable holding time requirement.	R, I9a	J-, I9a
☐	☐	☒	3. The instrument performance sample did not pass method acceptance criteria.	R, I16	R, I16
☐	☐	☒	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
☐	☐	☒	5. Samples were analyzed outside specific method tune time criteria.	N/A	J, I16b
☐	☐	☒	6. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, I16c	R, I16c
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	9. The initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, I7c	J, I7c
☐	☒	☐	10. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, I7d	J, I7d
☐	☒	☐	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
☐	☒	☐	12. Metals interference check sample percent recover value is <50%.	R, I2	J-, I2

METALS ANALYTICAL DATA VALIDATION CHECKLIST

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Metals Analytical Data Validation Checklist

Records Use only

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	13. Metals interference check sample percent recovery value is ≥50% and <80%	UJ, I2a	J-, I2a
☐	☒	☐	14. Metals interference check sample percent recovery value is >120%.	N/A	J+, I2b
☐	☒	☐	15. Metals interference check sample was not analyzed with the samples.	R, I2c	R, I2c
☒	☐	☐	16. The sample result is ≤5X the concentration of the related analyte in the method blank.	U, I4	N/A
☒	☐	☐	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
☒	☐	☐	18. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
☐	☒	☐	19. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
☒	☐	☐	20. The sample result is ≤5X the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, I4d	N/A
☐	☒	☐	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
☐	☒	☐	22. The associated matrix spike recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
☐	☒	☐	23. The associated matrix spike recovery was <the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, I6a	J+, I6a
☒	☐	☐	24. The associated matrix spike recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	UJ, I6b	J+, I6b

METALS ANALYTICAL DATA VALIDATION CHECKLIST

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Metals Analytical Data Validation Checklist

Records Use only

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Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	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
☒	☐	☐	26. The sample and the duplicate sample results were ≥5X the RL and the duplicate RPD was >20% for water samples and >35% for soil samples.	UJ, I10a	J, I10a
☐	☒	☐	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
☐	☒	☐	28. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
☐	☒	☐	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
☐	☒	☐	30. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
☐	☒	☐	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
☐	☐	☒	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

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Metals Analytical Data Validation Checklist

Records Use only

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	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
☐	☐	☒	37. Serial dilution sample was not analyzed with the samples.	UJ, I18a	J, I18
☐	☐	☒	38. The sample result was reported as detected between the IDL and the EDL.	N/A	J, I1
☐	☒	☐	39. Duplicate, dilution, or reanalysis.	UJ, I88	J, I88
☒	☐	☐	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
☐	☒	☐	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: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806001 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7954 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 94.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3360000	ug/Kg		6790	20000	20000	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-36-0	Antimony	5040	ug/Kg	*	329	998	998	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-38-2	Arsenic	1.48	mg/kg		0.209	1.05	1.05	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-39-3	Barium	48800	ug/Kg		99.8	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-41-7	Beryllium J,I10a	1.37	mg/kg	*	0.0209	0.105	0.105	2	MS	SKJ	02/19/10 14:42	100219-4	948073
7440-43-9	Cadmium	499	ug/Kg	U	99.8	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-70-2	Calcium	1100000	ug/Kg		7990	25000	25000	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-47-3	Chromium J,I10a	13400	ug/Kg	*	150	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-48-4	Cobalt	3090	ug/Kg	*	150	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-50-8	Copper J+,I6b	115000	ug/Kg	*N	299	998	998	1	P	HSC	02/17/10 02:45	021610-1	948071
7439-89-6	Iron	9310000	ug/Kg		16000	49900	49900	2	P	HSC	02/23/10 14:32	022310A-2	948071
7439-92-1	Lead J,I10a	578000	ug/Kg	*	499	2000	2000	2	P	HSC	02/23/10 14:32	022310A-2	948071
7439-95-4	Magnesium J+,I6b	696000	ug/Kg	N	17000	59900	59900	2	P	HSC	02/23/10 14:32	022310A-2	948071
7439-96-5	Manganese J+,I6b	192000	ug/Kg	N	200	998	998	1	P	HSC	02/17/10 02:45	021610-1	948071
7439-97-6	Mercury U, I4b	14.4	ug/kg		4.13	12.2	12.2	1	AV	JXL1	02/16/10 09:40	021610S2-5	947650
7440-02-0	Nickel J,I10a	7.19	mg/kg	*N	0.105	0.419	0.419	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-09-7	Potassium J+,I6b	460000	ug/Kg	N	6390	25000	25000	1	P	HSC	02/17/10 02:45	021610-1	948071
7782-49-2	Selenium	1.05	mg/kg	U	0.524	1.05	1.05	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-22-4	Silver	766	ug/Kg		99.8	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-23-5	Sodium	85000	ug/Kg		6990	25000	25000	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-28-0	Thallium U, I4b	0.0878	mg/kg	J	0.0628	0.209	0.209	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-61-1	Uranium	84.4	mg/kg	*	0.0138	0.0419	0.0419	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-62-2	Vanadium	8040	ug/Kg		99.8	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-66-6	Zinc	36600	ug/Kg		329	998	998	1	P	HSC	02/17/10 02:45	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.524	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.532	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.507	g	50	mL	02/08/10	FGA

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03/09/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806002 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7956 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 93.9

CAS No.	Analyte		Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum		4800000	ug/Kg		6930	20400	20400	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-36-0	Antimony		528	ug/Kg	J*	336	1020	1020	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-38-2	Arsenic		2.82	mg/kg		0.206	1.03	1.03	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-39-3	Barium		54600	ug/Kg		102	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-41-7	Beryllium	J,I10a	29.1	mg/kg	*	0.0206	0.103	0.103	2	MS	SKJ	02/19/10 14:58	100219-4	948073
7440-43-9	Cadmium		509	ug/Kg	U	102	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-70-2	Calcium		2290000	ug/Kg		8150	25500	25500	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-47-3	Chromium	J,I10a	11200	ug/Kg	*	153	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-48-4	Cobalt		2060	ug/Kg	*	153	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-50-8	Copper	J+,I6b	73900	ug/Kg	*N	306	1020	1020	1	P	HSC	02/17/10 03:33	021610-1	948071
7439-89-6	Iron		8990000	ug/Kg		16300	50900	50900	2	P	HSC	02/24/10 08:48	022310A-2	948071
7439-92-1	Lead	J,I10a	23900	ug/Kg	*	509	2040	2040	2	P	HSC	02/24/10 08:48	022310A-2	948071
7439-95-4	Magnesium	J+,I6b	1050000	ug/Kg	N	17300	61100	61100	2	P	HSC	02/24/10 08:48	022310A-2	948071
7439-96-5	Manganese	J+,I6b	185000	ug/Kg	N	204	1020	1020	1	P	HSC	02/17/10 03:33	021610-1	948071
7439-97-6	Mercury	U, I4b	15.5	ug/kg		3.8	11.2	11.2	1	AV	JXL1	02/16/10 09:51	021610S2-5	947650
7440-02-0	Nickel	J,I10a	7.17	mg/kg	*N	0.103	0.412	0.412	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-09-7	Potassium	J+,I6b	675000	ug/Kg	N	6520	25500	25500	1	P	HSC	02/17/10 03:33	021610-1	948071
7782-49-2	Selenium		0.640	mg/kg	J	0.515	1.03	1.03	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-22-4	Silver		692	ug/Kg		102	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-23-5	Sodium	U, I4d	63900	ug/Kg		7130	25500	25500	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-28-0	Thallium	U, I4b	0.139	mg/kg	J	0.0618	0.206	0.206	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-61-1	Uranium		69.8	mg/kg	*	0.0136	0.0412	0.0412	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-62-2	Vanadium		11400	ug/Kg		102	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-66-6	Zinc		32100	ug/Kg		336	1020	1020	1	P	HSC	02/17/10 03:33	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.572	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.523	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.517	g	50	mL	02/08/10	FGA

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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806003 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7955 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 82

CAS No.	Analyte		Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum		3390000	ug/Kg		7960	23400	23400	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-36-0	Antimony		5530	ug/Kg	*	386	1170	1170	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-38-2	Arsenic		1.8	mg/kg		0.233	1.17	1.17	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-39-3	Barium		73400	ug/Kg		117	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-41-7	Beryllium	J,I10a	6.85	mg/kg	*	0.0233	0.117	0.117	2	MS	SKJ	02/19/10 15:00	100219-4	948073
7440-43-9	Cadmium		242	ug/Kg	J	117	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-70-2	Calcium		1460000	ug/Kg		9370	29300	29300	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-47-3	Chromium	J,I10a	6870	ug/Kg	*	176	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-48-4	Cobalt		6080	ug/Kg	*	176	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-50-8	Copper	J+,I6b	1200000	ug/Kg	*N	351	1170	1170	1	P	HSC	02/17/10 03:41	021610-1	948071
7439-89-6	Iron		8710000	ug/Kg		18700	58500	58500	2	P	HSC	02/23/10 15:27	022310A-2	948071
7439-92-1	Lead	J,I10a	203000	ug/Kg	*	585	2340	2340	2	P	HSC	02/23/10 15:27	022310A-2	948071
7439-95-4	Magnesium	J+,I6b	713000	ug/Kg	N	19900	70300	70300	2	P	HSC	02/23/10 15:27	022310A-2	948071
7439-96-5	Manganese	J+,I6b	234000	ug/Kg	N	234	1170	1170	1	P	HSC	02/17/10 03:41	021610-1	948071
7439-97-6	Mercury	U, I4b	15.7	ug/kg		4.58	13.5	13.5	1	AV	JXL1	02/16/10 09:53	021610S2-5	947650
7440-02-0	Nickel	J,I10a	6.47	mg/kg	*N	0.117	0.467	0.467	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-09-7	Potassium	J+,I6b	586000	ug/Kg	N	7490	29300	29300	1	P	HSC	02/17/10 03:41	021610-1	948071
7782-49-2	Selenium		1.17	mg/kg	U	0.583	1.17	1.17	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-22-4	Silver		1060	ug/Kg		117	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-23-5	Sodium	U, I4d	68300	ug/Kg		8200	29300	29300	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-28-0	Thallium	U, I4b	0.0733	mg/kg	J	0.07	0.233	0.233	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-61-1	Uranium		183	mg/kg	*	0.0154	0.0467	0.0467	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-62-2	Vanadium		11300	ug/Kg		117	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-66-6	Zinc		64700	ug/Kg		386	1170	1170	1	P	HSC	02/17/10 03:41	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.544	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.521	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.523	g	50	mL	02/08/10	FGA

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METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806004 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7953 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2950000	ug/Kg		7470	22000	22000	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-36-0	Antimony	256000	ug/Kg	*	362	1100	1100	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-38-2	Arsenic	2.29	mg/kg		0.223	1.12	1.12	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-39-3	Barium	89000	ug/Kg		110	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-41-7	Beryllium J,I10a	12.2	mg/kg	*	0.0223	0.112	0.112	2	MS	SKJ	02/19/10 15:03	100219-4	948073
7440-43-9	Cadmium	448	ug/Kg	J	110	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-70-2	Calcium	1220000	ug/Kg		8780	27500	27500	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-47-3	Chromium J,I10a	10500	ug/Kg	*	165	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-48-4	Cobalt	2690	ug/Kg	*	165	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-50-8	Copper J+,I6b	686000	ug/Kg	*N	329	1100	1100	1	P	HSC	02/17/10 03:48	021610-1	948071
7439-89-6	Iron	6900000	ug/Kg		17600	54900	54900	2	P	HSC	02/23/10 15:34	022310A-2	948071
7439-92-1	Lead J,I10a	138000000	ug/Kg	*	27500	110000	110000	100	P	HSC	02/23/10 17:46	022310A-2	948071
7439-95-4	Magnesium J+,I6b	862000	ug/Kg	N	18700	65900	65900	2	P	HSC	02/23/10 15:34	022310A-2	948071
7439-96-5	Manganese J+,I6b	140000	ug/Kg	N	220	1100	1100	1	P	HSC	02/17/10 03:48	021610-1	948071
7439-97-6	Mercury U, I4b	17.7	ug/kg		4.23	12.4	12.4	1	AV	JXL1	02/16/10 09:59	021610S2-5	947650
7440-02-0	Nickel J,I10a	8.47	mg/kg	*N	0.112	0.447	0.447	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-09-7	Potassium J+,I6b	340000	ug/Kg	N	7030	27500	27500	1	P	HSC	02/17/10 03:48	021610-1	948071
7782-49-2	Selenium	1.12	mg/kg	U	0.559	1.12	1.12	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-22-4	Silver	2520	ug/Kg		110	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-23-5	Sodium U, I4b	42700	ug/Kg		7690	27500	27500	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-28-0	Thallium	0.223	mg/kg	U	0.067	0.223	0.223	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-61-1	Uranium	362	mg/kg	*	0.0147	0.0447	0.0447	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-62-2	Vanadium	9670	ug/Kg		110	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-66-6	Zinc	125000	ug/Kg		362	1100	1100	1	P	HSC	02/17/10 03:48	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.562	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.53	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.521	g	50	mL	02/08/10	FGA

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METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806005 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7952 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 93.3

CAS No.	Analyte		Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum		1670000	ug/Kg		7100	20900	20900	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-36-0	Antimony		1040	ug/Kg	U*	345	1040	1040	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-38-2	Arsenic		0.839	mg/kg	J	0.201	1.01	1.01	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-39-3	Barium		48800	ug/Kg		104	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-41-7	Beryllium	J,I10a	0.310	mg/kg	*	0.0201	0.101	0.101	2	MS	SKJ	02/19/10 15:10	100219-4	948073
7440-43-9	Cadmium		522	ug/Kg	U	104	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-70-2	Calcium		569000	ug/Kg		8360	26100	26100	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-47-3	Chromium	J,I10a	24000	ug/Kg	*	157	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-48-4	Cobalt		5010	ug/Kg	*	157	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-50-8	Copper	J+,I6b	4310	ug/Kg	*N	313	1040	1040	1	P	HSC	02/17/10 03:55	021610-1	948071
7439-89-6	Iron		8550000	ug/Kg		16700	52200	52200	2	P	HSC	02/23/10 17:53	022310A-2	948071
7439-92-1	Lead	U, I4b	7460	ug/Kg	*	522	2090	2090	2	P	HSC	02/23/10 17:53	022310A-2	948071
7439-95-4	Magnesium	J+,I6b	390000	ug/Kg	N	17800	62700	62700	2	P	HSC	02/23/10 17:53	022310A-2	948071
7439-96-5	Manganese	J+,I6b	354000	ug/Kg	N	209	1040	1040	1	P	HSC	02/17/10 03:55	021610-1	948071
7439-97-6	Mercury	U, I4b	22.2	ug/kg		4.2	12.3	12.3	1	AV	JXL1	02/16/10 10:01	021610S2-5	947650
7440-02-0	Nickel	J,I10a	4.07	mg/kg	*N	0.101	0.403	0.403	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-09-7	Potassium	J+,I6b	353000	ug/Kg	N	6690	26100	26100	1	P	HSC	02/17/10 03:55	021610-1	948071
7782-49-2	Selenium		1.01	mg/kg	U	0.504	1.01	1.01	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-22-4	Silver		589	ug/Kg		104	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-23-5	Sodium		128000	ug/Kg		7310	26100	26100	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-28-0	Thallium		0.201	mg/kg	U	0.0604	0.201	0.201	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-61-1	Uranium	J,I4a	0.519	mg/kg	*	0.0133	0.0403	0.0403	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-62-2	Vanadium		3900	ug/Kg		104	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-66-6	Zinc		37500	ug/Kg		345	1040	1040	1	P	HSC	02/17/10 03:55	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.521	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.513	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.532	g	50	mL	02/08/10	FGA

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METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806006 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8060 **LEVEL:** Low **DATE RECEIVED** 29-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	2550000	ug/Kg		7630	22400	22400	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-36-0	Antimony	8360	ug/Kg	*	370	1120	1120	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-38-2	Arsenic	3.7	mg/kg		0.219	1.1	1.1	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-39-3	Barium	85200	ug/Kg		112	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-41-7	Beryllium J,I10a	9.08	mg/kg	*	0.0219	0.11	0.11	2	MS	SKJ	02/19/10 15:12	100219-4	948073
7440-43-9	Cadmium	229	ug/Kg	J	112	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-70-2	Calcium	1360000	ug/Kg		8970	28000	28000	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-47-3	Chromium J,I10a	9600	ug/Kg	*	168	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-48-4	Cobalt	3890	ug/Kg	*	168	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-50-8	Copper J+,I6b	445000	ug/Kg	*N	336	1120	1120	1	P	HSC	02/17/10 04:02	021610-1	948071
7439-89-6	Iron	6730000	ug/Kg		17900	56100	56100	2	P	HSC	02/23/10 15:48	022310A-2	948071
7439-92-1	Lead J,I10a	952000	ug/Kg	*	561	2240	2240	2	P	HSC	02/23/10 15:48	022310A-2	948071
7439-95-4	Magnesium J+,I6b	653000	ug/Kg	N	19100	67300	67300	2	P	HSC	02/23/10 15:48	022310A-2	948071
7439-96-5	Manganese J+,I6b	144000	ug/Kg	N	224	1120	1120	1	P	HSC	02/17/10 04:02	021610-1	948071
7439-97-6	Mercury U, I4b	17.5	ug/kg		4.78	14	14	1	AV	JXL1	02/16/10 10:02	021610S2-5	947650
7440-02-0	Nickel J,I10a	7.59	mg/kg	*N	0.11	0.439	0.439	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-09-7	Potassium J+,I6b	344000	ug/Kg	N	7180	28000	28000	1	P	HSC	02/17/10 04:02	021610-1	948071
7782-49-2	Selenium	1.1	mg/kg	U	0.548	1.1	1.1	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-22-4	Silver	1240	ug/Kg		112	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-23-5	Sodium U, I4b	59600	ug/Kg		7830	28000	28000	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-28-0	Thallium	0.219	mg/kg	U	0.0658	0.219	0.219	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-61-1	Uranium	352	mg/kg	*	0.0145	0.0439	0.0439	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-62-2	Vanadium	7750	ug/Kg		112	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-66-6	Zinc	52800	ug/Kg		370	1120	1120	1	P	HSC	02/17/10 04:02	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.5	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.522	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.534	g	50	mL	02/08/10	FGA

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METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806007 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8058 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 64

CAS No.	Analyte		Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum		7390000	ug/Kg		10300	30200	30200	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-36-0	Antimony		1680	ug/Kg	*	498	1510	1510	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-38-2	Arsenic		2.96	mg/kg		0.303	1.51	1.51	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-39-3	Barium		114000	ug/Kg		151	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-41-7	Beryllium	J,I10a	2.84	mg/kg	*	0.0303	0.151	0.151	2	MS	SKJ	02/19/10 15:14	100219-4	948073
7440-43-9	Cadmium		798	ug/Kg		151	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-70-2	Calcium		3730000	ug/Kg		12100	37700	37700	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-47-3	Chromium	J,I10a	10500	ug/Kg	*	226	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-48-4	Cobalt		5630	ug/Kg	*	226	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-50-8	Copper	J+,I6b	148000	ug/Kg	*N	453	1510	1510	1	P	HSC	02/17/10 04:09	021610-1	948071
7439-89-6	Iron		11200000	ug/Kg		24100	75400	75400	2	P	HSC	02/23/10 15:55	022310A-2	948071
7439-92-1	Lead	J,I10a	140000	ug/Kg	*	754	3020	3020	2	P	HSC	02/23/10 15:55	022310A-2	948071
7439-95-4	Magnesium	J+,I6b	1630000	ug/Kg	N	25600	90500	90500	2	P	HSC	02/23/10 15:55	022310A-2	948071
7439-96-5	Manganese	J+,I6b	378000	ug/Kg	N	302	1510	1510	1	P	HSC	02/17/10 04:09	021610-1	948071
7439-97-6	Mercury	U, I4b	41.4	ug/kg		6.35	18.7	18.7	1	AV	JXL1	02/16/10 10:04	021610S2-5	947650
7440-02-0	Nickel	J,I10a	8.08	mg/kg	*N	0.151	0.606	0.606	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-09-7	Potassium	J+,I6b	1490000	ug/Kg	N	9650	37700	37700	1	P	HSC	02/17/10 04:09	021610-1	948071
7782-49-2	Selenium		1.51	mg/kg	U	0.757	1.51	1.51	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-22-4	Silver		1060	ug/Kg		151	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-23-5	Sodium	U, I4b	35700	ug/Kg	J	10600	37700	37700	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-28-0	Thallium	U, I4b	0.139	mg/kg	J	0.0909	0.303	0.303	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-61-1	Uranium		53.8	mg/kg	*	0.02	0.0606	0.0606	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-62-2	Vanadium		20000	ug/Kg		151	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-66-6	Zinc		67200	ug/Kg		498	1510	1510	1	P	HSC	02/17/10 04:09	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.501	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.517	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.515	g	50	mL	02/08/10	FGA

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METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806008 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8059 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 92.7

CAS No.	Analyte		Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum		1910000	ug/Kg		7130	21000	21000	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-36-0	Antimony		1050	ug/Kg	U*	346	1050	1050	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-38-2	Arsenic		0.845	mg/kg	J	0.211	1.05	1.05	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-39-3	Barium		30500	ug/Kg		105	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-41-7	Beryllium	J,I10a	0.304	mg/kg	*	0.0211	0.105	0.105	2	MS	SKJ	02/19/10 15:16	100219-4	948073
7440-43-9	Cadmium		525	ug/Kg	U	105	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-70-2	Calcium		779000	ug/Kg		8390	26200	26200	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-47-3	Chromium	J,I10a	16300	ug/Kg	*	157	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-48-4	Cobalt		14300	ug/Kg	*	157	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-50-8	Copper	J+,I6b	5340	ug/Kg	*N	315	1050	1050	1	P	HSC	02/17/10 04:16	021610-1	948071
7439-89-6	Iron		8500000	ug/Kg		16800	52500	52500	2	P	HSC	02/23/10 17:59	022310A-2	948071
7439-92-1	Lead	U, I4b	6900	ug/Kg	*	525	2100	2100	2	P	HSC	02/23/10 17:59	022310A-2	948071
7439-95-4	Magnesium	J+,I6b	386000	ug/Kg	N	17800	62900	62900	2	P	HSC	02/23/10 17:59	022310A-2	948071
7439-96-5	Manganese	J+,I6b	221000	ug/Kg	N	210	1050	1050	1	P	HSC	02/17/10 04:16	021610-1	948071
7439-97-6	Mercury	U, I4b	26.5	ug/kg		4.33	12.7	12.7	1	AV	JXL1	02/16/10 10:06	021610S2-5	947650
7440-02-0	Nickel	J,I10a	4.26	mg/kg	*N	0.105	0.421	0.421	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-09-7	Potassium	J+,I6b	396000	ug/Kg	N	6710	26200	26200	1	P	HSC	02/17/10 04:16	021610-1	948071
7782-49-2	Selenium		1.05	mg/kg	U	0.527	1.05	1.05	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-22-4	Silver		564	ug/Kg		105	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-23-5	Sodium		145000	ug/Kg		7340	26200	26200	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-28-0	Thallium		0.211	mg/kg	U	0.0632	0.211	0.211	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-61-1	Uranium	J,I4a	0.584	mg/kg	*	0.0139	0.0421	0.0421	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-62-2	Vanadium		5440	ug/Kg		105	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-66-6	Zinc		32800	ug/Kg		346	1050	1050	1	P	HSC	02/17/10 04:16	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.508	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.514	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.512	g	50	mL	02/08/10	FGA

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03/09/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474-1 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245807001 **BASIS:** As Received **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8081 **LEVEL:** Low **DATE RECEIVED** 29-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 UJ,I7c	200	ug/L	U	68	200	200	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	02/20/10 22:38	100220-2	948090
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	02/21/10 11:54	100220-7	948090
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	02/20/10 22:38	100220-2	948090
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	02/25/10 16:33	022510-1	948088
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	02/25/10 16:33	022510-1	948088
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	02/21/10 11:54	100220-7	948090
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	02/25/10 16:33	022510-1	948088
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	02/21/10 11:54	100220-7	948090
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/15/10 11:13	021510W1-9	947646
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-09-7	Potassium	180	ug/L		50	150	150	1	P	HSC	02/25/10 16:33	022510-1	948088
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-23-5	Sodium	160	ug/L	J	100	300	300	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BAJ	02/20/10 22:38	100220-2	948090
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	02/21/10 13:39	100221-8	948090
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	02/25/10 16:33	022510-1	948088

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947646	947645	SW846 7470A Prep	20	mL	20	mL	02/12/10	TXB3
948088	948085	SW846 3005A	25	mL	25	mL	02/25/10	AXG2
948090	948089	SW846 3005A	50	mL	50	mL	02/03/10	LYH1

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03/09/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474-1 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245807002 **BASIS:** As Received **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8082 **LEVEL:** Low **DATE RECEIVED** 29-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 UJ,I7c	200	ug/L	U	68	200	200	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	02/20/10 22:44	100220-2	948090
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	02/21/10 11:56	100220-7	948090
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	02/20/10 22:44	100220-2	948090
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	02/25/10 16:39	022510-1	948088
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	02/25/10 16:39	022510-1	948088
7439-92-1	Lead	0.604	ug/L	J	0.5	2	2	1	MS	BAJ	02/21/10 11:56	100220-7	948090
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	02/25/10 16:39	022510-1	948088
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	02/21/10 11:56	100220-7	948090
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/15/10 11:25	021510W1-9	947646
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-09-7	Potassium	82.7	ug/L	J	50	150	150	1	P	HSC	02/25/10 16:39	022510-1	948088
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-23-5	Sodium	154	ug/L	J	100	300	300	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BAJ	02/20/10 22:44	100220-2	948090
7440-61-1	Uranium	0.088	ug/L	J	0.05	0.2	0.2	1	MS	BAJ	02/21/10 13:41	100221-8	948090
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	02/25/10 16:39	022510-1	948088

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947646	947645	SW846 7470A Prep	20	mL	20	mL	02/12/10	TXB3
948088	948085	SW846 3005A	25	mL	25	mL	02/25/10	AXG2
948090	948089	SW846 3005A	50	mL	50	mL	02/03/10	LYH1

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03/09/10

DATA VALIDATION COVER SHEET

5120-1

Data Validation Cover Sheet

Records Use only

Los Alamos NATIONAL LABORATORY

Section I.

REQUEST NUMBER: 10-1474 VALIDATION DATE: 03/10/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

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

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
☒	☐	☐	1. CHAIN-OF-CUSTODY FORM(S)	☒	☐	☐	6. RAW/BSS DATA
☒	☐	☐	2. CASE NARRATIVE	☒	☐	☐	7. QUALITY CONTROL FORMS
☒	☐	☐	3. SAMPLE RESULT FORMS	☐	☐	☒	8. QUANTITATION REPORTS
☐	☐	☒	4. SAMPLE CHROMATOGRAMS	☐	☐	☒	9. TICS FORMS
☐	☐	☒	5. STANDARD CHROMATOGRAMS	☐	☐	☒	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, total cyanide was detected. The associated sample results were detects ≤ 5X the MB concentration and, thus, were qualified U,I4.
2. In the ICB and CCBs associated with the aqueous analysis, total cyanide was detected. The associated sample results were detects ≤ 5X the greatest associated blank concentration and, thus, were qualified U,I4b.
3. It should be noted that the matrix QC for the soil and aqueous analysis for total cyanide were performed on samples from other LANL RNs except for one set of soil matrix QC. No sample data were qualified as a result.

Reviewed by: Mary Donivan Level: I Date: 03/10/10

DATA VALIDATION COVER SHEET	
5120-1 **Data Validation Cover Sheet**	Records Use only Los Alamos NATIONAL LABORATORY EST. 1943
VALIDATOR'S SIGNATURE: Joanne Compton	DATE: 03/10/10
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

Los Alamos NATIONAL LABORATORY EST. 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, I9	J-, I9
☐	☒	☐	2. The holding time was >2 times the applicable holding time requirement.	R, I9a	J-, I9a
☐	☐	☒	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, I9b	R, I9b
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	6. The ICV and/or CCV were recovered outside the method specific limits.	UJ, I7c	J, I7c
☐	☒	☐	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, I7d	J, I7d
☐	☒	☐	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
☐	☐	☒	9. The interference check sample percent recovery value is <50%.	R, I2	J-, I2
☐	☐	☒	10. The interference check sample percent recovery value is ≥50% and <80%.	UJ, I2a	J-, I2a
☐	☐	☒	11. The interference check sample percent recovery value is >120%.	N/A	J+, I2b
☐	☐	☒	12. The interference check sample was not analyzed with the samples.	R, I2c	R, I2c
☒	☐	☐	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

General Chemistry Analytical Data Validation Checklist

Records Use only

Los Alamos NATIONAL LABORATORY

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	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
☒	☐	☐	15. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
☐	☒	☐	16. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	19. The associate matrix spike recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	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
☐	☒	☐	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

Los Alamos NATIONAL LABORATORY EST 1943

Yes	No	N/A		Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
☐	☒	☐	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
☐	☒	☐	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
☐	☒	☐	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
☐	☒	☐	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
☐	☒	☐	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
☐	☒	☐	29. Duplicate, dilution, or reanalysis	UJ, I88	J, I88
☐	☒	☐	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
☒	☐	☐	31. Qualification of data via data validation does not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB NQ, NQ (no qualification)

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7954	Project:	LANL01004
Sample ID:	245806001	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	5.84%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	70.8	260	ug/kg	1	AXC2 02/08/10	1541	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

JCC
3/10/10

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Certificate of Analysis

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

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7956	Project:	LANL01004
Sample ID:	245806002	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	6.14%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	63.5	234	ug/kg	1	AXC2 02/08/10	1545	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

JCC
3/10/10

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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 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7955	Project:	LANL01004
Sample ID:	245806003	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	18%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	71.5	263	ug/kg	1	AXC2 02/08/10	1546	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

JCC
3/10/10

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Certificate of Analysis

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

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7953	Project:	LANL01004
Sample ID:	245806004	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	14.1%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	76.1	280	ug/kg	1	AXC2 02/08/10	1547	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

JCC
3/10/10

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Certificate of Analysis

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

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7952	Project:	LANL01004
Sample ID:	245806005	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	6.69%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	72.9	268	ug/kg	1	AXC2 02/08/10	1548	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

JCC
3/10/10

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Certificate of Analysis

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

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-8060	Project:	LANL01004
Sample ID:	245806006	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	14.6%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	75.1	276	ug/kg	1	AXC2 02/08/10	1549	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

JCC
3/10/10

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Certificate of Analysis

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

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-8058	Project:	LANL01004
Sample ID:	245806007	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	35.9%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	104	382	ug/kg	1	AXC2 02/08/10	1550	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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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 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-8059	Project:	LANL01004
Sample ID:	245806008	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	7.28%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	70.5	259	ug/kg	1	AXC2 02/09/10	1318	947321	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/08/10	1427	947319

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

JCC
3/10/10

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Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1474-1

Client Sample ID:	RE15-10-8081	Project:	LANL01004
Sample ID:	245807001	Client ID:	LANL010
Matrix:	W		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	J	2.82	U,I4	1.66	5.00	ug/L	1	AXC2 02/05/10	1112	947324	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/03/10	1524	947322

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

JCC
3/10/10

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1474-1

Client Sample ID:	RE15-10-8082	Project:	LANL01004
Sample ID:	245807002	Client ID:	LANL010
Matrix:	W		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	J	2.67	U,I4	1.66	5.00	ug/L	1	AXC2 02/05/10	1113	947324	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/03/10	1524	947322

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

JCC
3/10/10

Thursday, January 28, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1474

REQUEST NUMBER: 10-1474

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

TURNAROUND/REPORT DUE: 2/27/2010

TURNAROUND REQ'D: 30

LAB REQUEST COMMENTS: 245806, 245807 %

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7954	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7956	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7955	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7953	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7952	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8060	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8058	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8059	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8081	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8081	1	POLY	SW-846:6850	Ice	W
RE15-10-8081	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8082	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8082	1	POLY	SW-846:6850	Ice	W
RE15-10-8082	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:		Date	Time	Received By:		Date	Time
Printed Name	Signature	1/28/10	1400	Patricia Dover-Dent	P. Dover-Dent	1-29-10	08:45
Printed Name	Signature			Printed Name	Signature		
Printed Name	Signature			Printed Name	Signature		

Received for DISPOSAL By: Date Time

Printed Name Signature

Remarks:

Thursday, January 28, 2010

REQUEST NUMBER: 10-1474

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:10-1474
Per Agreement Number:126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 1/28/2010
TURNAROUND/REPORT DUE: 2/27/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-8081	W	1/26/2010	

Thursday, January 28, 2010

REQUEST NUMBER: 10-1474

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-8082	W	1/26/2010	
	SW-846:6850	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-8081	W	1/26/2010	
		1	RE15-10-8082	W	1/26/2010	
	SW-846:7470A	1	RE15-10-8081	W	1/26/2010	
		1	RE15-10-8082	W	1/26/2010	
	SW-846:7471A	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
	SW-846:9012A	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	

Thursday, January 28, 2010

REQUEST NUMBER: 10-1474

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-8081	W	1/26/2010	
		1	RE15-10-8082	W	1/26/2010	

Final Page of REQUEST NUMBER 10-1474

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178
www.gel.com

February 04, 2010

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: 245806 245807
SDG: 10-1474

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on January 29, 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,

for

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-1474
Enclosures

problem solved

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 245806 and 245807
SDG: 10-1474

Table of Contents

Case Narrative

Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 245806 and 245807
SDG # : 10-1474

February 04, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on January 29, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

Laboratory ID	Client ID
245806001	RE15-10-7954
245806002	RE15-10-7956
245806003	RE15-10-7955
245806004	RE15-10-7953
245806005	RE15-10-7952
245806006	RE15-10-8060
245806007	RE15-10-8058
245806008	RE15-10-8059
245807001	RE15-10-8081
245807002	RE15-10-8082

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.

for

Valerie Davis
Project Manager

List of current GEL Certifications as of 04 February 2010

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

Chain of Custody and Supporting Documentation

Thursday, January 28, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1474

REQUEST NUMBER: 10-1474

LOS ALAMOS

NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

TURNAROUND/REPORT DUE: 2/27/2010

TURNAROUND REQ'D: 30

LAB REQUEST COMMENTS: 245806, 245807 %

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7954	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7956	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7955	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7953	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7952	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8060	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8058	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8059	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-8081	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8081	1	POLY	SW-846:6850	Ice	W
RE15-10-8081	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8082	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8082	1	POLY	SW-846:6850	Ice	W
RE15-10-8082	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:		Date	Time	Received By:		Date	Time
[illegible]	[illegible]	1/28/10	1400	Patricia Dover-Dent	P. Dover-Dent	1-29-10	08:45
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

Thursday, January 28, 2010

REQUEST NUMBER: 10-1474

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:10-1474
Per Agreement Number:126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples according to the schedule indicated:

SHIP DATE: 1/28/2010
TURNAROUND/REPORT DUE: 2/27/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Not Required
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
Signature:

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8020	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-8081	W	1/26/2010	

Thursday, January 28, 2010

REQUEST NUMBER: 10-1474

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-8082	W	1/26/2010	
	SW-846:6850	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-8081	W	1/26/2010	
		1	RE15-10-8082	W	1/26/2010	
	SW-846:7470A	1	RE15-10-8081	W	1/26/2010	
		1	RE15-10-8082	W	1/26/2010	
	SW-846:7471A	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	
		1	RE15-10-8060	R	1/26/2010	
	SW-846:9012A	1	RE15-10-7952	R	1/26/2010	
		1	RE15-10-7953	R	1/26/2010	
		1	RE15-10-7954	R	1/26/2010	
		1	RE15-10-7955	R	1/26/2010	
		1	RE15-10-7956	R	1/26/2010	
		1	RE15-10-8058	R	1/26/2010	
		1	RE15-10-8059	R	1/26/2010	

Thursday, January 28, 2010

REQUEST NUMBER: 10-1474

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE15-10-8060	R	1/26/2010	
		1	RE15-10-8081	W	1/26/2010	
		1	RE15-10-8082	W	1/26/2010	

Final Page of REQUEST NUMBER 10-1474

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL	**SDG/ARCOC/Work Order: 10-1474**
Received By: Patricia Dover-Dent	**Date Received: January 29, 2009**

Suspected Hazard Information	**Yes**	**No**	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: **60 CPM**
Classified Radioactive II by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

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

Comments: FEDEX#S

7209 7849 7419 11C	**7209 7849 7522 6C**
7209 7849 7500 5C	**7209 7849 7533 1C**
7209 7849 7452 2C	**7209 7849 7544 1C**
7209 7849 7474 1C	**7209 7849 7420 10C**
7209 7849 7441 4C	**7209 7849 7496 2C**
7209 7849 7463 3C	**7209 7849 7485 3C**
7209 7849 7430 10C	**7209 7849 7408 12C**
7209 7849 7511 6C	

PM (or PMA) review: Initials _____ Date ~~2/1/09~~ 2/1/10

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 60.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR2A0515BYD0

11°

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3 of 3
MPS# 0203 7209 7849 7419
Matr# 7209 7849 7393 0201

FRI - 29JAN A1
PRIORITY OVERNIGHT

XX CHSA

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ORIGIN ID: SAFA (505) 665-9358
JOYLENE VALDEZ
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UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 60.0 LB MAN
CAD: 0014176/CAFE2449

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1 of 2
TRK# 0201 7209 7849 7500
MASTER

FRI - 29JAN A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
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ORIGIN ID: SAFA (505) 665-9958
JOYLENE VALDEZ
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TA00 BLDG 1237 DPU 03

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SHIP DATE: 28JAN10
ACTWGT: 47.0 LB MAN
CAD: 0014176/CAFE2449

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PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 665-9958
JOYLENE VALDEZ
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TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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MPS# 0263 7209 7849 7474
Mstr# 7209 7849 7463 0201

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PRIORITY OVERNIGHT

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

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UNITED STATES US

SHIP DATE: 20JAN10
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

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MPS# 0263 7209 7849 7441
Mstr# 7209 7849 7430 0201

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 20JAN10
ACTWGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

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TRK# 0201 7209 7849 7463
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PRIORITY OVERNIGHT

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

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Part # 156148-434 NRIT V3 04-08

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2449

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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(843) 556-8171
REF: 6B010AMR1A015AGWK0

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MPS# 0263 7209 7849 7511
Mstr# 7209 7849 7500 0201

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PRIORITY OVERNIGHT

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Part # 156148-434 NRIT V3 04-08

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB.
TA00 BLD0:1237 OPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 54.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 566-0171
REF: 6B010AMR1A0150GNKO

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FRI - 29JAN A1
PRIORITY OVERNIGHT

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Part # 158148-434 NRIT V3 04-08

Page 15 of 1321

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
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TA60 BLDG 1237 DPU 03

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UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 56.0 LB MAN
CAD: 0014176/CAFE2449

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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(843) 556-0171
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PRIORITY OVERNIGHT

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Part # 156148-434 NRIT V3 04-09

238 1 B 7544 01.29

ORIGIN ID: SAFA (505) 665-9968
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TA60 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2449

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
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REF: 6B010AX49A08650000

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FRI - 29JAN A1
PRIORITY OVERNIGHT

XX CHSA

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SC-US
CHS

Part # 156148-434 NRIT V3 04-09

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 20JAN10
ACTWGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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REF: 6B010AMR2A0515BYD0

1 of

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TRK# 0201 7209 7849 7420

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PRIORITY OVERNIGHT

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CHS

Part # 156148-434 NRIT V3 04-08

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 20JAN10
ACTWGT: 54.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
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REF: 6B010AMR1A015AGWK0

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MPS# 0263 7209 7849 7496
Mstr# 7209 7849 7485 0201

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PRIORITY OVERNIGHT

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CHS

Part # 156148-434 NRIT V3 04-08

[redacted]

ORIGIN ID: SAFA (505) 665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB.
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2449

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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REF: 68010AMR1A015AGMKO

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TRK# 0201 7209 7849 7485

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PRIORITY OVERNIGHT

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Part # 156148-434 NRIT V3 04-0

ORIGIN ID: SAFA (505) 665-9966
JOYLENE VALDEZ
LOS ALAMOS NATL LAB.
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 28JAN10
ACTWGT: 4.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
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REF: 68010AMR2A015AGMKO

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2 of 3

MPS# 0263 7209 7849 7498

Master# 7209 7849 7393

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PRIORITY OVERNIGHT

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CHS

XX CHSA

Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

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

LC/MS/MS PERCHLORATE ANALYSIS

Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-1474

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:	947240
Prep Batch Number:	947239

Sample Analysis

Sample ID	Client ID
245806001	RE15-10-7954
245806002	RE15-10-7956
245806003	RE15-10-7955
245806004	RE15-10-7953
245806005	RE15-10-7952
245806006	RE15-10-8060
245806007	RE15-10-8058
245806008	RE15-10-8059
1202029071	Interference Check Sample (ICS)
1202029067	Method Blank (MB)
1202029068	Laboratory Control Sample (LCS)
1202029069	245682002(RE46-10-11907) Matrix Spike (MS)
1202029070	245682002(RE46-10-11907) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

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

Calibration Information

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

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

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

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

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

Quality Control (QC) Information

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

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

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

QC Sample Designation
Client sample 245682002 (RE46-10-11907) from SDG 10-1450-1 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement
The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Retention Time Standard Area Acceptance
The retention time standard areas were within the required acceptance criteria for all samples and QC.

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

Technical Information

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

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG 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 samples in this SDG were not originally analyzed using EPA Method 314.0.

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

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

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

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Herbert K. Mauer **Date:** 02/17/10

SAMPLE DATA SUMMARY

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7954

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806001

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 94.2

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.531	2.12	0.531	ug/kg	U	1	12-FEB-10 17:05	per0212030a
	Perchlorate Isotope Ratio						1	12-FEB-10 17:05	per0212030a
14797-73-0	Perchlorate-101	.531	2.12	0.531	ug/kg	U	1	12-FEB-10 17:05	per0212030a
	Perchlorate-O(18)			5.63	ug/kg		1	12-FEB-10 17:05	per0212030a

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

*Concentration =

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7956

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806002

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 93.9

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.533	2.13	0.923	ug/kg	J	1	12-FEB-10 17:37	per0212034a
	Perchlorate Isotope Ratio			2.92			1	12-FEB-10 17:37	per0212034a
14797-73-0	Perchlorate-101	.533	2.13	0.974	ug/kg	J	1	12-FEB-10 17:37	per0212034a
	Perchlorate-O(18)			5.69	ug/kg		1	12-FEB-10 17:37	per0212034a

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

*Concentration =

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7955

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806003

Date Filtered: 10-FEB-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	.61	2.44	0.610	ug/kg	U	1	12-FEB-10 17:45	per0212035a
	Perchlorate Isotope Ratio						1	12-FEB-10 17:45	per0212035a
14797-73-0	Perchlorate-101	.61	2.44	0.610	ug/kg	U	1	12-FEB-10 17:45	per0212035a
	Perchlorate-O(18)			6.47	ug/kg		1	12-FEB-10 17:45	per0212035a

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

*Concentration =

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7953

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806004

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 86

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.582	2.33	0.582	ug/kg	U	1	12-FEB-10 17:53	per0212036a
	Perchlorate Isotope Ratio						1	12-FEB-10 17:53	per0212036a
14797-73-0	Perchlorate-101	.582	2.33	0.582	ug/kg	U	1	12-FEB-10 17:53	per0212036a
	Perchlorate-O(18)			6.12	ug/kg		1	12-FEB-10 17:53	per0212036a

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

*Concentration =

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7952

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806005

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 93.3

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.536	2.14	0.536	ug/kg	U	1	12-FEB-10 18:01	per0212037a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:01	per0212037a
14797-73-0	Perchlorate-101	.536	2.14	0.536	ug/kg	U	1	12-FEB-10 18:01	per0212037a
	Perchlorate-O(18)			5.80	ug/kg		1	12-FEB-10 18:01	per0212037a

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

*Concentration =

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8060

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806006

Date Filtered: 10-FEB-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	.585	2.34	0.585	ug/kg	U	1	12-FEB-10 18:09	per0212038a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:09	per0212038a
14797-73-0	Perchlorate-101	.585	2.34	0.585	ug/kg	U	1	12-FEB-10 18:09	per0212038a
	Perchlorate-O(18)			6.04	ug/kg		1	12-FEB-10 18:09	per0212038a

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

*Concentration =

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8058

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806007

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 64

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.78	3.12	0.780	ug/kg	U	1	12-FEB-10 18:17	per0212039a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:17	per0212039a
14797-73-0	Perchlorate-101	.78	3.12	0.780	ug/kg	U	1	12-FEB-10 18:17	per0212039a
	Perchlorate-O(18)			8.72	ug/kg		1	12-FEB-10 18:17	per0212039a

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

*Concentration =

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8059

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806008

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 92.7

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.539	2.16	0.539	ug/kg	U	1	12-FEB-10 18:25	per0212040a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:25	per0212040a
14797-73-0	Perchlorate-101	.539	2.16	0.539	ug/kg	U	1	12-FEB-10 18:25	per0212040a
	Perchlorate-O(18)			6.02	ug/kg		1	12-FEB-10 18:25	per0212040a

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

*Concentration =

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

QUALITY CONTROL SUMMARY

Form 5

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10–1474

Extract Batch Code: 947239

Date Filtered: 10–FEB–10

Matrix: SOIL

Sample ID: 1202029068

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.13	ug/kg	106		70 – 130
Perchlorate Isotope Ratio		3.26				–
Perchlorate–101	2.00	2.01	ug/kg	101		70 – 130
Perchlorate–O(18)		5.01	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.

Form 5a

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10–1474

Extract Batch Code: 947239

Date Filtered: 10–FEB–10

Matrix: SOIL

Sample ID: 1202029071

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.26	ug/kg	113		70 – 130
Perchlorate Isotope Ratio		3.06				
Perchlorate–101	2.00	2.28	ug/kg	114		70 – 130
Perchlorate–O(18)		5.34	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\per021210a.qld

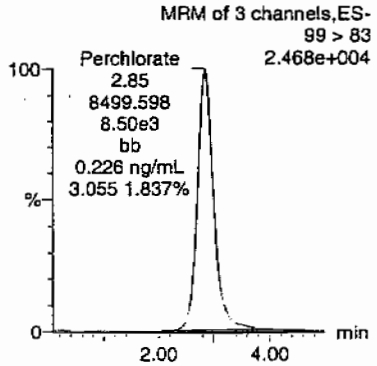
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212014a
Date: 12-Feb-2010
Time: 14:56:24
ID: 1202029071
Vial: 1:3,C

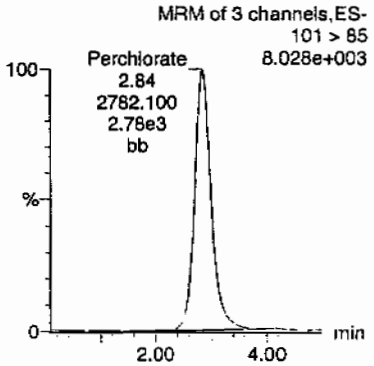
| LAB | 947240 | 5020 | IC | 11

CW 02-13-10

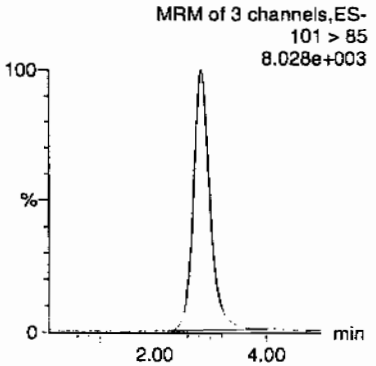
Perchlorate



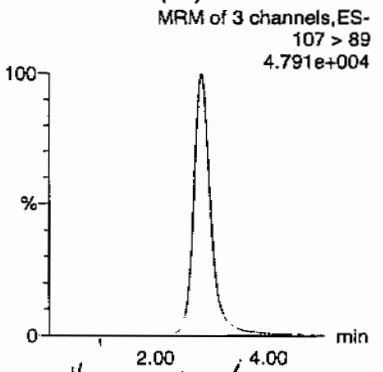
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmc 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202029071	Perchlorate	99 > 83	2.85	8499.598	8499.598	bb			0.2260	113.00	13.00	453.962	3.06
1202029071	Perchlorate-101	101 > 85	2.84	2782.100	2782.100	bb			0.2281	114.04	14.04	638.904	
1202029071	Perchlorate-O(18)	107 > 89	2.82	16858.023	16858.023	bb			0.5336	106.73	6.73	1364.8...	

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

Form 6

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10–1474

Extract Batch Code: 947239

Date Extracted: 10–FEB–10

GEL MS/PS ID: 1202029069

Client ID: RE46–10–11907

GEL MSD/PSD ID: 1202029070

QC Type: MS

Compound^	Spike Added	Sample Conc	Units	MS Conc	MS Rec #	MSD Conc	MSD Rec #	RPD #	RPD Limit	Recovery Limit
Perchlorate	2.39	0.106	ug/kg	2.72	110	2.29	91.6	17.2	30	75 – 125
Perchlorate Isotope Ratio	0	0.00		3.07		3.03		0		–
Perchlorate–101	2.39	0.106	ug/kg	2.74	110	2.33	93.3	16	30	75 – 125
Perchlorate–O(18)	0	6.16	ug/kg	6.43		6.39		.59		–

^ 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

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	12–FEB–10	per0212001a	IPB001
Perchlorate–101	0.00	0	NA	12–FEB–10	per0212001a	IPB001
Perchlorate	0.00	0	NA	12–FEB–10	per0212002a	IPB001
Perchlorate–101	0.00	0	NA	12–FEB–10	per0212002a	IPB001

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

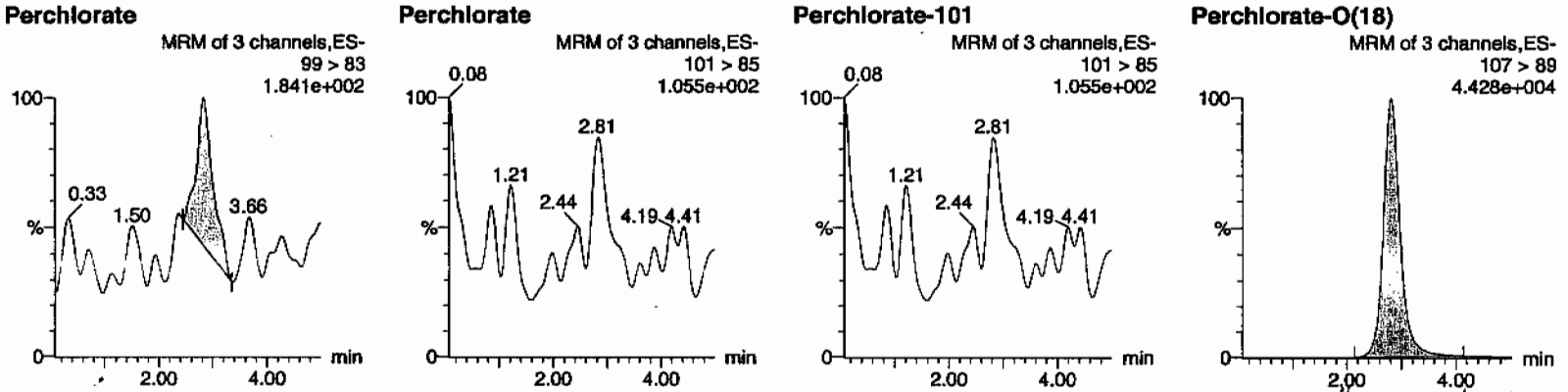
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per021210a.mdb 12 Feb 2010 14:01:47
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per021210a.cdb 13 Feb 2010 10:56:08

Name: per0212001a
Date: 12-Feb-2010
Time: 13:11:47
ID: IPB001
Vial: 1:1,A

aw
02-13-10



Hmw 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	2.82	38.717	38.717	bb			0.0010			10.949	0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.81	15682.421	15682.421	bb			0.4964	99.28	-0.72	2148.0...	

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

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

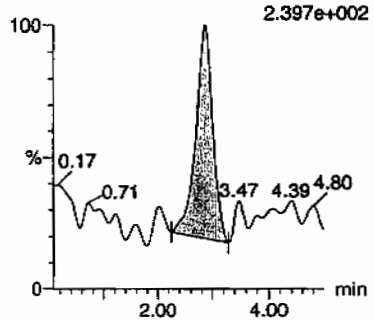
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

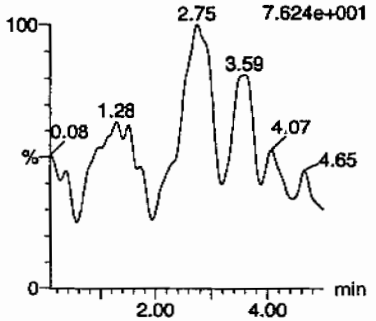
Name: per0212002a
Date: 12-Feb-2010
Time: 13:20:00
ID: IPB001
Vial: 1:1,A

CWW 02-13-10

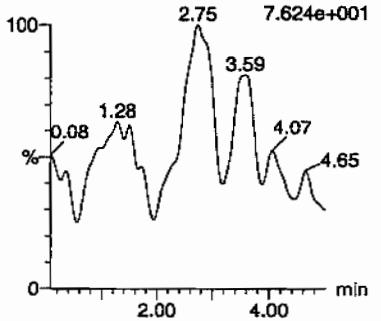
Perchlorate



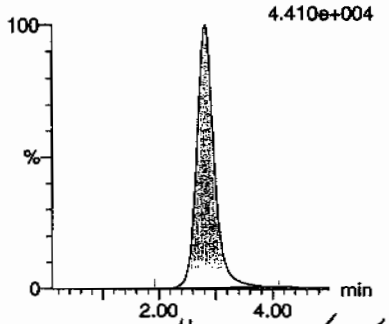
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hnm 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	2.86	70.429	70.429	bb			0.0019			19.613	0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.81	15724.715	15724.715	bb			0.4978	99.55	✓ -0.45	4330.8...	

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

Form 4

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	12–FEB–10	per0212008a	IPB002
Perchlorate–101	0.00	0	NA	12–FEB–10	per0212008a	IPB002
Perchlorate	0.00	0	NA	12–FEB–10	per0212010a	IPB003
Perchlorate–101	0.00	0	NA	12–FEB–10	per0212010a	IPB003
Perchlorate	0.00	0	NA	12–FEB–10	per0212021a	IPB004
Perchlorate–101	0.00	0	NA	12–FEB–10	per0212021a	IPB004
Perchlorate	0.00	0	NA	12–FEB–10	per0212032a	IPB005
Perchlorate–101	0.00	0	NA	12–FEB–10	per0212032a	IPB005
Perchlorate	0.00	0	NA	12–FEB–10	per0212042a	IPB006
Perchlorate–101	0.00	0	NA	12–FEB–10	per0212042a	IPB006

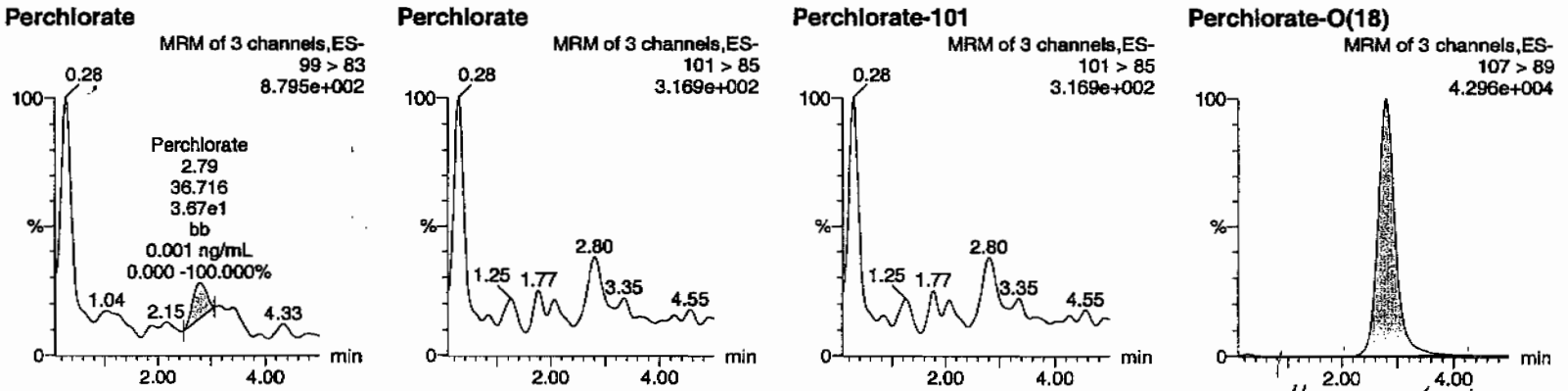
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212008a
Date: 12-Feb-2010
Time: 14:08:09
ID: IPB002
Vial: 1:1,A

CW 02-13-10



HN 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83	2.79	36.716	36.716	bb			0.0010			20.998	0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	2.79	15252.011	15252.011	bb			0.4828	96.56	-3.44	3237.0...	

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

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

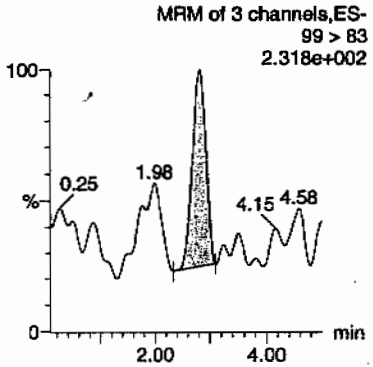
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

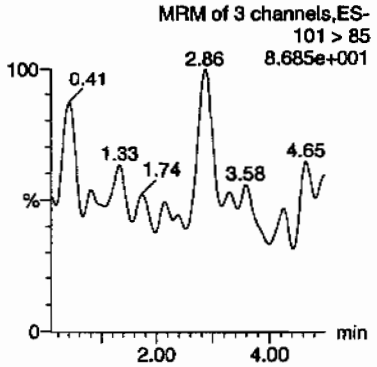
Name: per0212010a
Date: 12-Feb-2010
Time: 14:24:13
ID: IPB003
Vial: 1:1,A

CWW 02-13-10

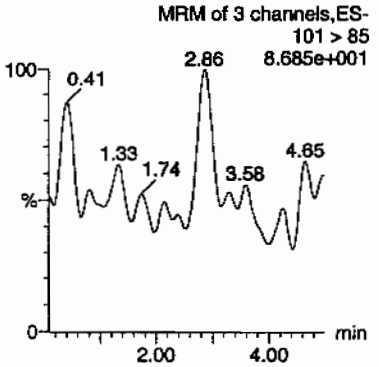
Perchlorate



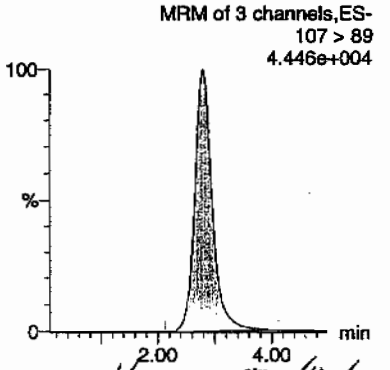
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMM 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83	2.81	51.258	51.258	bb			0.0014			15.095	0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	2.80	15674.793	15674.793	bb			0.4962	99.24	-0.76	2399.7...	

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

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

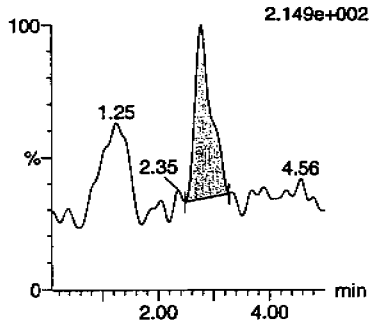
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

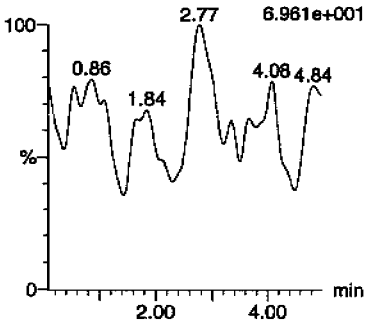
Name: per0212021a
Date: 12-Feb-2010
Time: 15:52:38
ID: IPB004
Vial: 1:1,A

CWO 02-13-10

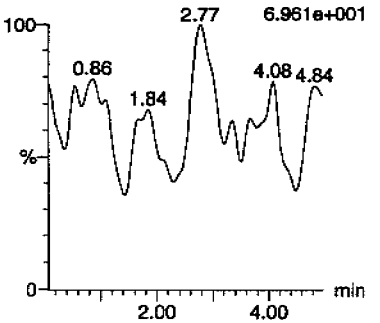
Perchlorate



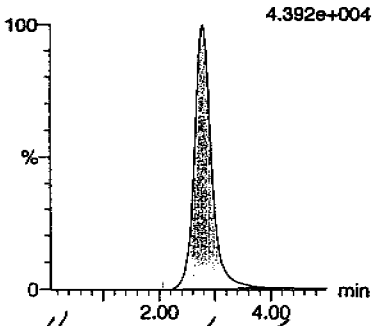
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMW 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83	2.76	48.784	48.784	bb			0.0013			9.869	0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	2.77	15534.931	15534.931	bb			0.4918	98.35	-1.65	2671.0...	

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

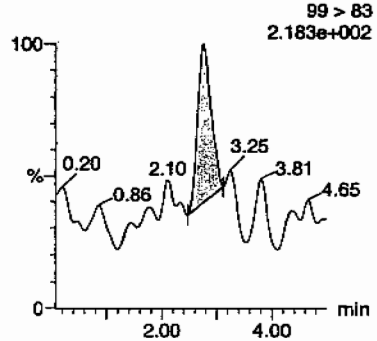
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

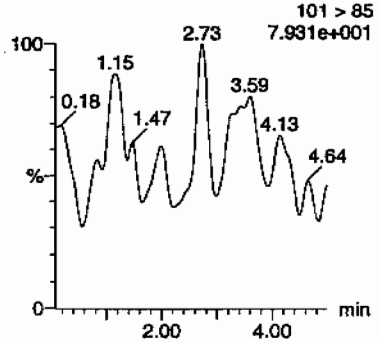
Name: per0212032a
Date: 12-Feb-2010
Time: 17:21:20
ID: IPB005
Vial: 1:1,A

02-13-10

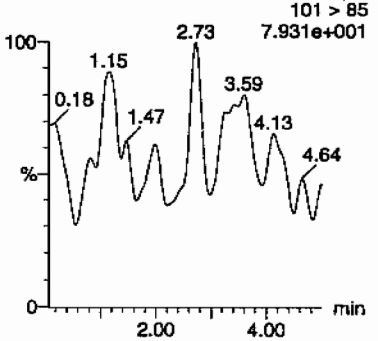
Perchlorate



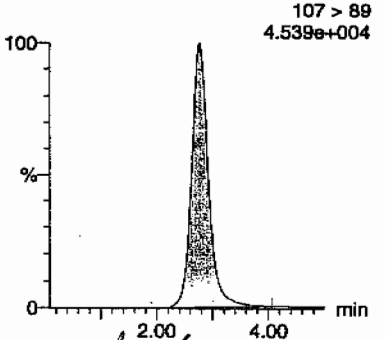
Perchlorate



Perchlorate-101



Perchlorate-O(18)



02/13/10 HMM

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83	2.76	38.580	38.580	bb			0.0010			13.178	0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-O(18)	107 > 89	2.76	15785.521	15785.521	bb			0.4997	99.94	-0.06	4113.3...	

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

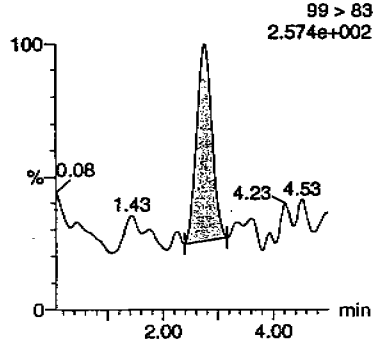
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

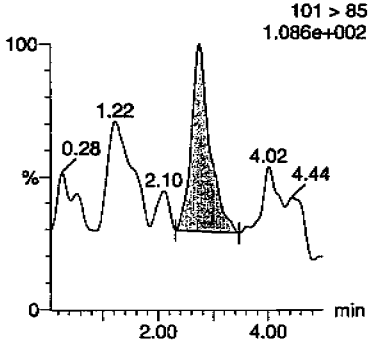
Name: per0212042a
Date: 12-Feb-2010
Time: 18:41:50
ID: IPB006
Vial: 1:1,A

CWW
02-13-10

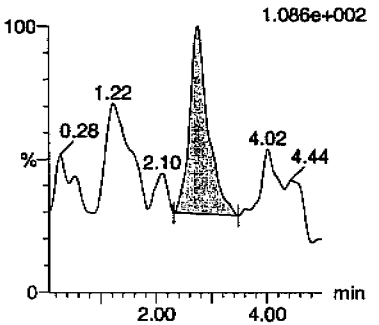
Perchlorate



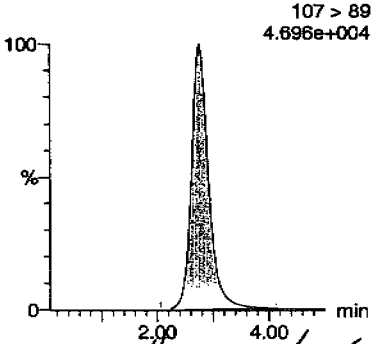
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Anne 02/13/10

ID	Name	Trace	RT	%	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB006	Perchlorate	99 > 83	2.76		63.368	63.368	bb			0.0017			25.713	2.12
IPB006	Perchlorate-101	101 > 85	2.75		29.885	29.885	bb			0.0025			8.674	
IPB006	Perchlorate-O(18)	107 > 89	2.76		16748.635	16748.635	bb			0.5302	106.03	6.03	1315.2...	

OKAY
LA 0500

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

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

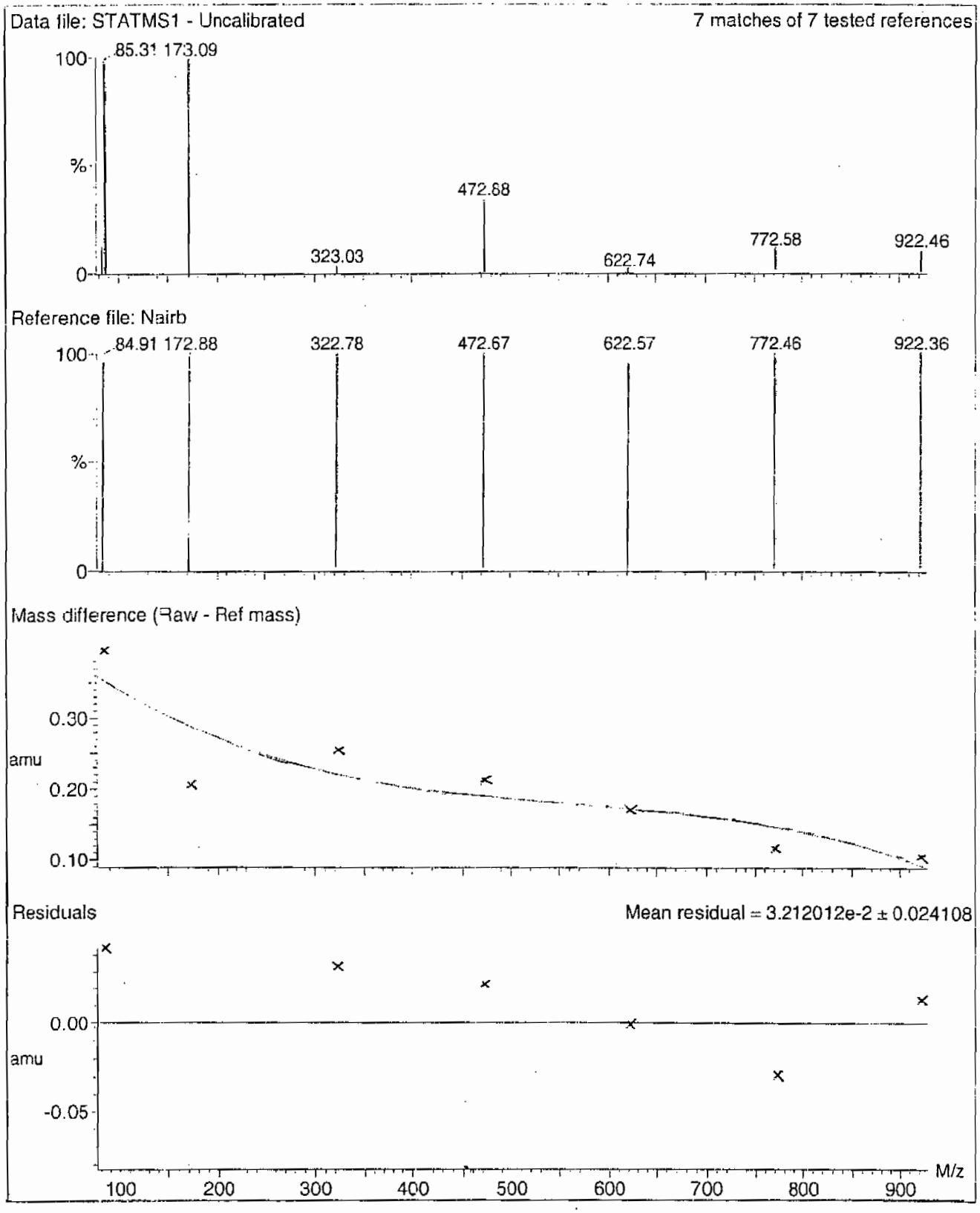
22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803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

QUATTRO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

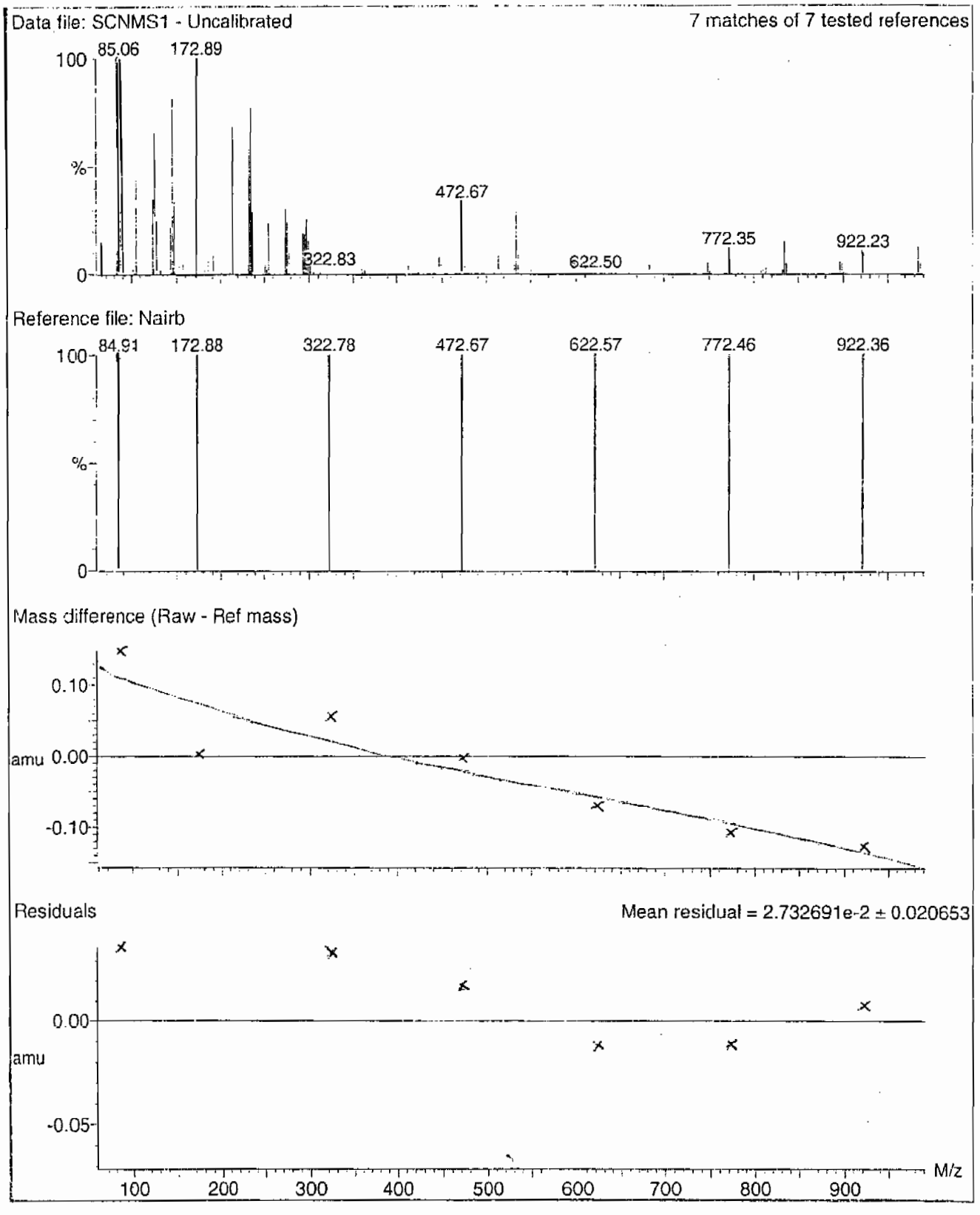
Printed: Tue Jan 08 12:19:12 2008

PEAKS HIGHLIGHTED BY CUNO 01-01-08



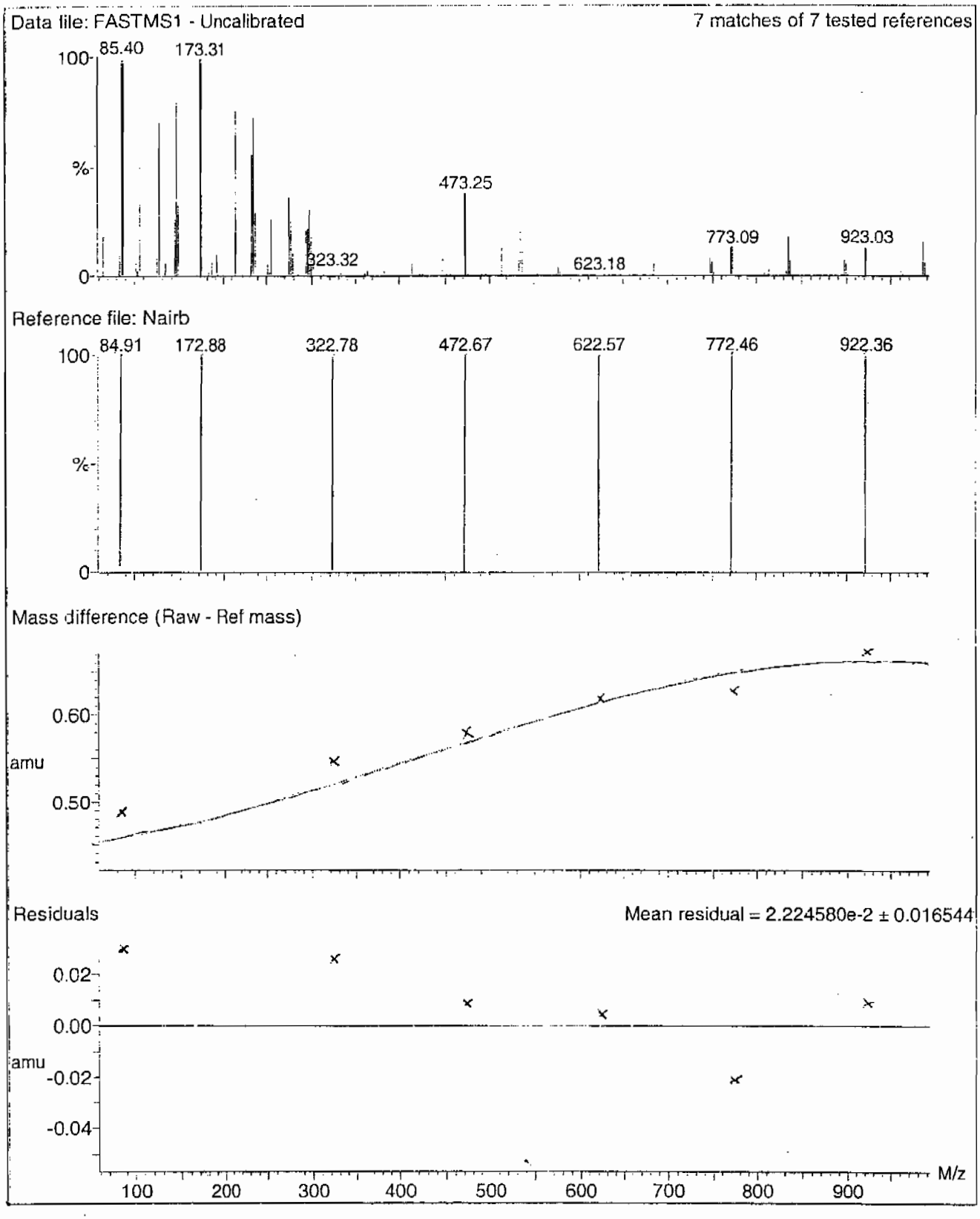
Calibration Report - MS1 Scanning

Printed: Tue Jan 08 12:20:09 2008



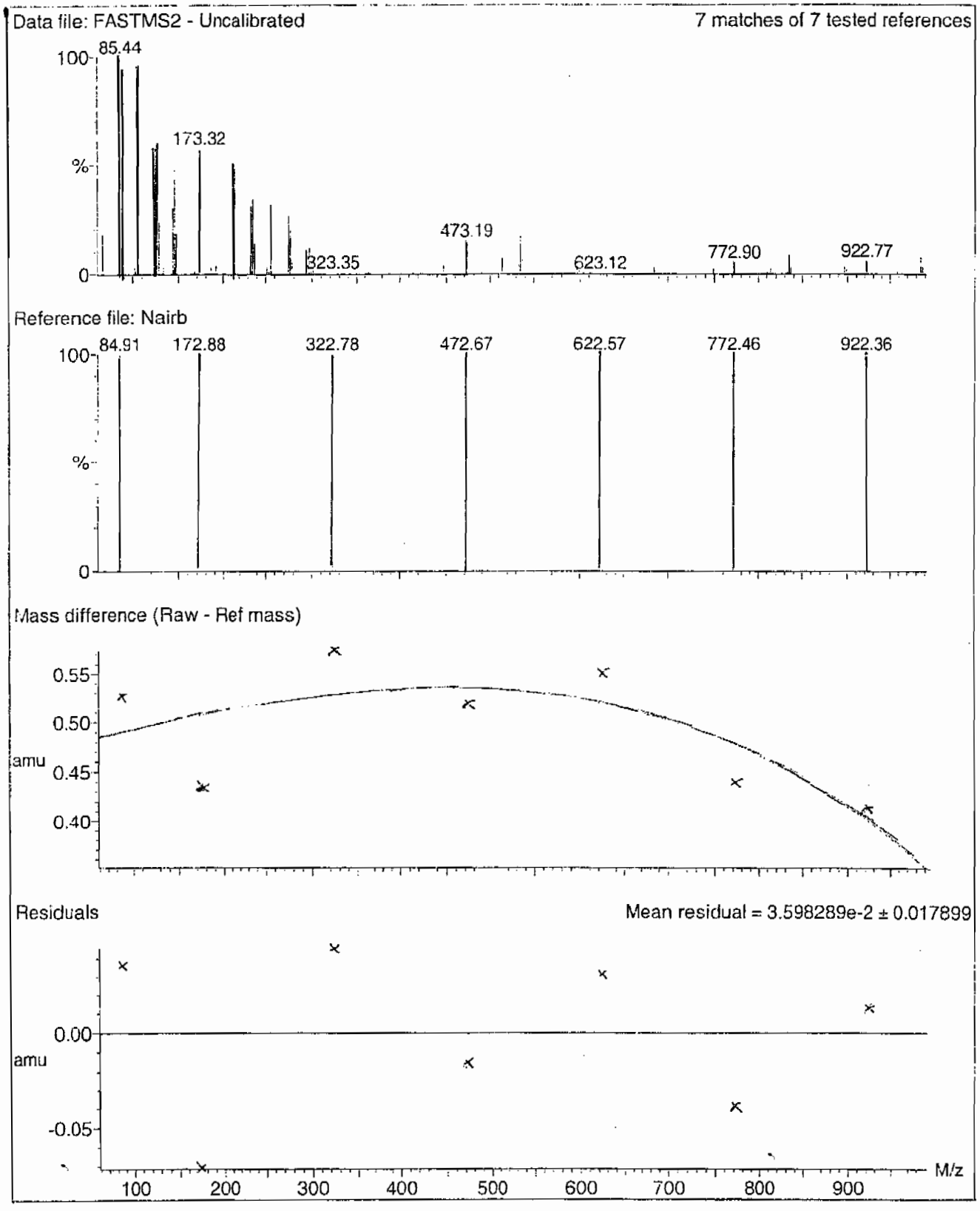
Calibration Report - MS1 Scan Speed Compensation

Printed: Tue Jan 08 12:21:04 2008



Calibration Report - MS2 Scan Speed Compensation

Printed: Tue Jan 08 12:23:51 2008



Calibration Report - MS2 Scanning

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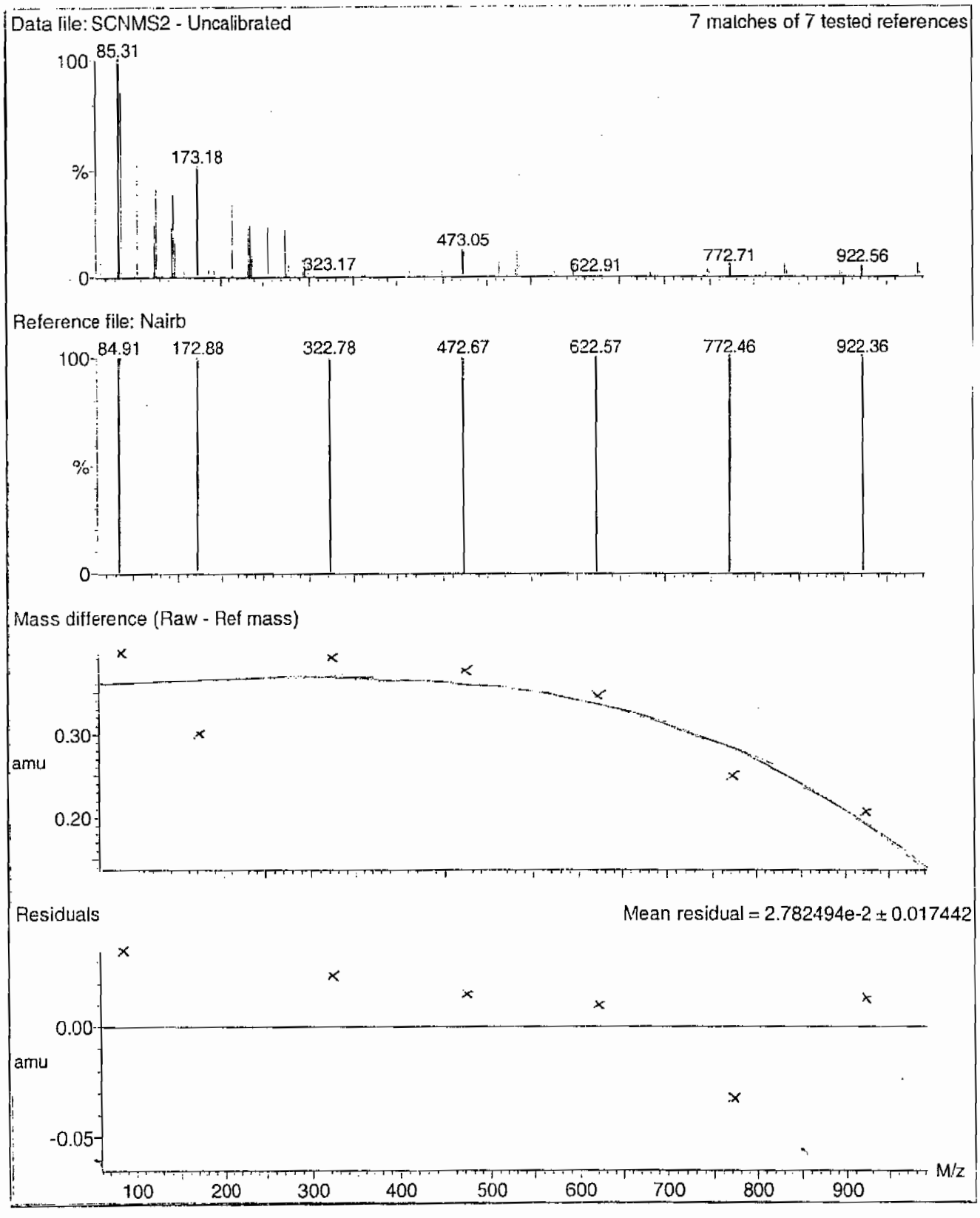
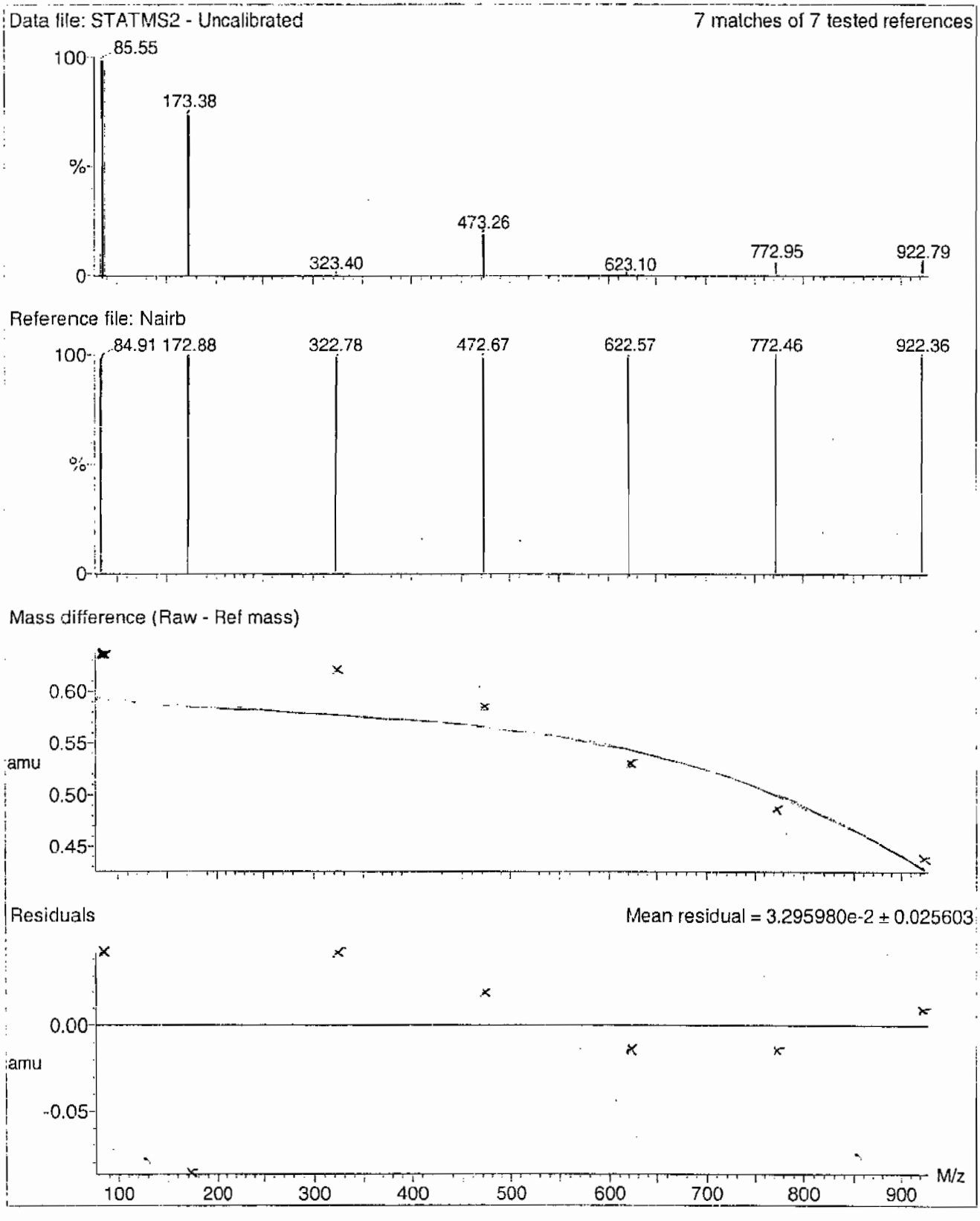


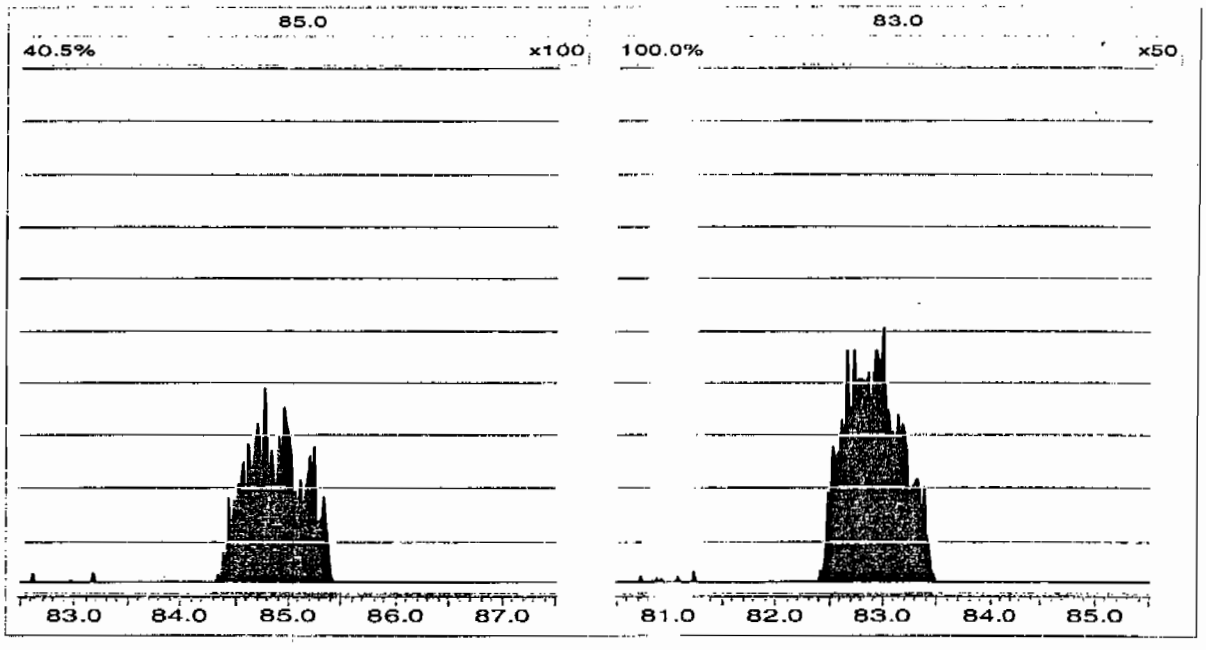
Calibration Report - MS2 Static

Printed: Tue Jan 08 12:21:59 2008



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

Printed: Friday, February 12, 2010 11:29:55 Eastern Standard Time



Form 8

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10–1474

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	**per0212006a**	**12–FEB–10**	**15715**				
Lower Area Limit			**7857.5**				
Upper Area Limit			**31430**				
1202029067	per0212012a	12–FEB–10 14:40	15223.1	2.79	2.7747	.995	
1202029068	per0212013a	12–FEB–10 14:48	15842.5	2.79	2.7996	1.003	
1202029071	per0212014a	12–FEB–10 14:56	16858	2.82	2.84922	1.01	
245806001	per0212030a	12–FEB–10 17:05	16733.5	2.77	2.78722	1.006	
245806002	per0212034a	12–FEB–10 17:37	16858	2.76	2.78715	1.01	
245806003	per0212035a	12–FEB–10 17:45	16751.2	2.77	2.78715	1.006	
245806004	per0212036a	12–FEB–10 17:53	16603.5	2.77	2.78715	1.006	
245806005	per0212037a	12–FEB–10 18:01	17097.2	2.77	2.79965	1.011	

Form 8

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10–1474

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	**per0212006a**	**12–FEB–10**	**15715**				
Lower Area Limit			**7857.5**				
Upper Area Limit			**31430**				
245806006	per0212038a	12–FEB–10 18:09	16301.7	2.77	2.78718	1.006	
245806007	per0212039a	12–FEB–10 18:17	17668	2.76	2.78717	1.01	
245806008	per0212040a	12–FEB–10 18:25	17624.9	2.76	2.77467	1.005	

SAMPLE
DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7954

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806001

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 94.2

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.531	2.12	0.531	ug/kg	U	1	12-FEB-10 17:05	per0212030a
	Perchlorate Isotope Ratio						1	12-FEB-10 17:05	per0212030a
14797-73-0	Perchlorate-101	.531	2.12	0.531	ug/kg	U	1	12-FEB-10 17:05	per0212030a
	Perchlorate-O(18)			5.63	ug/kg		1	12-FEB-10 17:05	per0212030a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

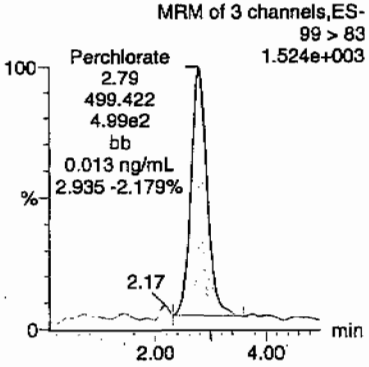
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212030a
Date: 12-Feb-2010
Time: 17:05:15
ID: 245806001
Vial: 1:5,D

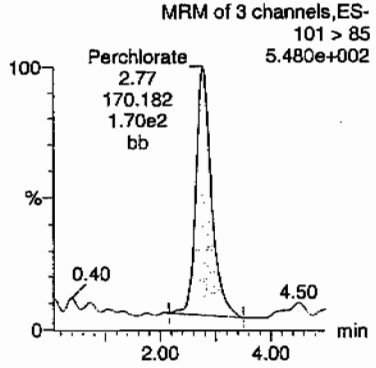
|LANL|947240|SOL20|1|

CWO
02-13-10

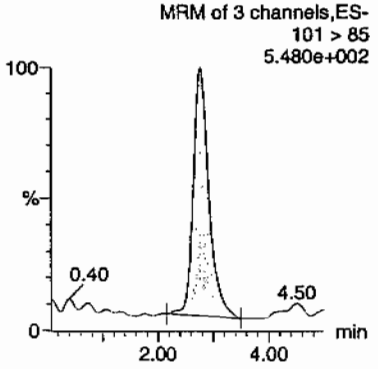
Perchlorate



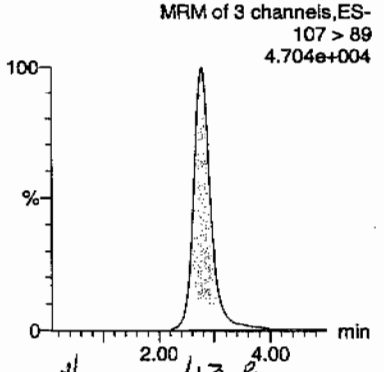
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMC 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245806001	Perchlorate	99 > 83	2.79	499.422	499.422	bb			0.0133			26.511	2.93
245806001	Perchlorate-101	101 > 85	2.77	170.182	170.182	bb			0.0140			18.356	
245806001	Perchlorate-O(18)	107 > 89	2.77	16733.518	16733.518	bb			0.5297	105.94	5.94	638.735	

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7956

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806002

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 93.9

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.533	2.13	0.923	ug/kg	J	1	12-FEB-10 17:37	per0212034a
	Perchlorate Isotope Ratio			2.92			1	12-FEB-10 17:37	per0212034a
14797-73-0	Perchlorate-101	.533	2.13	0.974	ug/kg	J	1	12-FEB-10 17:37	per0212034a
	Perchlorate-O(18)			5.69	ug/kg		1	12-FEB-10 17:37	per0212034a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

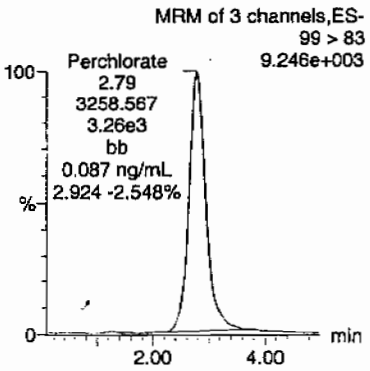
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212034a
Date: 12-Feb-2010
Time: 17:37:27
ID: 245806002
Vial: 1:5,E

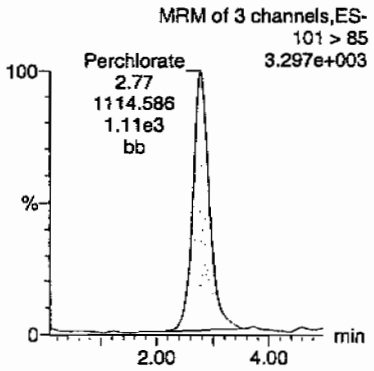
|LANL|947240|50120|1|

CWJ
02-13-10

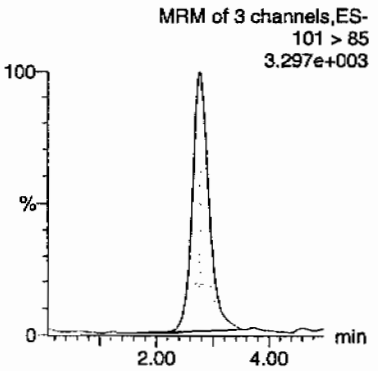
Perchlorate



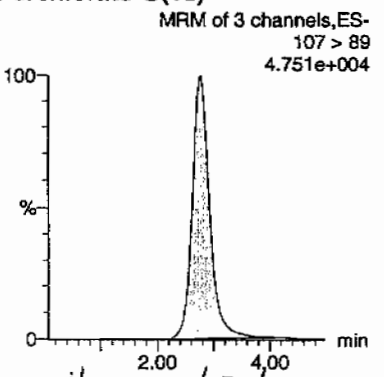
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmc 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245806002	Perchlorate	99 > 83	2.79	3258.567	3258.567	bb			0.0866			408.689	2.92
245806002	Perchlorate-101	101 > 85	2.77	1114.586	1114.586	bb			0.0914			313.430	
245806002	Perchlorate-O(18)	107 > 89	2.76	16858.047	16858.047	bb			0.5336	106.73	6.73	7248.5...	

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7955

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806003

Date Filtered: 10-FEB-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	.61	2.44	0.610	ug/kg	U	1	12-FEB-10 17:45	per0212035a
	Perchlorate Isotope Ratio						1	12-FEB-10 17:45	per0212035a
14797-73-0	Perchlorate-101	.61	2.44	0.610	ug/kg	U	1	12-FEB-10 17:45	per0212035a
	Perchlorate-O(18)			6.47	ug/kg		1	12-FEB-10 17:45	per0212035a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

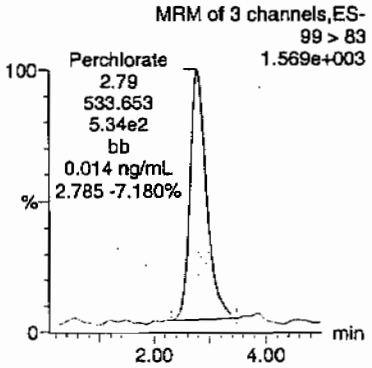
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212035a
Date: 12-Feb-2010
Time: 17:45:29
ID: 245806003
Vial: 1:5,F

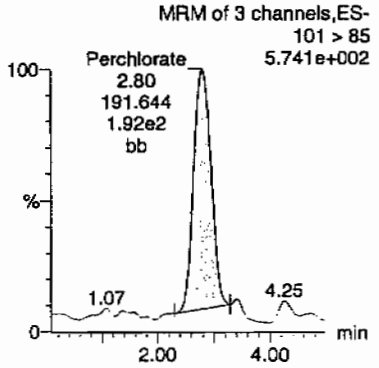
| LANL | 947240 | SOLID | 11

CWJ 02-13-10

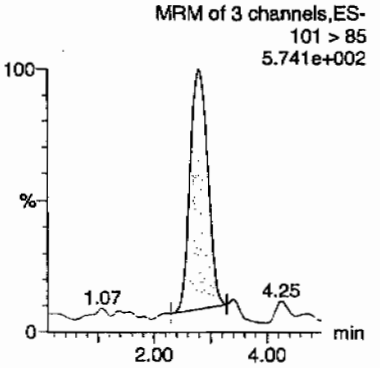
Perchlorate



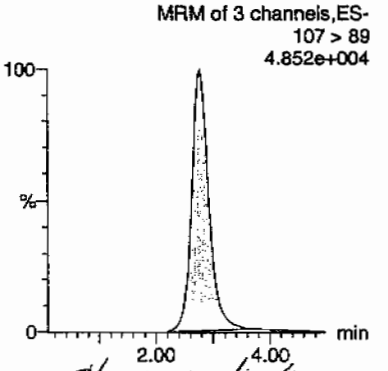
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMK 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245806003	Perchlorate	99 > 83	2.79	533.653	533.653	bb			0.0142			89.385	2.78
245806003	Perchlorate-101	101 > 85	2.80	191.644	191.644	bb			0.0157			100.295	
245806003	Perchlorate-O(18)	107 > 89	2.77	16751.219	16751.219	bb			0.5303	106.05	6.05	1760.2...	

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7953

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806004

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 86

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.582	2.33	0.582	ug/kg	U	1	12-FEB-10 17:53	per0212036a
	Perchlorate Isotope Ratio						1	12-FEB-10 17:53	per0212036a
14797-73-0	Perchlorate-101	.582	2.33	0.582	ug/kg	U	1	12-FEB-10 17:53	per0212036a
	Perchlorate-O(18)			6.12	ug/kg		1	12-FEB-10 17:53	per0212036a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

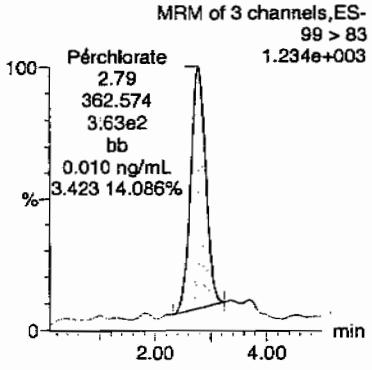
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212036a
Date: 12-Feb-2010
Time: 17:53:31
ID: 245806004
Vial: 1:6,A

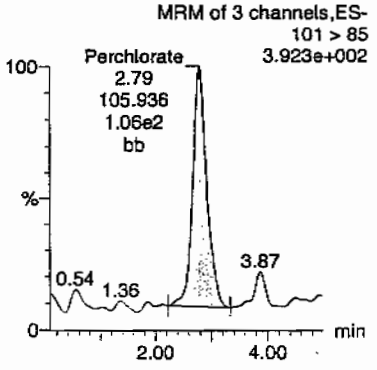
|LANL|947240|50120|1|

02-13-10

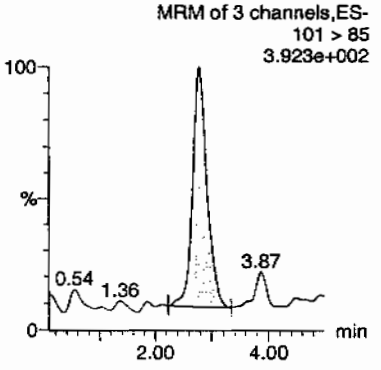
Perchlorate



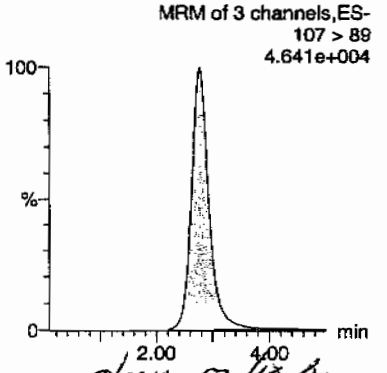
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Anne 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245806004	Perchlorate	99 > 83	2.79	362.574	362.574	bb			0.0096			40.469	3.42
245806004	Perchlorate-101	101 > 85	2.79	105.936	105.936	bb			0.0087			40.356	
245806004	Perchlorate-O(18)	107 > 89	2.77	16603.467	16603.467	bb			0.5256	105.12	5.12	1719.9...	

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-7952

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806005

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 93.3

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.536	2.14	0.536	ug/kg	U	1	12-FEB-10 18:01	per0212037a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:01	per0212037a
14797-73-0	Perchlorate-101	.536	2.14	0.536	ug/kg	U	1	12-FEB-10 18:01	per0212037a
	Perchlorate-O(18)			5.80	ug/kg		1	12-FEB-10 18:01	per0212037a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

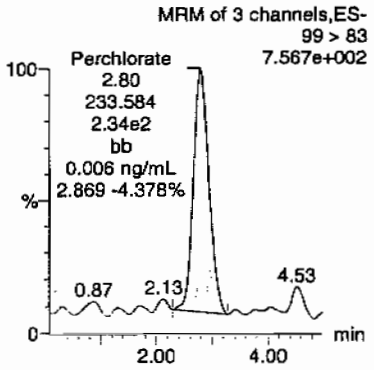
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212037a
Date: 12-Feb-2010
Time: 18:01:34
ID: 245806005
Vial: 1:6,B

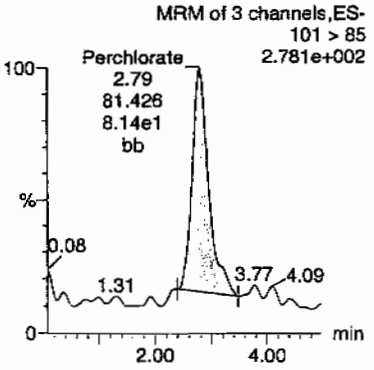
|LZNL|947240|50120|1|

02-13-10

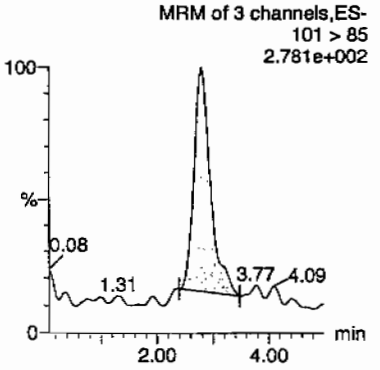
Perchlorate



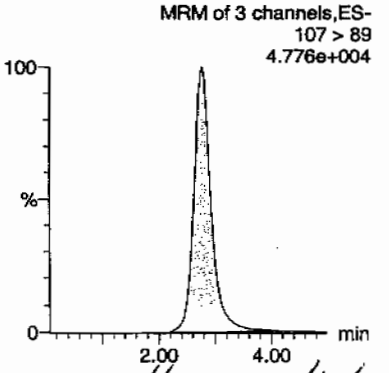
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmc 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245806005	Perchlorate	99 > 83	2.80	233.584	233.584	bb			0.0062			13.282	2.87
245806005	Perchlorate-101	101 > 85	2.79	81.426	81.426	bb			0.0067			38.263	
245806005	Perchlorate-O(18)	107 > 89	2.77	17097.164	17097.164	bb			0.5412	108.24	8.24	3840.6...	

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8060

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806006

Date Filtered: 10-FEB-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	.585	2.34	0.585	ug/kg	U	1	12-FEB-10 18:09	per0212038a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:09	per0212038a
14797-73-0	Perchlorate-101	.585	2.34	0.585	ug/kg	U	1	12-FEB-10 18:09	per0212038a
	Perchlorate-O(18)			6.04	ug/kg		1	12-FEB-10 18:09	per0212038a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

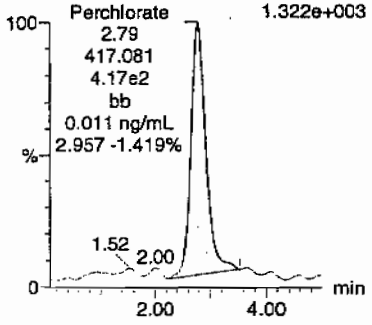
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212038a
Date: 12-Feb-2010
Time: 18:09:38
ID: 245806006
Vial: 1:6,C

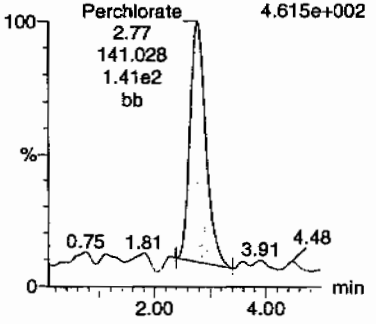
|LANL|947240|SOLID|1|

GWJ 02-13-10

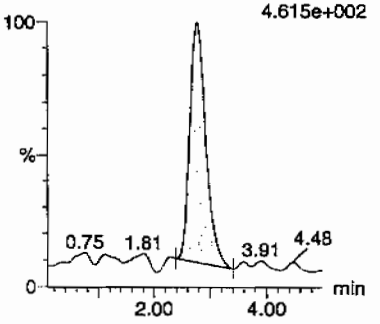
Perchlorate



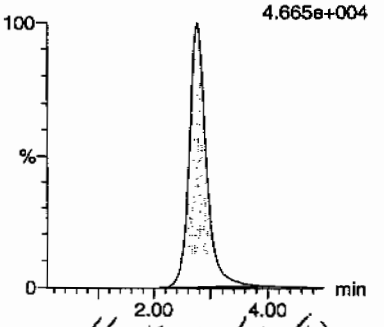
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMK 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245806006	Perchlorate	99 > 83	2.79	417.081	417.081	bb			0.0111			106.640	2.96
245806006	Perchlorate-101	101 > 85	2.77	141.028	141.028	bb			0.0116			14.700	
245806006	Perchlorate-O(18)	107 > 89	2.77	16301.740	16301.740	bb			0.5160	103.21	3.21	984.339	

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8058

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806007

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 64

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.78	3.12	0.780	ug/kg	U	1	12-FEB-10 18:17	per0212039a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:17	per0212039a
14797-73-0	Perchlorate-101	.78	3.12	0.780	ug/kg	U	1	12-FEB-10 18:17	per0212039a
	Perchlorate-O(18)			8.72	ug/kg		1	12-FEB-10 18:17	per0212039a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

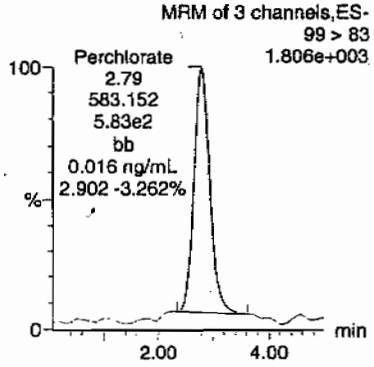
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212039a
Date: 12-Feb-2010
Time: 18:17:42
ID: 245806007
Vial: 1:6,D

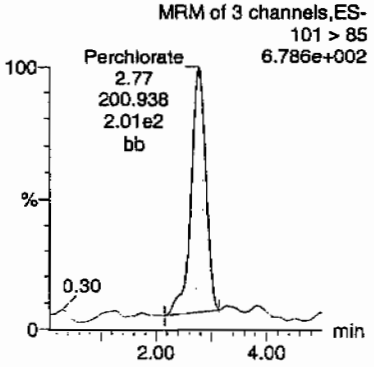
|LANL|947240|50120|1|

CWW 02-13-10

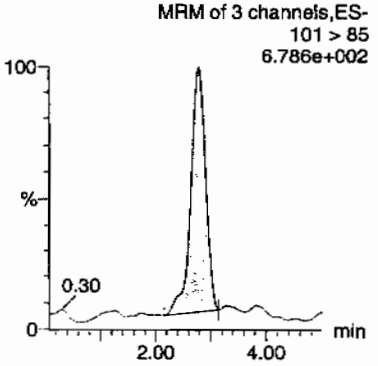
Perchlorate



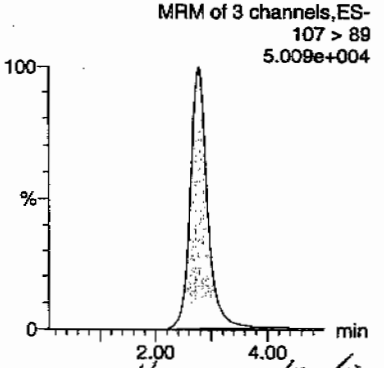
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HAM 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245806007	Perchlorate	99 > 83	2.79	583.152	583.152	bb			0.0155			222.935	2.90
245806007	Perchlorate-101	101 > 85	2.77	200.938	200.938	bb			0.0165			173.795	
245806007	Perchlorate-O(18)	107 > 89	2.76	17667.965	17667.965	bb			0.5593	111.85	11.85	2273.6...	

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

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: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
RE15-10-8059

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 245806008

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 92.7

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.539	2.16	0.539	ug/kg	U	1	12-FEB-10 18:25	per0212040a
	Perchlorate Isotope Ratio						1	12-FEB-10 18:25	per0212040a
14797-73-0	Perchlorate-101	.539	2.16	0.539	ug/kg	U	1	12-FEB-10 18:25	per0212040a
	Perchlorate-O(18)			6.02	ug/kg		1	12-FEB-10 18:25	per0212040a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

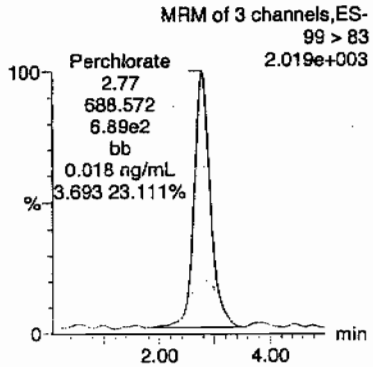
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212040a
Date: 12-Feb-2010
Time: 18:25:44
ID: 245806008
Vial: 1:6,E

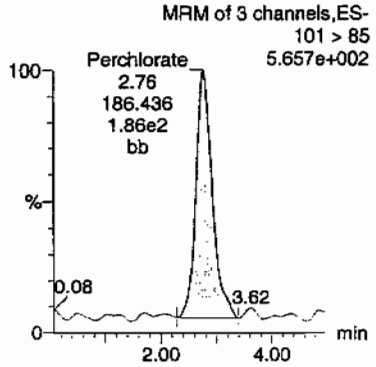
|LANL|947240|SOLID|1|

GW 02-13-10

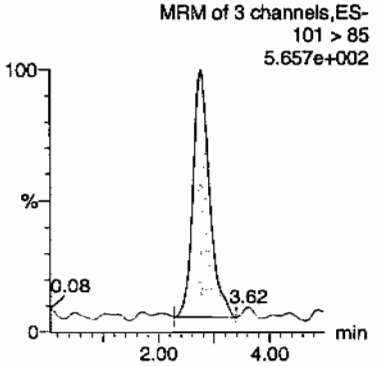
Perchlorate



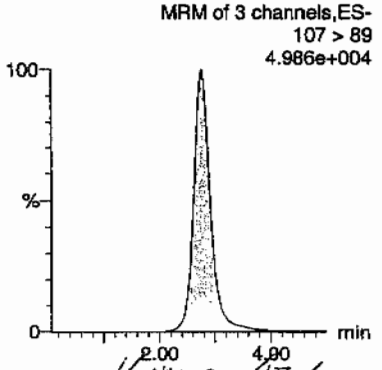
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HAW 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245806008	Perchlorate	99 > 83	2.77	688.572	688.572	bb			0.0183			124.206	3.69
245806008	Perchlorate-101	101 > 85	2.76	186.436	186.436	bb			0.0153			59.294	
245806008	Perchlorate-O(18)	107 > 89	2.76	17624.924	17624.924	bb			0.5579	111.58	11.58	712.358	

STANDARDS DATA

Form 2

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10–1474

Lab Code: GEL

Instrument ID: LCMSMS **Date Analyzed:** 12–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

Parmname Perchlorate

Coefficient of Determination:

Calibration Curve: 37608.16

Response Type: External Standard

Curve Type: RF

Form 2

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10–1474

Lab Code: GEL

Instrument ID: LCMSMS **Date Analyzed:** 12–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

Parmname Perchlorate–101

Coefficient of Determination:

Calibration Curve: 12197.42

Response Type: External Standard

Curve Type: RF

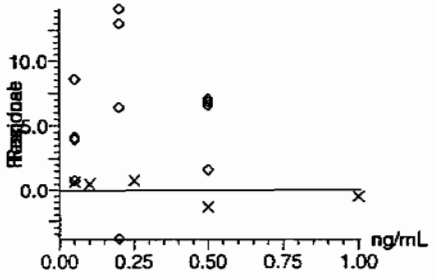
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

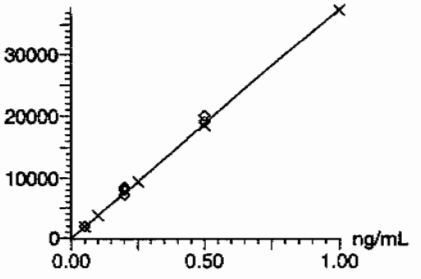
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per021210a.mdb 12 Feb 2010 14:01:47
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per021210a.cdb 13 Feb 2010 10:56:08

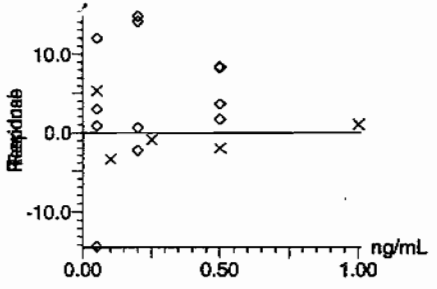
Compound name: Perchlorate
Response Factor: 37608.1
RRF SD: 358.139, % Relative SD: 0.952292
Response type: External Std, Area
Curve type: RF

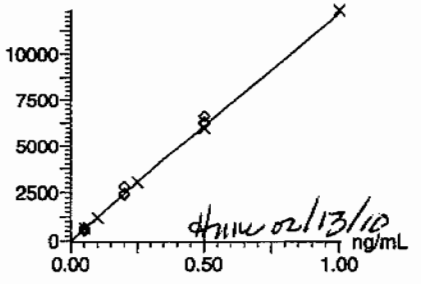




02-13-10

Compound name: Perchlorate-101
Response Factor: 12197.4
RRF SD: 418.958, % Relative SD: 3.43481
Response type: External Std, Area
Curve type: RF





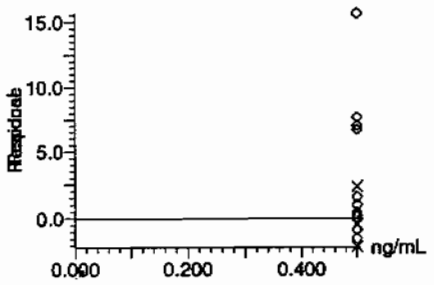
02/13/10

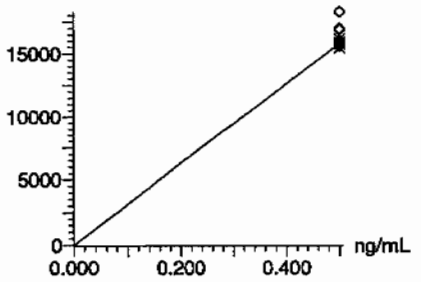
Quantify Calibration Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Compound name: Perchlorate-O(18)
Response Factor: 31590.9
RRF SD: 519.998, % Relative SD: 1.64603
Response type: External Std, Area
Curve type: RF





Form 3

Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.53	106.79	12–FEB–10 14:16	per0212009a
Perchlorate Isotope Ratio		3.04		12–FEB–10 14:16	per0212009a
Perchlorate–101	.5	.54	108.45	12–FEB–10 14:16	per0212009a

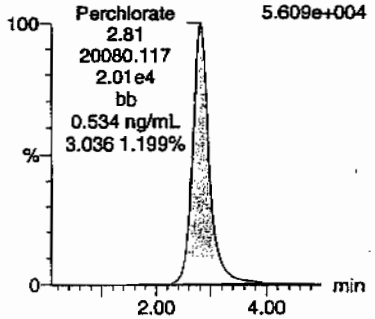
Quantify Sample Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

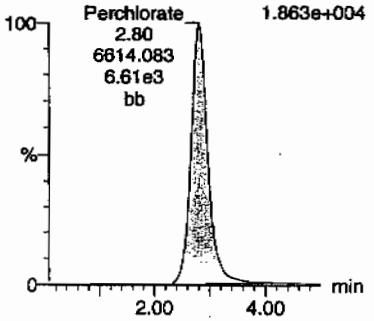
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212009a
Date: 12-Feb-2010
Time: 14:16:11
ID: ~~WCL100128-06ICV~~ WCL100211-06ICV
Vial: 1:2,A

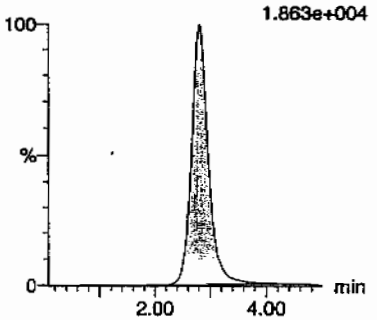
Perchlorate
MRM of 3 channels,ES-
99 > 83
5.609e+004



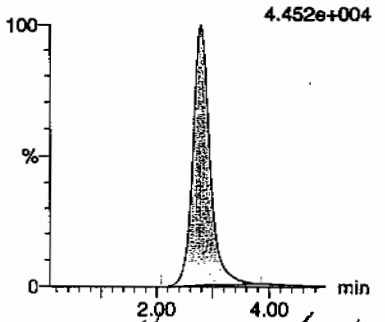
Perchlorate
MRM of 3 channels,ES-
101 > 85
1.863e+004



Perchlorate-101
MRM of 3 channels,ES-
101 > 85
1.863e+004



Perchlorate-O(18)
MRM of 3 channels,ES-
107 > 89
4.452e+004



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06ICV	Perchlorate	99 > 83	2.81	20080.117	20080.117	bb			0.5339	106.79	6.79	1116.2...	3.04
WCL100128-06ICV	Perchlorate-101	101 > 85	2.80	6614.083	6614.083	bb			0.5423	108.45	8.45	1715.6...	
WCL100128-06ICV	Perchlorate-O(18)	107 > 89	2.79	15659.994	15659.994	bb			0.4957	99.14	-0.86	780.695	

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

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.51	101.58	12–FEB–10 15:44	per0212020a
Perchlorate Isotope Ratio		3.08		12–FEB–10 15:44	per0212020a
Perchlorate–101	.5	.51	101.67	12–FEB–10 15:44	per0212020a
Perchlorate	.5	.53	106.57	12–FEB–10 17:13	per0212031a
Perchlorate Isotope Ratio		3.04		12–FEB–10 17:13	per0212031a
Perchlorate–101	.5	.54	108.26	12–FEB–10 17:13	per0212031a
Perchlorate	.5	.54	107.02	12–FEB–10 18:33	per0212041a
Perchlorate Isotope Ratio		3.18		12–FEB–10 18:33	per0212041a
Perchlorate–101	.5	.52	103.61	12–FEB–10 18:33	per0212041a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

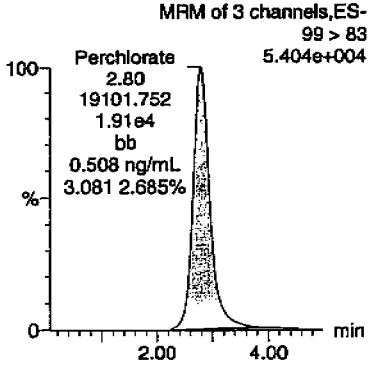
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212020a
Date: 12-Feb-2010
Time: 15:44:36
ID: ~~WCL100128-06CCV~~ WCL100211-06CCV
Vial: 1:2,A

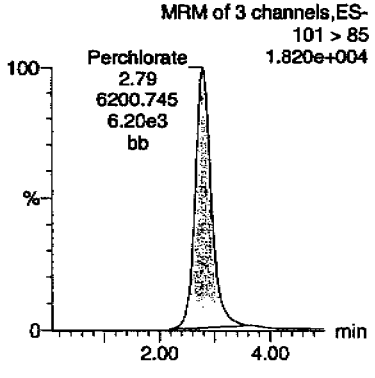
CWO 02-13-10

Pass CWO 02-13-10

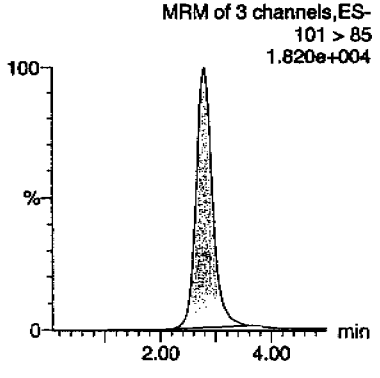
Perchlorate



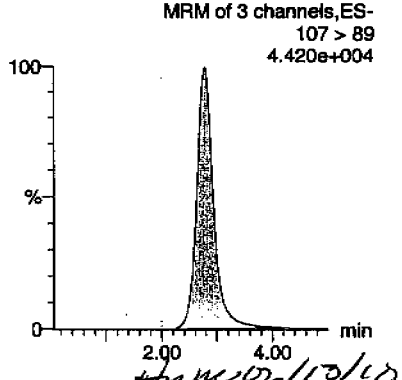
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMW 02/10/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.80	19101.752	19101.752	bb			0.5079	101.58	1.58	2610.9...	3.08
WCL100128-06CCV	Perchlorate-101	101 > 85	2.79	6200.745	6200.745	bb			0.5084	101.67	1.67	546.973	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.77	15563.824	15563.824	bb			0.4927	98.53	-1.47	1889.5...	

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

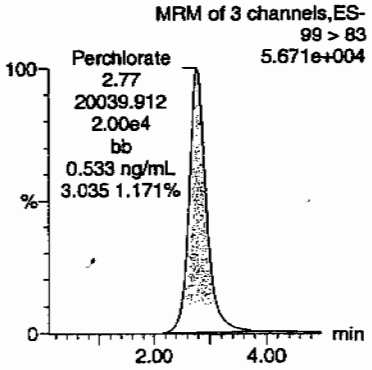
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212031a
Date: 12-Feb-2010
Time: 17:13:18
ID: ~~WCL100128-06CCV~~ WCL100211-06CCV
Vial: 1:2,A

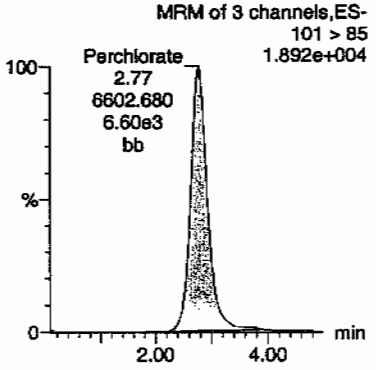
CWJ 02-13-10

PWD CWJ 02-13-10

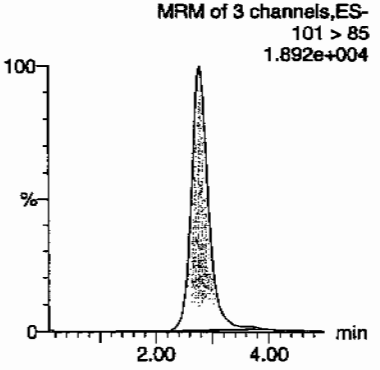
Perchlorate



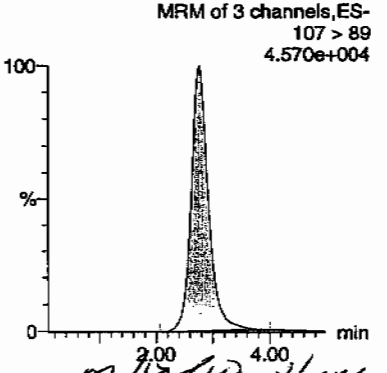
Perchlorate



Perchlorate-101



Perchlorate-O(18)



02/13/10 HMR

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.77	20039.912	20039.912	bb			0.5329	106.57	6.57	5797.7...	3.04
WCL100128-06CCV	Perchlorate-101	101 > 85	2.77	6602.680	6602.680	bb			0.5413	108.26	8.26	1694.1...	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.76	16048.817	16048.817	bb			0.5080	101.60	1.60	1410.6...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

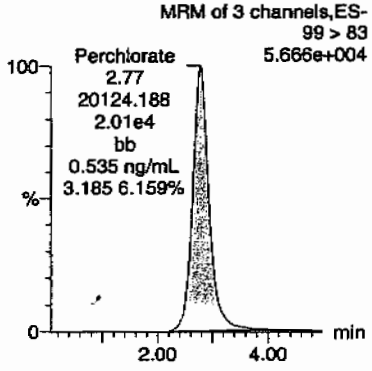
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212041a
Date: 12-Feb-2010
Time: 18:33:47
ID: ~~WCL100128-06CCV~~ WCL100211-06CCV
Vial: 1:2,A

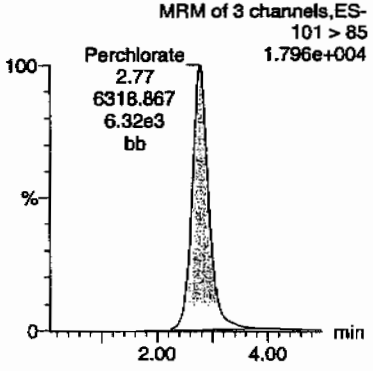
02-13-10

Pass
02-13-10

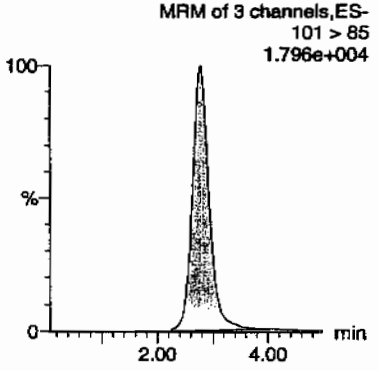
Perchlorate



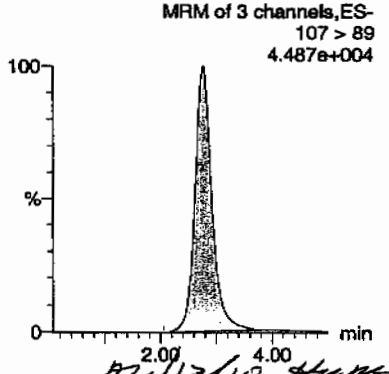
Perchlorate



Perchlorate-101



Perchlorate-O(18)



02/13/10 [illegible]

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.77	20124.188	20124.188	bb			0.5351	107.02	7.02	2450.8...	3.18
WCL100128-06CCV	Perchlorate-101	101 > 85	2.77	6318.867	6318.867	bb			0.5181	103.61	3.61	507.983	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.76	15814.844	15814.844	bb			0.5006	100.12	0.12	2260.6...	

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	100.77	12–FEB–10 14:32	per0212011a
Perchlorate Isotope Ratio		2.78		12–FEB–10 14:32	per0212011a
Perchlorate–101	.05	.06	111.96	12–FEB–10 14:32	per0212011a
Perchlorate	.05	.05	103.94	12–FEB–10 16:00	per0212022a
Perchlorate Isotope Ratio		3.73		12–FEB–10 16:00	per0212022a
Perchlorate–101	.05	.04	85.82	12–FEB–10 16:00	per0212022a
Perchlorate	.05	.05	104.14	12–FEB–10 17:29	per0212033a
Perchlorate Isotope Ratio		3.12		12–FEB–10 17:29	per0212033a
Perchlorate–101	.05	.05	102.97	12–FEB–10 17:29	per0212033a
Perchlorate	.05	.05	108.6	12–FEB–10 18:49	per0212043a
Perchlorate Isotope Ratio		3.32		12–FEB–10 18:49	per0212043a

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate–101	.05	.05	100.86	12–FEB–10 18:49	per0212043a

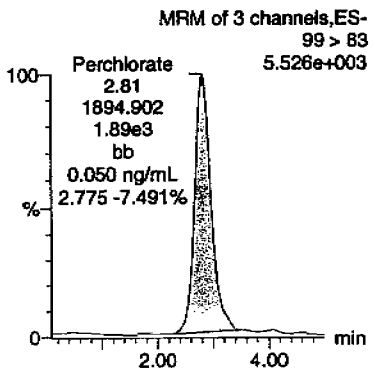
Quantify Sample Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

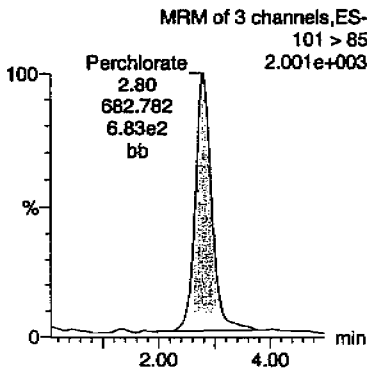
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212011a
Date: 12-Feb-2010
Time: 14:32:15
ID: ~~WCL100128-07CRI~~ WCL100211-07CRI
Vial: 1:2,B

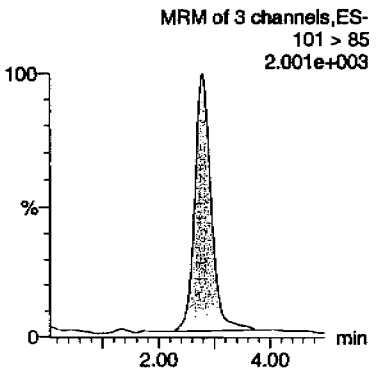
Perchlorate



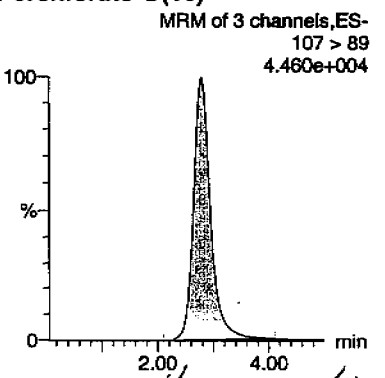
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.81	1894.902	1894.902	bb			0.0504	100.77	0.77	116.592	2.78
WCL100128-07CRI	Perchlorate-101	101 > 85	2.80	682.782	682.782	bb			0.0560	111.96	11.96	330.079	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.79	15868.563	15868.563	bb			0.5023	100.46	0.46	2772.0...	

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

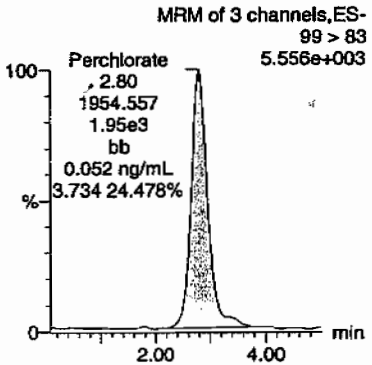
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

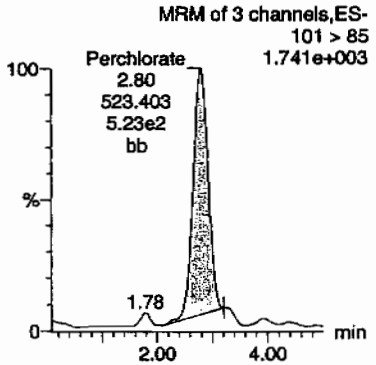
Name: per0212022a
Date: 12-Feb-2010
Time: 16:00:40
ID: ~~WCL100128-07CRI~~ WCL100211-07CRZ
Vial: 1:2,B CWO 02-13-10

PWO CWO 02-13-10

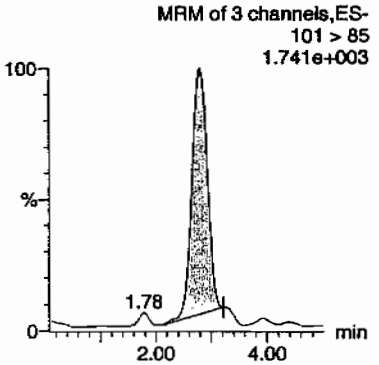
Perchlorate



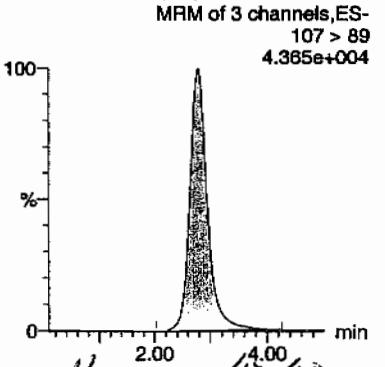
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmc 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.80	1954.557	1954.557	bb			0.0520	103.94	3.94	556.182	3.73
WCL100128-07CRI	Perchlorate-101	101 > 85	2.80	523.403	523.403	bb			0.0429	85.82	-14.18	119.738	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.79	15667.299	15667.299	bb			0.4959	99.19	-0.81	1626.3...	

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

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

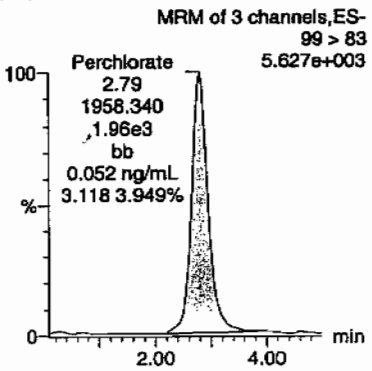
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

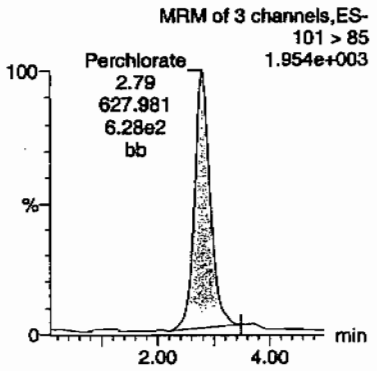
Name: per0212033a
Date: 12-Feb-2010
Time: 17:29:23
ID: ~~WCL100128-07CRI~~ WCL 100211-07CRZ
Vial: 1:2,B WJ 02-13-10

Pass
WJ
02-13-10

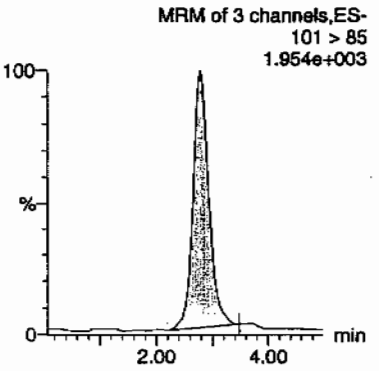
Perchlorate



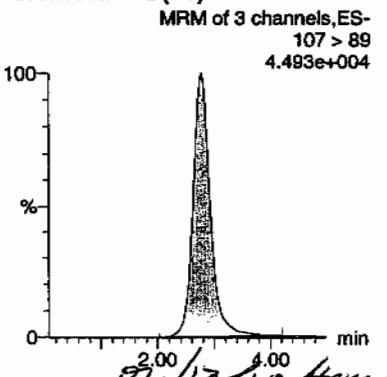
Perchlorate



Perchlorate-101



Perchlorate-O(18)



02/13/10 [illegible]

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.79	1958.340	1958.340	bb			0.0521	104.14	4.14	315.766	3.12
WCL100128-07CRI	Perchlorate-101	101 > 85	2.79	627.981	627.981	bb			0.0515	102.97	2.97	173.472	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.77	15952.271	15952.271	bb			0.5050	100.99	0.99	571.084	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

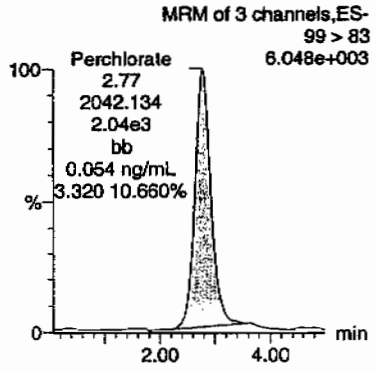
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212043a
Date: 12-Feb-2010
Time: 18:49:53
ID: ~~WCL100128-07CRI~~ WCL100211-07CRI
Vial: 1:2,B

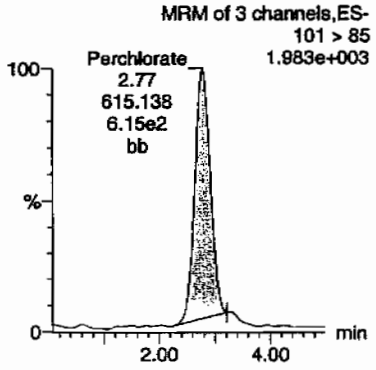
Pass
AWJ
02-13-10

AWJ
02-13-10

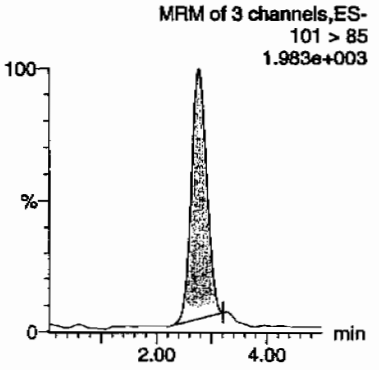
Perchlorate



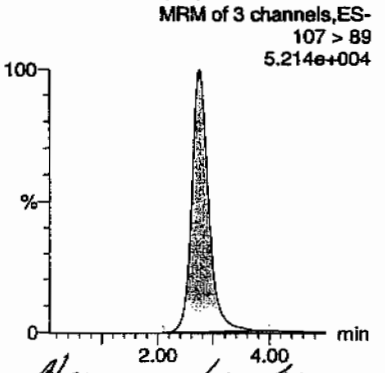
Perchlorate



Perchlorate-101



Perchlorate-O(18)



AWJ 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.77	2042.134	2042.134	bb			0.0543	108.60	8.60	78.582	3.32
WCL100128-07CRI	Perchlorate-101	101 > 85	2.77	615.138	615.138	bb			0.0504	100.86	0.86	291.822	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.75	18266.033	18266.033	bb			0.5782	115.64	15.64	1757.4...	

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

QUALITY CONTROL

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
MB

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 1202029067

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	12-FEB-10 14:40	per0212012a
	Perchlorate Isotope Ratio						1	12-FEB-10 14:40	per0212012a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	12-FEB-10 14:40	per0212012a
	Perchlorate-O(18)			4.82	ug/kg		1	12-FEB-10 14:40	per0212012a

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

*Concentration =

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

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

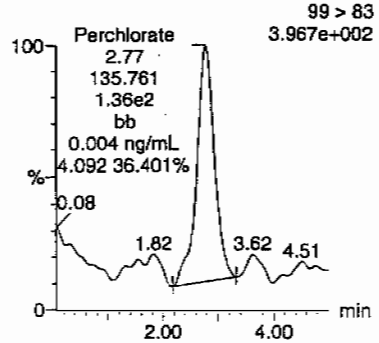
Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

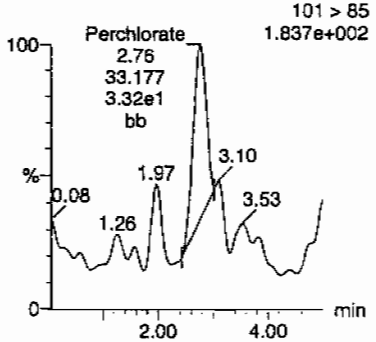
Name: per0212012a
Date: 12-Feb-2010
Time: 14:40:19
ID: 1202029067 | LAIOL | 947240 | 50120 | MB | 1 |
Vial: 1:3,A

(WW) 02-13-10

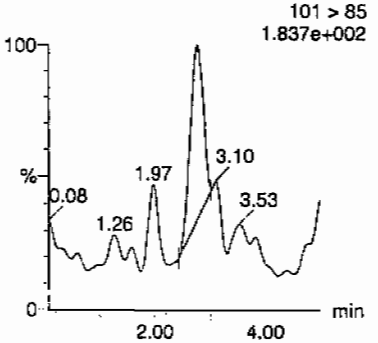
Perchlorate



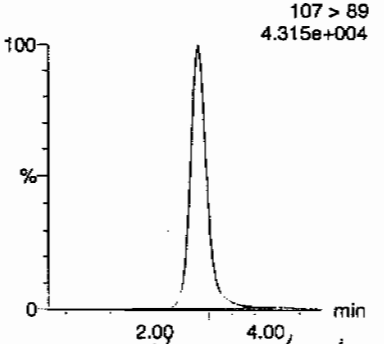
Perchlorate



Perchlorate-101



Perchlorate-O(18)



02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202029067	Perchlorate	99 > 83	2.77	135.761	135.761	bb			0.0036			13.882	4.09
1202029067	Perchlorate-101	101 > 85	2.76	33.177	33.177	bb			0.0027			15.585	
1202029067	Perchlorate-O(18)	107 > 89	2.79	15223.065	15223.065	bb			0.4819	96.38	-3.62	643.544	

ONLY 20.0500

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 947239

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.
LCS

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1474

GEL Sample ID: 1202029068

Date Filtered: 10-FEB-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	2.13	ug/kg		1	12-FEB-10 14:48	per0212013a
	Perchlorate Isotope Ratio			3.26			1	12-FEB-10 14:48	per0212013a
14797-73-0	Perchlorate-101	.5	2	2.01	ug/kg		1	12-FEB-10 14:48	per0212013a
	Perchlorate-O(18)			5.01	ug/kg		1	12-FEB-10 14:48	per0212013a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

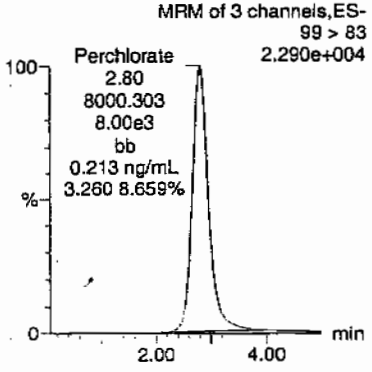
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212013a
Date: 12-Feb-2010
Time: 14:48:22
ID: 1202029068
Vial: 1:3,B

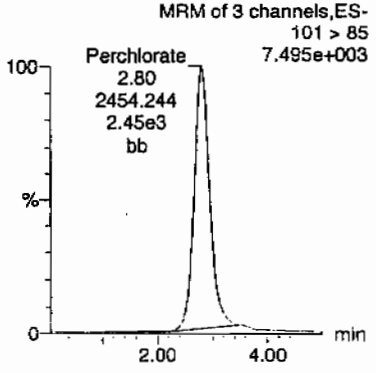
|LCMS|947240|5020|LCS|1|

UL-13-10

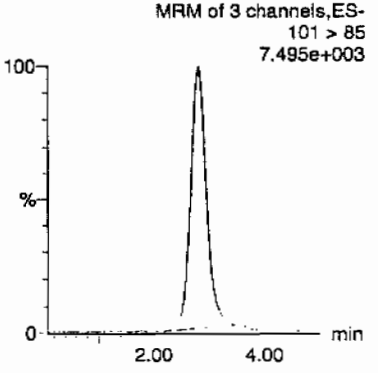
Perchlorate



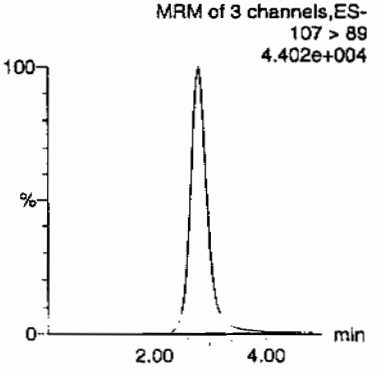
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202029068	Perchlorate	99 > 83	2.80	8000.303	8000.303	bb			0.2127	106.36	6.36	1689.3...	3.26
1202029068	Perchlorate-101	101 > 85	2.80	2454.244	2454.244	bb			0.2012	100.61	0.61	474.361	
1202029068	Perchlorate-O(18)	107 > 89	2.79	15842.475	15842.475	bb			0.5015	100.30	0.30	1347.2...	

$\frac{8000.303}{37608.1} = 0.2127$

MM 02/13/10

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: 947239 **Verified by:**
Analyst: Jareth Shirley
Method: SW846 6850 Modified

Lab SOP: GL-OA-E-067 REV# 6
Instrument: MicroMass Quatro Ultima

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202029067 MB	10-FEB-2010 15:29:00	2	20	10
1202029068 LCS	10-FEB-2010 15:29:00	2	20	10
245682001	10-FEB-2010 15:29:00	2	20	10
245682002	10-FEB-2010 15:29:00	2	20	10
1202029069 MS (245682002)	10-FEB-2010 15:29:00	2	20	10
1202029070 MSD (245682002)	10-FEB-2010 15:29:00	2	20	10
245682003	10-FEB-2010 15:29:00	2	20	10
245682004	10-FEB-2010 15:29:00	2	20	10
245682005	10-FEB-2010 15:29:00	2	20	10
245682006	10-FEB-2010 15:29:00	2	20	10
245682007	10-FEB-2010 15:29:00	2	20	10
245682008	10-FEB-2010 15:29:00	2	20	10
245682009	10-FEB-2010 15:29:00	2	20	10
245682010	10-FEB-2010 15:29:00	2	20	10
245806001	10-FEB-2010 15:29:00	2	20	10
245806002	10-FEB-2010 15:29:00	2	20	10
245806003	10-FEB-2010 15:29:00	2	20	10
245806004	10-FEB-2010 15:29:00	2	20	10
245806005	10-FEB-2010 15:29:00	2	20	10
245806006	10-FEB-2010 15:29:00	2	20	10
245806007	10-FEB-2010 15:29:00	2	20	10
245806008	10-FEB-2010 15:29:00	2	20	10
1202029071 ICS	10-FEB-2010 15:29:00	2	20	10

Type	Sample Id	Description	Serial Number	Spike Amt	Units
ICS	1202029071	10 ug/L ICV/CCV Second Source	UCL100126-02.1	.4	mL
LCS	1202029068	10 ug/L ICV/CCV Second Source	UCL100126-02.1	.4	mL
MS	1202029069	10 ug/L ICV/CCV Second Source	UCL100126-02.1	.4	mL
MSD	1202029070	10 ug/L ICV/CCV Second Source	UCL100126-02.1	.4	mL

Comments:
Desalting cartridges used: 091118-1-Ba & 100105-1-H

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 02/12/10
Extr. Injection Volume: 20uL
Sequence Number: per021210a
Initial Calibration Date: 02/12/10

Method: EPA 6850-Modified
Int. Std.: UCL100122-01
Mobile Phase Lot#: 1254342, 1261217
Standard-Samp Reagent Lot#:: 1233976

Reviewed BY: Hm MC
Date: 02/13/10
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
per0212001a	IPB001	CWW	2/12/2010 13:11			1		USE	B
per0212002a	IPB001	CWW	2/12/2010 13:20			1		USE	B
per0212003a	WCLICAL-01	CWW	2/12/2010 13:28			1		USE	I
per0212004a	WCLICAL-02	CWW	2/12/2010 13:36			1		USE	I
per0212005a	WCLICAL-03	CWW	2/12/2010 13:44			1		USE	I
per0212006a	WCLICAL-04	CWW	2/12/2010 13:52			1		USE	I
per0212007a	WCLICAL-05	CWW	2/12/2010 14:00			1		USE	I
per0212008a	IPB002	CWW	2/12/2010 14:08			1		USE	B
per0212009a	WCLICV	CWW	2/12/2010 14:16			1		USE	C
per0212010a	IPB003	CWW	2/12/2010 14:24			1		USE	B
per0212011a	WCLCRI	CWW	2/12/2010 14:32			1		USE	C
per0212012a	1202029067	CWW	2/12/2010 14:40	947240	VARIOUS	1	LANL	USE	S
per0212013a	1202029068	CWW	2/12/2010 14:48	947240	VARIOUS	1	LANL	USE	S
per0212014a	1202029071	CWW	2/12/2010 14:56	947240	VARIOUS	1	LANL	USE	S
per0212015a	245682001	CWW	2/12/2010 15:04	947240	10-1450-1	1	LANL	USE	S
per0212016a	245682002	CWW	2/12/2010 15:12	947240	10-1450-1	1	LANL	USE	S
per0212017a	1202029069	CWW	2/12/2010 15:20	947240	10-1450-1	1	LANL	USE	S
per0212018a	1202029070	CWW	2/12/2010 15:28	947240	10-1450-1	1	LANL	USE	S
per0212019a	245682003	CWW	2/12/2010 15:36	947240	10-1450-1	1	LANL	USE	S
per0212020a	WCLCCV	CWW	2/12/2010 15:44			1		USE	C
per0212021a	IPB004	CWW	2/12/2010 15:52			1		USE	B
per0212022a	WCLCRI	CWW	2/12/2010 16:00			1		USE	C
per0212023a	245682004	CWW	2/12/2010 16:08	947240	10-1450-1	1	LANL	USE	S
per0212024a	245682005	CWW	2/12/2010 16:16	947240	10-1450-1	1	LANL	USE	S
per0212025a	245682006	CWW	2/12/2010 16:24	947240	10-1450-1	1	LANL	USE	S
per0212026a	245682007	CWW	2/12/2010 16:32	947240	10-1450-1	1	LANL	USE	S
per0212027a	245682008	CWW	2/12/2010 16:40	947240	10-1450-1	1	LANL	USE	S
per0212028a	245682009	CWW	2/12/2010 16:49	947240	10-1450-1	1	LANL	USE	S
per0212029a	245682010	CWW	2/12/2010 16:57	947240	10-1450-1	1	LANL	USE	S

per0212030a	245806001	CWW	2/12/2010 17:05	947240	10-1474	1	LANL	USE	S
per0212031a	WCLCCV	CWW	2/12/2010 17:13			1		USE	C
per0212032a	IPB005	CWW	2/12/2010 17:21			1		USE	B
per0212033a	WCLCRI	CWW	2/12/2010 17:29			1		USE	C
per0212034a	245806002	CWW	2/12/2010 17:37	947240	10-1474	1	LANL	USE	S
per0212035a	245806003	CWW	2/12/2010 17:45	947240	10-1474	1	LANL	USE	S
per0212036a	245806004	CWW	2/12/2010 17:53	947240	10-1474	1	LANL	USE	S
per0212037a	245806005	CWW	2/12/2010 18:01	947240	10-1474	1	LANL	USE	S
per0212038a	245806006	CWW	2/12/2010 18:09	947240	10-1474	1	LANL	USE	S
per0212039a	245806007	CWW	2/12/2010 18:17	947240	10-1474	1	LANL	USE	S
per0212040a	245806008	CWW	2/12/2010 18:25	947240	10-1474	1	LANL	USE	S
per0212041a	WCLCCV	CWW	2/12/2010 18:33			1		USE	C
per0212042a	IPB006	CWW	2/12/2010 18:41			1		USE	B
per0212043a	WCLCRI	CWW	2/12/2010 18:49			1		USE	C

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

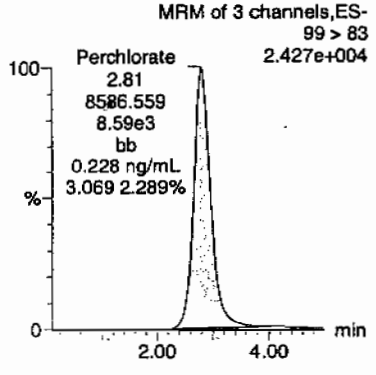
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212017a
Date: 12-Feb-2010
Time: 15:20:29
ID: 1202029069
Vial: 1:3,F

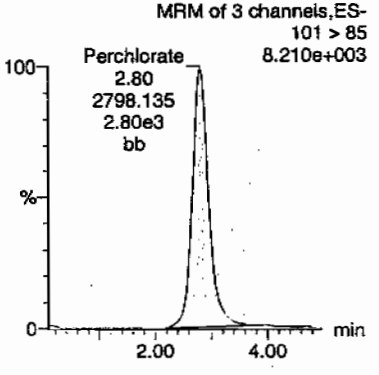
|LANL|94240|SO20|MS|1|

02-13-10

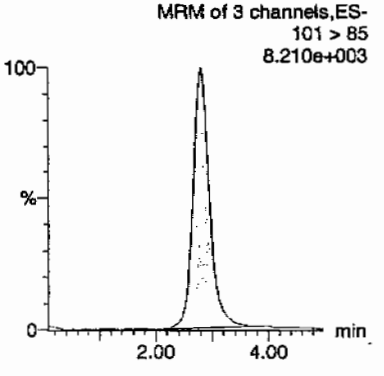
Perchlorate



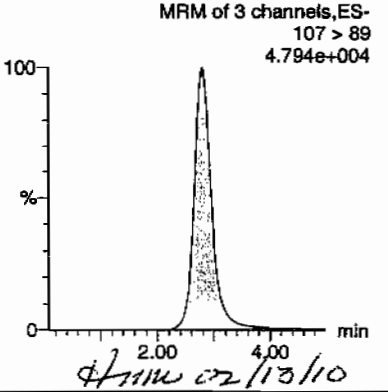
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMW 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202029069	Perchlorate	99 > 83	2.81	8586.559	8586.559	bb			0.2283	114.16	14.16	1712.0...	3.07
1202029069	Perchlorate-101	101 > 85	2.80	2798.135	2798.135	bb			0.2294	114.70	14.70	559.261	
1202029069	Perchlorate-O(18)	107 > 89	2.80	17012.309	17012.309	bb			0.5385	107.70	7.70	1805.2...	

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021210a.qld

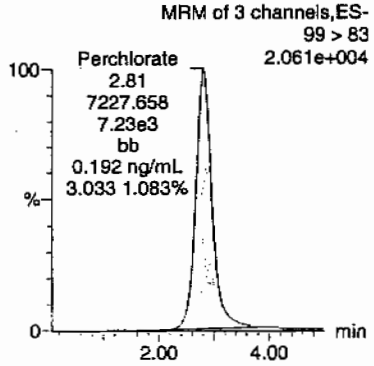
Last Altered: Saturday, February 13, 2010 10:56:08 AM Eastern Standard Time
Printed: Saturday, February 13, 2010 11:00:28 AM Eastern Standard Time

Name: per0212018a
Date: 12-Feb-2010
Time: 15:28:30
ID: 1202029070
Vial: 1:4,A

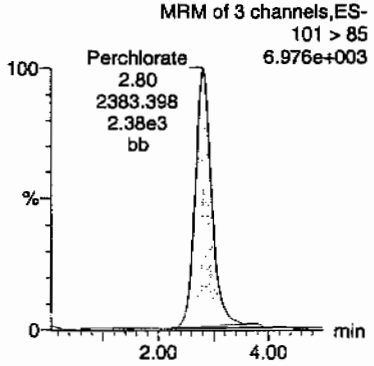
|LANL|947240|50120|MSD|1|

CWJ
02-13-10

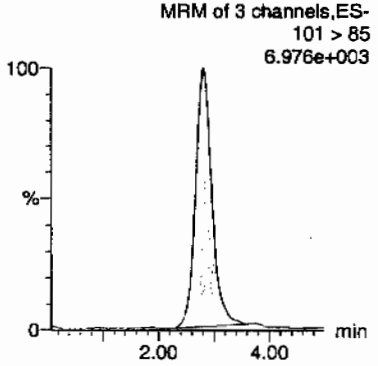
Perchlorate



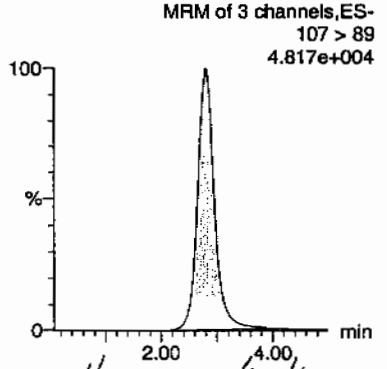
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMW 02/13/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202029070	Perchlorate	99 > 83	2.81	7227.658	7227.658	bb			0.1922	96.09	-3.91	577.933	3.03
1202029070	Perchlorate-101	101 > 85	2.80	2383.398	2383.398	bb			0.1954	97.70	-2.30	1002.9...	
1202029070	Perchlorate-O(18)	107 > 89	2.80	16912.295	16912.295	bb			0.5354	107.07	7.07	1264.1...	

$$\frac{7227.658}{37608.1} \Big| \frac{10}{} \Big| \frac{100}{83.8} = 2.29$$

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

Isotope Ratio Criteria

Isotope Ratio $_{35}Cl/_{37}CL$

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 10-1474-1

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:	947199
Prep Batch Number:	947198

Sample Analysis

Sample ID	Client ID
245807001	RE15-10-8081
245807002	RE15-10-8082
1202028966	Interference Check Sample (ICS)
1202028960	Method Blank (MB)
1202028961	Laboratory Control Sample (LCS)
1202028962	245614001(RE46-10-11838) Matrix Spike (MS)
1202028963	245614001(RE46-10-11838) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

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

Calibration Information

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

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

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

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

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 245614001 (RE46-10-11838) from SDG 10-1417-1 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement
The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Retention Time Standard Area Acceptance
The retention time standard areas were within the required acceptance criteria for all samples and QC.

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

Technical Information

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

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Sample 245807001 (RE15-10-8081) was re-analyzed to confirm the potential of carryover from the previous sample. The re-analysis is reported.

Miscellaneous Information

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

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

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

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

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

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

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Deborah K Maier **Date:** 02/06/10

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: 947198

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.
RE15-10-8081

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474-1

GEL Sample ID: 245807001

Date Filtered: 30-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	01-FEB-10 16:22	per0201014a
	Perchlorate Isotope Ratio						1	01-FEB-10 16:22	per0201014a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	01-FEB-10 16:22	per0201014a
	Perchlorate-O(18)			0.477	ug/L		1	01-FEB-10 16:22	per0201014a

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

*Concentration =

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

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: 947198

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.
RE15-10-8082

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474-1

GEL Sample ID: 245807002

Date Filtered: 30-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	31-JAN-10 21:34	per0131074a
	Perchlorate Isotope Ratio						1	31-JAN-10 21:34	per0131074a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	31-JAN-10 21:34	per0131074a
	Perchlorate-O(18)			0.499	ug/L		1	31-JAN-10 21:34	per0131074a

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

*Concentration =

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

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10–1474–1

Extract Batch Code: 947198

Date Filtered: 30–JAN–10

Matrix: WATER

Sample ID: 1202028961

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.199	ug/L	99.4		85 – 115
Perchlorate Isotope Ratio		3.1				–
Perchlorate–101	0.200	.191	ug/L	95.3		85 – 115
Perchlorate–O(18)		.455	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.

Form 5a

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1474-1

Extract Batch Code: 947198

Date Filtered: 30-JAN-10

Matrix: SURFACE WATE

Sample ID: 1202028966

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.2	ug/L	100		70 – 130
Perchlorate Isotope Ratio		3.04				
Perchlorate-101	0.200	.196	ug/L	98		70 – 130
Perchlorate-O(18)		.475	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\per013110a.qld

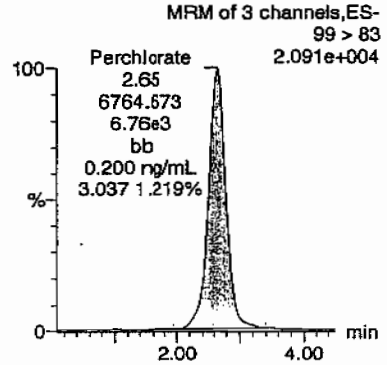
Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131048a
Date: 31-Jan-2010
Time: 18:17:55
ID: 1202028966
Vial: 2:1,C

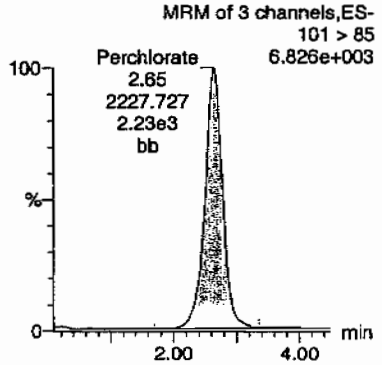
|LANL|947199|LIQ|ICS|1|

WW
02-01-10

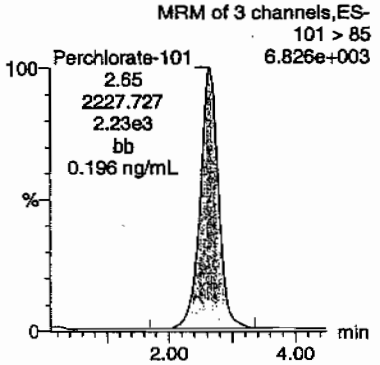
Perchlorate



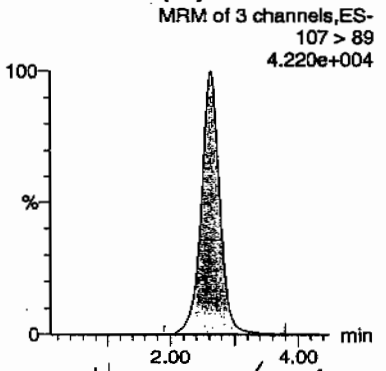
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmc 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202028966	Perchlorate	99 > 83	2.65	6764.673	6764.673	bb			0.2000	100.01	0.01	722.076	3.04
1202028966	Perchlorate-101	101 > 85	2.65	2227.727	2227.727	bb			0.1960	97.99	-2.01	600.092	
1202028966	Perchlorate-O(18)	107 > 89	2.64	13812.098	13812.098	bb			0.4749	94.98	-5.02	4165.3...	

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

Form 6

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10–1474–1

Extract Batch Code: 947198

Date Extracted: 30–JAN–10

GEL MS/PS ID: 1202028962

Client ID: RE46–10–11838

GEL MSD/PSD ID: 1202028963

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	0.00266	ug/L	0.204	101	.196	96.5	4.16	30	75 – 125
Perchlorate Isotope Ratio	0	0.00		3.07		2.95		0		–
Perchlorate–101	0.200	0.00	ug/L	0.198	98.9	.198	98.8	.103	30	75 – 125
Perchlorate–O(18)	0	0.438	ug/L	0.475		.484		1.83		–

^ 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

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1474-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	31-JAN-10	per0131001a	IPB001
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131001a	IPB001
Perchlorate	0.00	0	NA	31-JAN-10	per0131002a	IPB001
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131002a	IPB001
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: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

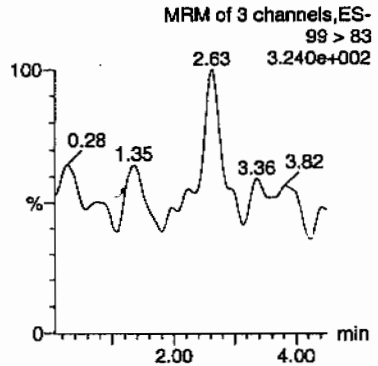
Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per013110a.mdb 01 Feb 2010 10:44:50
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per013110a.cdb 01 Feb 2010 10:45:05

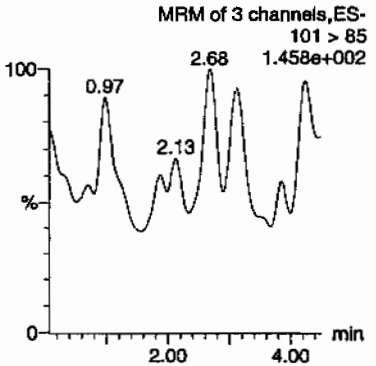
Name: per0131001a
Date: 31-Jan-2010
Time: 12:23:18
ID: IPB001
Vial: 1:1,A

02-01-10

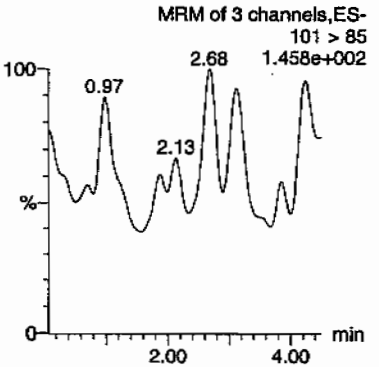
Perchlorate



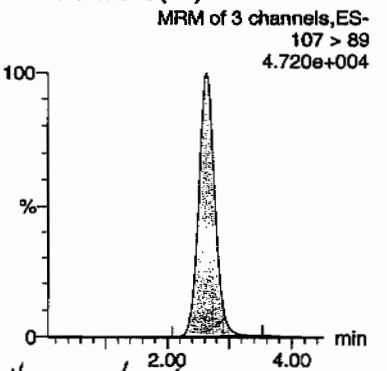
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmc 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.64	14142.885	14142.885	bb			0.4863	97.26	-2.74	1262.8...	

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

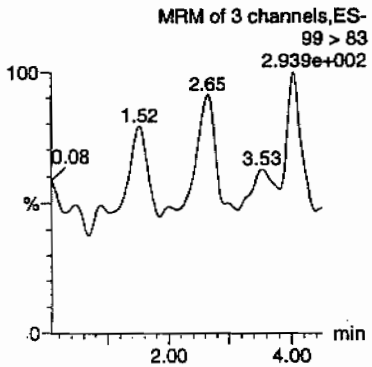
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

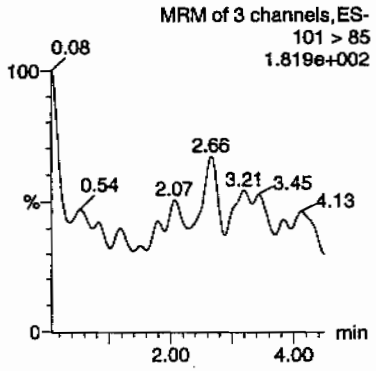
Name: per0131002a
Date: 31-Jan-2010
Time: 12:30:50
ID: IPB001
Vial: 1:1,A

aw
02-01-10

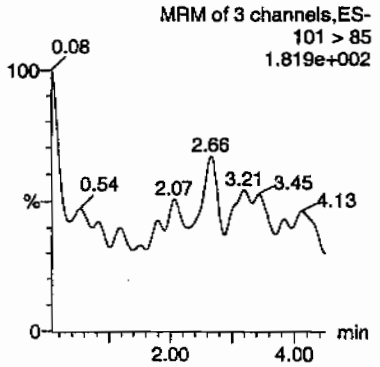
Perchlorate



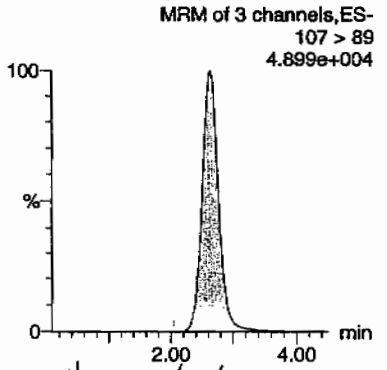
Perchlorate



Perchlorate-101



Perchlorate-O(18)



thw 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.64	14670.820	14670.820	bb			0.5044	100.89	0.89	7699.2...	

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

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

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

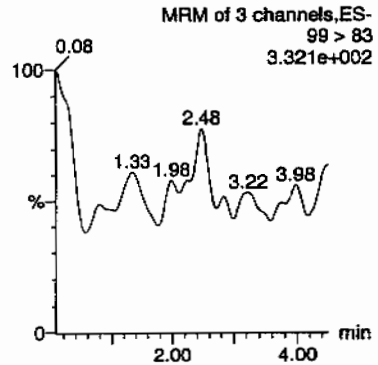
Last Altered: Tuesday, February 02, 2010 2:28:24 PM Eastern Standard Time
Printed: Tuesday, February 02, 2010 2:30:40 PM Eastern Standard Time

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

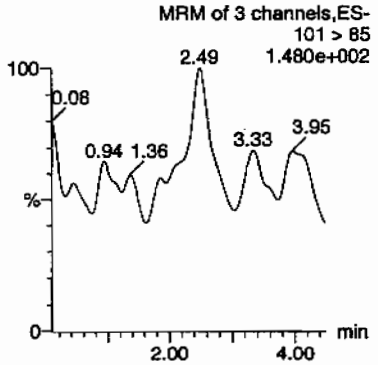
Name: per0201001a
Date: 01-Feb-2010
Time: 14:44:45
ID: IPB001
Vial: 1:1,A

cwl
02-02-10

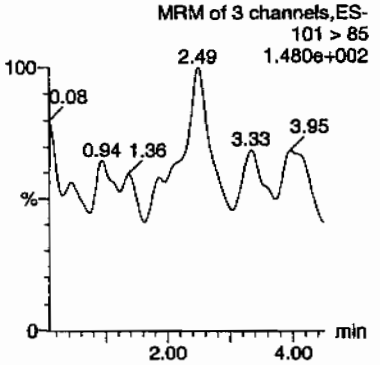
Perchlorate



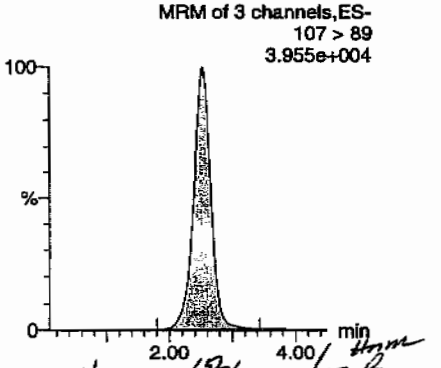
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.53	12548.574	12548.574	bb			0.5028	100.56	0.56	1850.4...	

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

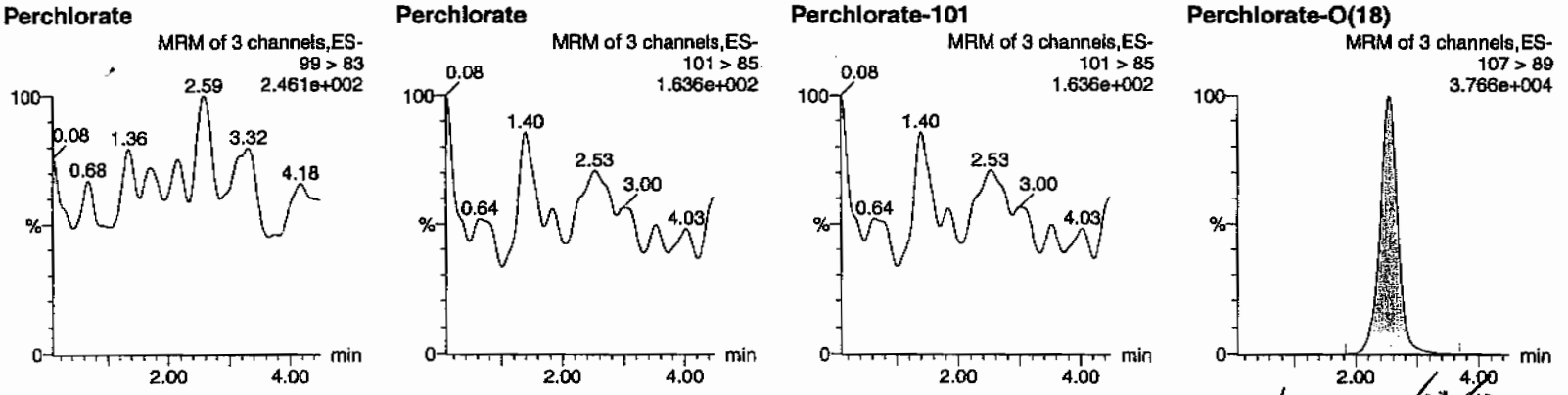
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\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

02-02-10



dzine 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	2.54	12279.958	12279.958	bb			0.4920	98.41	-1.59	1440.2...	

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

Form 4

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1474-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	31-JAN-10	per0131008a	IPB002
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131008a	IPB002
Perchlorate	0.00	0	NA	31-JAN-10	per0131010a	IPB003
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131010a	IPB003
Perchlorate	0.00	0	NA	31-JAN-10	per0131022a	IPB004
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131022a	IPB004
Perchlorate	0.00	0	NA	31-JAN-10	per0131033a	IPB005
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131033a	IPB005
Perchlorate	0.00	0	NA	31-JAN-10	per0131044a	IPB006
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131044a	IPB006
Perchlorate	0.00	0	NA	31-JAN-10	per0131055a	IPB007
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131055a	IPB007
Perchlorate	0.00	0	NA	31-JAN-10	per0131066a	IPB008

Form 4

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1474-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131066a	IPB008
Perchlorate	0.00	0	NA	31-JAN-10	per0131075a	IPB009
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131075a	IPB009
Perchlorate	0.00	0	NA	31-JAN-10	per0131078a	IPB010
Perchlorate-101	0.00	0	NA	31-JAN-10	per0131078a	IPB010
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

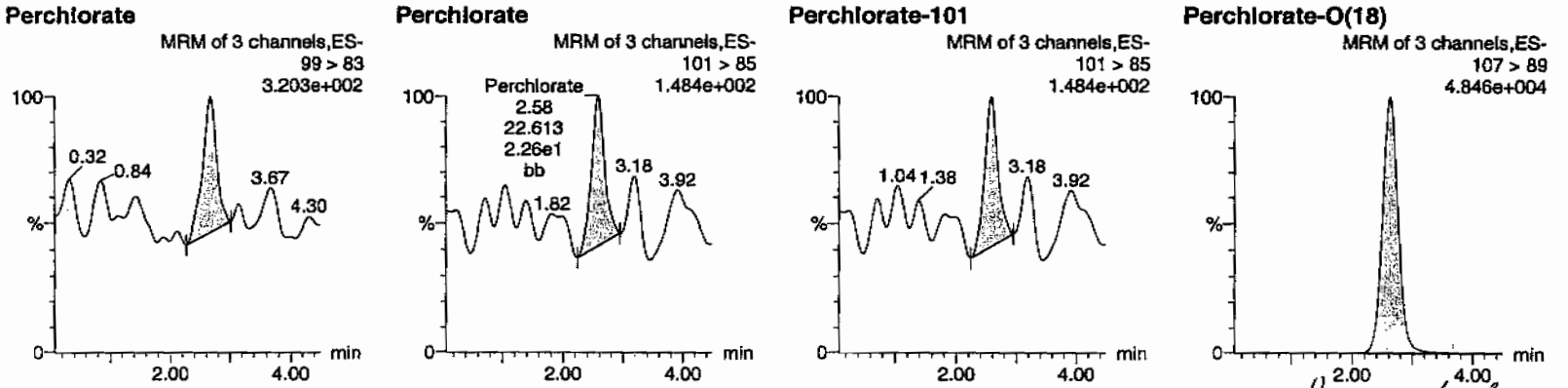
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131008a
Date: 31-Jan-2010
Time: 13:15:57
ID: IPB002
Vial: 1:1,A

CWW
02-01-10



Hrm a/o/zlio

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83	2.66	48.090	48.090	bb			0.0014			8.037	2.13
IPB002	Perchlorate-101	101 > 85	2.58	22.613	22.613	bb			0.0020			5.380	
IPB002	Perchlorate-O(18)	107 > 89	2.63	14490.285	14490.285	bb			0.4982	99.65	-0.35	1594.1...	

okay
CWW

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

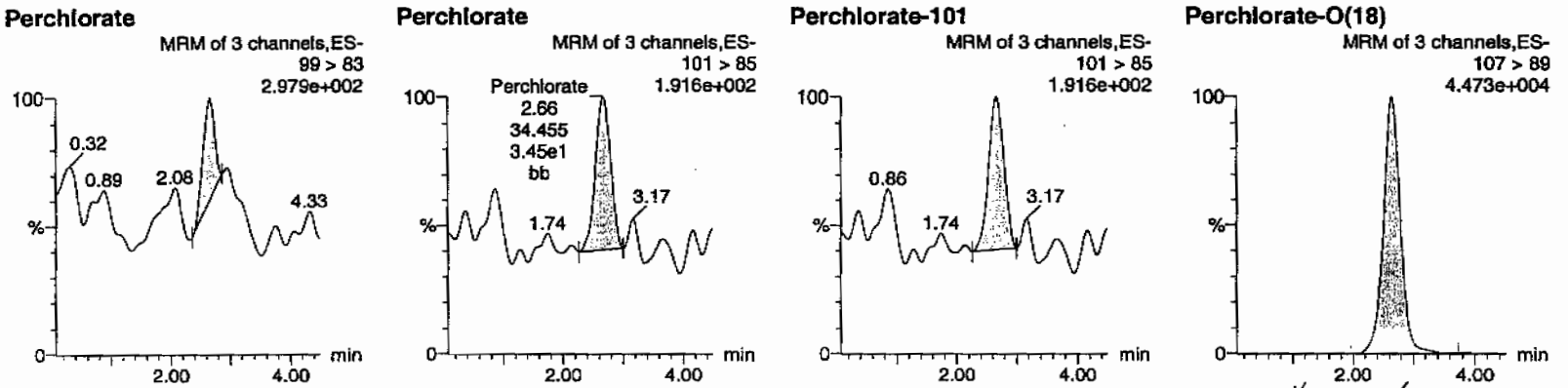
Quantify Sample Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131010a
Date: 31-Jan-2010
Time: 13:31:01
ID: IPB003
Vial: 1:1,A

02-01-10



dhm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83	2.66	27.957	27.957	bb			0.0008			6.487	0.81
IPB003	Perchlorate-101	101 > 85	2.66	34.455	34.455	bb			0.0030			10.133	
IPB003	Perchlorate-O(18)	107 > 89	2.65	14485.047	14485.047	bb			0.4981	99.61	-0.39	3915.2...	

0.0008 LO 0.0500

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

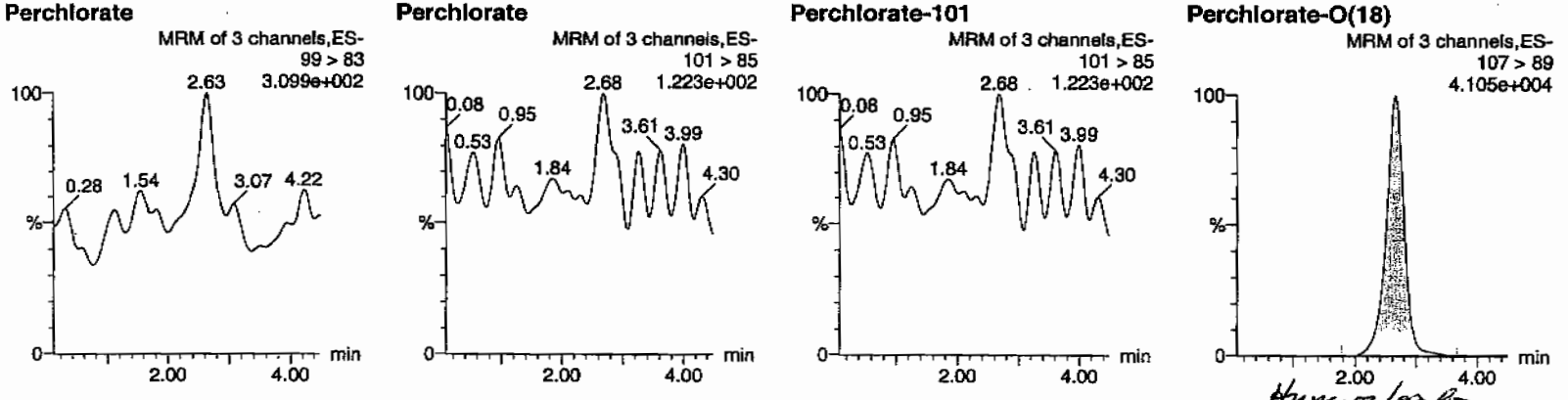
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131022a
Date: 31-Jan-2010
Time: 15:01:35
ID: IPB004
Vial: 1:1,A

Chw
02-01-10



Hum 02/02/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83											0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	2.65	13877.979	13877.979	bb			0.4772	95.44	-4.56	576.575	

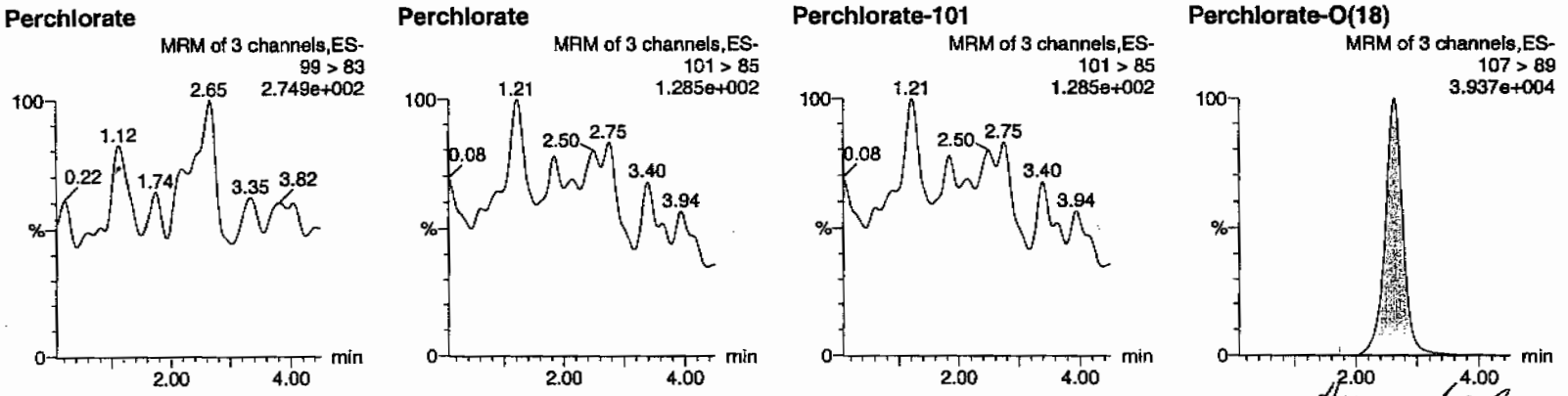
Quantify Sample Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131033a
Date: 31-Jan-2010
Time: 16:24:34
ID: IPB005
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
IPB005	Perchlorate	99 > 83											0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-O(18)	107 > 89	2.63	13136.926	13136.926	bb			0.4517	90.34	-9.66	4624.5...	

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

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

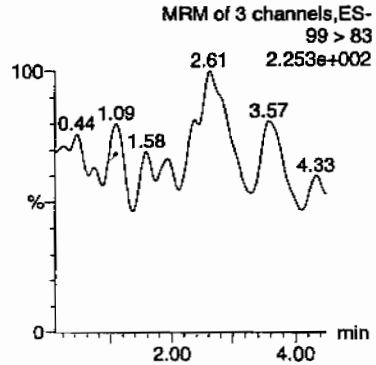
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

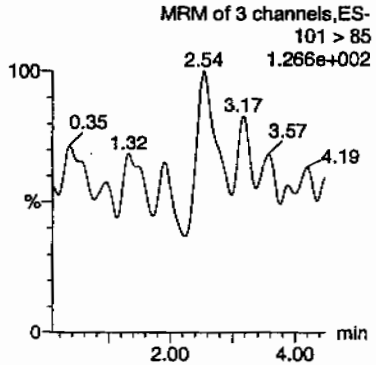
Name: per0131044a
Date: 31-Jan-2010
Time: 17:47:37
ID: IPB006
Vial: 1:1,A

02-01-10

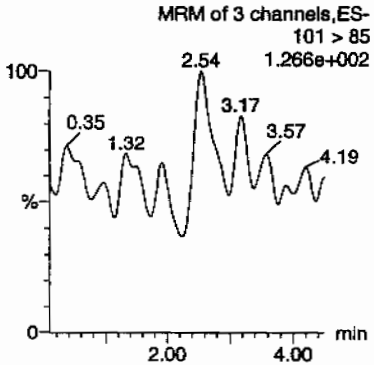
Perchlorate



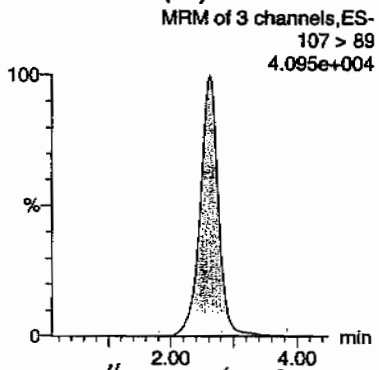
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm a/c/ap/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB006	Perchlorate	99 > 83											0.00
IPB006	Perchlorate-101	101 > 85											
IPB006	Perchlorate-O(18)	107 > 89	2.61	13693.361	13693.361	bb			0.4708	94.17	-5.83	3955.2...	

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

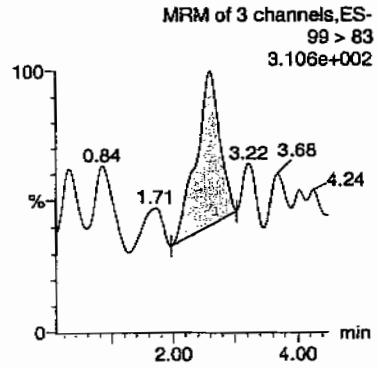
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

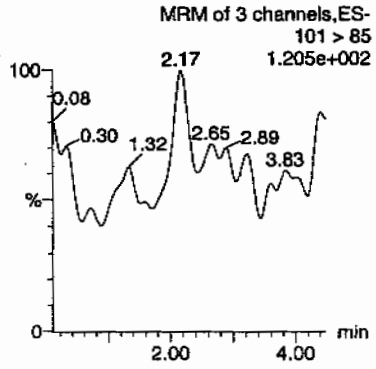
Name: per0131055a
Date: 31-Jan-2010
Time: 19:10:53
ID: IPB007
Vial: 1:1,A

GWO
02-01-10

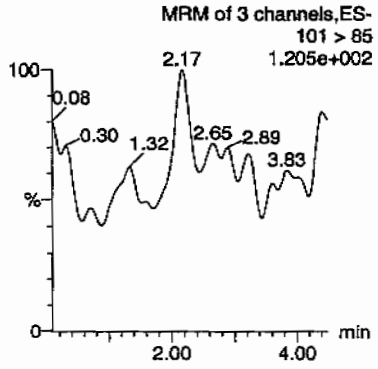
Perchlorate



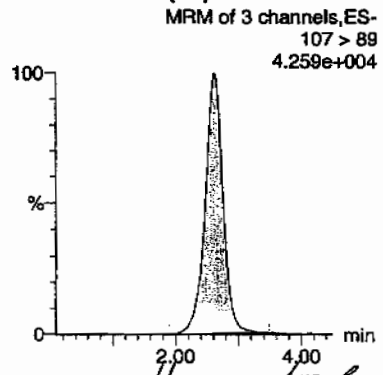
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83	2.59	81.753	81.753	bb			0.0024			4.141	0.00
IPB007	Perchlorate-101	101 > 85											
IPB007	Perchlorate-O(18)	107 > 89	2.61	13936.795	13936.795	bb			0.4792	95.84	-4.16	4415.2...	

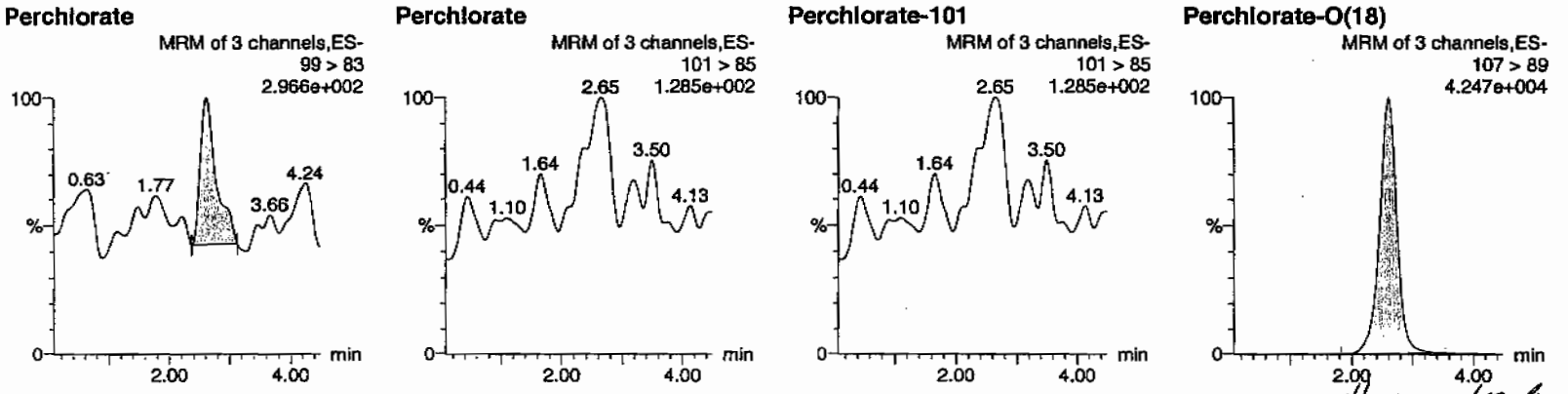
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131066a
Date: 31-Jan-2010
Time: 20:34:13
ID: IPB008
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
IPB008	Perchlorate	99 > 83	2.61	52.781	52.781	bb			0.0016			11.563	0.00
IPB008	Perchlorate-101	101 > 85											
IPB008	Perchlorate-O(18)	107 > 89	2.60	14030.887	14030.887	bb			0.4824	96.49	-3.51	3435.7...	

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

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

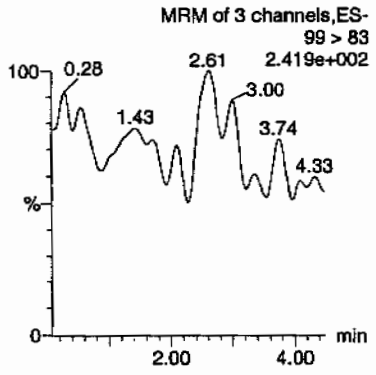
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

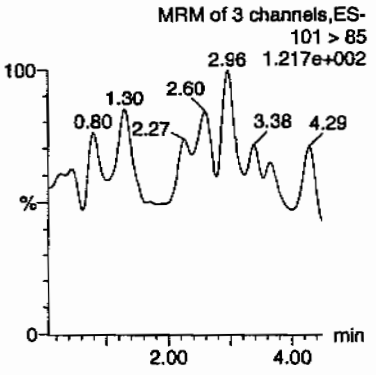
Name: per0131075a
Date: 31-Jan-2010
Time: 21:42:14
ID: IPB009
Vial: 1:1,A

CWW 02-01-10

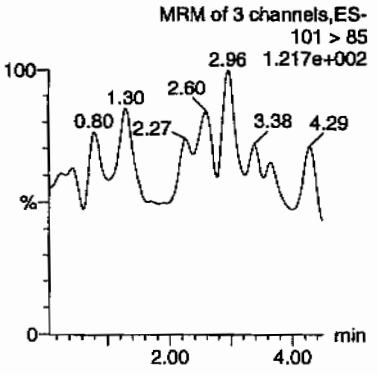
Perchlorate



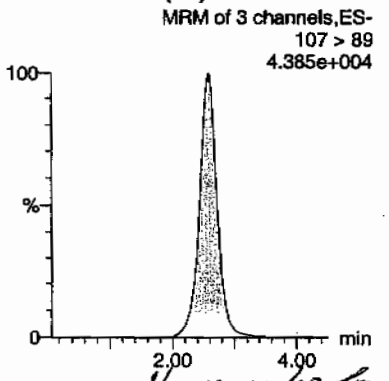
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hum 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB009	Perchlorate	99 > 83											0.00
IPB009	Perchlorate-101	101 > 85											
IPB009	Perchlorate-O(18)	107 > 89	2.59	14440.522	14440.522	bb			0.4965	99.31	-0.69	3410.0...	

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

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

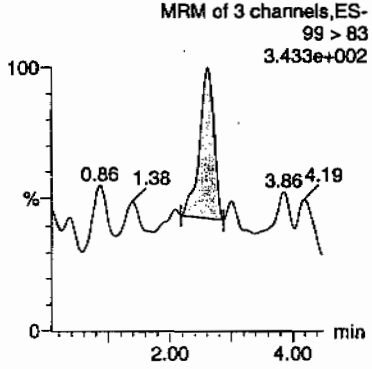
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

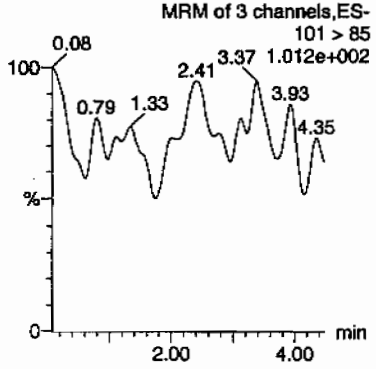
Name: per0131078a
Date: 31-Jan-2010
Time: 22:05:33
ID: IPB010
Vial: 1:1,A

CWW
02-01-10

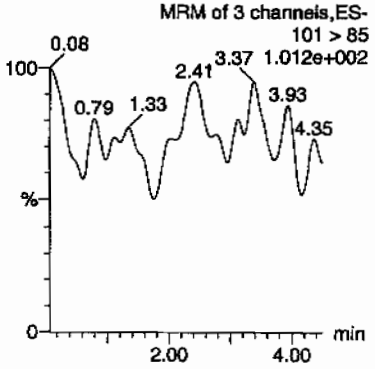
Perchlorate



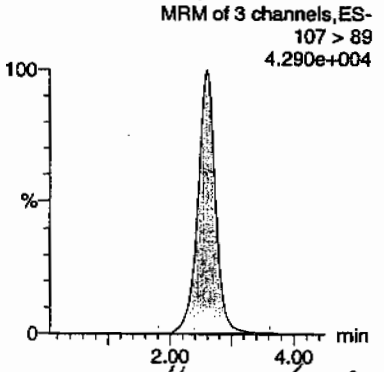
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/2/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB010	Perchlorate	99 > 83	2.61	54.315	54.315	bb			0.0016			12.130	0.00
IPB010	Perchlorate-101	101 > 85											
IPB010	Perchlorate-O(18)	107 > 89	2.60	14165.403	14165.403	bb			0.4871	97.41	-2.59	1328.2...	

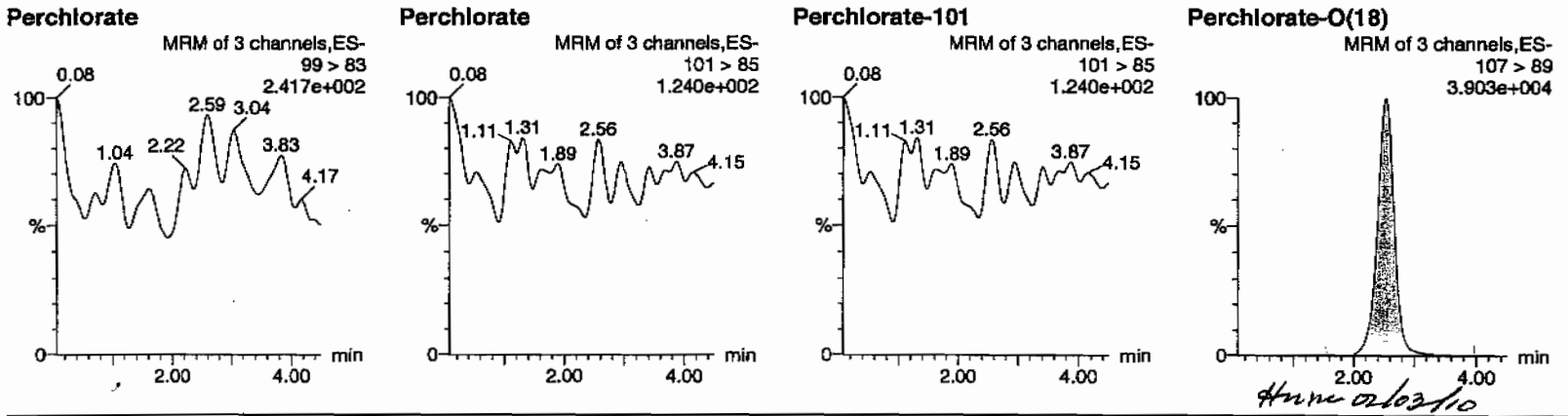
Quantify Sample Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

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



Anne 02/03/10

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

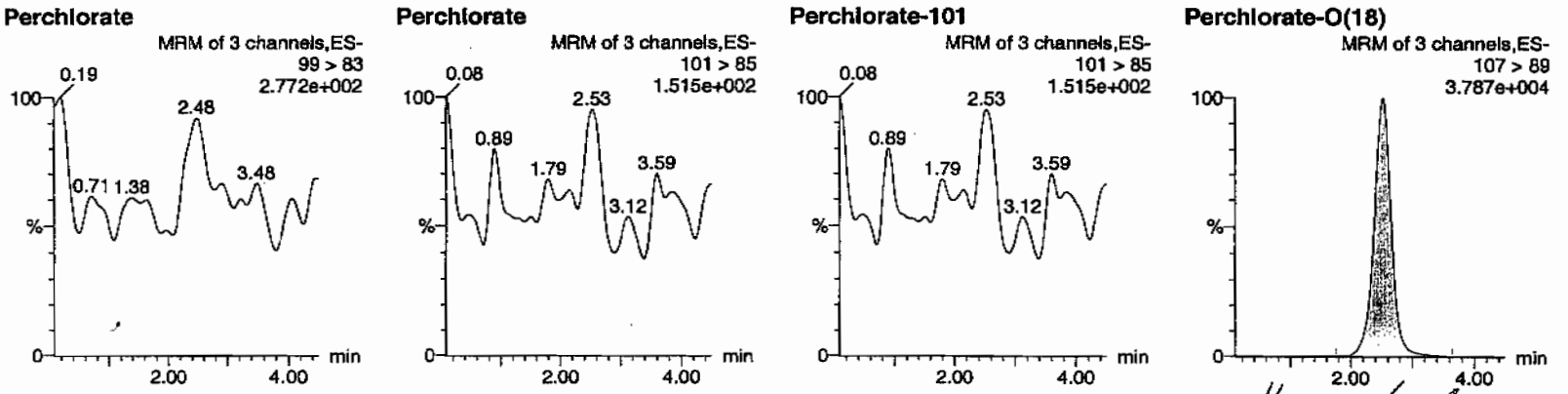
Quantify Sample Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

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

CWW
02-02-10



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83											0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	2.51	12216.218	12216.218	bb			0.4895	97.90	-2.10	3557.9...	

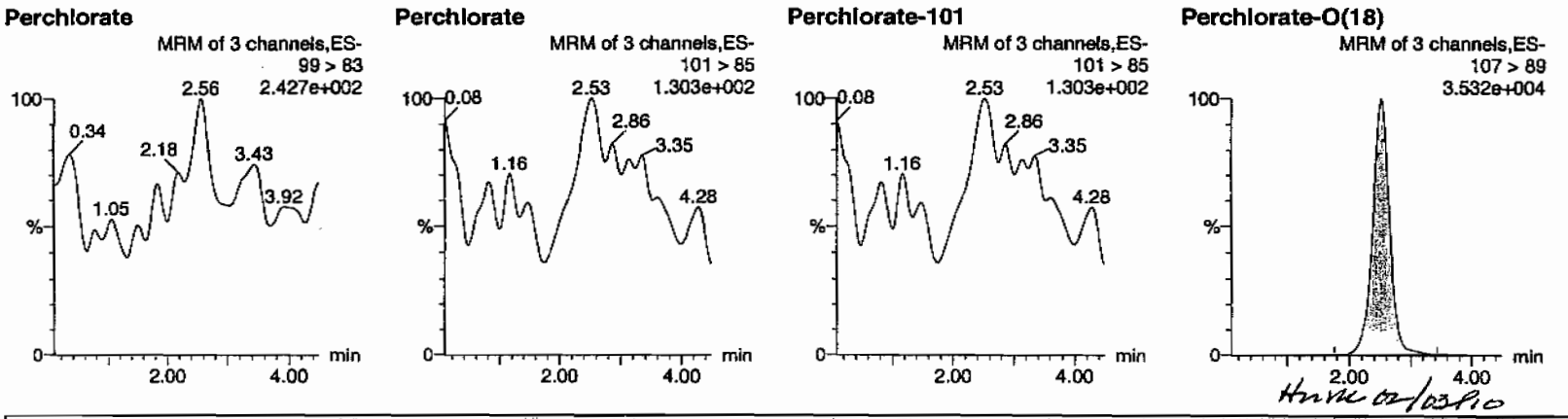
Quantify Sample Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

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

02-02-10



Hmk 02/03/10

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

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

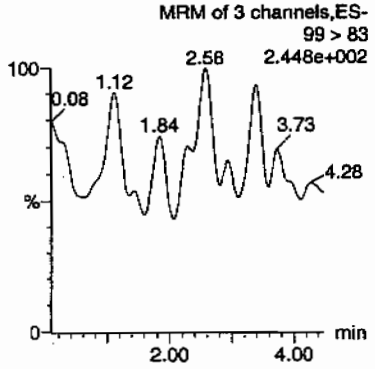
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

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

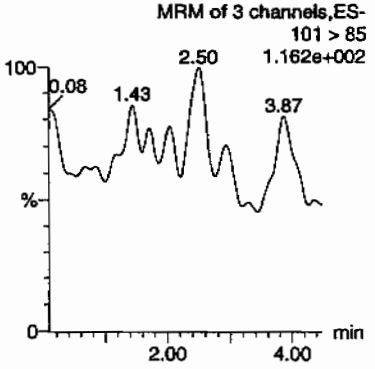
Name: per0201021a
Date: 01-Feb-2010
Time: 17:15:41
ID: IPB005
Vial: 1:1,A

02-02-10

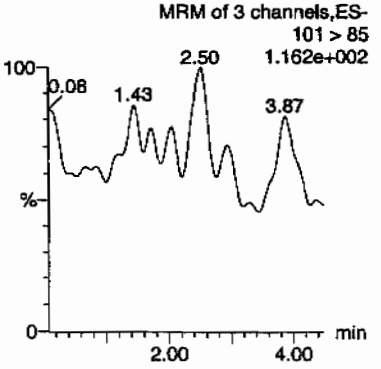
Perchlorate



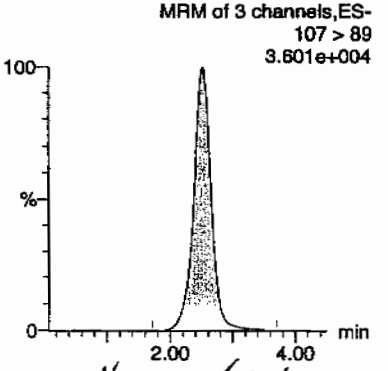
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83											0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-O(18)	107 > 89	2.51	11657.459	11657.459	bb			0.4671	93.42	-6.58	6561.5...	

Nairb.ref

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

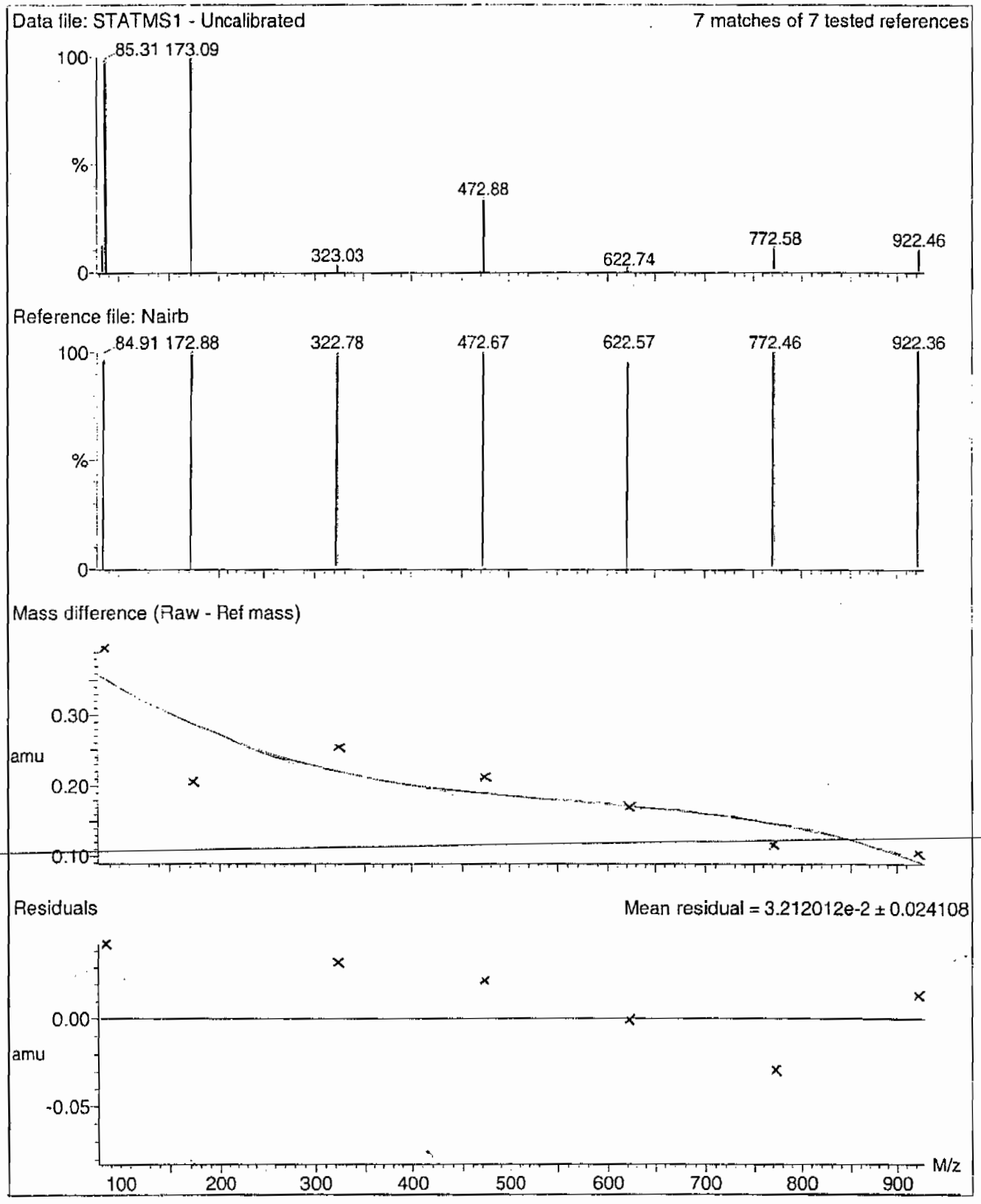
22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803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

QUATTRO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

Printed: Tue Jan 08 12:19:12 2008

PEAKS HIGHLIGHTED BY CWJ 01-09-08

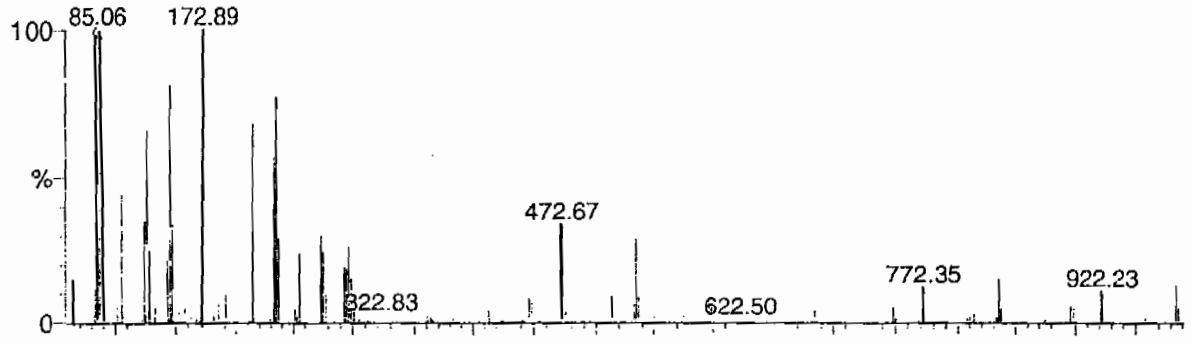


Calibration Report - MS1 Scanning

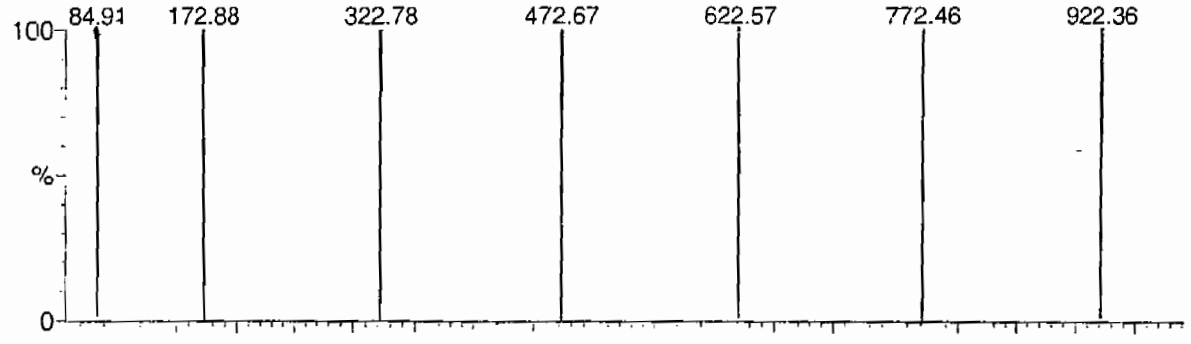
Printed: Tue Jan 08 12:20:09 2008

Data file: SCNMS1 - Uncalibrated

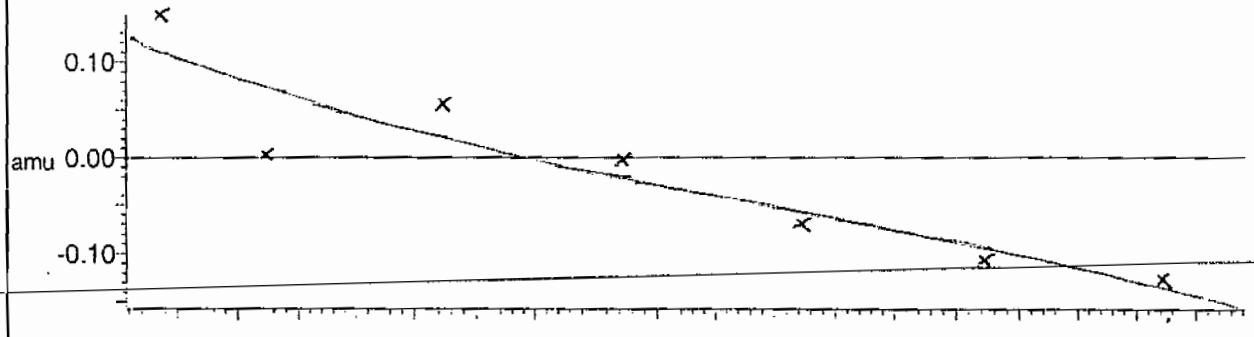
7 matches of 7 tested references



Reference file: Nairb

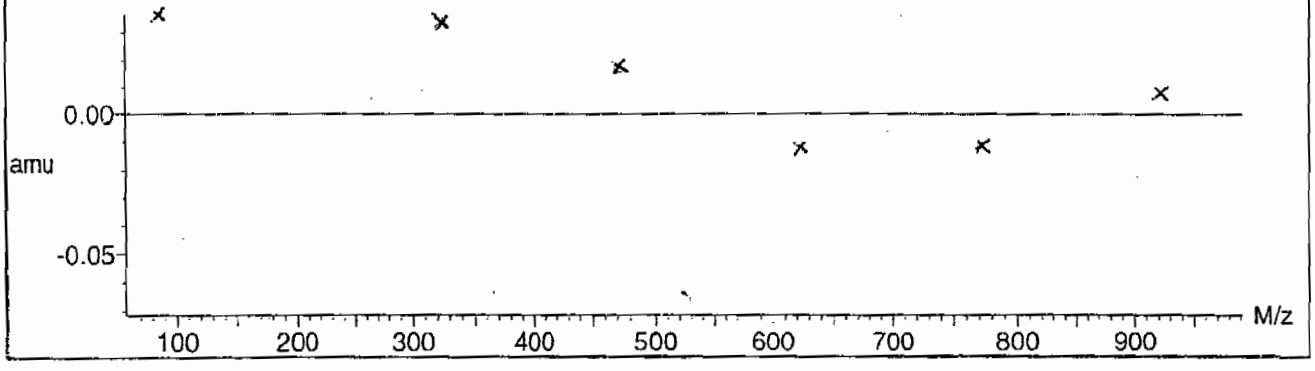


Mass difference (Raw - Ref mass)



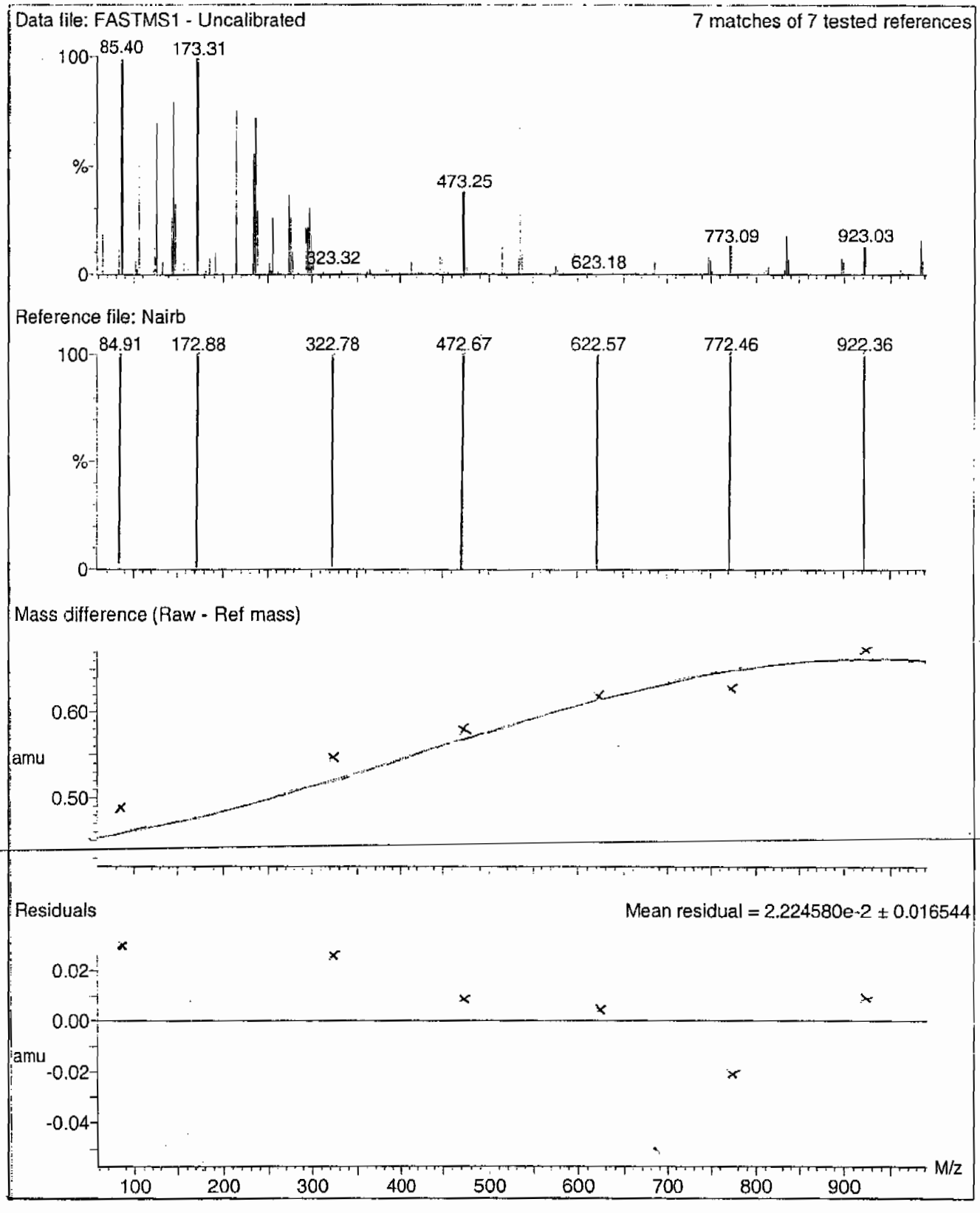
Residuals

Mean residual = 2.732691e-2 ± 0.020653



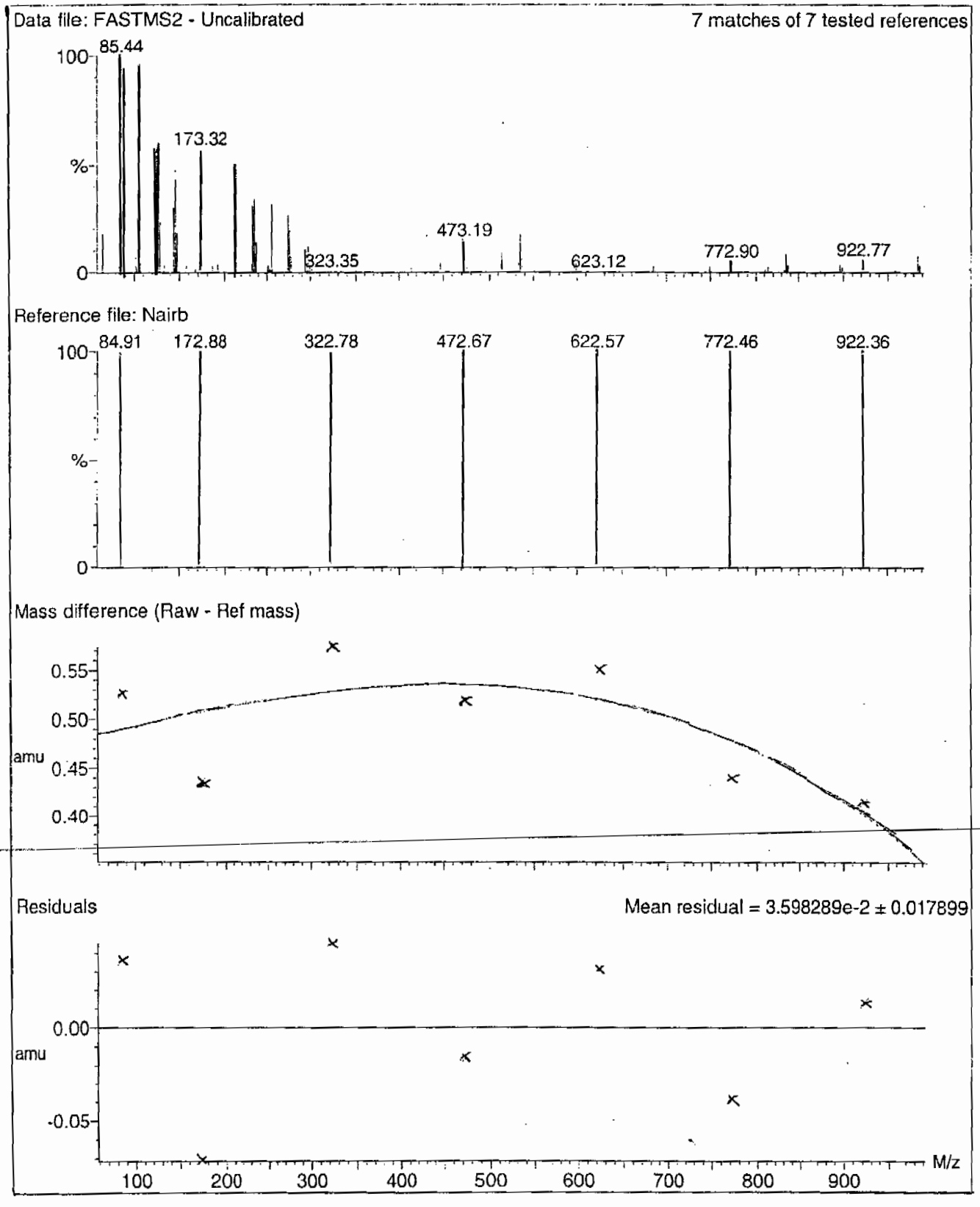
Calibration Report - MS1 Scan Speed Compensation

Printed: Tue Jan 08 12:21:04 2008



Calibration Report - MS2 Scan Speed Compensation

Printed: Tue Jan 08 12:23:51 2008

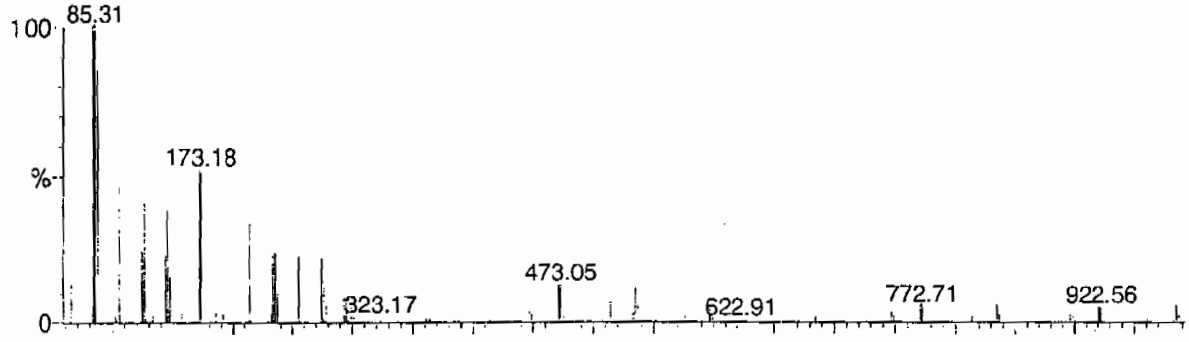


Calibration Report - MS2 Scanning

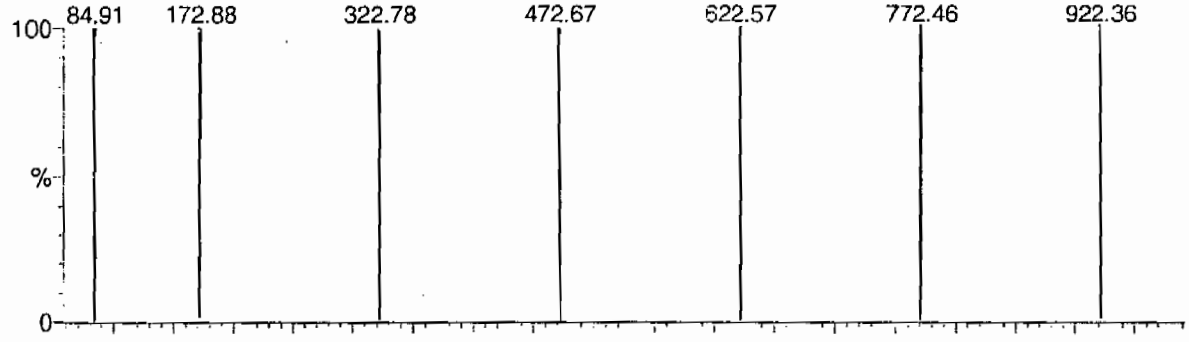
Printed: Tue Jan 08 12:22:56 2008

Data file: SCNMS2 - Uncalibrated

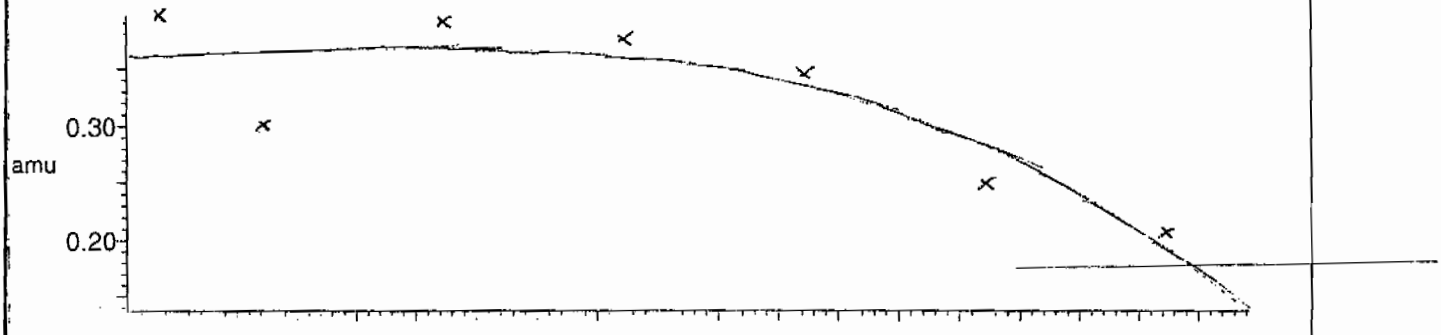
7 matches of 7 tested references



Reference file: Nairb

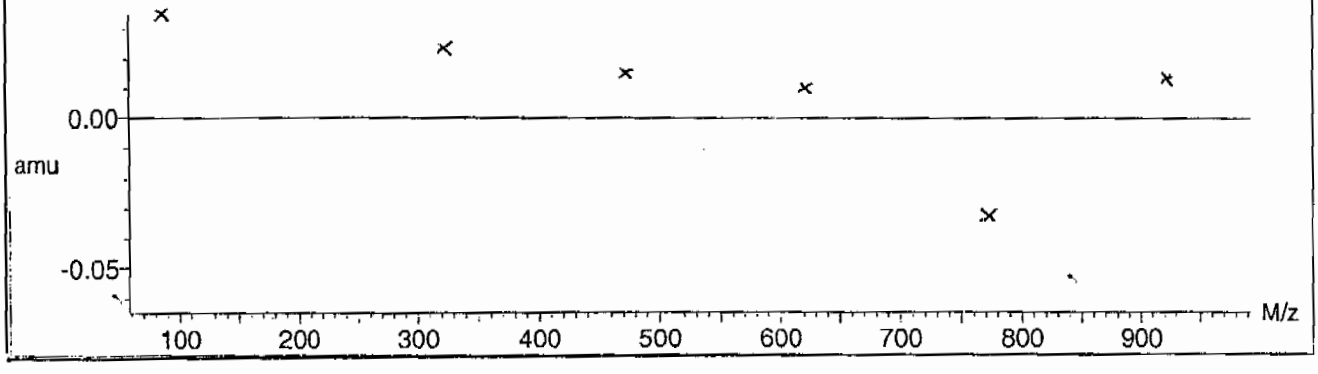


Mass difference (Raw - Ref mass)



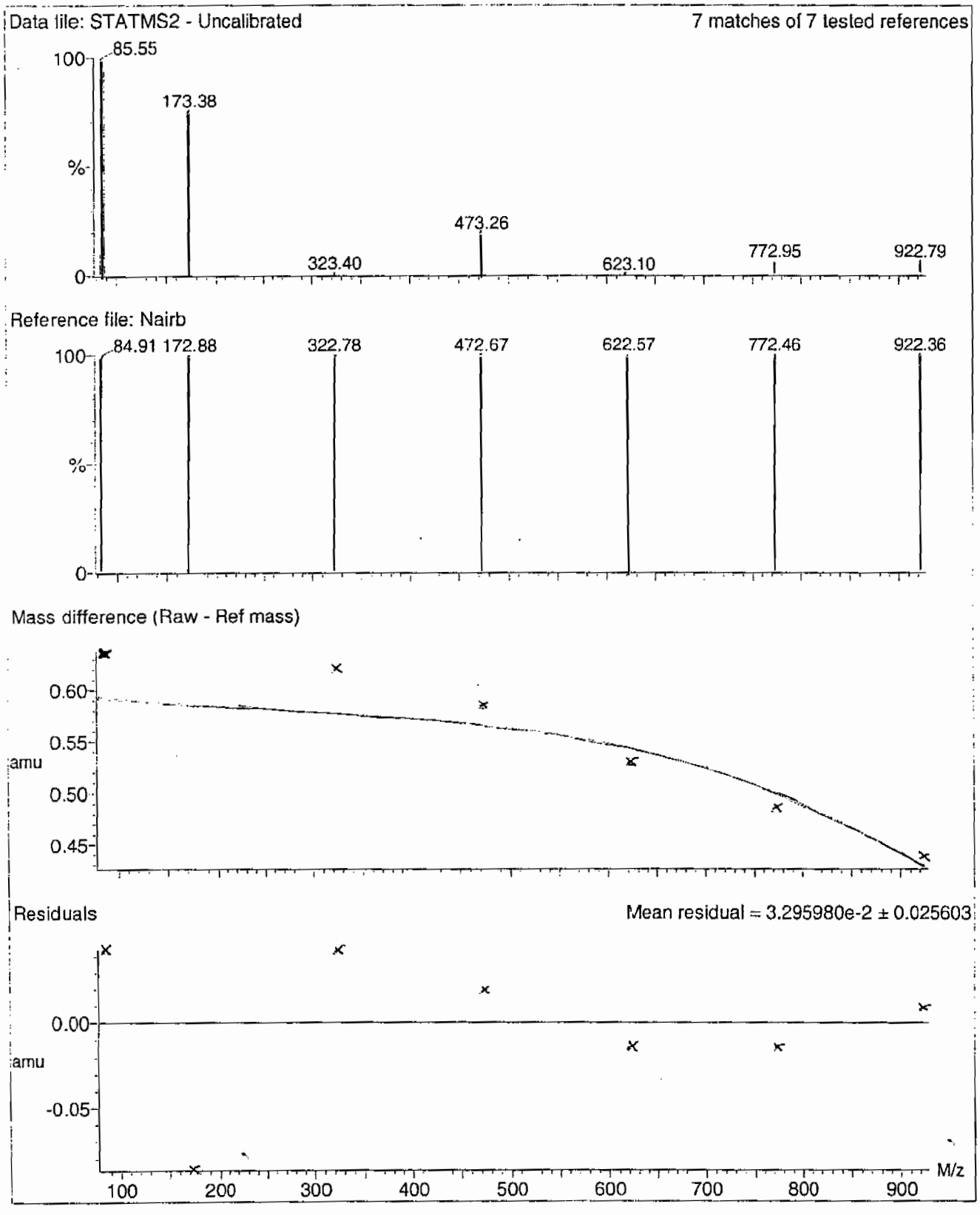
Residuals

Mean residual = 2.782494e-2 ± 0.017442



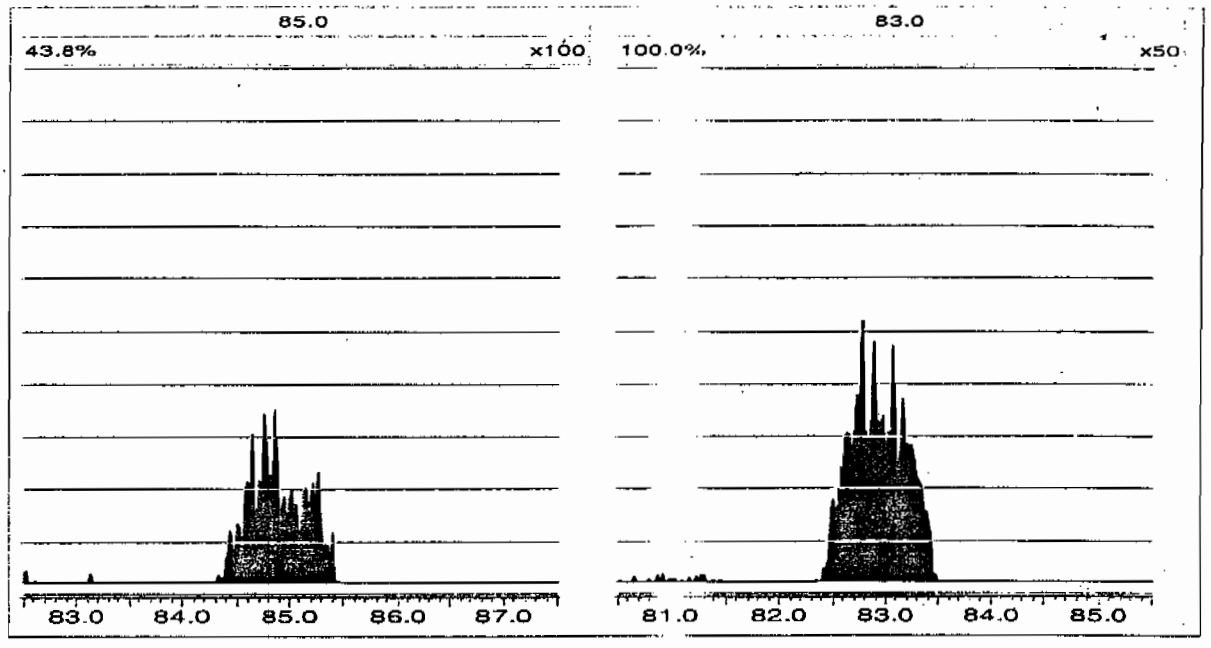
Calibration Report - MS2 Static

Printed: Tue Jan 08 12:21:59 2008



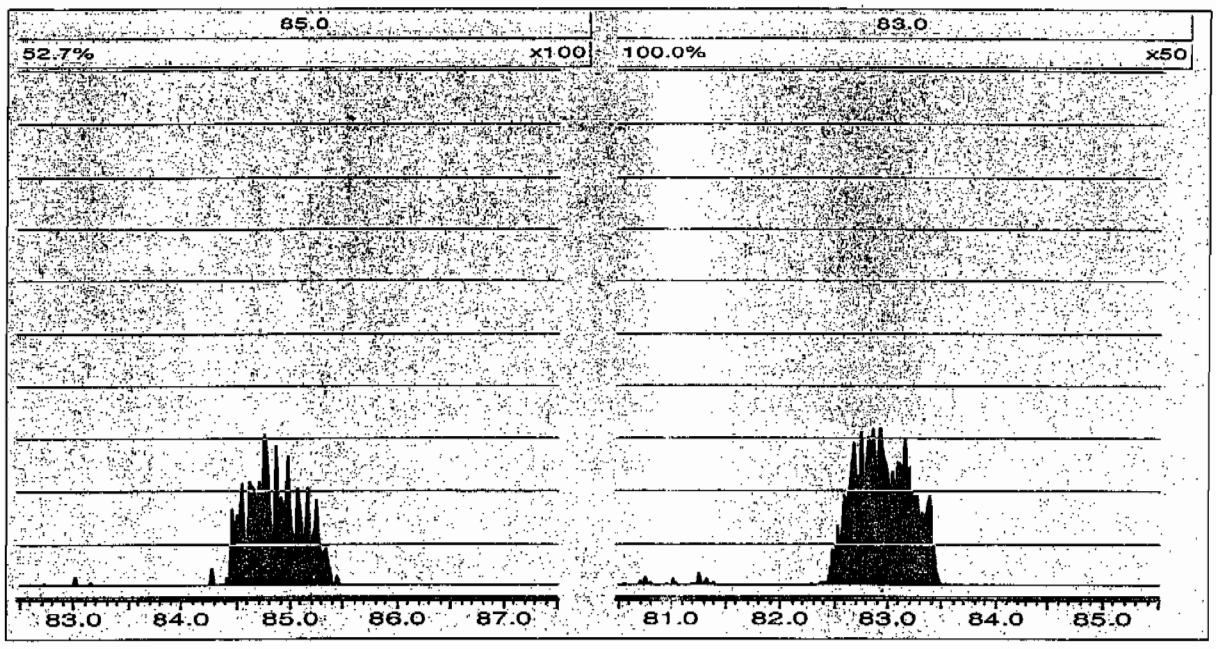
File: C:\MassLynx\Perchlorate.PRO\ACQUDB\Perchlorate.IPR

Printed: Sunday, January 31, 2010 11:10:18 Eastern Standard Time



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

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



Form 8

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10–1474–1

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98–1.02
MidLevel Standard Area	**per0131006a**	**31–JAN–10**	**14758**				
Lower Area Limit			**7379**				
Upper Area Limit			**29516**				
1202028960	per0131046a	31–JAN–10 18:02	13448.4	2.63	2.65055	1.008	
1202028961	per0131047a	31–JAN–10 18:10	13238.3	2.61	2.62565	1.006	
1202028966	per0131048a	31–JAN–10 18:17	13812.1	2.64	2.65053	1.004	
245807002	per0131074a	31–JAN–10 21:34	14508.8	2.59			

Form 8

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10–1474–1

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98–1.02
MidLevel Standard Area	**per0201006a**	**01–FEB–10**	**12552.6**				
Lower Area Limit			**6276.3**				
Upper Area Limit			**25105.2**				
245807001	per0201014a	01–FEB–10 16:22	11903	2.53	2.50148	.989	

SAMPLE
DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 947198

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.
RE15-10-8081

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474-1

GEL Sample ID: 245807001

Date Filtered: 30-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	01-FEB-10 16:22	per0201014a
	Perchlorate Isotope Ratio						1	01-FEB-10 16:22	per0201014a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	01-FEB-10 16:22	per0201014a
	Perchlorate-O(18)			0.477	ug/L		1	01-FEB-10 16:22	per0201014a

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

*Concentration =

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

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

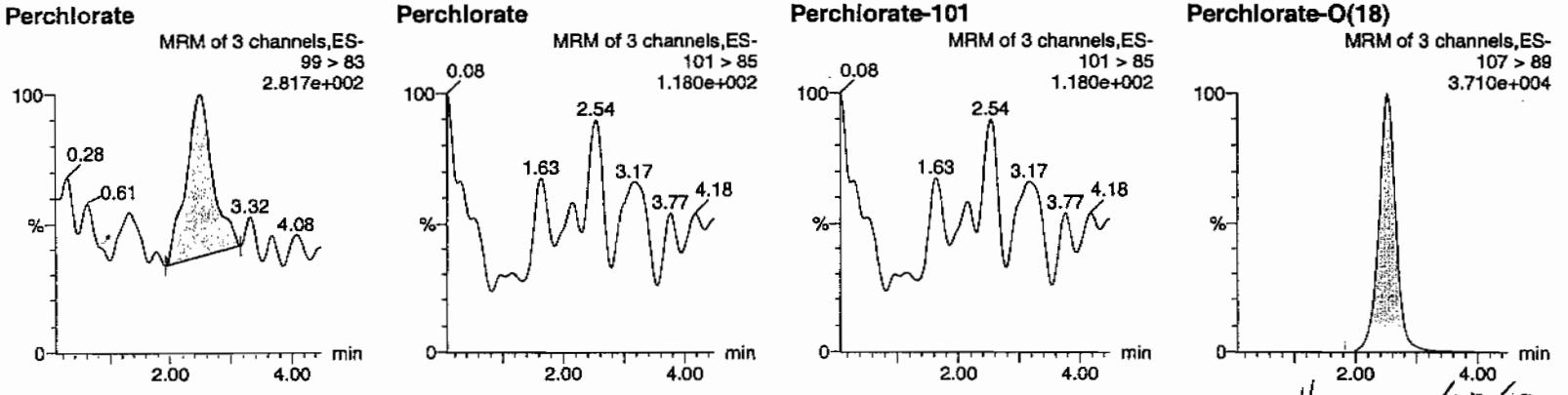
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

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: per0201014a
Date: 01-Feb-2010
Time: 16:22:54
ID: 245807001
Vial: 1:3,C

|LANL|947199|LZQ|1|RA

02-02-10



Hanne 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245807001	Perchlorate	99 > 83	2.50	91.731	91.731	bb			0.0031			11.261	0.00
245807001	Perchlorate-101	101 > 85											
245807001	Perchlorate-O(18)	107 > 89	2.53	11902.968	11902.968	bb			0.4769	95.39	-4.61	3277.1...	

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

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: 947198

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.
RE15-10-8082

Date Received: 29-JAN-10

GEL Job No (SDG): 10-1474-1

GEL Sample ID: 245807002

Date Filtered: 30-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	31-JAN-10 21:34	per0131074a
	Perchlorate Isotope Ratio						1	31-JAN-10 21:34	per0131074a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	31-JAN-10 21:34	per0131074a
	Perchlorate-O(18)			0.499	ug/L		1	31-JAN-10 21:34	per0131074a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

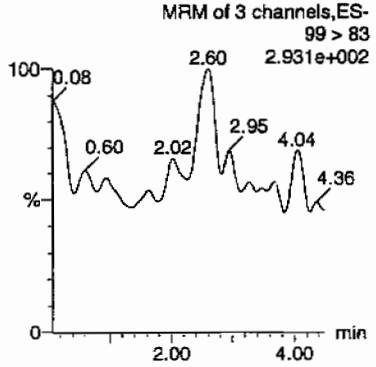
Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131074a
Date: 31-Jan-2010
Time: 21:34:42
ID: 245807002
Vial: 2:4,E

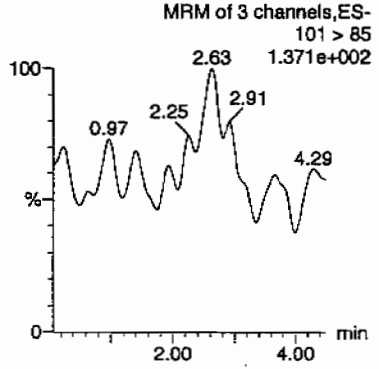
|LANL|947199|LZW|11|

GWJ
02-01-10

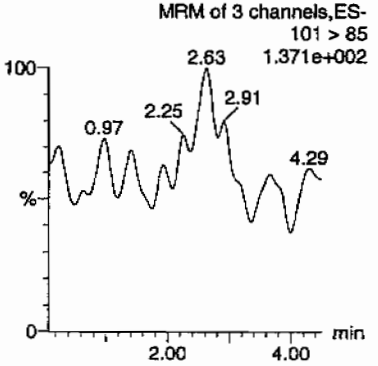
Perchlorate



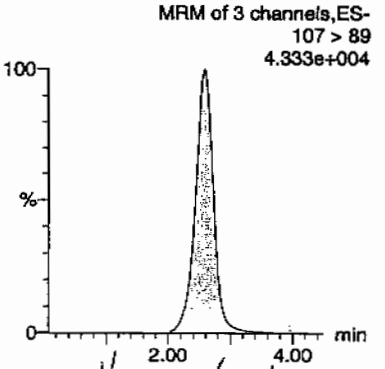
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMM 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245807002	Perchlorate	99 > 83											0.00
245807002	Perchlorate-101	101 > 85											
245807002	Perchlorate-O(18)	107 > 89	2.59	14508.780	14508.780	bb			0.4989	99.78	-0.22	1936.3...	

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

STANDARDS DATA

Form 2

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10-1474-1

Lab Code: GEL

Instrument ID: LCMSMS **Date Analyzed:** 31-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

Parmname Perchlorate

Coefficient of Determination:

Calibration Curve: 33819.9

Response Type: External Standard

Curve Type: RF

Form 2

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10-1474-1

Lab Code: GEL

Instrument ID: LCMSMS **Date Analyzed:** 31-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

Parmname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 11367

Response Type: External Standard

Curve Type: RF

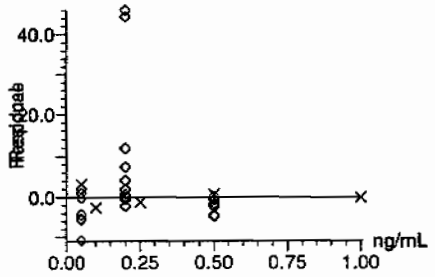
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

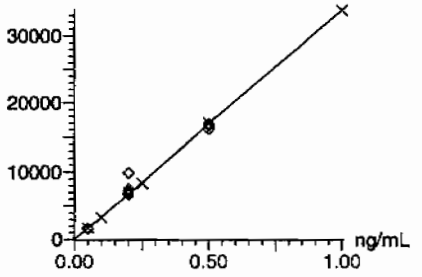
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

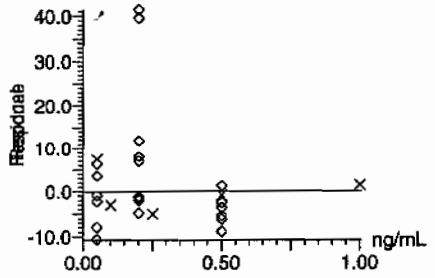
Method: C:\MassLynx\Perchlorate.PRO\MethDB\per013110a.mdb 01 Feb 2010 10:44:50
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per013110a.cdb 01 Feb 2010 10:45:05

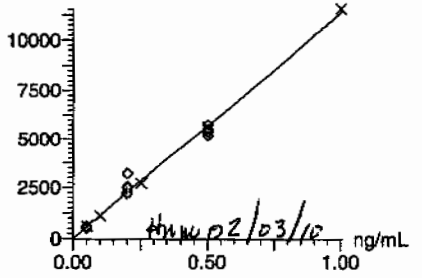
Compound name: Perchlorate
Response Factor: 33819.9
RRF SD: 737.507, % Relative SD: 2.18069
Response type: External Std, Area
Curve type: RF





Compound name: Perchlorate-101
Response Factor: 11367
RRF SD: 542.649, % Relative SD: 4.7739
Response type: External Std, Area
Curve type: RF





02-01-10

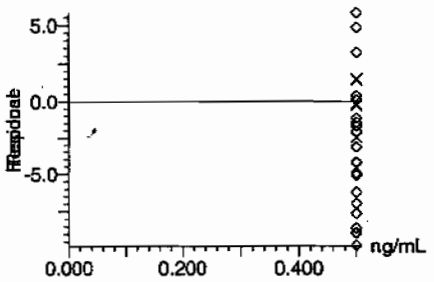
GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

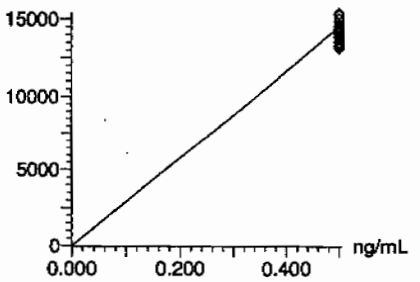
Quantify Calibration Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Compound name: Perchlorate-O(18)
Response Factor: 29083
RRF SD: 471.184, % Relative SD: 1.62014
Response type: External Std, Area
Curve type: RF





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

Form 2

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10-1474-1

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

Parmname Perchlorate

Coefficient of Determination:

Calibration Curve: 29509.02

Response Type: External Standard

Curve Type: RF

Form 2

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories **GEL Job No.(SDG):** 10-1474-1

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

Parmname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 9714.282

Response Type: External Standard

Curve Type: RF

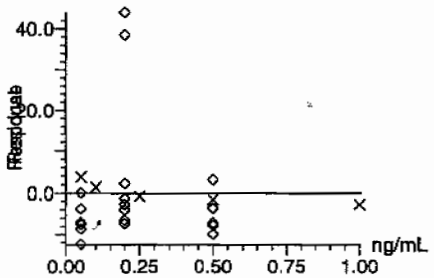
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

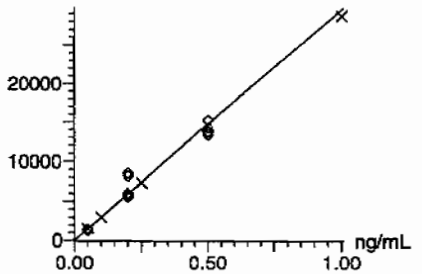
Dataset: C:\MassLynx\Perchlorate.PRO\per020110a.qld

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

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

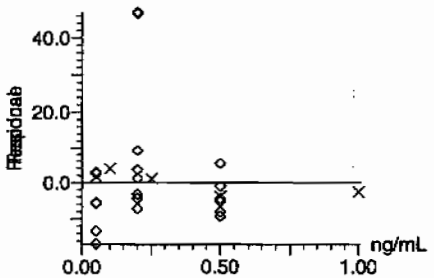
Compound name: Perchlorate
Response Factor: 29509
RRF SD: 760.836, % Relative SD: 2.57832
Response type: External Std, Area
Curve type: RF

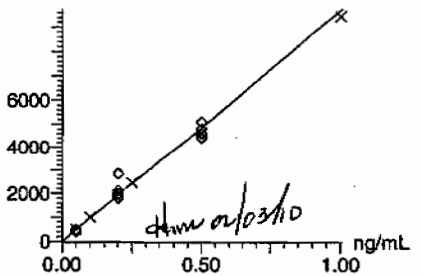




CWW
02-02-10

Compound name: Perchlorate-101
Response Factor: 9714.29
RRF SD: 312.663, % Relative SD: 3.21858
Response type: External Std, Area
Curve type: RF





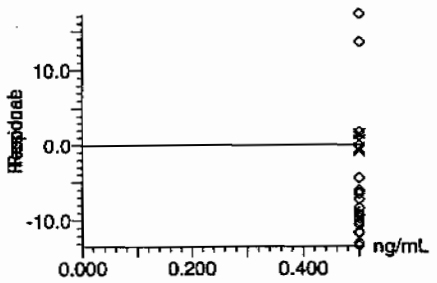
dmw 02/03/10

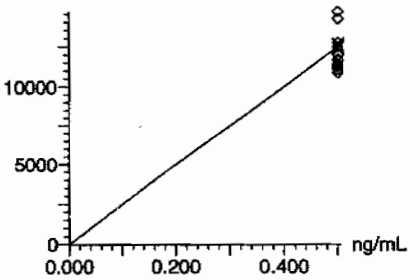
Quantify Calibration Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

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): 10–1474–1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.34	31–JAN–10 13:23	per0131009a
Perchlorate Isotope Ratio		2.89		31–JAN–10 13:23	per0131009a
Perchlorate–101	.5	.51	101.28	31–JAN–10 13:23	per0131009a
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

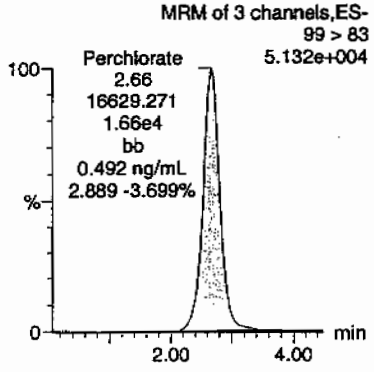
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

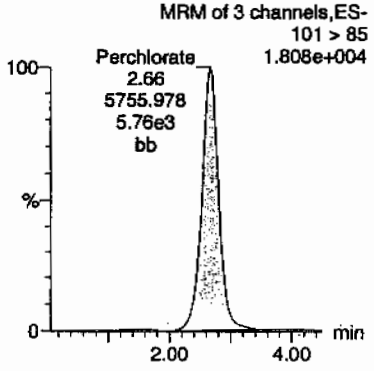
Name: per0131009a
Date: 31-Jan-2010
Time: 13:23:29
ID: WCL100128-06ICV
Vial: 1:2,A

Pass
aw
02-01-10

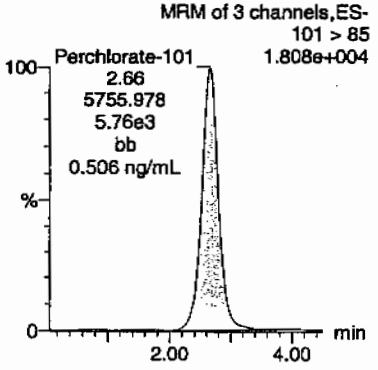
Perchlorate



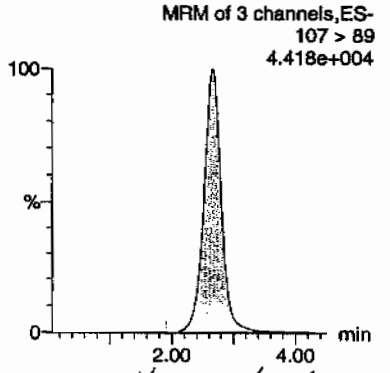
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMW 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06ICV	Perchlorate	99 > 83	2.66	16629.271	16629.271	bb			0.4917	98.34	-1.66	1435.3...	2.89
WCL100128-06ICV	Perchlorate-101	101 > 85	2.66	5755.978	5755.978	bb			0.5064	101.28	1.28	591.471	
WCL100128-06ICV	Perchlorate-O(18)	107 > 89	2.66	14373.936	14373.936	bb			0.4942	98.85	-1.15	3087.1...	

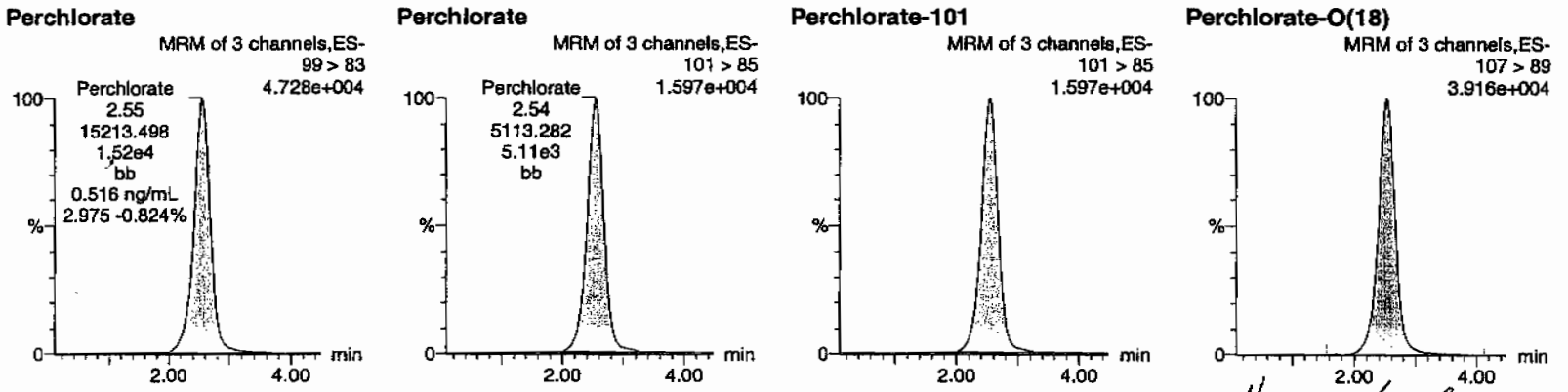
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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

Pwo
GWO
02-02-10

Name: per0201009a
Date: 01-Feb-2010
Time: 15:45:09
ID: WCL100128-06ICV
Vial: 1:2,A



Hmm a lot ho

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	

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

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474–1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.48	95.54	31–JAN–10 14:54	per0131021a
Perchlorate Isotope Ratio		2.92		31–JAN–10 14:54	per0131021a
Perchlorate–101	.5	.49	97.46	31–JAN–10 14:54	per0131021a
Perchlorate	.5	.48	95.21	31–JAN–10 16:17	per0131032a
Perchlorate Isotope Ratio		3.02		31–JAN–10 16:17	per0131032a
Perchlorate–101	.5	.47	93.93	31–JAN–10 16:17	per0131032a
Perchlorate	.5	.48	95.2	31–JAN–10 17:40	per0131043a
Perchlorate Isotope Ratio		2.94		31–JAN–10 17:40	per0131043a
Perchlorate–101	.5	.48	96.44	31–JAN–10 17:40	per0131043a
Perchlorate	.5	.5	99.25	31–JAN–10 19:03	per0131054a
Perchlorate Isotope Ratio		3.14		31–JAN–10 19:03	per0131054a
Perchlorate–101	.5	.47	93.9	31–JAN–10 19:03	per0131054a
Perchlorate	.5	.5	100.12	31–JAN–10 20:26	per0131065a

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474–1

Lab Code: GEL

Reporting Units: ug/L

Perchlorate Isotope Ratio		3.15		31–JAN–10 20:26	per0131065a
Perchlorate–101	.5	.47	94.61	31–JAN–10 20:26	per0131065a
Perchlorate	.5	.49	97.71	31–JAN–10 21:57	per0131077a
Perchlorate Isotope Ratio		3.19		31–JAN–10 21:57	per0131077a
Perchlorate–101	.5	.46	91.15	31–JAN–10 21:57	per0131077a
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

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

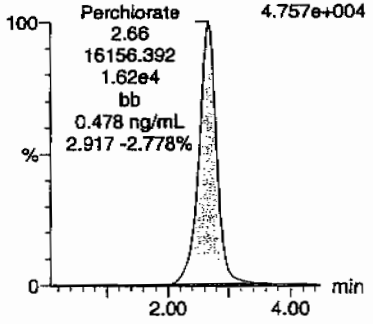
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

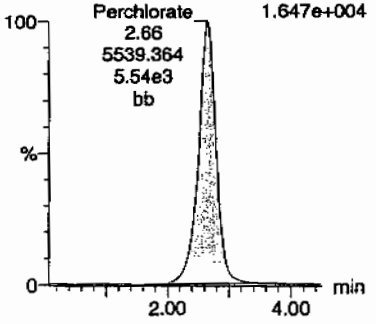
Name: per0131021a
Date: 31-Jan-2010
Time: 14:54:02
ID: WCL100128-06CCV
Vial: 1:2,A

Pass
aw
02-01-10

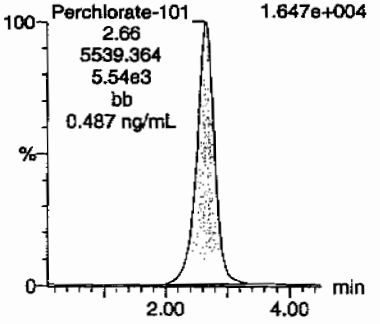
Perchlorate



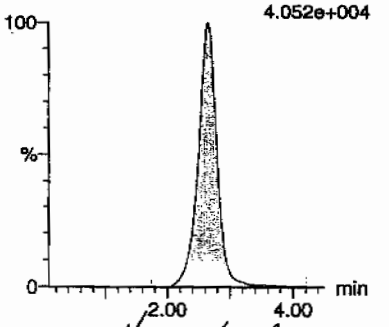
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMW 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.66	16156.392	16156.392	bb			0.4777	95.54	-4.46	559.772	2.92
WCL100128-06CCV	Perchlorate-101	101 > 85	2.66	5539.364	5539.364	bb			0.4873	97.46	-2.54	691.093	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.65	13809.432	13809.432	bb			0.4748	94.97	-5.03	2631.7...	

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

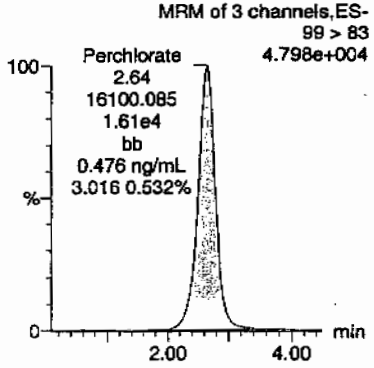
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

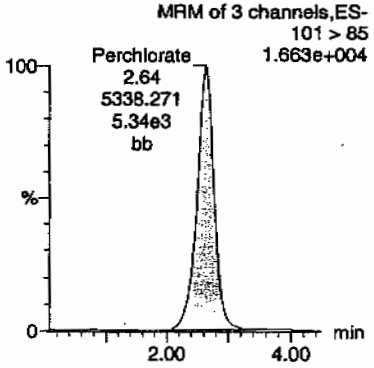
Name: per0131032a
Date: 31-Jan-2010
Time: 16:17:01
ID: WCL100128-06CCV
Vial: 1:2,A

Pass
02-01-10

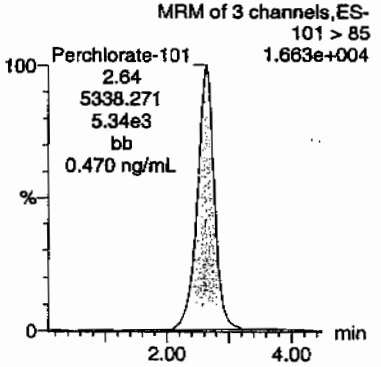
Perchlorate



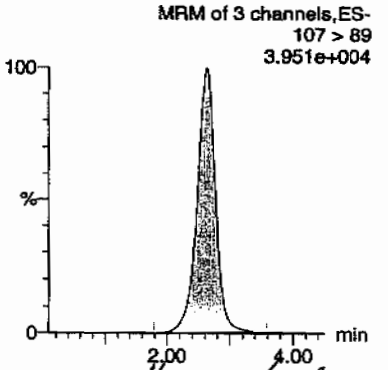
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.64	16100.085	16100.085	bb			0.4761	95.21	-4.79	1980.2...	3.02
WCL100128-06CCV	Perchlorate-101	101 > 85	2.64	5338.271	5338.271	bb			0.4696	93.93	-6.07	931.388	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.63	13123.846	13123.846	bb			0.4513	90.25	-9.75	686.121	

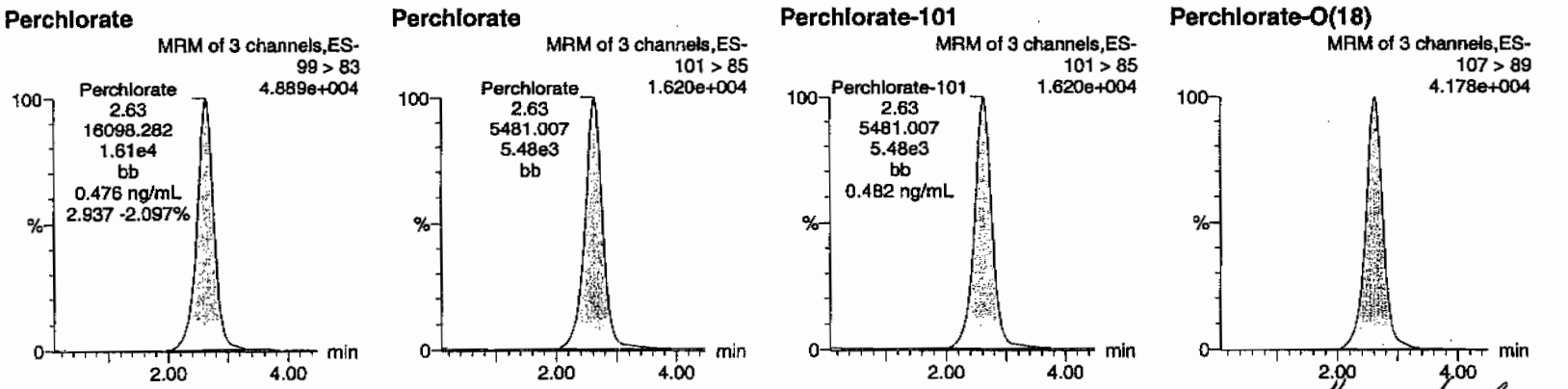
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131043a
Date: 31-Jan-2010
Time: 17:40:03
ID: WCL100128-06CCV
Vial: 1:2,A

Pass
02-01-10



Initial 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.63	16098.282	16098.282	bb			0.4760	95.20	-4.80	1056.1...	2.94
WCL100128-06CCV	Perchlorate-101	101 > 85	2.63	5481.007	5481.007	bb			0.4822	96.44	-3.56	523.363	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.61	13816.302	13816.302	bb			0.4751	95.01	-4.99	10733....	

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

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

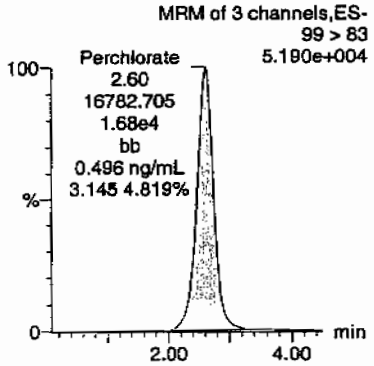
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

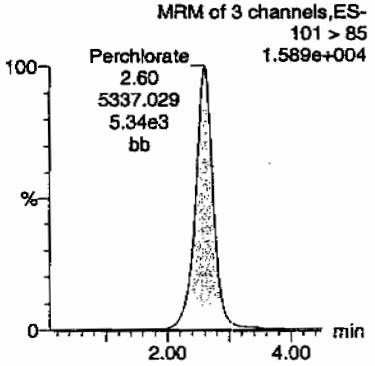
Name: per0131054a
Date: 31-Jan-2010
Time: 19:03:06
ID: WCL100128-06CCV
Vial: 1:2,A

Pass
02-01-10

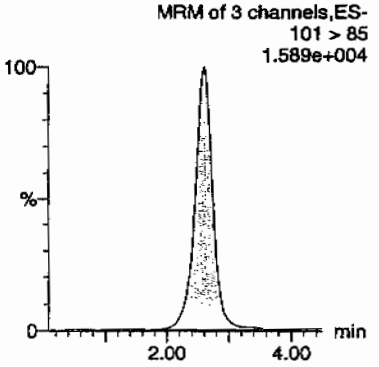
Perchlorate



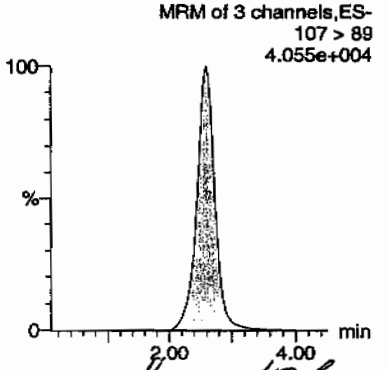
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmc 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	2.60	16782.705	16782.705	bb			0.4962	99.25	-0.75	363.629	3.14
WCL100128-06CCV	Perchlorate-101	101 > 85	2.60	5337.029	5337.029	bb			0.4695	93.90	-6.10	1594.0...	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.60	13526.200	13526.200	bb			0.4651	93.02	-6.98	3181.7...	

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

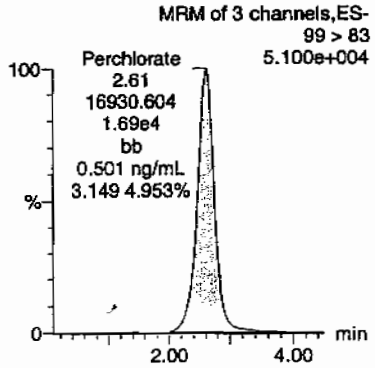
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

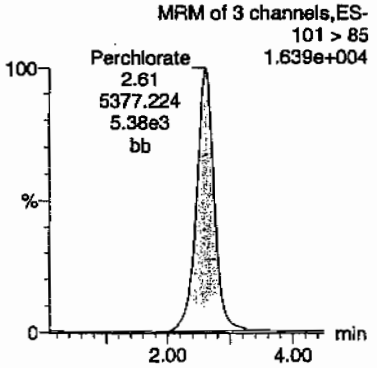
Name: per0131065a
Date: 31-Jan-2010
Time: 20:26:26
ID: WCL100128-06CCV
Vial: 1:2,A

Pass
aw
02-01-10

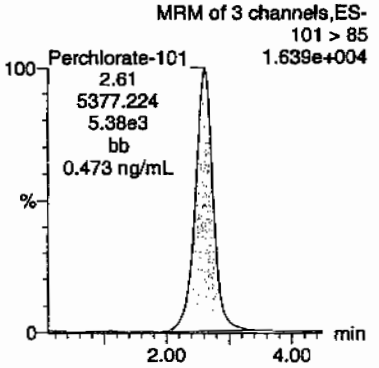
Perchlorate



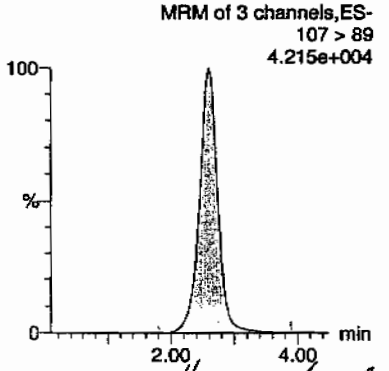
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.61	16930.604	16930.604	bb			0.5006	100.12	0.12	2310.5...	3.15
WCL100128-06CCV	Perchlorate-101	101 > 85	2.61	5377.224	5377.224	bb			0.4731	94.61	-5.39	916.330	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.60	13933.124	13933.124	bb			0.4791	95.82	-4.18	5137.3...	

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

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

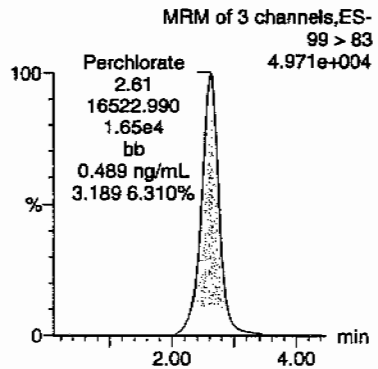
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

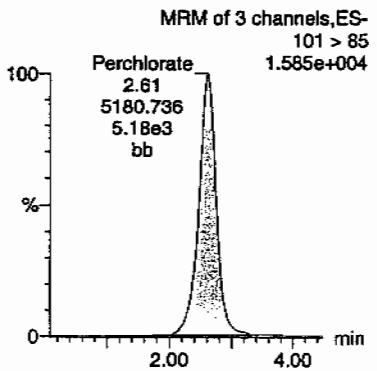
Name: per0131077a
Date: 31-Jan-2010
Time: 21:57:45
ID: WCL100128-06CCV
Vial: 1:2,A

Pass
AWD
02-01-10

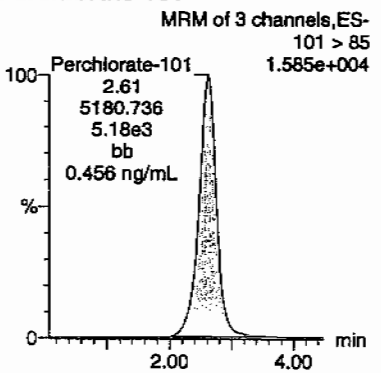
Perchlorate



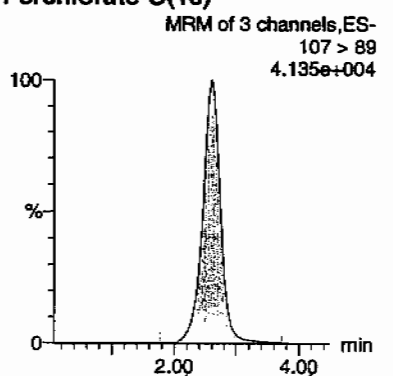
Perchlorate



Perchlorate-101



Perchlorate-O(18)



HMM 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.61	16522.990	16522.990	bb			0.4886	97.71	-2.29	1711.4...	3.19
WCL100128-06CCV	Perchlorate-101	101 > 85	2.61	5180.736	5180.736	bb			0.4558	91.15	-8.85	1110.0...	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.60	13635.730	13635.730	bb			0.4689	93.77	-6.23	6209.2...	

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

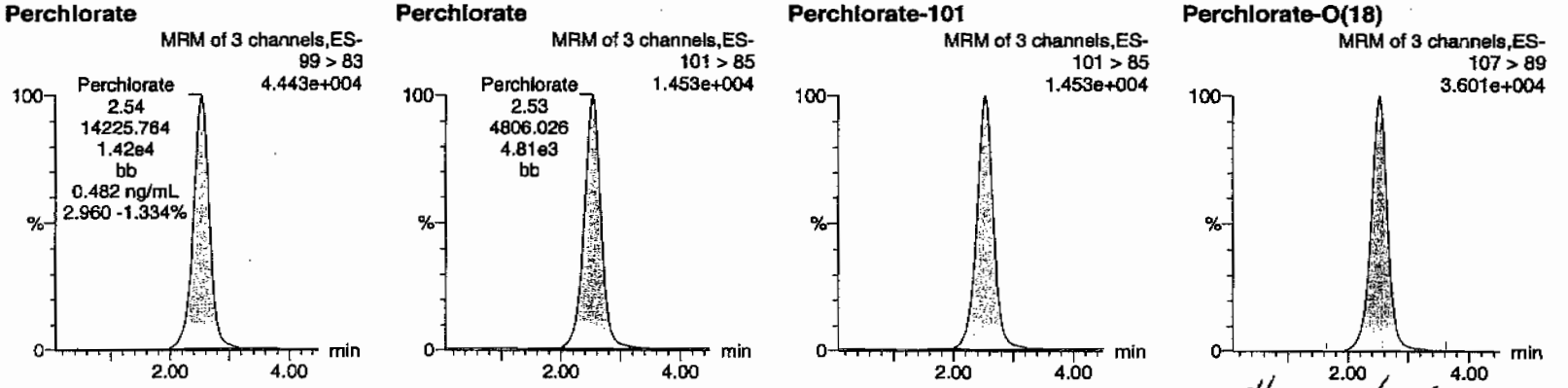
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\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: per0201020a
Date: 01-Feb-2010
Time: 17:08:09
ID: WCL100128-06CCV
Vial: 1:2,A

Pass
aw
02-02-10



Hmm a 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...	

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

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1474-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	99.8	31-JAN-10 13:38	per0131011a
Perchlorate Isotope Ratio		2.79		31-JAN-10 13:38	per0131011a
Perchlorate-101	.05	.05	106.42	31-JAN-10 13:38	per0131011a
Perchlorate	.05	.05	101.06	31-JAN-10 15:09	per0131023a
Perchlorate Isotope Ratio		3.03		31-JAN-10 15:09	per0131023a
Perchlorate-101	.05	.05	99.13	31-JAN-10 15:09	per0131023a
Perchlorate	.05	.05	94.76	31-JAN-10 16:32	per0131034a
Perchlorate Isotope Ratio		3.06		31-JAN-10 16:32	per0131034a
Perchlorate-101	.05	.05	92.11	31-JAN-10 16:32	per0131034a
Perchlorate	.05	.04	89.19	31-JAN-10 17:55	per0131045a
Perchlorate Isotope Ratio		2.97		31-JAN-10 17:55	per0131045a

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474–1

Lab Code: GEL

Reporting Units: ug/L

Perchlorate–101	.05	.04	89.43	31–JAN–10 17:55	per0131045a
Perchlorate	.05	.05	95.73	31–JAN–10 19:18	per0131056a
Perchlorate Isotope Ratio		2.68		31–JAN–10 19:18	per0131056a
Perchlorate–101	.05	.05	106.32	31–JAN–10 19:18	per0131056a
Perchlorate	.05	.05	102.23	31–JAN–10 20:41	per0131067a
Perchlorate Isotope Ratio		2.94		31–JAN–10 20:41	per0131067a
Perchlorate–101	.05	.05	103.57	31–JAN–10 20:41	per0131067a
Perchlorate	.05	.05	94.46	31–JAN–10 22:13	per0131079a
Perchlorate Isotope Ratio		2.87		31–JAN–10 22:13	per0131079a
Perchlorate–101	.05	.05	97.88	31–JAN–10 22:13	per0131079a
Perchlorate	.05	.05	100.09	01–FEB–10 16:00	per0201011a

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10–1474–1

Lab Code: GEL

Reporting Units: ug/L

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

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

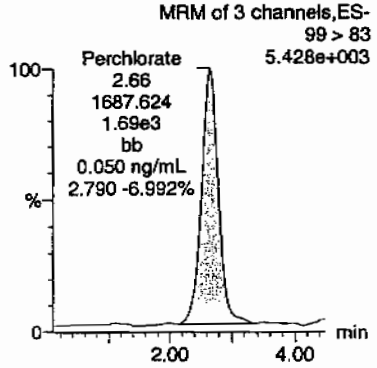
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

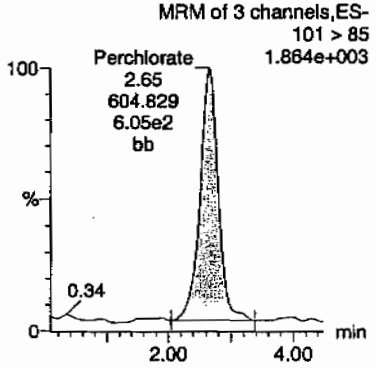
Name: per0131011a
Date: 31-Jan-2010
Time: 13:38:34
ID: WCL100128-07CRI
Vial: 1:2,B

Pass
02.01.10

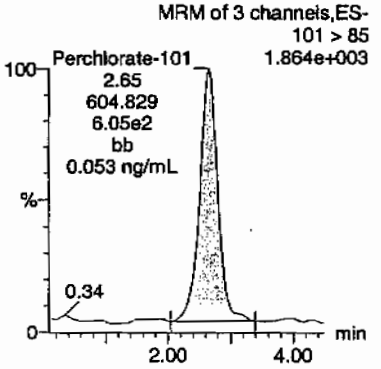
Perchlorate



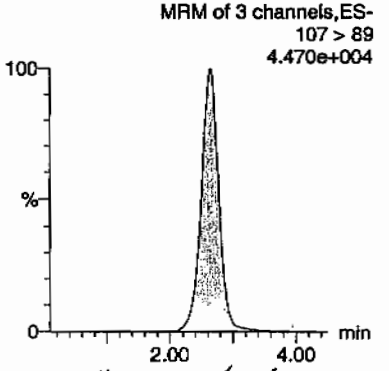
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.66	1687.624	1687.624	bb			0.0499	99.80	-0.20	385.644	2.79
WCL100128-07CRI	Perchlorate-101	101 > 85	2.65	604.829	604.829	bb			0.0532	106.42	6.42	201.132	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.64	14329.497	14329.497	bb			0.4927	98.54	-1.46	4076.8...	

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

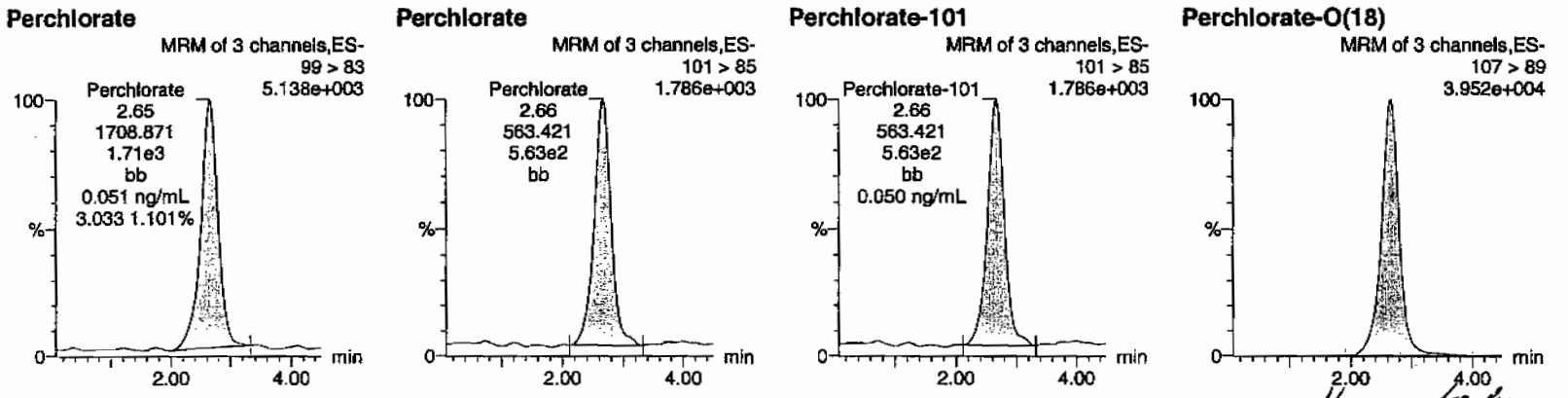
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: pér0131023a
Date: 31-Jan-2010
Time: 15:09:07
ID: WCL100128-07CRI
Vial: 1:2,B

Pwso
aw
02-01-10



Hmw 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	2.65	1708.871	1708.871	bb			0.0505	101.06	1.06	90.206	3.03
WCL100128-07CRI	Perchlorate-101	101 > 85	2.66	563.421	563.421	bb			0.0496	99.13	-0.87	234.947	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.65	13430.074	13430.074	bb			0.4618	92.36	-7.64	1794.5...	

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

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

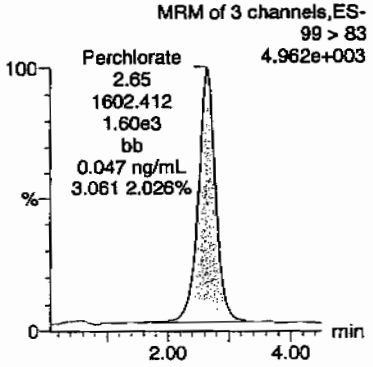
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

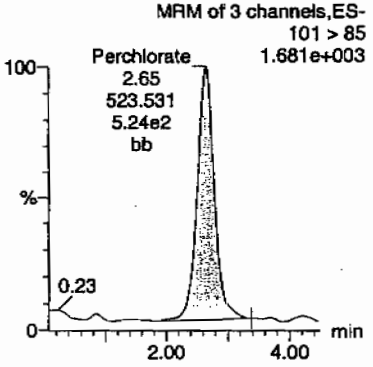
Name: per0131034a
Date: 31-Jan-2010
Time: 16:32:06
ID: WCL100128-07CRI
Vial: 1:2,B

Pass
02-01-10

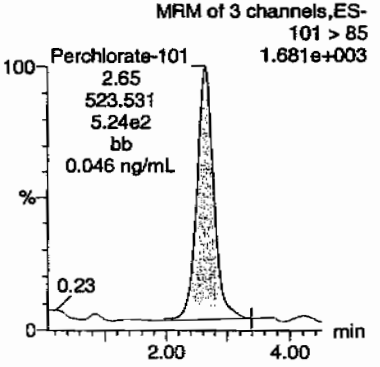
Perchlorate



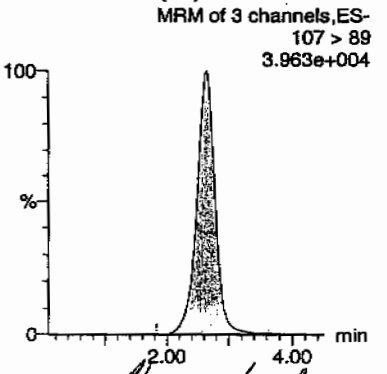
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hunzalogho

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.65	1602.412	1602.412	bb			0.0474	94.76	-5.24	128.941	3.06
WCL100128-07CRI	Perchlorate-101	101 > 85	2.65	523.531	523.531	bb			0.0461	92.11	-7.89	148.998	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.64	13291.097	13291.097	bb			0.4570	91.40	-8.60	3554.0...	

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

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

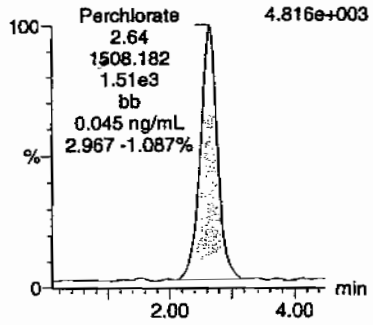
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

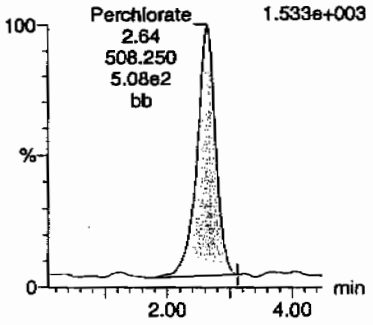
Name: per0131045a
Date: 31-Jan-2010
Time: 17:55:09
ID: WCL100128-07CRI
Vial: 1:2,B

Pass
aw
02-01-10

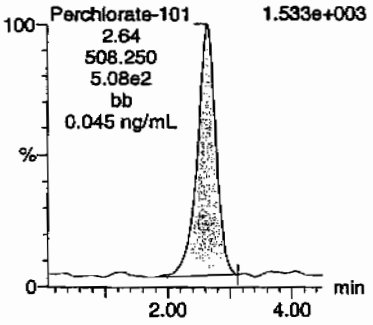
Perchlorate



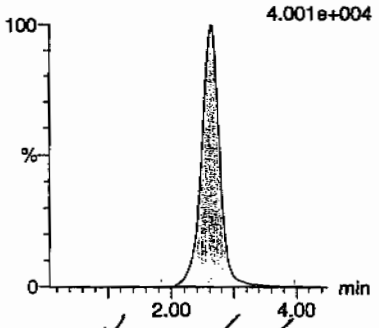
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.64	1508.182	1508.182	bb			0.0446	89.19	-10.81	257.659	2.97
WCL100128-07CRI	Perchlorate-101	101 > 85	2.64	508.250	508.250	bb			0.0447	89.43	-10.57	61.987	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.63	13246.691	13246.691	bb			0.4555	91.10	-8.90	5001.8...	

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

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

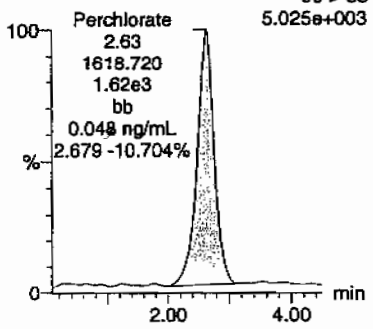
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

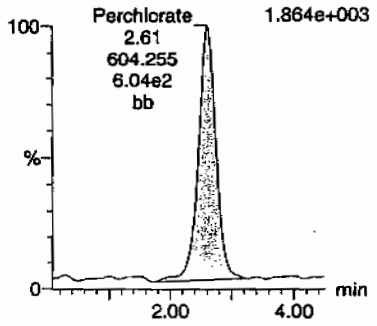
Pers
02-01-10

Name: per0131056a
Date: 31-Jan-2010
Time: 19:18:25
ID: WCL100128-07CRI
Vial: 1:2,B

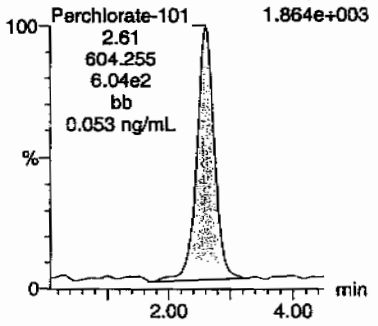
Perchlorate



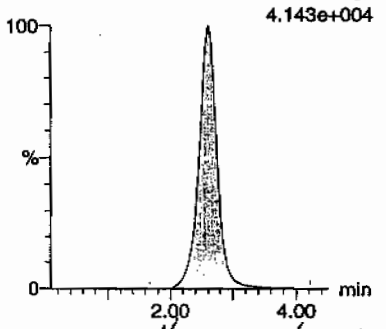
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hum 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.63	1618.720	1618.720	bb			0.0479	95.73	-4.27	296.151	2.68
WCL100128-07CRI	Perchlorate-101	101 > 85	2.61	604.255	604.255	bb			0.0532	106.32	6.32	17.440	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.61	13919.873	13919.873	bb			0.4786	95.73	-4.27	10057....	

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

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

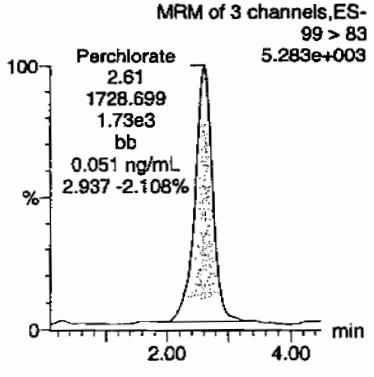
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

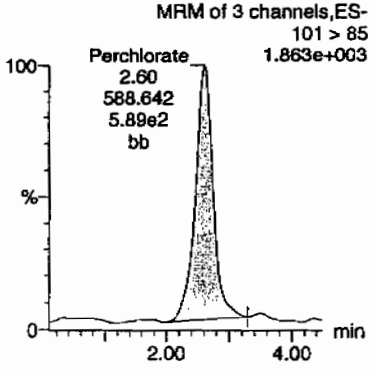
Name: per0131067a
Date: 31-Jan-2010
Time: 20:41:45
ID: WCL100128-07CRI
Vial: 1:2,B

Pass
ang
02-01-10

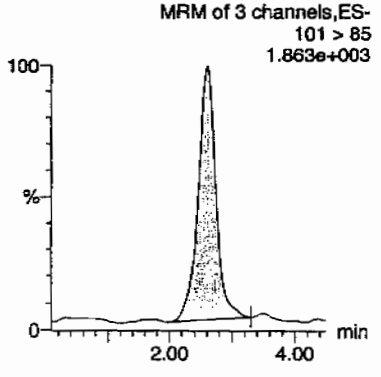
Perchlorate



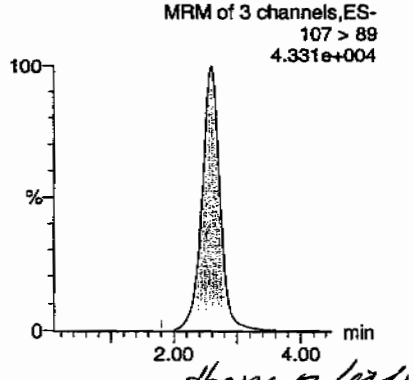
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 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	2.61	1728.699	1728.699	bb			0.0511	102.23	2.23	392.527	2.94
WCL100128-07CRI	Perchlorate-101	101 > 85	2.60	588.642	588.642	bb			0.0518	103.57	3.57	130.060	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.59	14243.858	14243.858	bb			0.4898	97.95	-2.05	5194.8...	

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

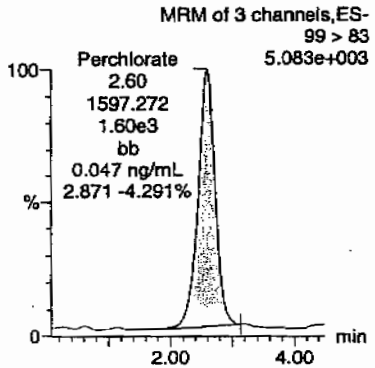
Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

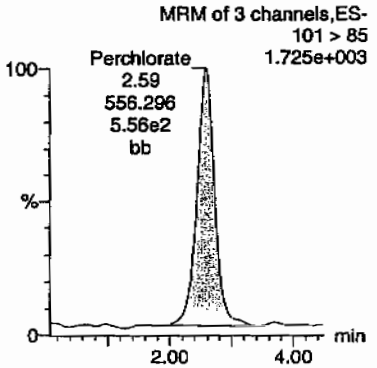
Name: per0131079a
Date: 31-Jan-2010
Time: 22:13:05
ID: WCL100128-07CRI
Vial: 1:2,B

Pass
CWW
02-01-10

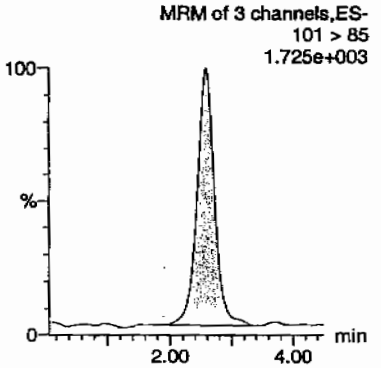
Perchlorate



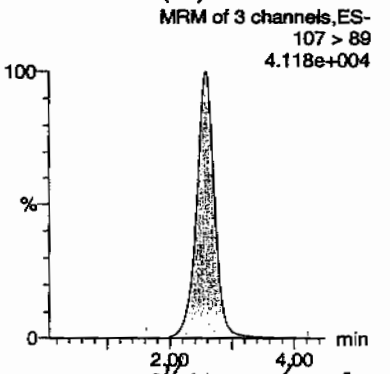
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hm 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	2.60	1597.272	1597.272	bb			0.0472	94.46	-5.54	190.554	2.87
WCL100128-07CRI	Perchlorate-101	101 > 85	2.59	556.296	556.296	bb			0.0489	97.88	-2.12	73.002	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.58	13796.101	13796.101	bb			0.4744	94.87	-5.13	8492.1...	

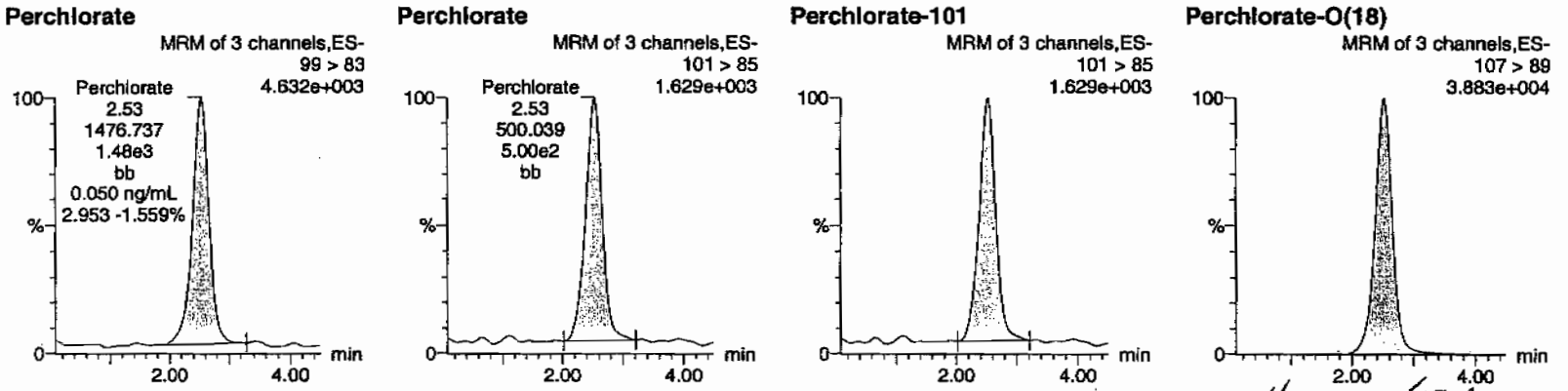
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

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
aw
02-02-10



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.53	1476.737	1476.737	bb			0.0500	100.09	0.09	417.546	2.95
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...	

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

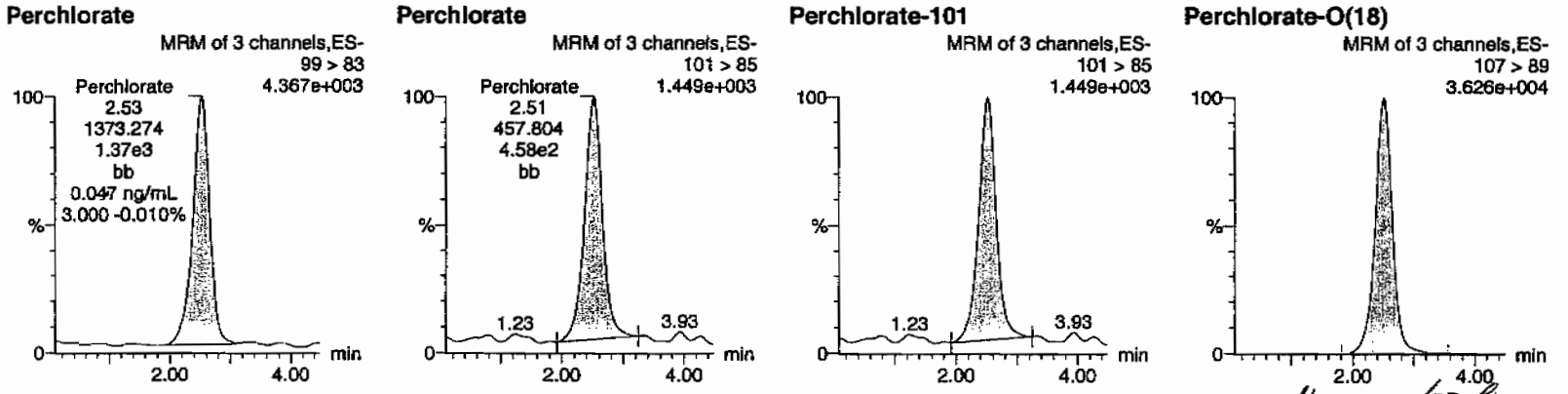
Quantify Sample Report **MassLynx 4.0 SP4**
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\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: per0201022a
Date: 01-Feb-2010
Time: 17:23:13
ID: WCL100128-07CRI
Vial: 1:2,B

Pass
CWW
02.02-10



Hme 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.53	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...	

QUALITY CONTROL

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: WATER

Extraction Batch ID: 947198

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.
MB

Date Received: 30–JAN–10

GEL Job No (SDG): 10–1474–1

GEL Sample ID: 1202028960

Date Filtered: 30–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	31–JAN–10 18:02	per0131046a
	Perchlorate Isotope Ratio						1	31–JAN–10 18:02	per0131046a
14797–73–0	Perchlorate–101	.05	.2	0.050	ug/L	U	1	31–JAN–10 18:02	per0131046a
	Perchlorate–O(18)			0.462	ug/L		1	31–JAN–10 18:02	per0131046a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

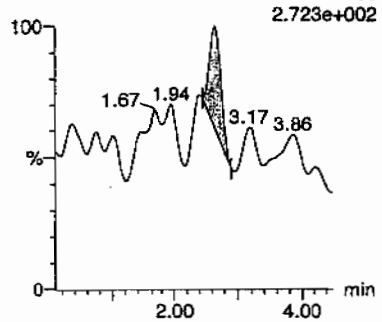
Name: per0131046a
Date: 31-Jan-2010
Time: 18:02:41
ID: 1202028960
Vial: 2:1,A

|LANL|947199|LIQ ~~50250~~|MB|1|

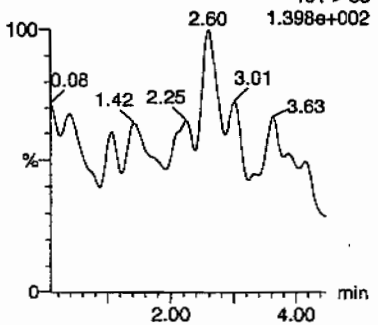
cwo 02-01-10

cwo 02-01-10

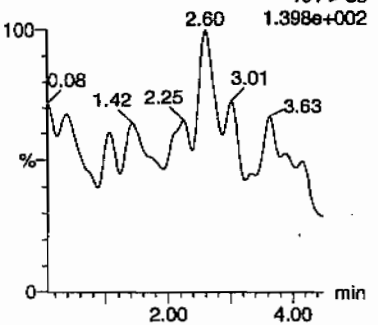
Perchlorate



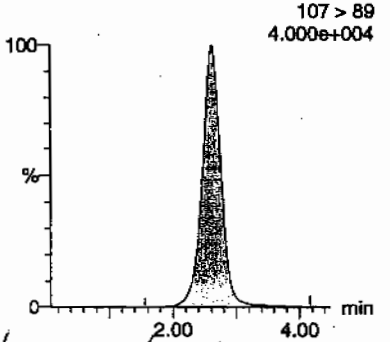
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202028960	Perchlorate	99 > 83	2.65	22.511	22.511	bb			0.0007			8.744	0.00
1202028960	Perchlorate-101	101 > 85											
1202028960	Perchlorate-O(18)	107 > 89	2.63	13448.378	13448.378	bb			0.4624	92.48	-7.52	3729.0...	

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: 947198

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.
LCS

Date Received: 30-JAN-10

GEL Job No (SDG): 10-1474-1

GEL Sample ID: 1202028961

Date Filtered: 30-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	0.199	ug/L	J	1	31-JAN-10 18:10	per0131047a
	Perchlorate Isotope Ratio			3.1			1	31-JAN-10 18:10	per0131047a
14797-73-0	Perchlorate-101	.05	.2	0.191	ug/L	J	1	31-JAN-10 18:10	per0131047a
	Perchlorate-O(18)			0.455	ug/L		1	31-JAN-10 18:10	per0131047a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

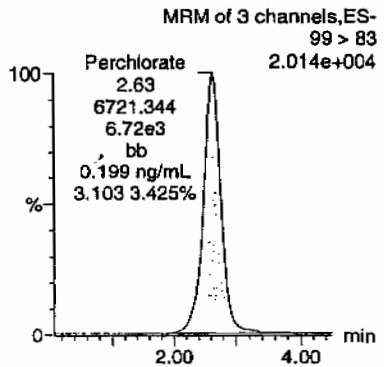
Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131047a
Date: 31-Jan-2010
Time: 18:10:24
ID: 1202028961
Vial: 2:1,B

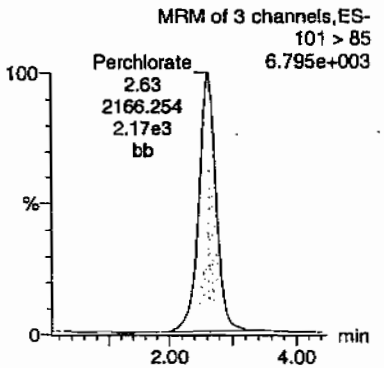
|LANC|947199|L2Q|LCS|1|

LWO 02-01-10

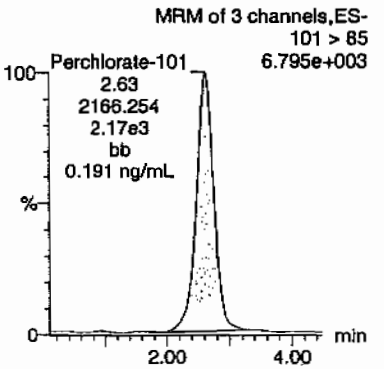
Perchlorate



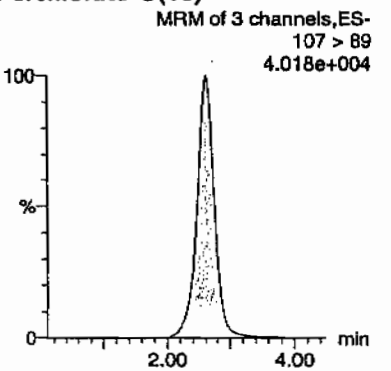
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202028961	Perchlorate	99 > 83	2.63	6721.344	6721.344	bb			0.1987	99.37	-0.63	1459.2...	3.10
1202028961	Perchlorate-101	101 > 85	2.63	2166.254	2166.254	bb			0.1906	95.29	-4.71	575.994	
1202028961	Perchlorate-O(18)	107 > 89	2.61	13238.314	13238.314	bb			0.4552	91.04	-8.96	2651.3...	

$\frac{6721.344}{33819.9} = 0.1987$

HMW 02/03/10

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

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: 947198 Verified by: _____

Analyst: Jareth Shirley

Method: SW846 6850 Modified

Lab SOP: GL-OA-E-067 REV# 6

Instrument: MicroMass Quatro Ultima

Sample ID	Run Date	Initial Volume (mL)	Final Volume (mL)	Prepped Factor (mL/mL)
1202028960 MB	30-JAN-2010 12:08:58	10	10	1
1202028961 LCS	30-JAN-2010 12:08:58	10	10	1
245601001	30-JAN-2010 12:08:58	10	10	1
245614001	30-JAN-2010 12:08:58	10	10	1
1202028962 MS (245614001)	30-JAN-2010 12:08:58	10	10	1
1202028963 MSD (245614001)	30-JAN-2010 12:08:58	10	10	1
245614002	30-JAN-2010 12:08:58	10	10	1
245618007	30-JAN-2010 12:08:58	10	10	1
245619001	30-JAN-2010 12:08:58	10	10	1
245625001	30-JAN-2010 12:08:58	10	10	1
245676002	30-JAN-2010 12:08:58	10	10	1
1202028964 MS (245676002)	30-JAN-2010 12:08:58	10	10	1
1202028965 MSD (245676002)	30-JAN-2010 12:08:58	10	10	1
245676005	30-JAN-2010 12:08:58	10	10	1
245681001	30-JAN-2010 12:08:58	10	10	1
245681002	30-JAN-2010 12:08:58	10	10	1
245690001	30-JAN-2010 12:08:58	10	10	1
245690002	30-JAN-2010 12:08:58	10	10	1
245777001	30-JAN-2010 12:08:58	10	10	1
245777005	30-JAN-2010 12:08:58	10	10	1
245807001	30-JAN-2010 12:08:58	10	10	1
245807002	30-JAN-2010 12:08:58	10	10	1
1202028966 ICS	30-JAN-2010 12:08:58	10	10	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units
ICS	1202028966	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL
LCS	1202028961	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL
MS	1202028962	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL
MS	1202028964	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL
MSD	1202028963	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL
MSD	1202028965	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL
RGNT	All	500 ppm Carbonate, Bicarbonate, Chloride, Sulfate	1236492	10	mL
RGNT	All	O2SI HPLC Grade Water	1246195	10	mL

Comments:

Desalting cartridges used: 090406-1-Ba & 091130-1-H

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 01/31/10
Extr. Injection Volume: 20uL
Sequence Number: per013110a
Initial Calibration Date: 01/31/10

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

Reviewed BY: HAM
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
per0131001a	IPB001	CWW	1/31/2010 12:23			1		USE	B
per0131002a	IPB001	CWW	1/31/2010 12:30			1		USE	B
per0131003a	WCLICAL-01	CWW	1/31/2010 12:38			1		USE	I
per0131004a	WCLICAL-02	CWW	1/31/2010 12:45			1		USE	I
per0131005a	WCLICAL-03	CWW	1/31/2010 12:53			1		USE	I
per0131006a	WCLICAL-04	CWW	1/31/2010 13:00			1		USE	I
per0131007a	WCLICAL-05	CWW	1/31/2010 13:08			1		USE	I
per0131008a	IPB002	CWW	1/31/2010 13:15			1		USE	B
per0131009a	WCLICV	CWW	1/31/2010 13:23			1		USE	C
per0131010a	IPB003	CWW	1/31/2010 13:31			1		USE	B
per0131011a	WCLCRI	CWW	1/31/2010 13:38			1		USE	C
per0131012a	1202023105	CWW	1/31/2010 13:46	944723	VARIOUS	1	LANL	USE	S
per0131013a	1202023106	CWW	1/31/2010 13:53	944723	VARIOUS	1	LANL	USE	S
per0131014a	1202023109	CWW	1/31/2010 14:01	944723	VARIOUS	1	LANL	USE	S
per0131015a	244921001	CWW	1/31/2010 14:08	944723	10-1288	1	LANL	USE	S
per0131016a	244921002	CWW	1/31/2010 14:16	944723	10-1288	1	LANL	USE	S
per0131017a	244921003	CWW	1/31/2010 14:23	944723	10-1288	1	LANL	USE	S
per0131018a	244921004	CWW	1/31/2010 14:31	944723	10-1288	1	LANL	USE	S
per0131019a	244921005	CWW	1/31/2010 14:38	944723	10-1288	1	LANL	USE	S
per0131020a	244921006	CWW	1/31/2010 14:46	944723	10-1288	1	LANL	USE	S
per0131021a	WCLCCV	CWW	1/31/2010 14:54			1	LANL	USE	C
per0131022a	IPB004	CWW	1/31/2010 15:01			1	LANL	USE	B
per0131023a	WCLCRI	CWW	1/31/2010 15:09			1	LANL	USE	C
per0131024a	244921007	CWW	1/31/2010 15:16	944723	10-1288	1	LANL	USE	S
per0131025a	244921008	CWW	1/31/2010 15:24	944723	10-1288	1	LANL	USE	S
per0131026a	244921009	CWW	1/31/2010 15:31	944723	10-1288	1	LANL	USE	S
per0131027a	244921010	CWW	1/31/2010 15:39	944723	10-1288	1	LANL	USE	S
per0131028a	245134001	CWW	1/31/2010 15:46	944723	10-1300	1	LANL	USE	S
per0131029a	1202023107	CWW	1/31/2010 15:54	944723	10-1300	1	LANL	USE	S

per0131030a	1202023108	CWW	1/31/2010 16:01	944723	10-1300	1	LANL	USE	S
per0131031a	245134002	CWW	1/31/2010 16:09	944723	10-1300	1	LANL	USE	S
per0131032a	WCLCCV	CWW	1/31/2010 16:17			1	LANL	USE	C
per0131033a	IPB005	CWW	1/31/2010 16:24			1	LANL	USE	B
per0131034a	WCLCRI	CWW	1/31/2010 16:32			1	LANL	USE	C
per0131035a	245134003	CWW	1/31/2010 16:39	944723	10-1300	1	LANL	USE	S
per0131036a	245134004	CWW	1/31/2010 16:47	944723	10-1300	1	LANL	USE	S
per0131037a	245134005	CWW	1/31/2010 16:54	944723	10-1300	1	LANL	USE	S
per0131038a	245134006	CWW	1/31/2010 17:02	944723	10-1300	1	LANL	USE	S
per0131039a	245134007	CWW	1/31/2010 17:09	944723	10-1300	1	LANL	USE	S
per0131040a	245134008	CWW	1/31/2010 17:17	944723	10-1300	1	LANL	USE	S
per0131041a	245134009	CWW	1/31/2010 17:24	944723	10-1300	1	LANL	USE	S
per0131042a	245134010	CWW	1/31/2010 17:32	944723	10-1300	1	LANL	USE	S
per0131043a	WCLCCV	CWW	1/31/2010 17:40			1	LANL	USE	C
per0131044a	IPB006	CWW	1/31/2010 17:47			1	LANL	USE	B
per0131045a	WCLCRI	CWW	1/31/2010 17:55			1	LANL	USE	C
per0131046a	1202028960	CWW	1/31/2010 18:02	947199	VARIOUS	1	LANL	USE	S
per0131047a	1202028961	CWW	1/31/2010 18:10	947199	VARIOUS	1	LANL	USE	S
per0131048a	1202028966	CWW	1/31/2010 18:17	947199	VARIOUS	1	LANL	USE	S
per0131049a	245601001	CWW	1/31/2010 18:25	947199	10-1409	1	LANL	USE	S
per0131050a	245614001	CWW	1/31/2010 18:32	947199	10-1417-1	1	LANL	USE	S
per0131051a	1202028962	CWW	1/31/2010 18:40	947199	10-1417-1	1	LANL	USE	S
per0131052a	1202028963	CWW	1/31/2010 18:48	947199	10-1417-1	1	LANL	USE	S
per0131053a	245614002	CWW	1/31/2010 18:55	947199	10-1417-1	1	LANL	USE	S
per0131054a	WCLCCV	CWW	1/31/2010 19:03			1	LANL	USE	C
per0131055a	IPB007	CWW	1/31/2010 19:10			1	LANL	USE	B
per0131056a	WCLCRI	CWW	1/31/2010 19:18			1	LANL	USE	C
per0131057a	245618007	CWW	1/31/2010 19:25	947199	10-1422	1	LANL	USE	S
per0131058a	245619001	CWW	1/31/2010 19:33	947199	10-1423	1	LANL	USE	S
per0131059a	245625001	CWW	1/31/2010 19:41	947199	10-1425	1	LANL	USE	S
per0131060a	245676002	CWW	1/31/2010 19:48	947199	10-1446	1	LANL	USE	S
per0131061a	1202028964	CWW	1/31/2010 19:56	947199	10-1446	1	LANL	USE	S
per0131062a	1202028965	CWW	1/31/2010 20:03	947199	10-1446	1	LANL	USE	S
per0131063a	245676005	CWW	1/31/2010 20:11	947199	10-1446	1	LANL	USE	S
per0131064a	245681001	CWW	1/31/2010 20:18	947199	10-1450	1	LANL	USE	S
per0131065a	WCLCCV	CWW	1/31/2010 20:26			1	LANL	USE	C
per0131066a	IPB008	CWW	1/31/2010 20:34			1	LANL	USE	B

per0131067a	WCLCRI	CWW	1/31/2010 20:41			1	LANL	USE	C
per0131068a	245681002	CWW	1/31/2010 20:49	947199	10-1450	1	LANL	USE	S
per0131069a	245690001	CWW	1/31/2010 20:57	947199	10-1433-1	1	LANL	USE	S
per0131070a	245690002	CWW	1/31/2010 21:04	947199	10-1433-1	1	LANL	USE	S
per0131071a	245777001	CWW	1/31/2010 21:12	947199	10-1458	1	LANL	DUSE-DL	S
per0131072a	245777005	CWW	1/31/2010 21:19	947199	10-1458	1	LANL	DUSE-DL	S
per0131073a	245807001	CWW	1/31/2010 21:27	947199	10-1474-1	1	LANL	DUSE-RA	S
per0131074a	245807002	CWW	1/31/2010 21:34	947199	10-1474-1	1	LANL	USE	S
per0131075a	IPB009	CWW	1/31/2010 21:42			1		USE	B
per0131076a	1262643 Suppr	CWW	1/31/2010 21:50	Screen	Inhouse	1	GEL	DUSE	S
per0131077a	WCLCCV	CWW	1/31/2010 21:57			1		USE	C
per0131078a	IPB010	CWW	1/31/2010 22:05			1		USE	B
per0131079a	WCLCRI	CWW	1/31/2010 22:13			1		USE	C

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: [illegible]
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

per0201067a	245392001	CWW	2/1/2010 23:03	945227	10-1390-1	1	LANL	USE	S
per0201068a	245392002	CWW	2/1/2010 23:10	945227	10-1390-1	1	LANL	USE	S
per0201069a	WCLCCV	CWW	2/1/2010 23:18			1		USE	C
per0201070a	IPB009	CWW	2/1/2010 23:26			1		USE	B
per0201071a	WCLCRI	CWW	2/1/2010 23:33			1		USE	C

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

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

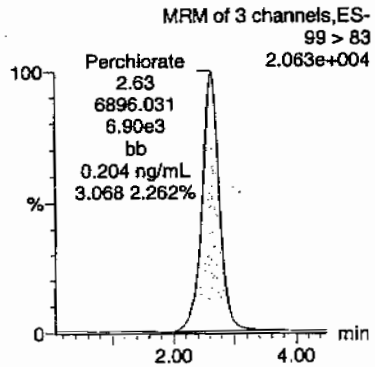
Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131051a
Date: 31-Jan-2010
Time: 18:40:29
ID: 1202028962
Vial: 2:1,F

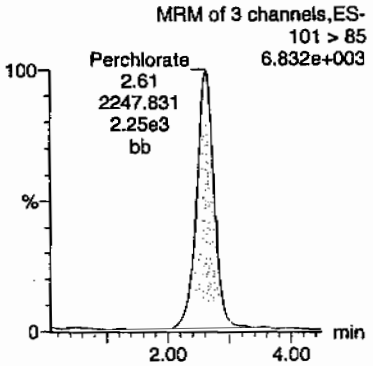
| LANL | 947199 | LZW | MS | 1 |

CWO 02-01-10

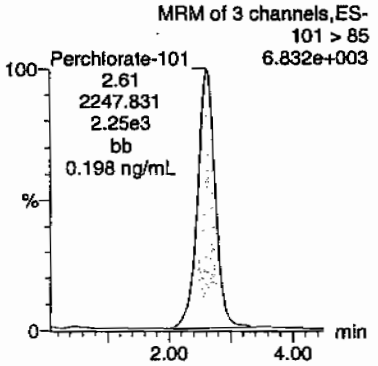
Perchlorate



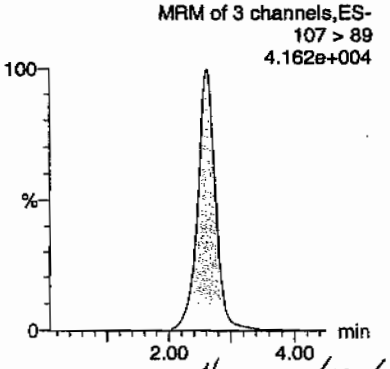
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hmm 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202028962	Perchlorate	99 > 83	2.63	6896.031	6896.031	bb			0.2039	101.95	1.95	499.072	3.07
1202028962	Perchlorate-101	101 > 85	2.61	2247.831	2247.831	bb			0.1978	98.88	-1.12	1131.5...	
1202028962	Perchlorate-O(18)	107 > 89	2.61	13826.360	13826.360	bb			0.4754	95.08	-4.92	4176.2...	

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per013110a.qld

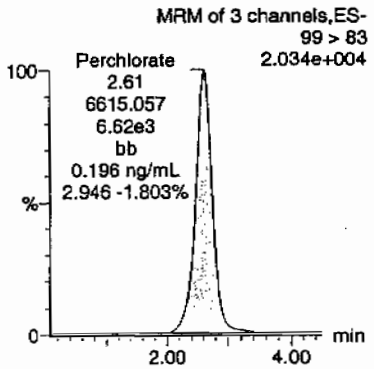
Last Altered: Monday, February 01, 2010 10:45:07 AM Eastern Standard Time
Printed: Monday, February 01, 2010 10:58:37 AM Eastern Standard Time

Name: per0131052a
Date: 31-Jan-2010
Time: 18:48:01
ID: 1202028963
Vial: 2:2,A

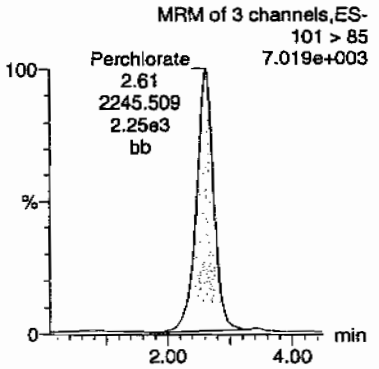
|LANL|947199|LCQ|MSD|1|

WW 02-01-10

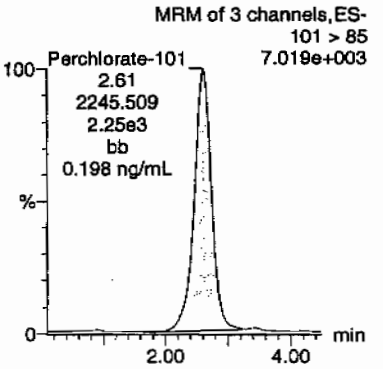
Perchlorate



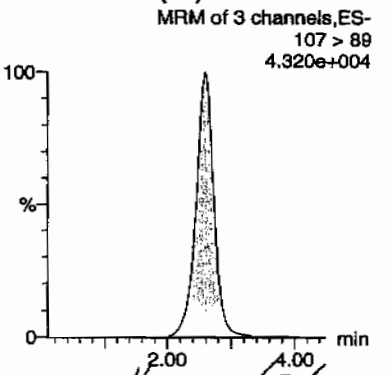
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Hum 02/03/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202028963	Perchlorate	99 > 83	2.61	6615.057	6615.057	bb			0.1956	97.80	-2.20	747.719	2.95
1202028963	Perchlorate-101	101 > 85	2.61	2245.509	2245.509	bb			0.1975	98.77	-1.23	234.767	
1202028963	Perchlorate-O(18)	107 > 89	2.60	14081.118	14081.118	bb			0.4842	96.83	-3.17	1719.1...	

Isotope Ratio Criteria

Isotope Ratio $_{35}Cl/_{37}CL$

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 10-1474

Sample Analysis

Sample ID	Client ID
245806001	RE15-10-7954
245806002	RE15-10-7956
245806003	RE15-10-7955
245806004	RE15-10-7953
245806005	RE15-10-7952
245806006	RE15-10-8060
245806007	RE15-10-8058
245806008	RE15-10-8059
1202030969	Method Blank (MB) **ICP**
1202030974	Laboratory Control Sample (LCS)
1202030971	245806001(RE15-10-7954L) Serial Dilution (SD)
1202030970	245806001(RE15-10-7954D) Sample Duplicate (DUP)
1202030972	245806001(RE15-10-7954S) Matrix Spike (MS)
1202030973	245806001(RE15-10-7954SD) Matrix Spike Duplicate (MSD)
1202030975	Method Blank (MB) **ICP-MS**
1202030980	Laboratory Control Sample (LCS)
1202030977	245806001(RE15-10-7954L) Serial Dilution (SD)
1202030976	245806001(RE15-10-7954D) Sample Duplicate (DUP)
1202030978	245806001(RE15-10-7954S) Matrix Spike (MS)
1202030979	245806001(RE15-10-7954SD) Matrix Spike Duplicate (MSD)

1202029970	Method Blank (MB) **CVAA**
1202029971	Laboratory Control Sample (LCS)
1202029974	245806001(RE15-10-7954L) Serial Dilution (SD)
1202029972	245806001(RE15-10-7954D) Sample Duplicate (DUP)
1202029973	245806001(RE15-10-7954S) Matrix Spike (MS)
1202029975	245806001(RE15-10-7954SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch:	948071, 948073 and 947650
Prep Batch :	948070, 948072 and 947648
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-Mercury was performed on a Perkin-Elmer Flow Injection Mercury System (FIMS-100) automated mercury analyzer. The instrument consists of a cold vapor atomic absorption spectrometer set to detect mercury at a wavelength of 253.7 nm. Sample introduction through the flow injection system is performed via a peristaltic pump at 9 mL/min and nitrogen carrier gas rate of 80 mL/min.

Calibration Information

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

CRDL Requirements
All CRDL standard(s) met the referenced advisory control limits.

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

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

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

Quality Control (QC) Information

Method Blank (MB) Statement
The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement
The following sample was selected as the quality control (QC) sample for this SDG: 245806001.

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 exception of copper, magnesium, manganese and potassium, as indicated by the "N" qualifiers.

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

MS/MSD Relative Percent Difference (RPD) Statement
The relative percent difference (RPD) obtained from the designated matrix spike duplicate (MSD) is evaluated based on acceptance criteria of 20%. The RPD between qualifying elements results in the MS and MSD were within the acceptance limits of 20% with the exception of copper, as indicated by the "*" qualifier.

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

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

Technical Information

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

Sample Dilutions
Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instruments. The samples in this SDG were diluted the standard 2x for solids on the ICPMS. Samples in this SDG required dilutions after repeated attempts to analyze undiluted resulted in ICP instrument QC failures. The samples were diluted at 2x dilution because when analyzed straight twice the CCV failed for iron and magnesium.

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

Miscellaneous Information

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

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

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DERs were generated for this SDG: 793483 and 795195. A copy of each DER is included in the Miscellaneous Data section of this package.

Additional Comments
Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Kristen Parson **Date:** 2/25/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806001 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7954 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 94.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3360000	ug/Kg		6790	20000	20000	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-36-0	Antimony	5040	ug/Kg	*	329	998	998	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-38-2	Arsenic	1.48	mg/kg		0.209	1.05	1.05	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-39-3	Barium	48800	ug/Kg		99.8	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-41-7	Beryllium	1.37	mg/kg	*	0.0209	0.105	0.105	2	MS	SKJ	02/19/10 14:42	100219-4	948073
7440-43-9	Cadmium	499	ug/Kg	U	99.8	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-70-2	Calcium	1100000	ug/Kg		7990	25000	25000	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-47-3	Chromium	13400	ug/Kg	*	150	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-48-4	Cobalt	3090	ug/Kg	*	150	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-50-8	Copper	115000	ug/Kg	*N	299	998	998	1	P	HSC	02/17/10 02:45	021610-1	948071
7439-89-6	Iron	9310000	ug/Kg		16000	49900	49900	2	P	HSC	02/23/10 14:32	022310A-2	948071
7439-92-1	Lead	578000	ug/Kg	*	499	2000	2000	2	P	HSC	02/23/10 14:32	022310A-2	948071
7439-95-4	Magnesium	696000	ug/Kg	N	17000	59900	59900	2	P	HSC	02/23/10 14:32	022310A-2	948071
7439-96-5	Manganese	192000	ug/Kg	N	200	998	998	1	P	HSC	02/17/10 02:45	021610-1	948071
7439-97-6	Mercury	14.4	ug/kg		4.13	12.2	12.2	1	AV	JXL1	02/16/10 09:40	021610S2-5	947650
7440-02-0	Nickel	7.19	mg/kg	*N	0.105	0.419	0.419	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-09-7	Potassium	460000	ug/Kg	N	6390	25000	25000	1	P	HSC	02/17/10 02:45	021610-1	948071
7782-49-2	Selenium	1.05	mg/kg	U	0.524	1.05	1.05	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-22-4	Silver	766	ug/Kg		99.8	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-23-5	Sodium	85000	ug/Kg		6990	25000	25000	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-28-0	Thallium	0.0878	mg/kg	J	0.0628	0.209	0.209	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-61-1	Uranium	84.4	mg/kg	*	0.0138	0.0419	0.0419	2	MS	SKJ	02/19/10 00:12	100218-3	948073
7440-62-2	Vanadium	8040	ug/Kg		99.8	499	499	1	P	HSC	02/17/10 02:45	021610-1	948071
7440-66-6	Zinc	36600	ug/Kg		329	998	998	1	P	HSC	02/17/10 02:45	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.524	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.532	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.507	g	50	mL	02/08/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806002 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7956 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 93.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4800000	ug/Kg		6930	20400	20400	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-36-0	Antimony	528	ug/Kg	J*	336	1020	1020	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-38-2	Arsenic	2.82	mg/kg		0.206	1.03	1.03	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-39-3	Barium	54600	ug/Kg		102	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-41-7	Beryllium	29.1	mg/kg	*	0.0206	0.103	0.103	2	MS	SKJ	02/19/10 14:58	100219-4	948073
7440-43-9	Cadmium	509	ug/Kg	U	102	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-70-2	Calcium	2290000	ug/Kg		8150	25500	25500	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-47-3	Chromium	11200	ug/Kg	*	153	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-48-4	Cobalt	2060	ug/Kg	*	153	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-50-8	Copper	73900	ug/Kg	*N	306	1020	1020	1	P	HSC	02/17/10 03:33	021610-1	948071
7439-89-6	Iron	8990000	ug/Kg		16300	50900	50900	2	P	HSC	02/24/10 08:48	022310A-2	948071
7439-92-1	Lead	23900	ug/Kg	*	509	2040	2040	2	P	HSC	02/24/10 08:48	022310A-2	948071
7439-95-4	Magnesium	1050000	ug/Kg	N	17300	61100	61100	2	P	HSC	02/24/10 08:48	022310A-2	948071
7439-96-5	Manganese	185000	ug/Kg	N	204	1020	1020	1	P	HSC	02/17/10 03:33	021610-1	948071
7439-97-6	Mercury	15.5	ug/kg		3.8	11.2	11.2	1	AV	JXL1	02/16/10 09:51	021610S2-5	947650
7440-02-0	Nickel	7.17	mg/kg	*N	0.103	0.412	0.412	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-09-7	Potassium	675000	ug/Kg	N	6520	25500	25500	1	P	HSC	02/17/10 03:33	021610-1	948071
7782-49-2	Selenium	0.640	mg/kg	J	0.515	1.03	1.03	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-22-4	Silver	692	ug/Kg		102	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-23-5	Sodium	63900	ug/Kg		7130	25500	25500	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-28-0	Thallium	0.139	mg/kg	J	0.0618	0.206	0.206	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-61-1	Uranium	69.8	mg/kg	*	0.0136	0.0412	0.0412	2	MS	SKJ	02/19/10 00:42	100218-3	948073
7440-62-2	Vanadium	11400	ug/Kg		102	509	509	1	P	HSC	02/17/10 03:33	021610-1	948071
7440-66-6	Zinc	32100	ug/Kg		336	1020	1020	1	P	HSC	02/17/10 03:33	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.572	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.523	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.517	g	50	mL	02/08/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806003 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7955 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3390000	ug/Kg		7960	23400	23400	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-36-0	Antimony	5530	ug/Kg	*	386	1170	1170	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-38-2	Arsenic	1.8	mg/kg		0.233	1.17	1.17	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-39-3	Barium	73400	ug/Kg		117	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-41-7	Beryllium	6.85	mg/kg	*	0.0233	0.117	0.117	2	MS	SKJ	02/19/10 15:00	100219-4	948073
7440-43-9	Cadmium	242	ug/Kg	J	117	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-70-2	Calcium	1460000	ug/Kg		9370	29300	29300	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-47-3	Chromium	6870	ug/Kg	*	176	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-48-4	Cobalt	6080	ug/Kg	*	176	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-50-8	Copper	1200000	ug/Kg	*N	351	1170	1170	1	P	HSC	02/17/10 03:41	021610-1	948071
7439-89-6	Iron	8710000	ug/Kg		18700	58500	58500	2	P	HSC	02/23/10 15:27	022310A-2	948071
7439-92-1	Lead	203000	ug/Kg	*	585	2340	2340	2	P	HSC	02/23/10 15:27	022310A-2	948071
7439-95-4	Magnesium	713000	ug/Kg	N	19900	70300	70300	2	P	HSC	02/23/10 15:27	022310A-2	948071
7439-96-5	Manganese	234000	ug/Kg	N	234	1170	1170	1	P	HSC	02/17/10 03:41	021610-1	948071
7439-97-6	Mercury	15.7	ug/kg		4.58	13.5	13.5	1	AV	JXL1	02/16/10 09:53	021610S2-5	947650
7440-02-0	Nickel	6.47	mg/kg	*N	0.117	0.467	0.467	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-09-7	Potassium	586000	ug/Kg	N	7490	29300	29300	1	P	HSC	02/17/10 03:41	021610-1	948071
7782-49-2	Selenium	1.17	mg/kg	U	0.583	1.17	1.17	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-22-4	Silver	1060	ug/Kg		117	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-23-5	Sodium	68300	ug/Kg		8200	29300	29300	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-28-0	Thallium	0.0733	mg/kg	J	0.07	0.233	0.233	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-61-1	Uranium	183	mg/kg	*	0.0154	0.0467	0.0467	2	MS	SKJ	02/19/10 00:46	100218-3	948073
7440-62-2	Vanadium	11300	ug/Kg		117	585	585	1	P	HSC	02/17/10 03:41	021610-1	948071
7440-66-6	Zinc	64700	ug/Kg		386	1170	1170	1	P	HSC	02/17/10 03:41	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.544	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.521	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.523	g	50	mL	02/08/10	FGA

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806004 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7953 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2950000	ug/Kg		7470	22000	22000	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-36-0	Antimony	256000	ug/Kg	*	362	1100	1100	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-38-2	Arsenic	2.29	mg/kg		0.223	1.12	1.12	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-39-3	Barium	89000	ug/Kg		110	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-41-7	Beryllium	12.2	mg/kg	*	0.0223	0.112	0.112	2	MS	SKJ	02/19/10 15:03	100219-4	948073
7440-43-9	Cadmium	448	ug/Kg	J	110	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-70-2	Calcium	1220000	ug/Kg		8780	27500	27500	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-47-3	Chromium	10500	ug/Kg	*	165	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-48-4	Cobalt	2690	ug/Kg	*	165	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-50-8	Copper	686000	ug/Kg	*N	329	1100	1100	1	P	HSC	02/17/10 03:48	021610-1	948071
7439-89-6	Iron	6900000	ug/Kg		17600	54900	54900	2	P	HSC	02/23/10 15:34	022310A-2	948071
7439-92-1	Lead	138000000	ug/Kg	*	27500	110000	110000	100	P	HSC	02/23/10 17:46	022310A-2	948071
7439-95-4	Magnesium	862000	ug/Kg	N	18700	65900	65900	2	P	HSC	02/23/10 15:34	022310A-2	948071
7439-96-5	Manganese	140000	ug/Kg	N	220	1100	1100	1	P	HSC	02/17/10 03:48	021610-1	948071
7439-97-6	Mercury	17.7	ug/kg		4.23	12.4	12.4	1	AV	JXL1	02/16/10 09:59	021610S2-5	947650
7440-02-0	Nickel	8.47	mg/kg	*N	0.112	0.447	0.447	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-09-7	Potassium	340000	ug/Kg	N	7030	27500	27500	1	P	HSC	02/17/10 03:48	021610-1	948071
7782-49-2	Selenium	1.12	mg/kg	U	0.559	1.12	1.12	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-22-4	Silver	2520	ug/Kg		110	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-23-5	Sodium	42700	ug/Kg		7690	27500	27500	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-28-0	Thallium	0.223	mg/kg	U	0.067	0.223	0.223	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-61-1	Uranium	362	mg/kg	*	0.0147	0.0447	0.0447	2	MS	SKJ	02/19/10 00:50	100218-3	948073
7440-62-2	Vanadium	9670	ug/Kg		110	549	549	1	P	HSC	02/17/10 03:48	021610-1	948071
7440-66-6	Zinc	125000	ug/Kg		362	1100	1100	1	P	HSC	02/17/10 03:48	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.562	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.53	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.521	g	50	mL	02/08/10	FGA

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806005 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-7952 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 93.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1670000	ug/Kg		7100	20900	20900	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-36-0	Antimony	1040	ug/Kg	U*	345	1040	1040	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-38-2	Arsenic	0.839	mg/kg	J	0.201	1.01	1.01	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-39-3	Barium	48800	ug/Kg		104	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-41-7	Beryllium	0.310	mg/kg	*	0.0201	0.101	0.101	2	MS	SKJ	02/19/10 15:10	100219-4	948073
7440-43-9	Cadmium	522	ug/Kg	U	104	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-70-2	Calcium	569000	ug/Kg		8360	26100	26100	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-47-3	Chromium	24000	ug/Kg	*	157	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-48-4	Cobalt	5010	ug/Kg	*	157	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-50-8	Copper	4310	ug/Kg	*N	313	1040	1040	1	P	HSC	02/17/10 03:55	021610-1	948071
7439-89-6	Iron	8550000	ug/Kg		16700	52200	52200	2	P	HSC	02/23/10 17:53	022310A-2	948071
7439-92-1	Lead	7460	ug/Kg	*	522	2090	2090	2	P	HSC	02/23/10 17:53	022310A-2	948071
7439-95-4	Magnesium	390000	ug/Kg	N	17800	62700	62700	2	P	HSC	02/23/10 17:53	022310A-2	948071
7439-96-5	Manganese	354000	ug/Kg	N	209	1040	1040	1	P	HSC	02/17/10 03:55	021610-1	948071
7439-97-6	Mercury	22.2	ug/kg		4.2	12.3	12.3	1	AV	JXL1	02/16/10 10:01	021610S2-5	947650
7440-02-0	Nickel	4.07	mg/kg	*N	0.101	0.403	0.403	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-09-7	Potassium	353000	ug/Kg	N	6690	26100	26100	1	P	HSC	02/17/10 03:55	021610-1	948071
7782-49-2	Selenium	1.01	mg/kg	U	0.504	1.01	1.01	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-22-4	Silver	589	ug/Kg		104	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-23-5	Sodium	128000	ug/Kg		7310	26100	26100	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-28-0	Thallium	0.201	mg/kg	U	0.0604	0.201	0.201	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-61-1	Uranium	0.519	mg/kg	*	0.0133	0.0403	0.0403	2	MS	SKJ	02/19/10 00:54	100218-3	948073
7440-62-2	Vanadium	3900	ug/Kg		104	522	522	1	P	HSC	02/17/10 03:55	021610-1	948071
7440-66-6	Zinc	37500	ug/Kg		345	1040	1040	1	P	HSC	02/17/10 03:55	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.521	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.513	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.532	g	50	mL	02/08/10	FGA

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806006 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8060 **LEVEL:** Low **DATE RECEIVED** 29-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	2550000	ug/Kg		7630	22400	22400	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-36-0	Antimony	8360	ug/Kg	*	370	1120	1120	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-38-2	Arsenic	3.7	mg/kg		0.219	1.1	1.1	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-39-3	Barium	85200	ug/Kg		112	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-41-7	Beryllium	9.08	mg/kg	*	0.0219	0.11	0.11	2	MS	SKJ	02/19/10 15:12	100219-4	948073
7440-43-9	Cadmium	229	ug/Kg	J	112	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-70-2	Calcium	1360000	ug/Kg		8970	28000	28000	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-47-3	Chromium	9600	ug/Kg	*	168	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-48-4	Cobalt	3890	ug/Kg	*	168	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-50-8	Copper	445000	ug/Kg	*N	336	1120	1120	1	P	HSC	02/17/10 04:02	021610-1	948071
7439-89-6	Iron	6730000	ug/Kg		17900	56100	56100	2	P	HSC	02/23/10 15:48	022310A-2	948071
7439-92-1	Lead	952000	ug/Kg	*	561	2240	2240	2	P	HSC	02/23/10 15:48	022310A-2	948071
7439-95-4	Magnesium	653000	ug/Kg	N	19100	67300	67300	2	P	HSC	02/23/10 15:48	022310A-2	948071
7439-96-5	Manganese	144000	ug/Kg	N	224	1120	1120	1	P	HSC	02/17/10 04:02	021610-1	948071
7439-97-6	Mercury	17.5	ug/kg		4.78	14	14	1	AV	JXL1	02/16/10 10:02	021610S2-5	947650
7440-02-0	Nickel	7.59	mg/kg	*N	0.11	0.439	0.439	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-09-7	Potassium	344000	ug/Kg	N	7180	28000	28000	1	P	HSC	02/17/10 04:02	021610-1	948071
7782-49-2	Selenium	1.1	mg/kg	U	0.548	1.1	1.1	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-22-4	Silver	1240	ug/Kg		112	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-23-5	Sodium	59600	ug/Kg		7850	28000	28000	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-28-0	Thallium	0.219	mg/kg	U	0.0658	0.219	0.219	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-61-1	Uranium	352	mg/kg	*	0.0145	0.0439	0.0439	2	MS	SKJ	02/19/10 01:07	100218-3	948073
7440-62-2	Vanadium	7750	ug/Kg		112	561	561	1	P	HSC	02/17/10 04:02	021610-1	948071
7440-66-6	Zinc	52800	ug/Kg		370	1120	1120	1	P	HSC	02/17/10 04:02	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.5	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.522	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.534	g	50	mL	02/08/10	FGA

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806007 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8058 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 64

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	7390000	ug/Kg		10300	30200	30200	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-36-0	Antimony	1680	ug/Kg	*	498	1510	1510	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-38-2	Arsenic	2.96	mg/kg		0.303	1.51	1.51	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-39-3	Barium	114000	ug/Kg		151	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-41-7	Beryllium	2.84	mg/kg	*	0.0303	0.151	0.151	2	MS	SKJ	02/19/10 15:14	100219-4	948073
7440-43-9	Cadmium	798	ug/Kg		151	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-70-2	Calcium	3730000	ug/Kg		12100	37700	37700	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-47-3	Chromium	10500	ug/Kg	*	226	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-48-4	Cobalt	5630	ug/Kg	*	226	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-50-8	Copper	148000	ug/Kg	*N	453	1510	1510	1	P	HSC	02/17/10 04:09	021610-1	948071
7439-89-6	Iron	11200000	ug/Kg		24100	75400	75400	2	P	HSC	02/23/10 15:55	022310A-2	948071
7439-92-1	Lead	140000	ug/Kg	*	754	3020	3020	2	P	HSC	02/23/10 15:55	022310A-2	948071
7439-95-4	Magnesium	1630000	ug/Kg	N	25600	90500	90500	2	P	HSC	02/23/10 15:55	022310A-2	948071
7439-96-5	Manganese	378000	ug/Kg	N	302	1510	1510	1	P	HSC	02/17/10 04:09	021610-1	948071
7439-97-6	Mercury	41.4	ug/kg		6.35	18.7	18.7	1	AV	JXL1	02/16/10 10:04	021610S2-5	947650
7440-02-0	Nickel	8.08	mg/kg	*N	0.151	0.606	0.606	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-09-7	Potassium	1490000	ug/Kg	N	9650	37700	37700	1	P	HSC	02/17/10 04:09	021610-1	948071
7782-49-2	Selenium	1.51	mg/kg	U	0.757	1.51	1.51	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-22-4	Silver	1060	ug/Kg		151	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-23-5	Sodium	35700	ug/Kg	J	10600	37700	37700	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-28-0	Thallium	0.139	mg/kg	J	0.0909	0.303	0.303	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-61-1	Uranium	53.8	mg/kg	*	0.02	0.0606	0.0606	2	MS	SKJ	02/19/10 01:11	100218-3	948073
7440-62-2	Vanadium	20000	ug/Kg		151	754	754	1	P	HSC	02/17/10 04:09	021610-1	948071
7440-66-6	Zinc	67200	ug/Kg		498	1510	1510	1	P	HSC	02/17/10 04:09	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.501	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.517	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.515	g	50	mL	02/08/10	FGA

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245806008 **BASIS:** Dry Weight **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8059 **LEVEL:** Low **DATE RECEIVED** 29-JAN-10

MATRIX: SOIL **%SOLIDS:** 92.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1910000	ug/Kg		7130	21000	21000	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-36-0	Antimony	1050	ug/Kg	U*	346	1050	1050	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-38-2	Arsenic	0.845	mg/kg	J	0.211	1.05	1.05	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-39-3	Barium	30500	ug/Kg		105	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-41-7	Beryllium	0.304	mg/kg	*	0.0211	0.105	0.105	2	MS	SKJ	02/19/10 15:16	100219-4	948073
7440-43-9	Cadmium	525	ug/Kg	U	105	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-70-2	Calcium	779000	ug/Kg		8390	26200	26200	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-47-3	Chromium	16300	ug/Kg	*	157	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-48-4	Cobalt	14300	ug/Kg	*	157	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-50-8	Copper	5340	ug/Kg	*N	315	1050	1050	1	P	HSC	02/17/10 04:16	021610-1	948071
7439-89-6	Iron	8500000	ug/Kg		16800	52500	52500	2	P	HSC	02/23/10 17:59	022310A-2	948071
7439-92-1	Lead	6900	ug/Kg	*	525	2100	2100	2	P	HSC	02/23/10 17:59	022310A-2	948071
7439-95-4	Magnesium	386000	ug/Kg	N	17800	62900	62900	2	P	HSC	02/23/10 17:59	022310A-2	948071
7439-96-5	Manganese	221000	ug/Kg	N	210	1050	1050	1	P	HSC	02/17/10 04:16	021610-1	948071
7439-97-6	Mercury	26.5	ug/kg		4.33	12.7	12.7	1	AV	JXL1	02/16/10 10:06	021610S2-5	947650
7440-02-0	Nickel	4.26	mg/kg	*N	0.105	0.421	0.421	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-09-7	Potassium	396000	ug/Kg	N	6710	26200	26200	1	P	HSC	02/17/10 04:16	021610-1	948071
7782-49-2	Selenium	1.05	mg/kg	U	0.527	1.05	1.05	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-22-4	Silver	564	ug/Kg		105	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-23-5	Sodium	145000	ug/Kg		7340	26200	26200	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-28-0	Thallium	0.211	mg/kg	U	0.0632	0.211	0.211	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-61-1	Uranium	0.584	mg/kg	*	0.0139	0.0421	0.0421	2	MS	SKJ	02/19/10 01:15	100218-3	948073
7440-62-2	Vanadium	5440	ug/Kg		105	525	525	1	P	HSC	02/17/10 04:16	021610-1	948071
7440-66-6	Zinc	32800	ug/Kg		346	1050	1050	1	P	HSC	02/17/10 04:16	021610-1	948071

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947650	947648	SW846 7471A Prep	0.508	g	30	mL	02/15/10	TXB3
948071	948070	SW846 3050B	0.514	g	50	mL	02/08/10	FGA
948073	948072	SW846 3050B	0.512	g	50	mL	02/08/10	FGA

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
ICV01										
	Mercury	5.04	ug/L	5	ug/L	100.9	90.0 – 110.0	AV	16-FEB-10 09:01	021610S2-5
	Aluminum	4930	ug/L	5000	ug/L	98.7	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Antimony	514	ug/L	500	ug/L	102.7	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Barium	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Cadmium	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Calcium	4950	ug/L	5000	ug/L	99	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Chromium	475	ug/L	500	ug/L	94.9	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Cobalt	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Copper	490	ug/L	500	ug/L	98	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Manganese	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Potassium	2410	ug/L	2500	ug/L	96.4	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Silver	254	ug/L	250	ug/L	101.5	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Sodium	2490	ug/L	2500	ug/L	99.5	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Vanadium	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Zinc	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	16-FEB-10 12:18	021610-1
	Arsenic	49.4	ug/L	50	ug/L	98.7	90.0 – 110.0	MS	18-FEB-10 23:14	100218-3
	Nickel	52.2	ug/L	50	ug/L	104.3	90.0 – 110.0	MS	18-FEB-10 23:14	100218-3
	Selenium	50.2	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	18-FEB-10 23:14	100218-3
	Thallium	48.4	ug/L	50	ug/L	96.8	90.0 – 110.0	MS	18-FEB-10 23:14	100218-3
	Uranium	52.8	ug/L	50	ug/L	105.6	90.0 – 110.0	MS	18-FEB-10 23:14	100218-3
	Beryllium	52.1	ug/L	50	ug/L	104.2	90.0 – 110.0	MS	19-FEB-10 14:18	100219-4
	Iron	5220	ug/L	5000	ug/L	104.5	90.0 – 110.0	P	23-FEB-10 11:10	022310A-2
	Lead	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	23-FEB-10 11:10	022310A-2
	Magnesium	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	23-FEB-10 11:10	022310A-2
CCV01										
	Mercury	5.12	ug/L	5	ug/L	102.4	80.0 – 120.0	AV	16-FEB-10 09:07	021610S2-5
	Aluminum	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	16-FEB-10 13:04	021610-1
	Antimony	520	ug/L	500	ug/L	104.1	90.0 – 110.0	P	16-FEB-10 13:04	021610-1
	Barium	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	16-FEB-10 13:04	021610-1
	Cadmium	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	16-FEB-10 13:04	021610-1

METALS
–2a–
Initial and Continuing Calibration Verification

SDG No: 10–1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Calcium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Chromium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Cobalt	493	ug/L	500	ug/L	98.5	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Copper	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Manganese	500	ug/L	500	ug/L	100	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Potassium	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Silver	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Sodium	10200	ug/L	10000	ug/L	102.1	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Vanadium	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Zinc	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	16–FEB–10 13:04	021610–1
	Arsenic	47.7	ug/L	50	ug/L	95.4	90.0 – 110.0	MS	18–FEB–10 23:35	100218–3
	Nickel	52	ug/L	50	ug/L	104.1	90.0 – 110.0	MS	18–FEB–10 23:35	100218–3
	Selenium	49.9	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	18–FEB–10 23:35	100218–3
	Thallium	47.3	ug/L	50	ug/L	94.6	90.0 – 110.0	MS	18–FEB–10 23:35	100218–3
	Uranium	51.9	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	18–FEB–10 23:35	100218–3
	Beryllium	50.1	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	19–FEB–10 14:29	100219–4
	Iron	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	23–FEB–10 11:57	022310A–2
	Lead	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	23–FEB–10 11:57	022310A–2
	Magnesium	5410	ug/L	5000	ug/L	108.3	90.0 – 110.0	P	23–FEB–10 11:57	022310A–2
CCV02										
	Mercury	5.26	ug/L	5	ug/L	105.3	80.0 – 120.0	AV	16–FEB–10 09:30	021610S2–5
	Aluminum	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	16–FEB–10 13:26	021610–1
	Antimony	505	ug/L	500	ug/L	101	90.0 – 110.0	P	16–FEB–10 13:26	021610–1
	Barium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	16–FEB–10 13:26	021610–1
	Cadmium	484	ug/L	500	ug/L	96.9	90.0 – 110.0	P	16–FEB–10 13:26	021610–1
	Calcium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	16–FEB–10 13:26	021610–1
	Chromium	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	16–FEB–10 13:26	021610–1
	Cobalt	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	16–FEB–10 13:26	021610–1
	Copper	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	16–FEB–10 13:26	021610–1
	Manganese	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	16–FEB–10 13:26	021610–1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: 1CPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	16-FEB-10 13:26	021610-1
	Silver	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	16-FEB-10 13:26	021610-1
	Sodium	10100	ug/L	10000	ug/L	101.4	90.0 – 110.0	P	16-FEB-10 13:26	021610-1
	Vanadium	499	ug/L	500	ug/L	99.7	90.0 – 110.0	P	16-FEB-10 13:26	021610-1
	Zinc	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	16-FEB-10 13:26	021610-1
	Arsenic	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	18-FEB-10 23:47	100218-3
	Nickel	53	ug/L	50	ug/L	106	90.0 – 110.0	MS	18-FEB-10 23:47	100218-3
	Selenium	52.2	ug/L	50	ug/L	104.4	90.0 – 110.0	MS	18-FEB-10 23:47	100218-3
	Thallium	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	18-FEB-10 23:47	100218-3
	Uranium	54.7	ug/L	50	ug/L	109.4	90.0 – 110.0	MS	18-FEB-10 23:47	100218-3
	Beryllium	50	ug/L	50	ug/L	100	90.0 – 110.0	MS	19-FEB-10 14:38	100219-4
	Iron	4990	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	23-FEB-10 12:25	022310A-2
	Lead	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	23-FEB-10 12:25	022310A-2
	Magnesium	5230	ug/L	5000	ug/L	104.5	90.0 – 110.0	P	23-FEB-10 12:25	022310A-2
CCV03										
	Mercury	5.67	ug/L	5	ug/L	113.4	80.0 – 120.0	AV	16-FEB-10 09:55	021610S2-5
	Aluminum	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Antimony	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Barium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Cadmium	479	ug/L	500	ug/L	95.9	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Calcium	5170	ug/L	5000	ug/L	103.3	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Chromium	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Cobalt	495	ug/L	500	ug/L	99	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Copper	510	ug/L	500	ug/L	102	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Manganese	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Potassium	5370	ug/L	5000	ug/L	107.5	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Silver	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Sodium	12300	ug/L	10000	ug/L	122.7	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Vanadium	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	16-FEB-10 15:01	021610-1
	Zinc	495	ug/L	500	ug/L	98.9	90.0 – 110.0	P	16-FEB-10 15:01	021610-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Arsenic	48.7	ug/L	50	ug/L	97.4	90.0 - 110.0	MS	19-FEB-10 00:04	100218-3
	Nickel	51.3	ug/L	50	ug/L	102.6	90.0 - 110.0	MS	19-FEB-10 00:04	100218-3
	Selenium	49.4	ug/L	50	ug/L	98.8	90.0 - 110.0	MS	19-FEB-10 00:04	100218-3
	Thallium	47.9	ug/L	50	ug/L	95.8	90.0 - 110.0	MS	19-FEB-10 00:04	100218-3
	Uranium	52.8	ug/L	50	ug/L	105.5	90.0 - 110.0	MS	19-FEB-10 00:04	100218-3
	Beryllium	50.4	ug/L	50	ug/L	100.8	90.0 - 110.0	MS	19-FEB-10 14:51	100219-4
	Iron	4970	ug/L	5000	ug/L	99.5	90.0 - 110.0	P	23-FEB-10 13:03	022310A-2
	Lead	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	23-FEB-10 13:03	022310A-2
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	23-FEB-10 13:03	022310A-2
CCV04										
	Mercury	5.57	ug/L	5	ug/L	111.3	80.0 - 120.0	AV	16-FEB-10 10:14	021610S2-5
	Aluminum	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Antimony	513	ug/L	500	ug/L	102.7	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Barium	495	ug/L	500	ug/L	99.1	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Cadmium	485	ug/L	500	ug/L	96.9	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Calcium	5110	ug/L	5000	ug/L	102.1	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Chromium	485	ug/L	500	ug/L	97.1	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Cobalt	496	ug/L	500	ug/L	99.1	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Copper	503	ug/L	500	ug/L	100.7	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Manganese	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Potassium	5320	ug/L	5000	ug/L	106.3	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Silver	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Sodium	11500	ug/L	10000	ug/L	114.7	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Vanadium	495	ug/L	500	ug/L	99.1	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Zinc	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	16-FEB-10 15:21	021610-1
	Arsenic	49.1	ug/L	50	ug/L	98.2	90.0 - 110.0	MS	19-FEB-10 00:33	100218-3
	Nickel	50.9	ug/L	50	ug/L	101.7	90.0 - 110.0	MS	19-FEB-10 00:33	100218-3
	Selenium	50.7	ug/L	50	ug/L	101.4	90.0 - 110.0	MS	19-FEB-10 00:33	100218-3
	Thallium	46.7	ug/L	50	ug/L	93.3	90.0 - 110.0	MS	19-FEB-10 00:33	100218-3
	Uranium	51	ug/L	50	ug/L	101.9	90.0 - 110.0	MS	19-FEB-10 00:33	100218-3

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Beryllium	50.2	ug/L	50	ug/L	100.5	90.0 – 110.0	MS	19-FEB-10 15:05	100219-4
	Iron	5340	ug/L	5000	ug/L	106.7	90.0 – 110.0	P	23-FEB-10 14:04	022310A-2
	Lead	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	23-FEB-10 14:04	022310A-2
	Magnesium	5510	ug/L	5000	ug/L	110.3	90.0 – 110.0	P	23-FEB-10 14:04	022310A-2
CCV05										
	Aluminum	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Antimony	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Barium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Cadmium	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Calcium	4860	ug/L	5000	ug/L	97.1	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Chromium	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Cobalt	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Copper	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Manganese	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Potassium	5020	ug/L	5000	ug/L	100.4	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Silver	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Sodium	11100	ug/L	10000	ug/L	110.8	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Vanadium	486	ug/L	500	ug/L	97.3	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Zinc	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	16-FEB-10 15:39	021610-1
	Arsenic	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	19-FEB-10 00:58	100218-3
	Nickel	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	19-FEB-10 00:58	100218-3
	Selenium	49.4	ug/L	50	ug/L	98.8	90.0 – 110.0	MS	19-FEB-10 00:58	100218-3
	Thallium	45.8	ug/L	50	ug/L	91.6	90.0 – 110.0	MS	19-FEB-10 00:58	100218-3
	Uranium	50.2	ug/L	50	ug/L	100.4	90.0 – 110.0	MS	19-FEB-10 00:58	100218-3
	Beryllium	52.5	ug/L	50	ug/L	105	90.0 – 110.0	MS	19-FEB-10 15:19	100219-4
	Iron	5230	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	23-FEB-10 15:06	022310A-2
	Lead	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	23-FEB-10 15:06	022310A-2
	Magnesium	5320	ug/L	5000	ug/L	106.4	90.0 – 110.0	P	23-FEB-10 15:06	022310A-2
CCV06										
	Aluminum	4960	ug/L	5000	ug/L	99.1	90.0 – 110.0	P	16-FEB-10 16:07	021610-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Antimony	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Barium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Cadmium	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Calcium	4960	ug/L	5000	ug/L	99.2	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Chromium	479	ug/L	500	ug/L	95.7	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Cobalt	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Copper	495	ug/L	500	ug/L	99	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Manganese	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Potassium	5020	ug/L	5000	ug/L	100.4	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Silver	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Sodium	10800	ug/L	10000	ug/L	107.6	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Vanadium	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Zinc	485	ug/L	500	ug/L	97	90.0 – 110.0	P	16-FEB-10 16:07	021610-1
	Arsenic	48.9	ug/L	50	ug/L	97.8	90.0 – 110.0	MS	19-FEB-10 01:19	100218-3
	Nickel	50.8	ug/L	50	ug/L	101.6	90.0 – 110.0	MS	19-FEB-10 01:19	100218-3
	Selenium	49.7	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	19-FEB-10 01:19	100218-3
	Thallium	46.1	ug/L	50	ug/L	92.1	90.0 – 110.0	MS	19-FEB-10 01:19	100218-3
	Uranium	50.6	ug/L	50	ug/L	101.2	90.0 – 110.0	MS	19-FEB-10 01:19	100218-3
	Iron	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	23-FEB-10 16:09	022310A-2
	Lead	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	23-FEB-10 16:09	022310A-2
	Magnesium	5200	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	23-FEB-10 16:09	022310A-2
CCV07										
	Aluminum	4940	ug/L	5000	ug/L	98.8	90.0 – 110.0	P	16-FEB-10 16:40	021610-1
	Antimony	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	16-FEB-10 16:40	021610-1
	Barium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	16-FEB-10 16:40	021610-1
	Cadmium	468	ug/L	500	ug/L	93.5	90.0 – 110.0	P	16-FEB-10 16:40	021610-1
	Calcium	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	16-FEB-10 16:40	021610-1
	Chromium	476	ug/L	500	ug/L	95.1	90.0 – 110.0	P	16-FEB-10 16:40	021610-1
	Cobalt	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	16-FEB-10 16:40	021610-1
	Copper	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	16-FEB-10 16:40	021610-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Manganese	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	16-FEB-10 16:40	021610-1
	Potassium	4970	ug/L	5000	ug/L	99.4	90.0 - 110.0	P	16-FEB-10 16:40	021610-1
	Silver	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	16-FEB-10 16:40	021610-1
	Sodium	10600	ug/L	10000	ug/L	106.3	90.0 - 110.0	P	16-FEB-10 16:40	021610-1
	Vanadium	485	ug/L	500	ug/L	97.1	90.0 - 110.0	P	16-FEB-10 16:40	021610-1
	Zinc	484	ug/L	500	ug/L	96.8	90.0 - 110.0	P	16-FEB-10 16:40	021610-1
	Iron	5030	ug/L	5000	ug/L	100.7	90.0 - 110.0	P	23-FEB-10 16:57	022310A-2
	Lead	517	ug/L	500	ug/L	103.5	90.0 - 110.0	P	23-FEB-10 16:57	022310A-2
	Magnesium	5200	ug/L	5000	ug/L	104.1	90.0 - 110.0	P	23-FEB-10 16:57	022310A-2
CCV08										
	Aluminum	4910	ug/L	5000	ug/L	98.2	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Antimony	497	ug/L	500	ug/L	99.4	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Barium	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Cadmium	478	ug/L	500	ug/L	95.5	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Calcium	4850	ug/L	5000	ug/L	97	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Chromium	475	ug/L	500	ug/L	95.1	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Cobalt	490	ug/L	500	ug/L	98.1	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Copper	499	ug/L	500	ug/L	99.9	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Manganese	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Potassium	4920	ug/L	5000	ug/L	98.3	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Silver	496	ug/L	500	ug/L	99.1	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Sodium	10300	ug/L	10000	ug/L	103.5	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Vanadium	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Zinc	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	16-FEB-10 17:42	021610-1
	Iron	5120	ug/L	5000	ug/L	102.4	90.0 - 110.0	P	23-FEB-10 17:25	022310A-2
	Lead	516	ug/L	500	ug/L	103.1	90.0 - 110.0	P	23-FEB-10 17:25	022310A-2
	Magnesium	5320	ug/L	5000	ug/L	106.3	90.0 - 110.0	P	23-FEB-10 17:25	022310A-2
CCV09										
	Aluminum	4830	ug/L	5000	ug/L	96.7	90.0 - 110.0	P	16-FEB-10 18:44	021610-1
	Antimony	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	16-FEB-10 18:44	021610-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Barium	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Cadmium	472	ug/L	500	ug/L	94.4	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Calcium	4780	ug/L	5000	ug/L	95.7	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Chromium	471	ug/L	500	ug/L	94.1	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Cobalt	485	ug/L	500	ug/L	97	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Copper	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Manganese	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Potassium	4810	ug/L	5000	ug/L	96.2	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Silver	490	ug/L	500	ug/L	98.1	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Sodium	10200	ug/L	10000	ug/L	101.9	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Vanadium	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Zinc	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	16-FEB-10 18:44	021610-1
	Iron	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	23-FEB-10 18:40	022310A-2
	Lead	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	23-FEB-10 18:40	022310A-2
	Magnesium	5400	ug/L	5000	ug/L	108	90.0 – 110.0	P	23-FEB-10 18:40	022310A-2
CCV10										
	Aluminum	4900	ug/L	5000	ug/L	97.9	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Antimony	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Barium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Cadmium	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Calcium	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Chromium	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Cobalt	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Copper	500	ug/L	500	ug/L	100	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Manganese	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Potassium	4880	ug/L	5000	ug/L	97.6	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Silver	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Sodium	10300	ug/L	10000	ug/L	103.5	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Vanadium	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	16-FEB-10 19:41	021610-1
	Zinc	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	16-FEB-10 19:41	021610-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Iron	5190	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	23-FEB-10 19:55	022310A-2
	Lead	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	23-FEB-10 19:55	022310A-2
	Magnesium	5320	ug/L	5000	ug/L	106.4	90.0 – 110.0	P	23-FEB-10 19:55	022310A-2
CCV11										
	Aluminum	5000	ug/L	5000	ug/L	100.1	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Antimony	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Barium	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Cadmium	473	ug/L	500	ug/L	94.5	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Calcium	5060	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Chromium	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Cobalt	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Copper	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Manganese	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Potassium	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Silver	490	ug/L	500	ug/L	98	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Sodium	10700	ug/L	10000	ug/L	107.1	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Vanadium	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Zinc	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	16-FEB-10 20:57	021610-1
	Iron	4980	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	23-FEB-10 21:12	022310A-2
	Lead	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	23-FEB-10 21:12	022310A-2
	Magnesium	5330	ug/L	5000	ug/L	106.6	90.0 – 110.0	P	23-FEB-10 21:12	022310A-2
CCV12										
	Aluminum	5050	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Antimony	500	ug/L	500	ug/L	100	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Barium	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Cadmium	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Calcium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Chromium	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Cobalt	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Copper	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	16-FEB-10 22:07	021610-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Manganese	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Potassium	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Silver	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Sodium	10900	ug/L	10000	ug/L	109.3	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Vanadium	490	ug/L	500	ug/L	98.1	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Zinc	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	16-FEB-10 22:07	021610-1
	Iron	5170	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	23-FEB-10 22:21	022310A-2
	Lead	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	23-FEB-10 22:21	022310A-2
	Magnesium	5510	ug/L	5000	ug/L	110.2	90.0 – 110.0	P	23-FEB-10 22:21	022310A-2
CCV13										
	Aluminum	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Antimony	516	ug/L	500	ug/L	103.1	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Barium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Cadmium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Calcium	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Chromium	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Cobalt	515	ug/L	500	ug/L	103.1	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Copper	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Manganese	519	ug/L	500	ug/L	103.7	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Potassium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Silver	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Sodium	10800	ug/L	10000	ug/L	108.5	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Vanadium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Zinc	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	16-FEB-10 23:16	021610-1
	Iron	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	23-FEB-10 23:09	022310A-2
	Lead	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	23-FEB-10 23:09	022310A-2
	Magnesium	5570	ug/L	5000	ug/L	111.4	90.0 – 110.0	P	23-FEB-10 23:09	022310A-2
CCV14										
	Aluminum	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Antimony	515	ug/L	500	ug/L	103	90.0 – 110.0	P	17-FEB-10 00:18	021610-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Barium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Cadmium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Calcium	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Chromium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Cobalt	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Copper	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Manganese	520	ug/L	500	ug/L	104.1	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Potassium	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Silver	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Sodium	10200	ug/L	10000	ug/L	102.3	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Vanadium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	17-FEB-10 00:18	021610-1
	Iron	5210	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	24-FEB-10 00:05	022310A-2
	Lead	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	24-FEB-10 00:05	022310A-2
	Magnesium	5520	ug/L	5000	ug/L	110.5	90.0 – 110.0	P	24-FEB-10 00:05	022310A-2
CCV15										
	Aluminum	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Antimony	520	ug/L	500	ug/L	104	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Barium	517	ug/L	500	ug/L	103.3	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Cadmium	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Calcium	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Chromium	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Cobalt	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Copper	518	ug/L	500	ug/L	103.7	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Manganese	519	ug/L	500	ug/L	103.9	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Potassium	5250	ug/L	5000	ug/L	105.1	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Silver	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Sodium	10300	ug/L	10000	ug/L	103.5	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Vanadium	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	17-FEB-10 01:21	021610-1
	Zinc	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	17-FEB-10 01:21	021610-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Iron	5440	ug/L	5000	ug/L	108.8	90.0 - 110.0	P	24-FEB-10 01:06	022310A-2
	Lead	520	ug/L	500	ug/L	104	90.0 - 110.0	P	24-FEB-10 01:06	022310A-2
	Magnesium	5590	ug/L	5000	ug/L	111.9	90.0 - 110.0	P	24-FEB-10 01:06	022310A-2
CCV16										
	Aluminum	5110	ug/L	5000	ug/L	102.2	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Antimony	520	ug/L	500	ug/L	103.9	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Barium	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Cadmium	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Calcium	5130	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Chromium	497	ug/L	500	ug/L	99.4	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Cobalt	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Copper	517	ug/L	500	ug/L	103.3	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Manganese	523	ug/L	500	ug/L	104.5	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Silver	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Sodium	9960	ug/L	10000	ug/L	99.6	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Vanadium	503	ug/L	500	ug/L	100.7	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Zinc	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	17-FEB-10 02:18	021610-1
	Iron	5480	ug/L	5000	ug/L	109.6	90.0 - 110.0	P	24-FEB-10 02:22	022310A-2
	Lead	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	24-FEB-10 02:22	022310A-2
	Magnesium	5680	ug/L	5000	ug/L	113.7	90.0 - 110.0	P	24-FEB-10 02:22	022310A-2
CCV17										
	Aluminum	5320	ug/L	5000	ug/L	106.4	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Antimony	519	ug/L	500	ug/L	103.7	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Barium	512	ug/L	500	ug/L	102.3	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Cadmium	490	ug/L	500	ug/L	98.1	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Calcium	5310	ug/L	5000	ug/L	106.1	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Chromium	501	ug/L	500	ug/L	100.2	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Cobalt	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Copper	520	ug/L	500	ug/L	104	90.0 - 110.0	P	17-FEB-10 03:20	021610-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Manganese	521	ug/L	500	ug/L	104.1	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Potassium	5230	ug/L	5000	ug/L	104.5	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Silver	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Sodium	10000	ug/L	10000	ug/L	100.4	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Vanadium	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Zinc	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	17-FEB-10 03:20	021610-1
	Iron	5330	ug/L	5000	ug/L	106.6	90.0 - 110.0	P	24-FEB-10 03:23	022310A-2
	Lead	530	ug/L	500	ug/L	106	90.0 - 110.0	P	24-FEB-10 03:23	022310A-2
	Magnesium	5410	ug/L	5000	ug/L	108.2	90.0 - 110.0	P	24-FEB-10 03:23	022310A-2
CCV18										
	Aluminum	5260	ug/L	5000	ug/L	105.3	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Antimony	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Barium	512	ug/L	500	ug/L	102.5	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Cadmium	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Calcium	5330	ug/L	5000	ug/L	106.5	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Cobalt	515	ug/L	500	ug/L	102.9	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Copper	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Manganese	522	ug/L	500	ug/L	104.4	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Potassium	5140	ug/L	5000	ug/L	102.8	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Silver	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Sodium	10400	ug/L	10000	ug/L	103.9	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Vanadium	508	ug/L	500	ug/L	101.6	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Zinc	508	ug/L	500	ug/L	101.6	90.0 - 110.0	P	17-FEB-10 04:23	021610-1
	Iron	5440	ug/L	5000	ug/L	108.9	90.0 - 110.0	P	24-FEB-10 04:33	022310A-2
	Lead	526	ug/L	500	ug/L	105.2	90.0 - 110.0	P	24-FEB-10 04:33	022310A-2
	Magnesium	5630	ug/L	5000	ug/L	112.5	90.0 - 110.0	P	24-FEB-10 04:33	022310A-2
CCV19										
	Iron	5110	ug/L	5000	ug/L	102.2	90.0 - 110.0	P	24-FEB-10 05:51	022310A-2
	Lead	510	ug/L	500	ug/L	101.9	90.0 - 110.0	P	24-FEB-10 05:51	022310A-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Magnesium	5310	ug/L	5000	ug/L	106.3	90.0 – 110.0	P	24-FEB-10 05:51	022310A-2
CCV20										
	Iron	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	24-FEB-10 06:17	022310A-2
	Lead	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	24-FEB-10 06:17	022310A-2
	Magnesium	5280	ug/L	5000	ug/L	105.7	90.0 – 110.0	P	24-FEB-10 06:17	022310A-2
CCV21										
	Iron	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	24-FEB-10 07:41	022310A-2
	Lead	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	24-FEB-10 07:41	022310A-2
	Magnesium	5430	ug/L	5000	ug/L	108.6	90.0 – 110.0	P	24-FEB-10 07:41	022310A-2
CCV22										
	Iron	5260	ug/L	5000	ug/L	105.1	90.0 – 110.0	P	24-FEB-10 08:55	022310A-2
	Lead	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	24-FEB-10 08:55	022310A-2
	Magnesium	5380	ug/L	5000	ug/L	107.7	90.0 – 110.0	P	24-FEB-10 08:55	022310A-2

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS4,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M	Analysis Date/Time	Run Number
CRDL01										
	Mercury	.255	ug/L	.2	ug/L	127.4	70.0 – 130.0	AV	16-FEB-10 09:05	021610S2-5
	Nickel	2.29	ug/L	2	ug/L	114.3	70.0 – 130.0	MS	18-FEB-10 23:23	100218-3
	Thallium	1.12	ug/L	1	ug/L	112.3	70.0 – 130.0	MS	18-FEB-10 23:23	100218-3
	Selenium	5.91	ug/L	5	ug/L	118.2	70.0 – 130.0	MS	18-FEB-10 23:23	100218-3
	Uranium	.229	ug/L	.2	ug/L	114.5	70.0 – 130.0	MS	18-FEB-10 23:23	100218-3
	Arsenic	5.99	ug/L	5	ug/L	119.8	70.0 – 130.0	MS	18-FEB-10 23:23	100218-3
	Beryllium	.496	ug/L	.5	ug/L	99.2	70.0 – 130.0	MS	19-FEB-10 14:22	100219-4
PQL01										
	Aluminum	216	ug/L	200	ug/L	107.9	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Manganese	10.3	ug/L	10	ug/L	103	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Potassium	141	ug/L	150	ug/L	94	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Sodium	304	ug/L	300	ug/L	101.3	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Barium	5.07	ug/L	5	ug/L	101.4	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Chromium	3.95	ug/L	5	ug/L	79.1	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Copper	10	ug/L	10	ug/L	100.3	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Zinc	10.2	ug/L	10	ug/L	101.9	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Calcium	206	ug/L	200	ug/L	103.1	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Vanadium	4.75	ug/L	5	ug/L	94.9	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Cobalt	4.75	ug/L	5	ug/L	95	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Cadmium	4.77	ug/L	5	ug/L	95.4	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Antimony	9.77	ug/L	10	ug/L	97.7	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Silver	4.92	ug/L	5	ug/L	98.3	70.0 – 130.0	P	16-FEB-10 12:32	021610-1
	Magnesium	244	ug/L	300	ug/L	81.2	70.0 – 130.0	P	23-FEB-10 11:23	022310A-2
	Iron	114	ug/L	100	ug/L	114.3	70.0 – 130.0	P	23-FEB-10 11:23	022310A-2
	Lead	11.4	ug/L	10	ug/L	113.9	70.0 – 130.0	P	23-FEB-10 11:23	022310A-2

Metals
–3a–
Initial and Continuing Calibration Blank Summary

SDG No.: 10–1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
ICB01										
	Mercury	0.068	+/–.2	U	0.068	0.2	SOL	AV	16–FEB–10 09:03	021610S2–5
	Aluminum	68.0	+/–200	U	68.0	200	SOL	P	16–FEB–10 12:25	021610–1
	Antimony	4.65	+/–10	J	3.3	10.0	SOL	P	16–FEB–10 12:25	021610–1
	Barium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 12:25	021610–1
	Cadmium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 12:25	021610–1
	Calcium	80.0	+/–250	U	80.0	250	SOL	P	16–FEB–10 12:25	021610–1
	Chromium	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 12:25	021610–1
	Cobalt	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 12:25	021610–1
	Copper	3.0	+/–10	U	3.0	10.0	SOL	P	16–FEB–10 12:25	021610–1
	Manganese	2.0	+/–10	U	2.0	10.0	SOL	P	16–FEB–10 12:25	021610–1
	Potassium	64.0	+/–250	U	64.0	250	SOL	P	16–FEB–10 12:25	021610–1
	Silver	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 12:25	021610–1
	Sodium	70.0	+/–250	U	70.0	250	SOL	P	16–FEB–10 12:25	021610–1
	Vanadium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 12:25	021610–1
	Zinc	3.3	+/–10	U	3.3	10.0	SOL	P	16–FEB–10 12:25	021610–1
	Arsenic	1.0	+/–5	U	1.0	5.0	SOL	MS	18–FEB–10 23:18	100218–3
	Nickel	0.5	+/–2	U	0.5	2.0	SOL	MS	18–FEB–10 23:18	100218–3
	Selenium	2.5	+/–5	U	2.5	5.0	SOL	MS	18–FEB–10 23:18	100218–3
	Thallium	0.3	+/–1	U	0.3	1.0	SOL	MS	18–FEB–10 23:18	100218–3
	Uranium	0.066	+/–.2	U	0.066	0.2	SOL	MS	18–FEB–10 23:18	100218–3
	Beryllium	0.1	+/–.5	U	0.1	0.5	SOL	MS	19–FEB–10 14:20	100219–4
	Iron	80.0	+/–250	U	80.0	250	SOL	P	23–FEB–10 11:17	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	23–FEB–10 11:17	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	23–FEB–10 11:17	022310A–2
CCB01										
	Mercury	0.068	+/–.2	U	0.068	0.2	SOL	AV	16–FEB–10 09:09	021610S2–5
	Aluminum	68.0	+/–200	U	68.0	200	SOL	P	16–FEB–10 13:11	021610–1
	Antimony	4.45	+/–10	J	3.3	10.0	SOL	P	16–FEB–10 13:11	021610–1
	Barium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 13:11	021610–1
	Cadmium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 13:11	021610–1
	Calcium	80.0	+/–250	U	80.0	250	SOL	P	16–FEB–10 13:11	021610–1

Metals
–3a–
Initial and Continuing Calibration Blank Summary

SDG No.: 10–1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Chromium	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 13:11	021610–1
	Cobalt	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 13:11	021610–1
	Copper	3.0	+/–10	U	3.0	10.0	SOL	P	16–FEB–10 13:11	021610–1
	Manganese	2.0	+/–10	U	2.0	10.0	SOL	P	16–FEB–10 13:11	021610–1
	Potassium	90.9	+/–250	J	64.0	250	SOL	P	16–FEB–10 13:11	021610–1
	Silver	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 13:11	021610–1
	Sodium	70.0	+/–250	U	70.0	250	SOL	P	16–FEB–10 13:11	021610–1
	Vanadium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 13:11	021610–1
	Zinc	3.3	+/–10	U	3.3	10.0	SOL	P	16–FEB–10 13:11	021610–1
	Arsenic	1.0	+/–5	U	1.0	5.0	SOL	MS	18–FEB–10 23:39	100218–3
	Nickel	0.5	+/–2	U	0.5	2.0	SOL	MS	18–FEB–10 23:39	100218–3
	Selenium	2.5	+/–5	U	2.5	5.0	SOL	MS	18–FEB–10 23:39	100218–3
	Thallium	0.3	+/–1	U	0.3	1.0	SOL	MS	18–FEB–10 23:39	100218–3
	Uranium	0.066	+/–.2	U	0.066	0.2	SOL	MS	18–FEB–10 23:39	100218–3
	Beryllium	0.1	+/–.5	U	0.1	0.5	SOL	MS	19–FEB–10 14:31	100219–4
	Iron	80.0	+/–250	U	80.0	250	SOL	P	23–FEB–10 12:04	022310A–2
	Lead	6.01	+/–10	J	2.5	10.0	SOL	P	23–FEB–10 12:04	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	23–FEB–10 12:04	022310A–2
CCB02										
	Mercury	0.068	+/–.2	U	0.068	0.2	SOL	AV	16–FEB–10 09:33	021610S2–5
	Aluminum	68.0	+/–200	U	68.0	200	SOL	P	16–FEB–10 13:33	021610–1
	Antimony	5.52	+/–10	J	3.3	10.0	SOL	P	16–FEB–10 13:33	021610–1
	Barium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 13:33	021610–1
	Cadmium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 13:33	021610–1
	Calcium	80.0	+/–250	U	80.0	250	SOL	P	16–FEB–10 13:33	021610–1
	Chromium	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 13:33	021610–1
	Cobalt	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 13:33	021610–1
	Copper	3.0	+/–10	U	3.0	10.0	SOL	P	16–FEB–10 13:33	021610–1
	Manganese	2.0	+/–10	U	2.0	10.0	SOL	P	16–FEB–10 13:33	021610–1
	Potassium	64.0	+/–250	U	64.0	250	SOL	P	16–FEB–10 13:33	021610–1
	Silver	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 13:33	021610–1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Sodium	-74.7	+/-250	J	70.0	250	SOL	P	16-FEB-10 13:33	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 13:33	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 13:33	021610-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	18-FEB-10 23:51	100218-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	18-FEB-10 23:51	100218-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	18-FEB-10 23:51	100218-3
	Thallium	0.35	+/-1	J	0.3	1.0	SOL	MS	18-FEB-10 23:51	100218-3
	Uranium	0.19	+/-.2	J	0.066	0.2	SOL	MS	18-FEB-10 23:51	100218-3
	Beryllium	0.1	+/-.5	U	0.1	0.5	SOL	MS	19-FEB-10 14:40	100219-4
	Iron	80.0	+/-250	U	80.0	250	SOL	P	23-FEB-10 12:32	022310A-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	23-FEB-10 12:32	022310A-2
	Magnesium	-99.39	+/-300	J	85.0	300	SOL	P	23-FEB-10 12:32	022310A-2
CCB03										
	Mercury	0.068	+/-.2	U	0.068	0.2	SOL	AV	16-FEB-10 09:57	021610S2-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-FEB-10 15:08	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 15:08	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 15:08	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 15:08	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-FEB-10 15:08	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 15:08	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 15:08	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-FEB-10 15:08	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-FEB-10 15:08	021610-1
	Potassium	280.55	+/-250		64.0	250	SOL	P	16-FEB-10 15:08	021610-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 15:08	021610-1
	Sodium	1039.7	+/-250		70.0	250	SOL	P	16-FEB-10 15:08	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 15:08	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 15:08	021610-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	19-FEB-10 00:08	100218-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	19-FEB-10 00:08	100218-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	19-FEB-10 00:08	100218-3

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10–1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Thallium	0.304	+/–1	J	0.3	1.0	SOL	MS	19–FEB–10 00:08	100218–3
	Uranium	0.066	+/–.2	U	0.066	0.2	SOL	MS	19–FEB–10 00:08	100218–3
	Beryllium	0.1	+/–.5	U	0.1	0.5	SOL	MS	19–FEB–10 14:54	100219–4
	Iron	80.0	+/–250	U	80.0	250	SOL	P	23–FEB–10 13:10	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	23–FEB–10 13:10	022310A–2
	Magnesium	–89.25	+/–300	J	85.0	300	SOL	P	23–FEB–10 13:10	022310A–2
CCB04										
	Mercury	0.094	+/–.2	J	0.068	0.2	SOL	AV	16–FEB–10 10:16	021610S2–5
	Aluminum	68.0	+/–200	U	68.0	200	SOL	P	16–FEB–10 15:28	021610–1
	Antimony	3.3	+/–10	U	3.3	10.0	SOL	P	16–FEB–10 15:28	021610–1
	Barium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 15:28	021610–1
	Cadmium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 15:28	021610–1
	Calcium	80.0	+/–250	U	80.0	250	SOL	P	16–FEB–10 15:28	021610–1
	Chromium	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 15:28	021610–1
	Cobalt	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 15:28	021610–1
	Copper	3.0	+/–10	U	3.0	10.0	SOL	P	16–FEB–10 15:28	021610–1
	Manganese	2.0	+/–10	U	2.0	10.0	SOL	P	16–FEB–10 15:28	021610–1
	Potassium	179.55	+/–250	J	64.0	250	SOL	P	16–FEB–10 15:28	021610–1
	Silver	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 15:28	021610–1
	Sodium	788.45	+/–250		70.0	250	SOL	P	16–FEB–10 15:28	021610–1
	Vanadium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 15:28	021610–1
	Zinc	3.3	+/–10	U	3.3	10.0	SOL	P	16–FEB–10 15:28	021610–1
	Arsenic	1.0	+/–5	U	1.0	5.0	SOL	MS	19–FEB–10 00:37	100218–3
	Nickel	0.5	+/–2	U	0.5	2.0	SOL	MS	19–FEB–10 00:37	100218–3
	Selenium	2.5	+/–5	U	2.5	5.0	SOL	MS	19–FEB–10 00:37	100218–3
	Thallium	0.3	+/–1	U	0.3	1.0	SOL	MS	19–FEB–10 00:37	100218–3
	Uranium	0.066	+/–.2	U	0.066	0.2	SOL	MS	19–FEB–10 00:37	100218–3
	Beryllium	0.1	+/–.5	U	0.1	0.5	SOL	MS	19–FEB–10 15:07	100219–4
	Iron	80.0	+/–250	U	80.0	250	SOL	P	23–FEB–10 14:11	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	23–FEB–10 14:11	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	23–FEB–10 14:11	022310A–2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
CCB05										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-FEB-10 15:46	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 15:46	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 15:46	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 15:46	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-FEB-10 15:46	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 15:46	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 15:46	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-FEB-10 15:46	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-FEB-10 15:46	021610-1
	Potassium	145.12	+/-250	J	64.0	250	SOL	P	16-FEB-10 15:46	021610-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 15:46	021610-1
	Sodium	619.07	+/-250		70.0	250	SOL	P	16-FEB-10 15:46	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 15:46	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 15:46	021610-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	19-FEB-10 01:02	100218-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	19-FEB-10 01:02	100218-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	19-FEB-10 01:02	100218-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	19-FEB-10 01:02	100218-3
	Uranium	0.066	+/-.2	U	0.066	0.2	SOL	MS	19-FEB-10 01:02	100218-3
	Beryllium	0.1	+/-.5	U	0.1	0.5	SOL	MS	19-FEB-10 15:21	100219-4
	Iron	80.0	+/-250	U	80.0	250	SOL	P	23-FEB-10 15:13	022310A-2
	Lead	2.65	+/-10	J	2.5	10.0	SOL	P	23-FEB-10 15:13	022310A-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	23-FEB-10 15:13	022310A-2
CCB06										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-FEB-10 16:14	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 16:14	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 16:14	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 16:14	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-FEB-10 16:14	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 16:14	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 16:14	021610-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-FEB-10 16:14	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-FEB-10 16:14	021610-1
	Potassium	93.45	+/-250	J	64.0	250	SOL	P	16-FEB-10 16:14	021610-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 16:14	021610-1
	Sodium	617.67	+/-250		70.0	250	SOL	P	16-FEB-10 16:14	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 16:14	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 16:14	021610-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	19-FEB-10 01:23	100218-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	19-FEB-10 01:23	100218-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	19-FEB-10 01:23	100218-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	19-FEB-10 01:23	100218-3
	Uranium	0.066	+/-.2	U	0.066	0.2	SOL	MS	19-FEB-10 01:23	100218-3
	Iron	80.0	+/-250	U	80.0	250	SOL	P	23-FEB-10 16:16	022310A-2
	Lead	21.3	+/-10		2.5	10.0	SOL	P	23-FEB-10 16:16	022310A-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	23-FEB-10 16:16	022310A-2
CCB07										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-FEB-10 16:47	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 16:47	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 16:47	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 16:47	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-FEB-10 16:47	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 16:47	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 16:47	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-FEB-10 16:47	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-FEB-10 16:47	021610-1
	Potassium	69.32	+/-250	J	64.0	250	SOL	P	16-FEB-10 16:47	021610-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 16:47	021610-1
	Sodium	431.15	+/-250		70.0	250	SOL	P	16-FEB-10 16:47	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 16:47	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 16:47	021610-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	23-FEB-10 17:04	022310A-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Lead	11.76	+/-10		2.5	10.0	SOL	P	23-FEB-10 17:04	022310A-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	23-FEB-10 17:04	022310A-2
CCB08										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-FEB-10 17:49	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 17:49	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 17:49	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 17:49	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-FEB-10 17:49	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 17:49	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 17:49	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-FEB-10 17:49	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-FEB-10 17:49	021610-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-FEB-10 17:49	021610-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 17:49	021610-1
	Sodium	370.72	+/-250		70.0	250	SOL	P	16-FEB-10 17:49	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 17:49	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 17:49	021610-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	23-FEB-10 17:32	022310A-2
	Lead	8.75	+/-10	J	2.5	10.0	SOL	P	23-FEB-10 17:32	022310A-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	23-FEB-10 17:32	022310A-2
CCB09										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-FEB-10 18:51	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 18:51	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 18:51	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 18:51	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-FEB-10 18:51	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 18:51	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 18:51	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-FEB-10 18:51	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-FEB-10 18:51	021610-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-FEB-10 18:51	021610-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 18:51	021610-1
	Sodium	325.41	+/-250		70.0	250	SOL	P	16-FEB-10 18:51	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 18:51	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 18:51	021610-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	23-FEB-10 18:47	022310A-2
	Lead	6.19	+/-10	J	2.5	10.0	SOL	P	23-FEB-10 18:47	022310A-2
	Magnesium	-124.45	+/-300	J	85.0	300	SOL	P	23-FEB-10 18:47	022310A-2
CCB10										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-FEB-10 19:48	021610-1
	Antimony	4.46	+/-10	J	3.3	10.0	SOL	P	16-FEB-10 19:48	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 19:48	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 19:48	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-FEB-10 19:48	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 19:48	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 19:48	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-FEB-10 19:48	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-FEB-10 19:48	021610-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-FEB-10 19:48	021610-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 19:48	021610-1
	Sodium	241.85	+/-250	J	70.0	250	SOL	P	16-FEB-10 19:48	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 19:48	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 19:48	021610-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	23-FEB-10 20:02	022310A-2
	Lead	3.5	+/-10	J	2.5	10.0	SOL	P	23-FEB-10 20:02	022310A-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	23-FEB-10 20:02	022310A-2
CCB11										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-FEB-10 21:04	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 21:04	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 21:04	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 21:04	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-FEB-10 21:04	021610-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10–1474

Contract: LANL01004 **Lab Code: GEL**

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Chromium	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 21:04	021610–1
	Cobalt	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 21:04	021610–1
	Copper	3.0	+/–10	U	3.0	10.0	SOL	P	16–FEB–10 21:04	021610–1
	Manganese	2.0	+/–10	U	2.0	10.0	SOL	P	16–FEB–10 21:04	021610–1
	Potassium	64.0	+/–250	U	64.0	250	SOL	P	16–FEB–10 21:04	021610–1
	Silver	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 21:04	021610–1
	Sodium	70.0	+/–250	U	70.0	250	SOL	P	16–FEB–10 21:04	021610–1
	Vanadium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 21:04	021610–1
	Zinc	3.3	+/–10	U	3.3	10.0	SOL	P	16–FEB–10 21:04	021610–1
	Iron	80.0	+/–250	U	80.0	250	SOL	P	23–FEB–10 21:19	022310A–2
	Lead	3.34	+/–10	J	2.5	10.0	SOL	P	23–FEB–10 21:19	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	23–FEB–10 21:19	022310A–2
CCB12										
	Aluminum	68.0	+/–200	U	68.0	200	SOL	P	16–FEB–10 22:14	021610–1
	Antimony	3.35	+/–10	J	3.3	10.0	SOL	P	16–FEB–10 22:14	021610–1
	Barium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 22:14	021610–1
	Cadmium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 22:14	021610–1
	Calcium	80.0	+/–250	U	80.0	250	SOL	P	16–FEB–10 22:14	021610–1
	Chromium	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 22:14	021610–1
	Cobalt	1.5	+/–5	U	1.5	5.0	SOL	P	16–FEB–10 22:14	021610–1
	Copper	3.0	+/–10	U	3.0	10.0	SOL	P	16–FEB–10 22:14	021610–1
	Manganese	2.0	+/–10	U	2.0	10.0	SOL	P	16–FEB–10 22:14	021610–1
	Potassium	64.0	+/–250	U	64.0	250	SOL	P	16–FEB–10 22:14	021610–1
	Silver	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 22:14	021610–1
	Sodium	70.0	+/–250	U	70.0	250	SOL	P	16–FEB–10 22:14	021610–1
	Vanadium	1.0	+/–5	U	1.0	5.0	SOL	P	16–FEB–10 22:14	021610–1
	Zinc	3.3	+/–10	U	3.3	10.0	SOL	P	16–FEB–10 22:14	021610–1
	Iron	80.0	+/–250	U	80.0	250	SOL	P	23–FEB–10 22:28	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	23–FEB–10 22:28	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	23–FEB–10 22:28	022310A–2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
CCB13										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-FEB-10 23:23	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 23:23	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 23:23	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 23:23	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-FEB-10 23:23	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 23:23	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-FEB-10 23:23	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-FEB-10 23:23	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-FEB-10 23:23	021610-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-FEB-10 23:23	021610-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 23:23	021610-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	16-FEB-10 23:23	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-FEB-10 23:23	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-FEB-10 23:23	021610-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	23-FEB-10 23:16	022310A-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	23-FEB-10 23:16	022310A-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	23-FEB-10 23:16	022310A-2
CCB14										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-FEB-10 00:25	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	17-FEB-10 00:25	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 00:25	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 00:25	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-FEB-10 00:25	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-FEB-10 00:25	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-FEB-10 00:25	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-FEB-10 00:25	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	17-FEB-10 00:25	021610-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	17-FEB-10 00:25	021610-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 00:25	021610-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-FEB-10 00:25	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 00:25	021610-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	17-FEB-10 00:25	021610-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	24-FEB-10 00:12	022310A-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	24-FEB-10 00:12	022310A-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	24-FEB-10 00:12	022310A-2
CCB15										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-FEB-10 01:28	021610-1
	Antimony	3.92	+/-10	J	3.3	10.0	SOL	P	17-FEB-10 01:28	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 01:28	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 01:28	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-FEB-10 01:28	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-FEB-10 01:28	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-FEB-10 01:28	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-FEB-10 01:28	021610-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	17-FEB-10 01:28	021610-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	17-FEB-10 01:28	021610-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 01:28	021610-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-FEB-10 01:28	021610-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 01:28	021610-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	17-FEB-10 01:28	021610-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	24-FEB-10 01:13	022310A-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	24-FEB-10 01:13	022310A-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	24-FEB-10 01:13	022310A-2
CCB16										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-FEB-10 02:25	021610-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	17-FEB-10 02:25	021610-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 02:25	021610-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-FEB-10 02:25	021610-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-FEB-10 02:25	021610-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-FEB-10 02:25	021610-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-FEB-10 02:25	021610-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-FEB-10 02:25	021610-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10–1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Manganese	2.0	+/–10	U	2.0	10.0	SOL	P	17–FEB–10 02:25	021610–1
	Potassium	64.0	+/–250	U	64.0	250	SOL	P	17–FEB–10 02:25	021610–1
	Silver	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 02:25	021610–1
	Sodium	112.28	+/–250	J	70.0	250	SOL	P	17–FEB–10 02:25	021610–1
	Vanadium	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 02:25	021610–1
	Zinc	3.3	+/–10	U	3.3	10.0	SOL	P	17–FEB–10 02:25	021610–1
	Iron	80.0	+/–250	U	80.0	250	SOL	P	24–FEB–10 02:29	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	24–FEB–10 02:29	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	24–FEB–10 02:29	022310A–2
CCB17										
	Aluminum	68.0	+/–200	U	68.0	200	SOL	P	17–FEB–10 03:27	021610–1
	Antimony	3.3	+/–10	U	3.3	10.0	SOL	P	17–FEB–10 03:27	021610–1
	Barium	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 03:27	021610–1
	Cadmium	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 03:27	021610–1
	Calcium	80.0	+/–250	U	80.0	250	SOL	P	17–FEB–10 03:27	021610–1
	Chromium	1.5	+/–5	U	1.5	5.0	SOL	P	17–FEB–10 03:27	021610–1
	Cobalt	1.5	+/–5	U	1.5	5.0	SOL	P	17–FEB–10 03:27	021610–1
	Copper	3.0	+/–10	U	3.0	10.0	SOL	P	17–FEB–10 03:27	021610–1
	Manganese	2.0	+/–10	U	2.0	10.0	SOL	P	17–FEB–10 03:27	021610–1
	Potassium	64.0	+/–250	U	64.0	250	SOL	P	17–FEB–10 03:27	021610–1
	Silver	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 03:27	021610–1
	Sodium	–106.66	+/–250	J	70.0	250	SOL	P	17–FEB–10 03:27	021610–1
	Vanadium	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 03:27	021610–1
	Zinc	3.3	+/–10	U	3.3	10.0	SOL	P	17–FEB–10 03:27	021610–1
	Iron	80.0	+/–250	U	80.0	250	SOL	P	24–FEB–10 03:31	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	24–FEB–10 03:31	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	24–FEB–10 03:31	022310A–2
CCB18										
	Aluminum	68.0	+/–200	U	68.0	200	SOL	P	17–FEB–10 04:30	021610–1
	Antimony	3.3	+/–10	U	3.3	10.0	SOL	P	17–FEB–10 04:30	021610–1
	Barium	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 04:30	021610–1

Metals
–3a–
Initial and Continuing Calibration Blank Summary

SDG No.: 10–1474

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Cadmium	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 04:30	021610–1
	Calcium	80.0	+/–250	U	80.0	250	SOL	P	17–FEB–10 04:30	021610–1
	Chromium	1.5	+/–5	U	1.5	5.0	SOL	P	17–FEB–10 04:30	021610–1
	Cobalt	1.5	+/–5	U	1.5	5.0	SOL	P	17–FEB–10 04:30	021610–1
	Copper	3.0	+/–10	U	3.0	10.0	SOL	P	17–FEB–10 04:30	021610–1
	Manganese	2.0	+/–10	U	2.0	10.0	SOL	P	17–FEB–10 04:30	021610–1
	Potassium	64.0	+/–250	U	64.0	250	SOL	P	17–FEB–10 04:30	021610–1
	Silver	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 04:30	021610–1
	Sodium	–75.36	+/–250	J	70.0	250	SOL	P	17–FEB–10 04:30	021610–1
	Vanadium	1.0	+/–5	U	1.0	5.0	SOL	P	17–FEB–10 04:30	021610–1
	Zinc	3.3	+/–10	U	3.3	10.0	SOL	P	17–FEB–10 04:30	021610–1
	Iron	80.0	+/–250	U	80.0	250	SOL	P	24–FEB–10 04:40	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	24–FEB–10 04:40	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	24–FEB–10 04:40	022310A–2
CCB19										
	Iron	80.0	+/–250	U	80.0	250	SOL	P	24–FEB–10 05:58	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	24–FEB–10 05:58	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	24–FEB–10 05:58	022310A–2
CCB20										
	Iron	80.0	+/–250	U	80.0	250	SOL	P	24–FEB–10 06:24	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	24–FEB–10 06:24	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	24–FEB–10 06:24	022310A–2
CCB21										
	Iron	80.0	+/–250	U	80.0	250	SOL	P	24–FEB–10 07:48	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	24–FEB–10 07:48	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	24–FEB–10 07:48	022310A–2
CCB22										
	Iron	80.0	+/–250	U	80.0	250	SOL	P	24–FEB–10 09:02	022310A–2
	Lead	2.5	+/–10	U	2.5	10.0	SOL	P	24–FEB–10 09:02	022310A–2
	Magnesium	85.0	+/–300	U	85.0	300	SOL	P	24–FEB–10 09:02	022310A–2

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-1474

Contract: LANL01004

Matrix: SOIL

Sample ID	Analyte	Result	Units	Acceptance Window	Conc Qual	M	MDL	RDL
1202029970								
	Mercury	3.81	ug/kg	+/-11.2	U	AV	3.81	11.2
1202030969								
	Aluminum	6500	ug/Kg	+/-19100	U	P	6500	19100
	Antimony	315	ug/Kg	+/-956	U	P	315	956
	Barium	95.6	ug/Kg	+/-478	U	P	95.6	478
	Cadmium	95.6	ug/Kg	+/-478	U	P	95.6	478
	Calcium	7650	ug/Kg	+/-23900	U	P	7650	23900
	Chromium	143	ug/Kg	+/-478	U	P	143	478
	Cobalt	143	ug/Kg	+/-478	U	P	143	478
	Copper	287	ug/Kg	+/-956	U	P	287	956
	Iron	7650	ug/Kg	+/-23900	U	P	7650	23900
	Lead	239	ug/Kg	+/-956	U	P	239	956
	Magnesium	8130	ug/Kg	+/-28700	U	P	8130	28700
	Manganese	191	ug/Kg	+/-956	U	P	191	956
	Potassium	6120	ug/Kg	+/-23900	U	P	6120	23900
	Silver	95.6	ug/Kg	+/-478	U	P	95.6	478
	Sodium	-13200	ug/Kg	+/-23900	J	P	6690	23900
	Vanadium	95.6	ug/Kg	+/-478	U	P	95.6	478
	Zinc	315	ug/Kg	+/-956	U	P	315	956
1202030975								
	Arsenic	0.198	mg/kg	+/-0.988	U	MS	0.198	0.988
	Beryllium	0.0198	mg/kg	+/-0.0988	U	MS	0.0198	0.0988
	Nickel	0.0988	mg/kg	+/-0.395	U	MS	0.0988	0.395
	Selenium	0.494	mg/kg	+/-0.988	U	MS	0.494	0.988
	Thallium	0.0593	mg/kg	+/-0.198	U	MS	0.0593	0.198
	Uranium	0.0296	mg/kg	+/-0.0395	J	MS	0.013	0.0395

METALS
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Interference Check Sample

SDG No: 10–1474

Contract: LANL01004 **Lab Code:** GEL

ICS: O2Si

Instrument: OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Aluminum	526000	ug/L	500000	ug/L	105	80.0 – 120.0	16–FEB–10 12:39	021610–1
	Antimony	0.835	ug/L					16–FEB–10 12:39	021610–1
	Barium	–0.258	ug/L					16–FEB–10 12:39	021610–1
	Cadmium	–1.61	ug/L					16–FEB–10 12:39	021610–1
	Calcium	489000	ug/L	500000	ug/L	97.8	80.0 – 120.0	16–FEB–10 12:39	021610–1
	Chromium	1.6	ug/L					16–FEB–10 12:39	021610–1
	Cobalt	–1.66	ug/L					16–FEB–10 12:39	021610–1
	Copper	3.48	ug/L					16–FEB–10 12:39	021610–1
	Manganese	–1.06	ug/L					16–FEB–10 12:39	021610–1
	Potassium	–146.0	ug/L					16–FEB–10 12:39	021610–1
	Silver	4.44	ug/L					16–FEB–10 12:39	021610–1
	Sodium	349	ug/L					16–FEB–10 12:39	021610–1
	Vanadium	–2.55	ug/L					16–FEB–10 12:39	021610–1
	Zinc	–0.46	ug/L					16–FEB–10 12:39	021610–1
ICSAB01									
	Aluminum	523000	ug/L	500000	ug/L	105	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Antimony	549	ug/L	500	ug/L	110	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Barium	493	ug/L	500	ug/L	98.6	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Cadmium	457	ug/L	500	ug/L	91.4	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Calcium	482000	ug/L	500000	ug/L	96.5	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Chromium	480	ug/L	500	ug/L	96	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Cobalt	445	ug/L	500	ug/L	89.1	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Copper	566	ug/L	500	ug/L	113	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Manganese	485	ug/L	500	ug/L	97.1	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Potassium	5460	ug/L	5000	ug/L	109	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Silver	275	ug/L	250	ug/L	110	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Sodium	5800	ug/L	5000	ug/L	116	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Vanadium	498	ug/L	500	ug/L	99.7	80.0 – 120.0	16–FEB–10 12:45	021610–1
	Zinc	495	ug/L	500	ug/L	99	80.0 – 120.0	16–FEB–10 12:45	021610–1

METALS
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Interference Check Sample

SDG No: 10-1474

Contract: LANL01004 **Lab Code:** GEL

ICS: O2Si

Instrument: OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Iron	192000	ug/L	200000	ug/L	96.2	80.0 - 120.0	23-FEB-10 11:30	022310A-2
	Lead	-8.35	ug/L					23-FEB-10 11:30	022310A-2
	Magnesium	505000	ug/L	500000	ug/L	101	80.0 - 120.0	23-FEB-10 11:30	022310A-2
ICSAB01									
	Iron	193000	ug/L	200000	ug/L	96.5	80.0 - 120.0	23-FEB-10 11:37	022310A-2
	Lead	462	ug/L	500	ug/L	92.4	80.0 - 120.0	23-FEB-10 11:37	022310A-2
	Magnesium	510000	ug/L	500000	ug/L	102	80.0 - 120.0	23-FEB-10 11:37	022310A-2

METALS
–4–
Interference Check Sample

SDG No: 10–1474

Contract: LANL01004 **Lab Code:** GEL

ICS: O2Si

Instrument: ICPMS4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Arsenic	–0.361	ug/L					18–FEB–10 23:27	100218–3
	Nickel	4.91	ug/L					18–FEB–10 23:27	100218–3
	Selenium	–0.571	ug/L					18–FEB–10 23:27	100218–3
	Thallium	0.021	ug/L					18–FEB–10 23:27	100218–3
	Uranium	–0.016	ug/L					18–FEB–10 23:27	100218–3
ICSAB01									
	Arsenic	19.8	ug/L	20	ug/L	99.2	80.0 – 120.0	18–FEB–10 23:31	100218–3
	Nickel	24.4	ug/L	23.31	ug/L	105	80.0 – 120.0	18–FEB–10 23:31	100218–3
	Selenium	21.1	ug/L	20	ug/L	105	80.0 – 120.0	18–FEB–10 23:31	100218–3
	Thallium	17.9	ug/L	20	ug/L	89.7	80.0 – 120.0	18–FEB–10 23:31	100218–3
	Uranium	21.5	ug/L	20	ug/L	108	80.0 – 120.0	18–FEB–10 23:31	100218–3

METALS
–4–
Interference Check Sample

SDG No: 10–1474

Contract: LANL01004 **Lab Code:** GEL

ICS: O2Si

Instrument: ICPMS4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Beryllium	0.102	ug/L					19–FEB–10 14:24	100219–4
ICSAB01									
	Beryllium	17.9	ug/L	20	ug/L	89.6	80.0 – 120.0	19–FEB–10 14:27	100219–4

METALS
–5a–
Matrix Spike Summary

SDG NO. 10–1474 **Client ID** RE15–10–7954S

Contract: LANL01004 **Level:** Low

Matrix: SOIL **% Solids:** 94.2

Sample ID: 245806001 **Spike ID:** 1202029973

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75–125	138		14.4		107	115		AV

METALS
–5a–

Matrix Spike Duplicate Summary

SDG NO. 10–1474 **Client ID** RE15–10–7954SD

Contract: LANL01004 **Level:** Low

Matrix: SOIL **% Solids:** 94.2

Sample ID: 245806001 **Spike ID:** 1202029975

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75–125	137		14.4		107	114		AV

METALS
–5a–
Matrix Spike Summary

SDG NO. 10–1474 **Client ID** RE15–10–7954S

Contract: LANL01004 **Level:** Low

Matrix: SOIL **% Solids:** 94.2

Sample ID: 245806001 **Spike ID:** 1202030972

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		7650000		3360000		511000	839	N/A	P
Antimony	ug/Kg	75–125	46100		5040		51100	80.4		P
Barium	ug/Kg	75–125	111000		48800		51100	121		P
Cadmium	ug/Kg	75–125	46500		99.8	U	51100	91		P
Calcium	ug/Kg	75–125	1630000		1100000		511000	103		P
Chromium	ug/Kg	75–125	57700		13400		51100	86.6		P
Cobalt	ug/Kg	75–125	50200		3090		51100	92.2		P
Copper	ug/Kg	75–125	679000		115000		51100	1100	N	P
Iron	ug/Kg		11000000		9310000		511000	327	N/A	P
Lead	ug/Kg		86200		578000		51100	–963	N/A	P
Magnesium	ug/Kg	75–125	1590000		696000		511000	175	N	P
Manganese	ug/Kg	75–125	259000		192000		51100	131	N	P
Potassium	ug/Kg	75–125	1190000		460000		511000	142	N	P
Silver	ug/Kg	75–125	50100		766		51100	96.7		P
Sodium	ug/Kg	75–125	538000		85000		511000	88.7		P
Vanadium	ug/Kg	75–125	57100		8040		51100	96.1		P
Zinc	ug/Kg	75–125	87000		36600		51100	98.7		P

METALS
–5a–

Matrix Spike Duplicate Summary

SDG NO. 10–1474 **Client ID** RE15–10–7954SD

Contract: LANL01004 **Level:** Low

Matrix: SOIL **% Solids:** 94.2

Sample ID: 245806001 **Spike ID:** 1202030973

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Copper	ug/Kg	75–125	113000		115000		50500	–4.26	N	P
Iron	ug/Kg		10200000		9310000		505000	182	N/A	P
Lead	ug/Kg		92500		578000		50500	–962	N/A	P
Magnesium	ug/Kg	75–125	1500000		696000		505000	159	N	P
Manganese	ug/Kg	75–125	231000		192000		50500	77.4		P
Potassium	ug/Kg	75–125	1140000		460000		505000	134	N	P
Silver	ug/Kg	75–125	49900		766		50500	97.3		P
Sodium	ug/Kg	75–125	559000		85000		505000	93.8		P
Vanadium	ug/Kg	75–125	56000		8040		50500	94.9		P
Zinc	ug/Kg	75–125	81700		36600		50500	89.4		P
Aluminum	ug/Kg		7000000		3360000		505000	721	N/A	P
Antimony	ug/Kg	75–125	46300		5040		50500	81.7		P
Barium	ug/Kg	75–125	94600		48800		50500	90.6		P
Cadmium	ug/Kg	75–125	45900		99.8	U	50500	91		P
Calcium	ug/Kg	75–125	1540000		1100000		505000	88.7		P
Chromium	ug/Kg	75–125	61000		13400		50500	94.2		P
Cobalt	ug/Kg	75–125	49800		3090		50500	92.5		P

METALS
–5a–

Matrix Spike Summary

SDG NO. 10–1474 **Client ID** RE15–10–7954S

Contract: LANL01004 **Level:** Low

Matrix: SOIL **% Solids:** 94.2

Sample ID: 245806001 **Spike ID:** 1202030978

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75–125	10.7		1.48		8.46	108		MS
Beryllium	mg/kg	75–125	6		1.37		5.29	87.6		MS
Nickel	mg/kg	75–125	12		7.19		5.29	90.7		MS
Selenium	mg/kg	75–125	2.37		0.524	U	2.12	89.1		MS
Thallium	mg/kg	75–125	8.85		0.0878	J	10.6	82.9		MS
Uranium	mg/kg		105		84.4		5.29	390	N/A	MS

METALS
-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1474 **Client ID** RE15-10-7954SD

Contract: LANL01004 **Level:** Low

Matrix: SOIL **% Solids:** 94.2

Sample ID: 245806001 **Spike ID:** 1202030979

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	9.21		1.48		8.35	92.6		MS
Beryllium	mg/kg	75-125	6.05		1.37		5.22	89.7		MS
Nickel	mg/kg	75-125	10.7		7.19		5.22	67.2	N	MS
Selenium	mg/kg	75-125	2.16		0.524	U	2.09	80		MS
Thallium	mg/kg	75-125	8.71		0.0878	J	10.4	82.6		MS
Uranium	mg/kg		104		84.4		5.22	377	N/A	MS

Metals
–6–
Duplicate Sample Summary

SDG No.: 10–1474

Contract: LANL01004 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE15–10–7954D

Sample ID: 245806001 **Duplicate ID:** 1202029972 **Percent Solids for Dup:** 94.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/–12.6	14.4		16.3		12.5		AV

Metals
–6–
Duplicate Sample Summary

SDG No.: 10–1474

Contract: LANL01004 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE15–10–7954SD

Sample ID: 1202029973 **Duplicate ID:** 1202029975 **Percent Solids for Dup:** 94.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/–20	138		137		.457		AV

Metals
–6–
Duplicate Sample Summary

SDG No.: 10–1474

Contract: LANL01004 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE15–10–7954D

Sample ID: 245806001 **Duplicate ID:** 1202030970 **Percent Solids for Dup:** 94.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/–20%	3360000		3180000		5.59		P
Antimony	ug/Kg	+/–998	5040		992	J	134	*	P
Barium	ug/Kg	+/–20%	48800		45200		7.79		P
Cadmium	ug/Kg		99.8	U	99.8	U			P
Calcium	ug/Kg	+/–20%	1100000		1040000		5.6		P
Chromium	ug/Kg	+/–20%	13400		8790		41.8	*	P
Cobalt	ug/Kg	+/–499	3090		2490		21.2	*	P
Copper	ug/Kg	+/–20%	115000		33000		111	*	P
Iron	ug/Kg	+/–20%	9310000		9510000		2.11		P
Lead	ug/Kg	+/–20%	578000		31400		179	*	P
Magnesium	ug/Kg	+/–20%	696000		675000		3.13		P
Manganese	ug/Kg	+/–20%	192000		210000		8.81		P
Potassium	ug/Kg	+/–20%	460000		448000		2.7		P
Silver	ug/Kg	+/–499	766		680		11.9		P
Sodium	ug/Kg	+/–25000	85000		81600		4.08		P
Vanadium	ug/Kg	+/–20%	8040		7420		7.95		P
Zinc	ug/Kg	+/–20%	36600		34700		5.42		P

Metals
–6–
Duplicate Sample Summary

SDG No.: 10–1474

Contract: LANL01004 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE15–10–7954SD

Sample ID: 1202030972 **Duplicate ID:** 1202030973 **Percent Solids for Dup:** 94.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/–20	7650000		7000000		8.83		P
Antimony	ug/Kg	+/–20	46100		46300		.33		P
Barium	ug/Kg	+/–20	111000		94600		15.7		P
Cadmium	ug/Kg	+/–20	46500		45900		1.2		P
Calcium	ug/Kg	+/–20	1630000		1540000		5.09		P
Chromium	ug/Kg	+/–20	57700		61000		5.6		P
Cobalt	ug/Kg	+/–20	50200		49800		.79		P
Copper	ug/Kg	+/–20	679000		113000		143	*	P
Iron	ug/Kg	+/–20	11000000		10200000		7.09		P
Lead	ug/Kg	+/–20	86200		92500		7.07		P
Magnesium	ug/Kg	+/–20	1590000		1500000		5.78		P
Manganese	ug/Kg	+/–20	259000		231000		11.5		P
Potassium	ug/Kg	+/–20	1190000		1140000		4.27		P
Silver	ug/Kg	+/–20	50100		49900		.518		P
Sodium	ug/Kg	+/–20	538000		559000		3.76		P
Vanadium	ug/Kg	+/–20	57100		56000		2.02		P
Zinc	ug/Kg	+/–20	87000		81700		6.27		P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE15-10-7954D

Sample ID: 245806001 **Duplicate ID:** 1202030976 **Percent Solids for Dup:** 94.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.05	1.48		1.32		11.6		MS
Beryllium	mg/kg	+/-20%	1.37		0.922		39.1	*	MS
Nickel	mg/kg	+/-20%	7.19		4.76		40.8	*	MS
Selenium	mg/kg		0.524	U	0.527	U			MS
Thallium	mg/kg	+/-.211	0.0878	J	0.07	J	22.6		MS
Uranium	mg/kg	+/-20%	84.4		68.9		20.2	*	MS

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1474

Contract: LANL01004 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE15-10-7954SD

Sample ID: 1202030978 **Duplicate ID:** 1202030979 **Percent Solids for Dup:** 94.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	10.7		9.21		14.6		MS
Beryllium	mg/kg	+/-20	6		6.05		.77		MS
Nickel	mg/kg	+/-20	12		10.7		11.4		MS
Selenium	mg/kg	+/-20	2.37		2.16		9.52		MS
Thallium	mg/kg	+/-20	8.85		8.71		1.68		MS
Uranium	mg/kg	+/-20	105		104		.934		MS

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-1474

Contract: LANL01004

Aqueous LCS Source: **Solid LCS Source:** ERA

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1202029971								
	Mercury	ug/kg	5150	5800		113	71.6-128.3	AV

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-1474

Contract: LANL01004

Aqueous LCS Source: **Solid LCS Source:** ERA

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1202030974								
	Aluminum	ug/Kg	10500000	8060000		76.8	56-144	P
	Antimony	ug/Kg	173000	130000		75.4	71-130	P
	Barium	ug/Kg	198000	178000		90	80-120	P
	Cadmium	ug/Kg	60700	53000		87.3	81-120	P
	Calcium	ug/Kg	9870000	9340000		94.7	83-117	P
	Chromium	ug/Kg	236000	213000		90.2	80-120	P
	Cobalt	ug/Kg	91200	84700		92.9	81-120	P
	Copper	ug/Kg	174000	176000		101	81-118	P
	Iron	ug/Kg	18000000	17500000		97	51-149	P
	Lead	ug/Kg	86000	78500		91.3	79-121	P
	Magnesium	ug/Kg	4000000	3710000		92.8	79-122	P
	Manganese	ug/Kg	558000	499000		89.4	81-119	P
	Potassium	ug/Kg	4300000	3800000		88.5	74-127	P
	Silver	ug/Kg	30100	30000		99.7	66-134	P
	Sodium	ug/Kg	1020000	919000		90.1	74-127	P
	Vanadium	ug/Kg	115000	111000		96.3	79-121	P
	Zinc	ug/Kg	594000	548000		92.3	80-121	P

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-1474

Contract: LANL01004

Aqueous LCS Source: **Solid LCS Source:** ERA

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1202030980								
	Arsenic	mg/kg	104	118		113	78-123	MS
	Beryllium	mg/kg	77.6	82.6		106	84-116	MS
	Nickel	mg/kg	134	147		109	78-123	MS
	Selenium	mg/kg	286	317		111	77-123	MS
	Thallium	mg/kg	121	123		102	78-122	MS
	Uranium	mg/kg	2.13	2.11		99	73-127	MS

METALS
-9-
Serial Dilution Sample Summary

SDG NO. 10-1474 **Client ID** RE15-10-7954L

Contract: LANL01004

Matrix: SOLID **Level:** Low

Sample ID: 245806001 **Serial Dilution ID:** 1202029974

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.237		.34	U	100			AV

METALS
–9–
Serial Dilution Sample Summary

SDG NO. 10–1474 **Client ID** RE15–10–7954L

Contract: LANL01004

Matrix: SOLID **Level:** Low

Sample ID: 245806001 **Serial Dilution ID:** 1202030971

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	33700		32400		3.86		10	P
Antimony	50.5		57.5		13.9			P
Barium	489		505		3.27		10	P
Cadmium	1	U	5	U				P
Calcium	11000		11000		.455		10	P
Chromium	135		135		0		10	P
Cobalt	30.9		32.7		5.83			P
Copper	1150		1180		2.17		10	P
Iron	46700		47100		.749		10	P
Lead	2900		2910		.345		10	P
Magnesium	3490		3400		2.72			P
Manganese	1920		2010		4.69		10	P
Potassium	4610		4300		6.83		10	P
Silver	7.68		7.5	J	2.34			P
Sodium	852		492	J	42.3			P
Vanadium	80.5		79		1.86		10	P
Zinc	366		380		3.83		10	P

METALS
–9–
Serial Dilution Sample Summary

SDG NO. 10–1474 **Client ID** RE15–10–7954L

Contract: LANL01004

Matrix: SOLID **Level:** Low

Sample ID: 245806001 **Serial Dilution ID:** 1202030977

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	7.05		10.7	J	51.8			MS
Beryllium	6.54		7.3		11.6			MS
Nickel	34.3		38.8		13			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.419	J	1.53	J	265			MS
Uranium	403		439		8.93		10	MS

METALS
–13–
SAMPLE PREPARATION SUMMARY

SDG No: 10–1474 **Method Type:** P

Contract: LANL01004 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	948070						
1202030969	MB for batch 948070	MB	S	08–FEB–10	.523g	50mL	
1202030974	LCS for batch 948070	LCS	S	08–FEB–10	.514g	50mL	
1202030972	RE15–10–7954S	MS	S	08–FEB–10	.52g	50mL	
1202030973	RE15–10–7954SD	MSD	S	08–FEB–10	.526g	50mL	
1202030970	RE15–10–7954D	DUP	S	08–FEB–10	.532g	50mL	
245806001	RE15–10–7954	SAMPLE	S	08–FEB–10	.532g	50mL	
245806002	RE15–10–7956	SAMPLE	S	08–FEB–10	.523g	50mL	
245806003	RE15–10–7955	SAMPLE	S	08–FEB–10	.521g	50mL	
245806004	RE15–10–7953	SAMPLE	S	08–FEB–10	.53g	50mL	
245806005	RE15–10–7952	SAMPLE	S	08–FEB–10	.513g	50mL	
245806006	RE15–10–8060	SAMPLE	S	08–FEB–10	.522g	50mL	
245806007	RE15–10–8058	SAMPLE	S	08–FEB–10	.517g	50mL	
245806008	RE15–10–8059	SAMPLE	S	08–FEB–10	.514g	50mL	

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1474 **Method Type:** MS

Contract: LANL01004 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	948072						
1202030975	MB for batch 948072	MB	S	08-FEB-10	.506g	50mL	
1202030980	LCS for batch 948072	LCS	S	08-FEB-10	.515g	50mL	
1202030978	RE15-10-7954S	MS	S	08-FEB-10	.502g	50mL	
1202030979	RE15-10-7954SD	MSD	S	08-FEB-10	.509g	50mL	
1202030976	RE15-10-7954D	DUP	S	08-FEB-10	.504g	50mL	
245806001	RE15-10-7954	SAMPLE	S	08-FEB-10	.507g	50mL	
245806002	RE15-10-7956	SAMPLE	S	08-FEB-10	.517g	50mL	
245806003	RE15-10-7955	SAMPLE	S	08-FEB-10	.523g	50mL	
245806004	RE15-10-7953	SAMPLE	S	08-FEB-10	.521g	50mL	
245806005	RE15-10-7952	SAMPLE	S	08-FEB-10	.532g	50mL	
245806006	RE15-10-8060	SAMPLE	S	08-FEB-10	.534g	50mL	
245806007	RE15-10-8058	SAMPLE	S	08-FEB-10	.515g	50mL	
245806008	RE15-10-8059	SAMPLE	S	08-FEB-10	.512g	50mL	

METALS
–13–
SAMPLE PREPARATION SUMMARY

SDG No: 10–1474 **Method Type:** AV

Contract: LANL01004 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	947648						
1202029970	MB for batch 947648	MB	S	15–FEB–10	.535g	30mL	
1202029971	LCS for batch 947648	LCS	S	15–FEB–10	.209g	30mL	
1202029973	RE15–10–7954S	MS	S	15–FEB–10	.595g	30mL	
1202029975	RE15–10–7954SD	MSD	S	15–FEB–10	.593g	30mL	
1202029972	RE15–10–7954D	DUP	S	15–FEB–10	.504g	30mL	
245806001	RE15–10–7954	SAMPLE	S	15–FEB–10	.524g	30mL	
245806002	RE15–10–7956	SAMPLE	S	15–FEB–10	.572g	30mL	
245806003	RE15–10–7955	SAMPLE	S	15–FEB–10	.544g	30mL	
245806004	RE15–10–7953	SAMPLE	S	15–FEB–10	.562g	30mL	
245806005	RE15–10–7952	SAMPLE	S	15–FEB–10	.521g	30mL	
245806006	RE15–10–8060	SAMPLE	S	15–FEB–10	.5g	30mL	
245806007	RE15–10–8058	SAMPLE	S	15–FEB–10	.501g	30mL	
245806008	RE15–10–8059	SAMPLE	S	15–FEB–10	.508g	30mL	

Metals
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Analysis Run Log

Contract: LANL01004
Lab Code: GEL
Inst Name: OPTIMA3
Start Date: 16–FEB–10
End Date: 17–FEB–10

Client Sdg: 10–1474
Method P
Data File: 021610–1

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	11:46	X	X		X		X	X	X	X	X				X			X		X	X			X	X
S0.1	1	11:52		X		X		X		X	X	X				X			X		X				X	X
S0.5	1	11:58	X	X		X		X	X	X	X	X				X			X		X				X	X
SCAL	1	12:05	X	X		X		X	X	X	X	X				X			X		X	X			X	X
S10	1	12:13	X						X													X				
ICV01	1	12:18	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ICB01	1	12:25	X	X		X		X	X	X	X	X				X			X		X	X			X	X
PQL01	1	12:32	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ICSA01	1	12:39	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ICSAB01	1	12:45	X	X		X		X	X	X	X	X				X			X		X	X			X	X
LR01	1	12:51	X	X		X		X	X	X	X	X				X			X		X	X			X	X
LR02	1	12:57	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCV01	1	13:04	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB01	1	13:11	X	X		X		X	X	X	X	X				X			X		X	X			X	X
LR03	1	13:19	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCV02	1	13:26	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB02	1	13:33	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	1	13:49																								
ZZZZZZ	1	13:55																								
ZZZZZZ	1	14:02																								
ZZZZZZ	1	14:10																								
ZZZZZZ	1	14:17																								
ZZZZZZ	5	14:25																								
ZZZZZZ	10	14:32																								
ZZZZZZ	10	14:39																								
ZZZZZZ	10	14:47																								
ZZZZZZ	50	14:54																								
CCV03	1	15:01	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB03	1	15:08	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	50	15:14																								
CCV04	1	15:21	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB04	1	15:28	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCV05	1	15:39	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB05	1	15:46	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	50	15:53																								
ZZZZZZ	5	16:00																								
CCV06	1	16:07	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB06	1	16:14	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCV07	1	16:40	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB07	1	16:47	X	X		X		X	X	X	X	X				X			X		X	X			X	X

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																							
ZZZZZZ	1	16:54																							
ZZZZZZ	1	17:01																							
ZZZZZZ	1	17:07																							
ZZZZZZ	1	17:14																							
ZZZZZZ	1	17:21																							
ZZZZZZ	1	17:28																							
ZZZZZZ	1	17:35																							
CCV08	1	17:42	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB08	1	17:49	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	1	17:55																							
ZZZZZZ	5	18:02																							
ZZZZZZ	1	18:09																							
ZZZZZZ	1	18:16																							
ZZZZZZ	1	18:23																							
ZZZZZZ	1	18:30																							
ZZZZZZ	1	18:37																							
CCV09	1	18:44	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB09	1	18:51	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	1	18:58																							
ZZZZZZ	1	19:05																							
ZZZZZZ	1	19:12																							
ZZZZZZ	1	19:19																							
ZZZZZZ	1	19:26																							
ZZZZZZ	1	19:34																							
CCV10	1	19:41	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB10	1	19:48	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	1	19:54																							
ZZZZZZ	1	20:01																							
ZZZZZZ	1	20:08																							
ZZZZZZ	1	20:15																							
ZZZZZZ	1	20:22																							
ZZZZZZ	1	20:29																							
ZZZZZZ	5	20:36																							
ZZZZZZ	1	20:43																							
ZZZZZZ	1	20:50																							
CCV11	1	20:57	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB11	1	21:04	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	1	21:10																							
ZZZZZZ	1	21:17																							
ZZZZZZ	1	21:25																							

Metals
–14–
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	21:32																								
ZZZZZZ	1	21:39																								
ZZZZZZ	1	21:46																								
ZZZZZZ	1	21:53																								
ZZZZZZ	1	22:00																								
CCV12	1	22:07	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB12	1	22:14	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	1	22:21																								
ZZZZZZ	1	22:28																								
ZZZZZZ	1	22:34																								
ZZZZZZ	1	22:41																								
ZZZZZZ	1	22:48																								
ZZZZZZ	1	22:55																								
ZZZZZZ	5	23:02																								
ZZZZZZ	1	23:09																								
CCV13	1	23:16	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB13	1	23:23	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	1	23:30																								
ZZZZZZ	1	23:36																								
ZZZZZZ	1	23:43																								
ZZZZZZ	1	23:50																								
ZZZZZZ	1	23:57																								
ZZZZZZ	1	00:04																								
ZZZZZZ	5	00:11																								
CCV14	1	00:18	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB14	1	00:25	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	1	00:31																								
ZZZZZZ	1	00:38																								
ZZZZZZ	1	00:46																								
ZZZZZZ	1	00:53																								
ZZZZZZ	1	01:00																								
ZZZZZZ	1	01:07																								
ZZZZZZ	1	01:14																								
CCV15	1	01:21	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB15	1	01:28	X	X		X		X	X	X	X	X				X			X		X	X			X	X
ZZZZZZ	1	01:35																								
ZZZZZZ	1	01:42																								
ZZZZZZ	1	01:49																								
ZZZZZZ	1	01:56																								
ZZZZZZ	1	02:04																								

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																							
ZZZZZZ	1	02:11																							
CCV16	1	02:18	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB16	1	02:25	X	X		X		X	X	X	X	X				X			X		X	X			X	X
1202030969	1	02:32	X	X		X		X	X	X	X	X				X			X		X	X			X	X
1202030974	1	02:38	X	X		X		X	X	X	X	X				X			X		X	X			X	X
245806001	1	02:45	X	X		X		X	X	X	X	X				X			X		X	X			X	X
1202030970	1	02:52	X	X		X		X	X	X	X	X				X			X		X	X			X	X
1202030972	1	02:59	X	X		X		X	X	X	X	X				X			X		X	X			X	X
1202030973	1	03:06	X	X		X		X	X	X	X	X				X			X		X	X			X	X
1202030971	5	03:13	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCV17	1	03:20	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB17	1	03:27	X	X		X		X	X	X	X	X				X			X		X	X			X	X
245806002	1	03:33	X	X		X		X	X	X	X	X				X			X		X	X			X	X
245806003	1	03:41	X	X		X		X	X	X	X	X				X			X		X	X			X	X
245806004	1	03:48	X	X		X		X	X	X	X	X				X			X		X	X			X	X
245806005	1	03:55	X	X		X		X	X	X	X	X				X			X		X	X			X	X
245806006	1	04:02	X	X		X		X	X	X	X	X				X			X		X	X			X	X
245806007	1	04:09	X	X		X		X	X	X	X	X				X			X		X	X			X	X
245806008	1	04:16	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCV18	1	04:23	X	X		X		X	X	X	X	X				X			X		X	X			X	X
CCB18	1	04:30	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: OPTIMA3
Start Date: 23-FEB-10 **End Date:** 24-FEB-10

Client Sdg: 10-1474
Method P
Data File: 022310A-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	10:37											X	X	X											
S0.1	1	10:44												X												
S0.5	1	10:50												X	X											
SCAL	1	10:57											X	X	X											
S10	1	11:04											X		X											
ICV01	1	11:10											X	X	X											
ICB01	1	11:17											X	X	X											
PQL01	1	11:23											X	X	X											
ICSA01	1	11:30											X	X	X											
ICSAB01	1	11:37											X	X	X											
LR01	1	11:43											X	X	X											
LR02	1	11:50											X	X	X											
CCV01	1	11:57											X	X	X											
CCB01	1	12:04											X	X	X											
LR03	1	12:18											X	X	X											
CCV02	1	12:25											X	X	X											
CCB02	1	12:32											X	X	X											
ZZZZZZ	50	12:49																								
ZZZZZZ	100	12:56																								
CCV03	1	13:03											X	X	X											
CCB03	1	13:10											X	X	X											
ZZZZZZ	10	13:17																								
ZZZZZZ	10	13:24																								
ZZZZZZ	10	13:31																								
ZZZZZZ	10	13:38																								
ZZZZZZ	50	13:45																								
ZZZZZZ	10	13:52																								
ZZZZZZ	10	13:59																								
CCV04	1	14:04											X	X	X											
CCB04	1	14:11											X	X	X											
1202030969	1	14:19											X	X	X											
1202030974	1	14:26											X	X	X											
245806001	2	14:32											X	X	X											
1202030970	2	14:39											X	X	X											
1202030972	2	14:46											X	X	X											
1202030973	2	14:52											X	X	X											
1202030971	10	14:59											X	X	X											
CCV05	1	15:06											X	X	X											
CCB05	1	15:13											X	X	X											
ZZZZZZ	2	15:20																								

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																									
245806003	2	15:27										X	X	X													
245806004	2	15:34										X		X													
ZZZZZZ	2	15:41																									
245806006	2	15:48										X	X	X													
245806007	2	15:55										X	X	X													
ZZZZZZ	2	16:02																									
CCV06	1	16:09										X	X	X													
CCB06	1	16:16										X	X	X													
CCV07	1	16:57										X	X	X													
CCB07	1	17:04										X	X	X													
CCV08	1	17:25										X	X	X													
CCB08	1	17:32										X	X	X													
ZZZZZZ	2	17:39																									
245806004	100	17:46											X														
245806005	2	17:53										X	X	X													
245806008	2	17:59										X	X	X													
ZZZZZZ	5	18:06																									
ZZZZZZ	5	18:13																									
ZZZZZZ	5	18:20																									
ZZZZZZ	5	18:26																									
ZZZZZZ	25	18:33																									
CCV09	1	18:40										X	X	X													
CCB09	1	18:47										X	X	X													
ZZZZZZ	2	18:54																									
ZZZZZZ	2	19:01																									
ZZZZZZ	2	19:07																									
ZZZZZZ	2	19:14																									
ZZZZZZ	10	19:21																									
ZZZZZZ	2	19:28																									
ZZZZZZ	2	19:35																									
ZZZZZZ	2	19:42																									
ZZZZZZ	2	19:48																									
CCV10	1	19:55										X	X	X													
CCB10	1	20:02										X	X	X													
ZZZZZZ	1	20:09																									
ZZZZZZ	1	20:16																									
ZZZZZZ	100	20:23																									
ZZZZZZ	100	20:30																									
ZZZZZZ	100	20:37																									
ZZZZZZ	100	20:44																									

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	100	20:51																								
ZZZZZZ	500	20:58																								
ZZZZZZ	100	21:05																								
CCV11	1	21:12											X	X	X											
CCB11	1	21:19											X	X	X											
ZZZZZZ	10	21:26																								
ZZZZZZ	10	21:33																								
ZZZZZZ	10	21:40																								
ZZZZZZ	10	21:47																								
ZZZZZZ	5	21:54																								
ZZZZZZ	5	22:01																								
ZZZZZZ	5	22:07																								
ZZZZZZ	25	22:14																								
CCV12	1	22:21											X	X	X											
CCB12	1	22:28											X	X	X											
ZZZZZZ	5	22:35																								
ZZZZZZ	5	22:42																								
ZZZZZZ	5	22:48																								
ZZZZZZ	5	22:55																								
ZZZZZZ	5	23:02																								
CCV13	1	23:09											X	X	X											
CCB13	1	23:16											X	X	X											
ZZZZZZ	1	23:23																								
ZZZZZZ	1	23:30																								
ZZZZZZ	1	23:36																								
ZZZZZZ	100	23:43																								
ZZZZZZ	500	23:50																								
ZZZZZZ	100	23:57																								
CCV14	1	00:05											X	X	X											
CCB14	1	00:12											X	X	X											
ZZZZZZ	1	00:18																								
ZZZZZZ	1	00:25																								
ZZZZZZ	1	00:32																								
ZZZZZZ	1	00:39																								
ZZZZZZ	1	00:46																								
ZZZZZZ	1	00:53																								
ZZZZZZ	5	01:00																								
CCV15	1	01:06											X	X	X											
CCB15	1	01:13											X	X	X											
ZZZZZZ	1	01:20																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																							
ZZZZZZ	1	01:27																							
ZZZZZZ	100	01:34																							
ZZZZZZ	100	01:41																							
ZZZZZZ	100	01:48																							
ZZZZZZ	500	01:55																							
ZZZZZZ	100	02:01																							
ZZZZZZ	10	02:08																							
ZZZZZZ	10	02:15																							
CCV16	1	02:22										X	X	X											
CCB16	1	02:29										X	X	X											
ZZZZZZ	1	02:36																							
ZZZZZZ	1	02:42																							
ZZZZZZ	1	02:49																							
ZZZZZZ	1	02:56																							
ZZZZZZ	1	03:03																							
ZZZZZZ	5	03:10																							
ZZZZZZ	1	03:17																							
CCV17	1	03:23										X	X	X											
CCB17	1	03:31										X	X	X											
ZZZZZZ	1	03:38																							
ZZZZZZ	1	03:45																							
ZZZZZZ	1	03:52																							
ZZZZZZ	1	03:58																							
ZZZZZZ	1	04:05																							
ZZZZZZ	5	04:12																							
ZZZZZZ	1	04:19																							
ZZZZZZ	1	04:26																							
CCV18	1	04:33										X	X	X											
CCB18	1	04:40										X	X	X											
ZZZZZZ	1	04:47																							
ZZZZZZ	1	04:54																							
ZZZZZZ	1	05:01																							
ZZZZZZ	1	05:08																							
ZZZZZZ	1	05:15																							
ZZZZZZ	1	05:22																							
ZZZZZZ	1	05:29																							
ZZZZZZ	1	05:36																							
ZZZZZZ	5	05:43																							
CCV19	1	05:51										X	X	X											
CCB19	1	05:58										X	X	X											

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
CCV20	1	06:17											X	X	X											
CCB20	1	06:24											X	X	X											
ZZZZZZ	1	06:39																								
ZZZZZZ	1	06:46																								
ZZZZZZ	1	06:53																								
ZZZZZZ	1	07:00																								
ZZZZZZ	1	07:07																								
ZZZZZZ	1	07:13																								
ZZZZZZ	1	07:20																								
ZZZZZZ	1	07:27																								
ZZZZZZ	5	07:34																								
CCV21	1	07:41											X	X	X											
CCB21	1	07:48											X	X	X											
ZZZZZZ	1	07:54																								
ZZZZZZ	1	08:01																								
ZZZZZZ	1	08:07																								
ZZZZZZ	1	08:15																								
ZZZZZZ	1	08:22																								
ZZZZZZ	1	08:29																								
ZZZZZZ	1	08:36																								
ZZZZZZ	5	08:42																								
24580600~~1~~2	2	08:48											X	X	X											
CCV22	1	08:55											X	X	X											
CCB22	1	09:02											X	X	X											

Metals
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Analysis Run Log

Contract: LANL01004
Lab Code: GEL
Inst Name: MER536
Start Date: 16-FEB-10
End Date: 16-FEB-10
Client Sdg: 10-1474
Method AV
Data File: 021610S2-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	08:49															X									
S0.2	1	08:51															X									
S0.5	1	08:53															X									
S2.0	1	08:55															X									
S5.0	1	08:57															X									
S10	1	08:59															X									
ICV01	1	09:01															X									
ICB01	1	09:03															X									
CRDL01	1	09:05															X									
CCV01	1	09:07															X									
CCB01	1	09:09															X									
1202029970	1	09:11															X									
1202029971	10	09:13															X									
ZZZZZZ	1	09:15																								
ZZZZZZ	1	09:17																								
ZZZZZZ	1	09:19																								
ZZZZZZ	1	09:21																								
ZZZZZZ	1	09:23																								
ZZZZZZ	1	09:25																								
ZZZZZZ	1	09:27																								
ZZZZZZ	1	09:28																								
CCV02	1	09:30															X									
CCB02	1	09:33															X									
ZZZZZZ	1	09:35																								
ZZZZZZ	1	09:36																								
ZZZZZZ	1	09:38																								
245806001	1	09:40															X									
1202029972	1	09:42															X									
1202029973	1	09:44															X									
1202029975	1	09:46															X									
1202029974	5	09:48															X									
245806002	1	09:51															X									
245806003	1	09:53															X									
CCV03	1	09:55															X									
CCB03	1	09:57															X									
245806004	1	09:59															X									
245806005	1	10:01															X									
245806006	1	10:02															X									
245806007	1	10:04															X									
245806008	1	10:06															X									

Metals
–14–
Analysis Run Log

Samp No.	D/F	Run Time																							
ZZZZZZ	1	10:08																							
ZZZZZZ	10	10:10																							
CCV04	1	10:14													X										
CCB04	1	10:16													X										

Metals
–14–
Analysis Run Log

Contract: LANL01004
Lab Code: GEL
Inst Name: ICPMS4
Start Date: 18–FEB–10 **End Date:** 19–FEB–10

Client Sdg: 10–1474
Method MS
Data File: 100218–3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	23:02			X													X		X			X	X		
S10	1	23:06			X													X		X			X	X		
S100	1	23:10			X													X		X			X	X		
ICV01	1	23:14			X													X		X			X	X		
ICB01	1	23:18			X													X		X			X	X		
CRDL01	1	23:23			X													X		X			X	X		
ICSA01	1	23:27			X													X		X			X	X		
ICSAB01	1	23:31			X													X		X			X	X		
CCV01	1	23:35			X													X		X			X	X		
CCB01	1	23:39			X													X		X			X	X		
LR01	1	23:43			X													X		X			X	X		
CCV02	1	23:47			X													X		X			X	X		
CCB02	1	23:51			X													X		X			X	X		
1202030975	2	23:56			X													X		X			X	X		
1202030980	40	00:00			X													X		X			X	X		
CCV03	1	00:04			X													X		X			X	X		
CCB03	1	00:08			X													X		X			X	X		
245806001	2	00:12			X													X		X			X	X		
1202030976	2	00:16			X													X		X			X	X		
1202030978	2	00:21			X													X		X			X	X		
1202030979	2	00:25			X													X		X			X	X		
1202030977	10	00:29			X													X		X			X	X		
CCV04	1	00:33			X													X		X			X	X		
CCB04	1	00:37			X													X		X			X	X		
245806002	2	00:42			X													X		X			X	X		
245806003	2	00:46			X													X		X			X	X		
245806004	2	00:50			X													X		X			X	X		
245806005	2	00:54			X													X		X			X	X		
CCV05	1	00:58			X													X		X			X	X		
CCB05	1	01:02			X													X		X			X	X		
245806006	2	01:07			X													X		X			X	X		
245806007	2	01:11			X													X		X			X	X		
245806008	2	01:15			X													X		X			X	X		
CCV06	1	01:19			X													X		X			X	X		
CCB06	1	01:23			X													X		X			X	X		

Metals
-14-
Analysis Run Log

Contract: LANL01004
Lab Code: GEL
Inst Name: ICPMS4
Start Date: 19-FEB-10
End Date: 19-FEB-10

Client Sdg: 10-1474
Method MS
Data File: 100219-4

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	14:11					X																			
S10	1	14:14					X																			
S100	1	14:16					X																			
ICV01	1	14:18					X																			
ICB01	1	14:20					X																			
CRDL01	1	14:22					X																			
ICSA01	1	14:24					X																			
ICSAB01	1	14:27					X																			
CCV01	1	14:29					X																			
CCB01	1	14:31					X																			
1202030975	2	14:33					X																			
1202030980	40	14:36					X																			
CCV02	1	14:38					X																			
CCB02	1	14:40					X																			
245806001	2	14:42					X																			
1202030976	2	14:45					X																			
1202030978	2	14:47					X																			
1202030979	2	14:49					X																			
CCV03	1	14:51					X																			
CCB03	1	14:54					X																			
1202030977	10	14:56					X																			
245806002	2	14:58					X																			
245806003	2	15:00					X																			
245806004	2	15:03					X																			
CCV04	1	15:05					X																			
CCB04	1	15:07					X																			
245806005	2	15:10					X																			
245806006	2	15:12					X																			
245806007	2	15:14					X																			
245806008	2	15:16					X																			
CCV05	1	15:19					X																			
CCB05	1	15:21					X																			

Standards

METALS
–10–
Instrument Detection Limits

SDG NO. 10–1474

Contract: LANL01004 **Lab Code: GEL** **MDL Effective Date:** 01–JUL–09

ICP/MS	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
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. 10–1474

Contract: LANL01004 **Lab Code: GEL** **MDL Effective Date:** 15–JUN–09

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

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1474

Contract: LANL01004 **Lab Code: GEL** **MDL Effective Date:** 01-JUL-09

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474
Effective Dates: 01-FEB-10

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474
Effective Dates: 01-FEB-10

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474
Effective Dates: 01-FEB-10

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474
Effective Dates: 01-FEB-10

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
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474
Effective Dates: 01-FEB-10

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474
Effective Dates: 01-FEB-10

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

METALS
–12–
Linear Ranges

SDG NO. 10–1474

Contract: LANL01004 **Lab Code: GEL**

Instrument ID OPTIMA3

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

METALS
–12–
Linear Ranges

SDG NO. 10–1474

Contract: LANL01004 **Lab Code: GEL**

Instrument ID ICPMS4

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

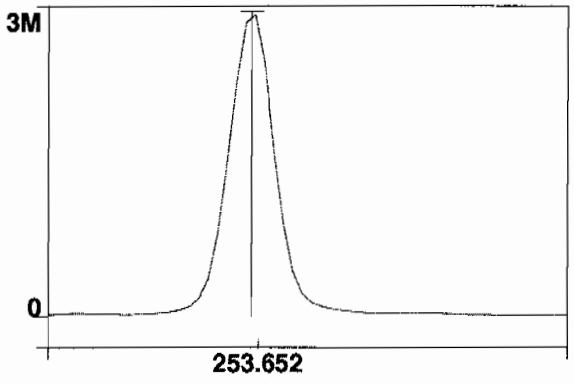
Raw Data

Method: Hg_ReAlign
Result: 022410

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



Intensity: 3241444.2 cps
Conc:

1

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Analysis Begun

Start Time: 2/16/2010 11:46:01 **Plasma On Time: 2/15/2010 05:50:42**
Logged In Analyst: Optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\021610.sif
Batch ID:
Results Data Set: 021610
Results Library: C:\pe\Optima3\Results\Results.mdb

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Method Loaded
Method Name: General Eng.2AX **Method Last Saved: 2/16/2010 09:05:05**
IEC File: 011110.iec **MSF File:**
Method Description:

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

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: S0 **Date Collected: 2/16/2010 11:46:03**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	4341.7	4341.7	0.000	%	11:47:55
1	Y RADIAL	4471.4	4471.4	0.000	%	11:47:55
1	Al 396.153Radial†	-175[illegible]8	-172.2	[0.00]	ug/L	11:47:55

1	Ca 317.933Radial†	14.1	13.8	[0.00] ug/L	11:48:15
1	Fe 238.204 Radial†	10.4	10.1	[0.00] ug/L	11:48:15
1	K 766.490 Radial†	3248.0	3180.1	[0.00] ug/L	11:47:55
1	Mg 279.077 IEC†	2.3	2.3	[0.00] ug/L	11:48:15
1	Na 589.592 Radial†	227.6	222.9	[0.00] ug/L	11:47:55
1	Sr 421.552†	86.7	84.9	[0.00] ug/L	11:47:55
1	Sc 361.383	848751.5	848751.5	0.0000 %	11:49:12
1	Y 371.029	702201.4	702201.4	0.0000 %	11:49:12
1	Ag 328.068†	164.7	165.0	[0.00] ug/L	11:49:12
1	As 188.979†	-27.6	-27.7	[0.00] ug/L	11:49:32
1	B 249.677†	-476.2	-476.9	[0.00] ug/L	11:49:32
1	Ba 233.527†	15.5	15.6	[0.00] ug/L	11:49:32
1	Be 313.107†	-4361.6	-4368.1	[0.00] ug/L	11:49:12
1	Cd 226.502†	-190.4	-190.6	[0.00] ug/L	11:49:32
1	Co 228.616†	-82.2	-82.3	[0.00] ug/L	11:49:32
1	Cr 267.716†	153.6	153.9	[0.00] ug/L	11:49:32
1	Cu 324.752†	8084.8	8096.8	[0.00] ug/L	11:49:12
1	Mn 257.610†	580.8	581.6	[0.00] ug/L	11:49:32
1	Mo 202.031†	4.3	4.3	[0.00] ug/L	11:49:32
1	Ni 231.604†	117.0	117.1	[0.00] ug/L	11:49:32
1	P 214.914†	232.7	233.1	[0.00] ug/L	11:49:32
1	Pb 220.353†	-75.2	-75.3	[0.00] ug/L	11:49:32
1	S 181.975 Axial†	40.3	40.4	[0.00] ug/L	11:49:32
1	Sb 206.836†	37.8	37.9	[0.00] ug/L	11:49:32
1	Se 196.026†	-21.6	-21.6	[0.00] ug/L	11:49:32
1	Si 251.611†	615.7	616.6	[0.00] ug/L	11:49:32
1	Sn 189.927†	8.5	8.6	[0.00] ug/L	11:49:32
1	Ti 334.940†	-1519.3	-1521.6	[0.00] ug/L	11:49:12
1	Tl 190.801†	-32.6	-32.6	[0.00] ug/L	11:49:32
1	U 409.014†	-3456.7	-3461.8	[0.00] ug/L	11:49:12
1	V 292.402†	-1680.9	-1683.4	[0.00] ug/L	11:49:12
1	Zn 213.857†	686.4	687.4	[0.00] ug/L	11:49:32
1	SiO2†	600.5	601.4	[0.00] ug/L	11:50:28
2	Sc Radial	4353.2	4353.2	0.000 %	11:48:21
2	Y RADIAL	4521.0	4521.0	0.000 %	11:48:21
2	Al 396.153Radial†	-171.5	-167.5	[0.00] ug/L	11:48:21
2	Ca 317.933Radial†	22.1	21.6	[0.00] ug/L	11:48:41
2	Fe 238.204 Radial†	11.0	10.7	[0.00] ug/L	11:48:41
2	K 766.490 Radial†	3106.4	3033.4	[0.00] ug/L	11:48:21
2	Mg 279.077 IEC†	2.0	1.9	[0.00] ug/L	11:48:41
2	Na 589.592 Radial†	203.0	198.2	[0.00] ug/L	11:48:21
2	Sr 421.552†	95.1	92.9	[0.00] ug/L	11:48:21
2	Sc 361.383	851402.3	851402.3	0.0000 %	11:49:38
2	Y 371.029	703154.2	703154.2	0.0000 %	11:49:38
2	Ag 328.068†	216.7	216.3	[0.00] ug/L	11:49:38
2	As 188.979†	-27.2	-27.1	[0.00] ug/L	11:49:58
2	B 249.677†	-471.0	-470.2	[0.00] ug/L	11:49:58
2	Ba 233.527†	17.0	17.0	[0.00] ug/L	11:49:58
2	Be 313.107†	-4386.4	-4379.3	[0.00] ug/L	11:49:38
2	Cd 226.502†	-197.4	-197.1	[0.00] ug/L	11:49:58
2	Co 228.616†	-80.6	-80.5	[0.00] ug/L	11:49:58
2	Cr 267.716†	148.4	148.2	[0.00] ug/L	11:49:58
2	Cu 324.752†	8157.3	8143.9	[0.00] ug/L	11:49:38
2	Mn 257.610†	571.2	570.3	[0.00] ug/L	11:49:58
2	Mo 202.031†	12.0	12.0	[0.00] ug/L	11:49:58
2	Ni 231.604†	118.8	118.6	[0.00] ug/L	11:49:58
2	P 214.914†	248.5	248.1	[0.00] ug/L	11:49:58
2	Pb 220.353†	-71.0	-70.9	[0.00] ug/L	11:49:58
2	S 181.975 Axial†	38.5	38.4	[0.00] ug/L	11:49:58
2	Sb 206.836†	44.0	43.9	[0.00] ug/L	11:49:58
2	Se 196.026†	-27.3	-27.3	[0.00] ug/L	11:49:58
2	Si 251.611†	610.7	609.7	[0.00] ug/L	11:49:58
2	Sn 189.927†	9.0	9.0	[0.00] ug/L	11:49:58
2	Ti 334.940†	-1445.2	-1442.8	[0.00] ug/L	11:49:38
2	Tl 190.801†	-38.7	-38.6	[0.00] ug/L	11:49:58
2	U 409.014†	-3487.1	-3481.4	[0.00] ug/L	11:49:38
2	V 292.402†	-1613.1	-1610.4	[0.00] ug/L	11:49:38
2	Zn 213.857†	685.3	684.2	[0.00] ug/L	11:49:58
2	SiO2†	596.6	595.6	[0.00] ug/L	11:50:33
3	Sc Radial	4057.8	4057.8	0.000 %	11:48:46
3	Y RADIAL	4214.3	4214.3	0.000 %	11:48:46

3	Al 396.153Radial†	-131.2	-137.4	[0.00] ug/L	11:48:46
3	Ca 317.933Radial†	18.7	19.6	[0.00] ug/L	11:49:06
3	Fe 238.204 Radial†	8.9	9.3	[0.00] ug/L	11:49:06
3	K 766.490 Radial†	3151.4	3301.3	[0.00] ug/L	11:48:46
3	Mg 279.077 IEC†	3.7	3.9	[0.00] ug/L	11:49:06
3	Na 589.592 Radial†	191.0	200.1	[0.00] ug/L	11:48:46
3	Sr 421.552†	87.5	91.6	[0.00] ug/L	11:48:46
3	Sc 361.383	849872.6	849872.6	0.0000 %	11:50:03
3	Y 371.029	702829.5	702829.5	0.0000 %	11:50:03
3	Ag 328.068†	301.7	301.8	[0.00] ug/L	11:50:03
3	As 188.979†	-30.1	-30.1	[0.00] ug/L	11:50:23
3	B 249.677†	-498.5	-498.6	[0.00] ug/L	11:50:23
3	Ba 233.527†	24.0	24.0	[0.00] ug/L	11:50:23
3	Be 313.107†	-4269.3	-4270.0	[0.00] ug/L	11:50:03
3	Cd 226.502†	-198.7	-198.7	[0.00] ug/L	11:50:23
3	Co 228.616†	-73.8	-73.8	[0.00] ug/L	11:50:23
3	Cr 267.716†	147.0	147.0	[0.00] ug/L	11:50:23
3	Cu 324.752†	8040.3	8041.6	[0.00] ug/L	11:50:03
3	Mn 257.610†	557.3	557.4	[0.00] ug/L	11:50:23
3	Mo 202.031†	15.0	15.0	[0.00] ug/L	11:50:23
3	Ni 231.604†	104.8	104.8	[0.00] ug/L	11:50:23
3	P 214.914†	244.7	244.8	[0.00] ug/L	11:50:23
3	Pb 220.353†	-74.4	-74.5	[0.00] ug/L	11:50:23
3	S 181.975 Axial†	49.9	49.9	[0.00] ug/L	11:50:23
3	Sb 206.836†	25.2	25.2	[0.00] ug/L	11:50:23
3	Se 196.026†	-21.1	-21.1	[0.00] ug/L	11:50:23
3	Si 251.611†	610.6	610.7	[0.00] ug/L	11:50:23
3	Sn 189.927†	20.3	20.3	[0.00] ug/L	11:50:23
3	Ti 334.940†	-1514.1	-1514.3	[0.00] ug/L	11:50:03
3	Tl 190.801†	-46.1	-46.1	[0.00] ug/L	11:50:23
3	U 409.014†	-3601.8	-3602.3	[0.00] ug/L	11:50:03
3	V 292.402†	-1737.8	-1738.1	[0.00] ug/L	11:50:03
3	Zn 213.857†	691.5	691.7	[0.00] ug/L	11:50:23
3	SiO2†	661.5	661.6	[0.00] ug/L	11:50:38

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	850008.8	1330.66	0.16%	0.0000	%
Sc Radial	4250.9	167.29	3.94%	0.000	%
Y 371.029	702728.4	484.42	0.07%	0.0000	%
Y RADIAL	4402.2	164.65	3.74%	0.000	%
Ag 328.068†	227.7	69.10	30.35%	[0.00]	ug/L
Al 396.153Radial†	-159.0	18.85	11.85%	[0.00]	ug/L
As 188.979†	-28.3	1.59	5.63%	[0.00]	ug/L
B 249.677†	-481.9	14.85	3.08%	[0.00]	ug/L
Ba 233.527†	18.8	4.53	24.06%	[0.00]	ug/L
Be 313.107†	-4339.1	60.13	1.39%	[0.00]	ug/L
Ca 317.933Radial†	18.3	4.03	22.00%	[0.00]	ug/L
Cd 226.502†	-195.5	4.27	2.19%	[0.00]	ug/L
Co 228.616†	-78.9	4.49	5.70%	[0.00]	ug/L
Cr 267.716†	149.7	3.66	2.45%	[0.00]	ug/L
Cu 324.752†	8094.1	51.19	0.63%	[0.00]	ug/L
Fe 238.204 Radial†	10.1	0.70	7.00%	[0.00]	ug/L
K 766.490 Radial†	3171.6	134.15	4.23%	[0.00]	ug/L
Mg 279.077 IEC†	2.7	1.06	38.89%	[0.00]	ug/L
Mn 257.610†	569.7	12.13	2.13%	[0.00]	ug/L
Mo 202.031†	10.5	5.52	52.76%	[0.00]	ug/L
Na 589.592 Radial†	207.1	13.71	6.62%	[0.00]	ug/L
Ni 231.604†	113.5	7.61	6.71%	[0.00]	ug/L
P 214.914†	242.0	7.90	3.27%	[0.00]	ug/L
Pb 220.353†	-73.6	2.33	3.17%	[0.00]	ug/L
S 181.975 Axial†	42.9	6.12	14.26%	[0.00]	ug/L
Sb 206.836†	35.7	9.55	26.76%	[0.00]	ug/L
Se 196.026†	-23.3	3.45	14.79%	[0.00]	ug/L
Si 251.611†	612.3	3.77	0.62%	[0.00]	ug/L
Sn 189.927†	12.6	6.63	52.56%	[0.00]	ug/L
Sr 421.552†	89.8	4.28	4.76%	[0.00]	ug/L
Ti 334.940†	-1492.9	43.54	2.92%	[0.00]	ug/L
Tl 190.801†	-39.1	6.75	17.25%	[0.00]	ug/L

U 409.014†	-3515.2	76.12	2.17%	[0.00] ug/L
V 292.402†	-1677.3	64.04	3.82%	[0.00] ug/L
Zn 213.857†	687.8	3.75	0.54%	[0.00] ug/L
SiO2†	619.5	36.53	5.90%	[0.00] ug/L

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

Autosampler Location: 2
Date Collected: 2/16/2010 11:52:49
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	4326.7	4326.7	102	%	11:54:47
1	Y RADIAL	4475.5	4475.5	101.7	%	11:54:47
1	K 766.490 Radial†	8282.3	4965.6	[1000]	ug/L	11:54:42
1	Sr 421.552†	13230.3	12908.7	[100]	ug/L	11:54:47
1	Sc 361.383	857644.3	857644.3	100.90	%	11:55:14
1	Y 371.029	706605.2	706605.2	100.55	%	11:55:14
1	Ag 328.068†	21213.1	20796.6	[100]	ug/L	11:55:14
1	As 188.979†	204.3	230.8	[100]	ug/L	11:55:34
1	B 249.677†	3602.8	4052.6	[100]	ug/L	11:55:14
1	Ba 233.527†	12531.5	12401.1	[100]	ug/L	11:55:14
1	Be 313.107†	269412.1	271352.7	[100]	ug/L	11:55:14
1	Cd 226.502†	8455.7	8575.9	[100]	ug/L	11:55:14
1	Co 228.616†	4621.3	4659.0	[100]	ug/L	11:55:34
1	Cr 267.716†	8768.1	8540.4	[100]	ug/L	11:55:14
1	Cu 324.752†	40432.8	31978.7	[100]	ug/L	11:55:14
1	Mn 257.610†	89563.0	88195.9	[100]	ug/L	11:55:14
1	Mo 202.031†	1344.8	1322.4	[100]	ug/L	11:55:34
1	Ni 231.604†	4108.5	3958.4	[100]	ug/L	11:55:14
1	P 214.914†	1121.5	869.6	[500]	ug/L	11:55:34
1	Pb 220.353†	730.7	797.8	[100]	ug/L	11:55:34
1	S 181.975 Axial†	200.6	155.9	[200]	ug/L	11:55:34
1	Sb 206.836†	322.2	283.6	[100]	ug/L	11:55:34
1	Se 196.026†	145.8	167.9	[100]	ug/L	11:55:34
1	Si 251.611†	16657.9	15897.3	[500]	ug/L	11:55:14
1	Sn 189.927†	556.8	539.2	[100]	ug/L	11:55:34
1	Ti 334.940†	61039.2	61988.6	[100]	ug/L	11:55:14
1	Tl 190.801†	283.9	320.5	[100]	ug/L	11:55:34
1	U 409.014†	229.5	3742.7	[100]	ug/L	11:55:14
1	V 292.402†	12039.9	13610.0	[100]	ug/L	11:55:14
1	Zn 213.857†	11119.5	10332.7	[100]	ug/L	11:55:14
1	SiO2†	16613.6	15846.2	[1069.5]	ug/L	11:56:30
2	Sc Radial	4389.6	4389.6	103	%	11:54:57
2	Y RADIAL	4530.3	4530.3	102.9	%	11:54:57
2	K 766.490 Radial†	8310.2	4876.1	[1000]	ug/L	11:54:52
2	Sr 421.552†	13344.8	12833.4	[100]	ug/L	11:54:57
2	Sc 361.383	851136.1	851136.1	100.13	%	11:55:39
2	Y 371.029	701838.8	701838.8	99.873	%	11:55:39
2	Ag 328.068†	20948.1	20692.7	[100]	ug/L	11:55:39
2	As 188.979†	200.6	228.6	[100]	ug/L	11:55:59
2	B 249.677†	3537.7	4014.9	[100]	ug/L	11:55:39
2	Ba 233.527†	12459.9	12424.5	[100]	ug/L	11:55:39
2	Be 313.107†	267429.2	271414.1	[100]	ug/L	11:55:39
2	Cd 226.502†	8399.7	8584.0	[100]	ug/L	11:55:39
2	Co 228.616†	4630.3	4703.0	[100]	ug/L	11:55:59
2	Cr 267.716†	8692.9	8531.7	[100]	ug/L	11:55:39
2	Cu 324.752†	40067.1	31919.9	[100]	ug/L	11:55:39
2	Mn 257.610†	88973.7	88286.1	[100]	ug/L	11:55:39
2	Mo 202.031†	1353.9	1341.7	[100]	ug/L	11:55:59
2	Ni 231.604†	4090.4	3971.5	[100]	ug/L	11:55:39
2	P 214.914†	1132.4	888.9	[500]	ug/L	11:55:59
2	Pb 220.353†	735.4	808.0	[100]	ug/L	11:55:59
2	S 181.975 Axial†	202.9	159.7	[200]	ug/L	11:55:59
2	Sb 206.836†	330.1	294.0	[100]	ug/L	11:55:59
2	Se 196.026†	149.0	172.1	[100]	ug/L	11:55:59
2	Si 251.611†	16475.5	15841.3	[500]	ug/L	11:55:39
2	Sn 189.927†	561.8	548.4	[100]	ug/L	11:55:59
2	Ti 334.940†	60616.0	62028.6	[100]	ug/L	11:55:39
2	Tl 190.801†	282.6	321.3	[100]	ug/L	11:55:59
2	U 409.014†	-139.6	3375.8	[100]	ug/L	11:55:39

2	V 292.402†	11905.3	13566.9	[100]	ug/L	11:55:39
2	Zn 213.857†	10978.5	10276.2	[100]	ug/L	11:55:39
2	SiO2†	16528.8	15887.4	[1069.5]	ug/L	11:56:35
3	Sc Radial	4340.9	4340.9	102	%	11:55:07
3	Y RADIAL	4482.8	4482.8	101.8	%	11:55:07
3	K 766.490 Radial†	8248.8	4906.1	[1000]	ug/L	11:55:02
3	Sr 421.552†	13137.1	12774.7	[100]	ug/L	11:55:07
3	Sc 361.383	857800.6	857800.6	100.92	%	11:56:05
3	Y 371.029	706558.2	706558.2	100.54	%	11:56:05
3	Ag 328.068†	21197.6	20777.4	[100]	ug/L	11:56:05
3	As 188.979†	215.2	241.5	[100]	ug/L	11:56:25
3	B 249.677†	3596.7	4045.9	[100]	ug/L	11:56:05
3	Ba 233.527†	12531.9	12399.2	[100]	ug/L	11:56:05
3	Be 313.107†	269021.5	270917.0	[100]	ug/L	11:56:05
3	Cd 226.502†	8433.2	8552.1	[100]	ug/L	11:56:05
3	Co 228.616†	4661.4	4697.9	[100]	ug/L	11:56:25
3	Cr 267.716†	8712.0	8483.2	[100]	ug/L	11:56:05
3	Cu 324.752†	40490.2	32028.3	[100]	ug/L	11:56:05
3	Mn 257.610†	89778.5	88393.3	[100]	ug/L	11:56:05
3	Mo 202.031†	1371.9	1349.0	[100]	ug/L	11:56:25
3	Ni 231.604†	4020.2	3870.2	[100]	ug/L	11:56:05
3	P 214.914†	1102.9	850.9	[500]	ug/L	11:56:25
3	Pb 220.353†	739.7	806.5	[100]	ug/L	11:56:25
3	S 181.975 Axial†	197.0	152.3	[200]	ug/L	11:56:25
3	Sb 206.836†	334.0	295.3	[100]	ug/L	11:56:25
3	Se 196.026†	143.8	165.8	[100]	ug/L	11:56:25
3	Si 251.611†	16592.5	15829.4	[500]	ug/L	11:56:05
3	Sn 189.927†	573.4	555.6	[100]	ug/L	11:56:25
3	Ti 334.940†	61178.7	62115.9	[100]	ug/L	11:56:05
3	Tl 190.801†	275.5	312.1	[100]	ug/L	11:56:25
3	U 409.014†	-76.2	3439.6	[100]	ug/L	11:56:05
3	V 292.402†	11980.2	13548.7	[100]	ug/L	11:56:05
3	Zn 213.857†	11104.4	10315.8	[100]	ug/L	11:56:05
3	SiO2†	16392.7	15624.3	[1069.5]	ug/L	11:56:40

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	855527.0	3803.40	0.44%	100.65	%
Sc Radial	4352.4	32.96	0.76%	102	%
Y 371.029	705000.7	2738.39	0.39%	100.32	%
Y RADIAL	4496.2	29.77	0.66%	102.1	%
Ag 328.068†	20755.6	55.29	0.27%	[100]	ug/L
As 188.979†	233.6	6.92	2.96%	[100]	ug/L
B 249.677†	4037.8	20.12	0.50%	[100]	ug/L
Ba 233.527†	12408.3	14.12	0.11%	[100]	ug/L
Be 313.107†	271227.9	271.05	0.10%	[100]	ug/L
Cd 226.502†	8570.7	16.60	0.19%	[100]	ug/L
Co 228.616†	4686.6	24.06	0.51%	[100]	ug/L
Cr 267.716†	8518.4	30.80	0.36%	[100]	ug/L
Cu 324.752†	31975.6	54.25	0.17%	[100]	ug/L
K 766.490 Radial†	4915.9	45.56	0.93%	[1000]	ug/L
Mn 257.610†	88291.7	98.84	0.11%	[100]	ug/L
Mo 202.031†	1337.7	13.74	1.03%	[100]	ug/L
Ni 231.604†	3933.3	55.08	1.40%	[100]	ug/L
P 214.914†	869.8	19.02	2.19%	[500]	ug/L
Pb 220.353†	804.1	5.53	0.69%	[100]	ug/L
S 181.975 Axial†	156.0	3.73	2.39%	[200]	ug/L
Sb 206.836†	291.0	6.37	2.19%	[100]	ug/L
Se 196.026†	168.6	3.20	1.90%	[100]	ug/L
Si 251.611†	15856.0	36.24	0.23%	[500]	ug/L
Sn 189.927†	547.7	8.19	1.50%	[100]	ug/L
Sr 421.552†	12838.9	67.16	0.52%	[100]	ug/L
Ti 334.940†	62044.4	65.06	0.10%	[100]	ug/L
Tl 190.801†	317.9	5.10	1.60%	[100]	ug/L
U 409.014†	3519.4	196.00	5.57%	[100]	ug/L
V 292.402†	13575.2	31.49	0.23%	[100]	ug/L
Zn 213.857†	10308.3	29.01	0.28%	[100]	ug/L
SiO2†	15786.0	141.51	0.90%	[1069.5]	ug/L

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

Autosampler Location: 3
Date Collected: 2/16/2010 11:58:51
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	4330.2	4330.2	102	%	12:00:44
1	Y RADIAL	4422.8	4422.8	100.5	%	12:00:44
1	Al 396.153Radial†	4894.9	4964.3	[5000]	ug/L	12:00:44
1	Ca 317.933Radial†	2794.1	2724.6	[5000]	ug/L	12:01:04
1	K 766.490 Radial†	28169.5	24482.0	[5000]	ug/L	12:00:44
1	Mg 279.077 IEC†	139.1	133.9	[5000]	ug/L	12:01:04
1	Sr 421.552†	66095.4	64795.1	[500]	ug/L	12:00:44
1	Sc 361.383	866347.8	866347.8	101.92	%	12:02:01
1	Y 371.029	705393.8	705393.8	100.38	%	12:02:01
1	Ag 328.068†	102655.0	100491.3	[500]	ug/L	12:02:06
1	As 188.979†	1145.3	1152.0	[500]	ug/L	12:02:26
1	B 249.677†	20124.2	20226.6	[500]	ug/L	12:02:06
1	Ba 233.527†	60693.3	59529.8	[500]	ug/L	12:02:06
1	Be 313.107†	1364703.3	1343304.7	[500]	ug/L	12:02:01
1	Cd 226.502†	41966.3	41370.3	[500]	ug/L	12:02:06
1	Co 228.616†	23476.8	23112.9	[500]	ug/L	12:02:06
1	Cr 267.716†	42389.5	41440.4	[500]	ug/L	12:02:06
1	Cu 324.752†	167280.7	156031.8	[500]	ug/L	12:02:06
1	Mn 257.610†	437426.4	428607.0	[500]	ug/L	12:02:01
1	Mo 202.031†	6700.2	6563.4	[500]	ug/L	12:02:26
1	Ni 231.604†	19416.7	18937.0	[500]	ug/L	12:02:06
1	P 214.914†	4699.9	4369.3	[2500]	ug/L	12:02:26
1	Pb 220.353†	3937.6	3936.9	[500]	ug/L	12:02:26
1	S 181.975 Axial†	799.5	741.5	[1000]	ug/L	12:02:26
1	Sb 206.836†	1500.5	1436.5	[500]	ug/L	12:02:26
1	Se 196.026†	836.3	843.8	[500]	ug/L	12:02:26
1	Si 251.611†	79738.1	77621.9	[2500]	ug/L	12:02:06
1	Sn 189.927†	2773.0	2708.1	[500]	ug/L	12:02:26
1	Ti 334.940†	300130.6	295963.2	[500]	ug/L	12:02:06
1	Tl 190.801†	1537.1	1547.3	[500]	ug/L	12:02:26
1	U 409.014†	13780.7	17036.0	[500]	ug/L	12:02:06
1	V 292.402†	66067.1	66498.4	[500]	ug/L	12:02:06
1	Zn 213.857†	51280.8	49625.9	[500]	ug/L	12:02:06
1	SiO2†	80660.6	78519.8	[5347.5]	ug/L	12:03:34
2	Sc Radial	4344.3	4344.3	102	%	12:01:09
2	Y RADIAL	4468.3	4468.3	101.5	%	12:01:09
2	Al 396.153Radial†	4910.7	4964.2	[5000]	ug/L	12:01:09
2	Ca 317.933Radial†	2793.7	2715.3	[5000]	ug/L	12:01:29
2	K 766.490 Radial†	28558.1	24772.5	[5000]	ug/L	12:01:09
2	Mg 279.077 IEC†	138.7	133.0	[5000]	ug/L	12:01:29
2	Sr 421.552†	66419.5	64901.7	[500]	ug/L	12:01:09
2	Sc 361.383	858388.4	858388.4	100.99	%	12:02:32
2	Y 371.029	699297.9	699297.9	99.512	%	12:02:32
2	Ag 328.068†	103582.4	102343.6	[500]	ug/L	12:02:37
2	As 188.979†	1144.2	1161.4	[500]	ug/L	12:02:57
2	B 249.677†	20485.5	20767.5	[500]	ug/L	12:02:37
2	Ba 233.527†	61659.8	61039.1	[500]	ug/L	12:02:37
2	Be 313.107†	1354883.7	1345996.4	[500]	ug/L	12:02:32
2	Cd 226.502†	42779.6	42557.5	[500]	ug/L	12:02:37
2	Co 228.616†	24005.1	23849.7	[500]	ug/L	12:02:37
2	Cr 267.716†	43144.2	42573.3	[500]	ug/L	12:02:37
2	Cu 324.752†	169031.7	159287.5	[500]	ug/L	12:02:37
2	Mn 257.610†	434446.7	429635.9	[500]	ug/L	12:02:32
2	Mo 202.031†	6686.9	6611.2	[500]	ug/L	12:02:57
2	Ni 231.604†	19622.6	19317.5	[500]	ug/L	12:02:37
2	P 214.914†	4705.0	4417.1	[2500]	ug/L	12:02:57
2	Pb 220.353†	3930.3	3965.5	[500]	ug/L	12:02:57
2	S 181.975 Axial†	798.8	748.1	[1000]	ug/L	12:02:57
2	Sb 206.836†	1490.1	1439.8	[500]	ug/L	12:02:57

2	Se 196.026†	835.2	850.4	[500]	ug/L	12:02:57
2	Si 251.611†	81067.4	79663.7	[2500]	ug/L	12:02:37
2	Sn 189.927†	2767.9	2728.3	[500]	ug/L	12:02:57
2	Ti 334.940†	303839.8	302366.6	[500]	ug/L	12:02:37
2	Tl 190.801†	1544.0	1568.0	[500]	ug/L	12:02:57
2	U 409.014†	13909.5	17288.9	[500]	ug/L	12:02:37
2	V 292.402†	66999.8	68023.0	[500]	ug/L	12:02:37
2	Zn 213.857†	52116.7	50920.2	[500]	ug/L	12:02:37
2	SiO2†	80314.9	78911.4	[5347.5]	ug/L	12:03:39
3	Sc Radial	4290.2	4290.2	101	%	12:01:34
3	Y RADIAL	4406.0	4406.0	100.1	%	12:01:34
3	Al 396.153Radial†	4861.9	4976.3	[5000]	ug/L	12:01:34
3	Ca 317.933Radial†	2745.8	2702.3	[5000]	ug/L	12:01:54
3	K 766.490 Radial†	28237.6	24807.1	[5000]	ug/L	12:01:34
3	Mg 279.077 IEC†	138.6	134.6	[5000]	ug/L	12:01:54
3	Sr 421.552†	65739.5	65046.9	[500]	ug/L	12:01:34
3	Sc 361.383	855708.1	855708.1	100.67	%	12:03:03
3	Y 371.029	697085.1	697085.1	99.197	%	12:03:03
3	Ag 328.068†	104159.6	103238.2	[500]	ug/L	12:03:08
3	As 188.979†	1163.1	1183.7	[500]	ug/L	12:03:28
3	B 249.677†	20548.9	20894.0	[500]	ug/L	12:03:08
3	Ba 233.527†	61705.2	61275.4	[500]	ug/L	12:03:08
3	Be 313.107†	1348590.3	1343947.4	[500]	ug/L	12:03:03
3	Cd 226.502†	42791.4	42701.9	[500]	ug/L	12:03:08
3	Co 228.616†	23992.5	23911.6	[500]	ug/L	12:03:08
3	Cr 267.716†	43136.0	42699.0	[500]	ug/L	12:03:08
3	Cu 324.752†	169705.8	160481.4	[500]	ug/L	12:03:08
3	Mn 257.610†	433059.5	429605.4	[500]	ug/L	12:03:03
3	Mo 202.031†	6673.9	6619.0	[500]	ug/L	12:03:28
3	Ni 231.604†	19755.0	19509.9	[500]	ug/L	12:03:08
3	P 214.914†	4719.4	4446.0	[2500]	ug/L	12:03:28
3	Pb 220.353†	3931.2	3978.6	[500]	ug/L	12:03:28
3	S 181.975 Axial†	808.5	760.2	[1000]	ug/L	12:03:28
3	Sb 206.836†	1510.6	1464.9	[500]	ug/L	12:03:28
3	Se 196.026†	838.7	856.4	[500]	ug/L	12:03:28
3	Si 251.611†	81093.2	79940.8	[2500]	ug/L	12:03:08
3	Sn 189.927†	2771.3	2740.2	[500]	ug/L	12:03:28
3	Ti 334.940†	304686.3	304149.8	[500]	ug/L	12:03:08
3	Tl 190.801†	1531.8	1560.7	[500]	ug/L	12:03:28
3	U 409.014†	13900.4	17323.0	[500]	ug/L	12:03:08
3	V 292.402†	67043.2	68274.0	[500]	ug/L	12:03:08
3	Zn 213.857†	52192.8	51157.4	[500]	ug/L	12:03:08
3	SiO2†	80944.3	79785.6	[5347.5]	ug/L	12:03:44

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	860148.1	5533.81	0.64%	101.19	%
Sc Radial	4321.6	28.05	0.65%	102	%
Y 371.029	700592.3	4302.94	0.61%	99.696	%
Y RADIAL	4432.4	32.23	0.73%	100.7	%
Ag 328.068†	102024.3	1400.99	1.37%	[500]	ug/L
Al 396.153Radial†	4968.3	6.98	0.14%	[5000]	ug/L
As 188.979†	1165.7	16.29	1.40%	[500]	ug/L
B 249.677†	20629.3	354.49	1.72%	[500]	ug/L
Ba 233.527†	60614.8	946.98	1.56%	[500]	ug/L
Be 313.107†	1344416.1	1405.75	0.10%	[500]	ug/L
Ca 317.933Radial†	2714.1	11.23	0.41%	[5000]	ug/L
Cd 226.502†	42209.9	730.66	1.73%	[500]	ug/L
Co 228.616†	23624.7	444.32	1.88%	[500]	ug/L
Cr 267.716†	42237.6	693.23	1.64%	[500]	ug/L
Cu 324.752†	158600.2	2303.05	1.45%	[500]	ug/L
K 766.490 Radial†	24687.2	178.57	0.72%	[5000]	ug/L
Mg 279.077 IEC†	133.8	0.80	0.60%	[5000]	ug/L
Mn 257.610†	429282.8	585.44	0.14%	[500]	ug/L
Mo 202.031†	6597.9	30.09	0.46%	[500]	ug/L
Ni 231.604†	19254.8	291.54	1.51%	[500]	ug/L
P 214.914†	4410.8	38.72	0.88%	[2500]	ug/L
Pb 220.353†	3960.3	21.32	0.54%	[500]	ug/L
S 181.975 Axial†	749.9	9.47	1.26%	[1000]	ug/L

Sb 206.836†	1447.1	15.51	1.07%	[500]	ug/L
Se 196.026†	850.2	6.30	0.74%	[500]	ug/L
Si 251.611†	79075.5	1266.40	1.60%	[2500]	ug/L
Sn 189.927†	2725.5	16.25	0.60%	[500]	ug/L
Sr 421.552†	64914.6	126.38	0.19%	[500]	ug/L
Ti 334.940†	300826.5	4305.14	1.43%	[500]	ug/L
Tl 190.801†	1558.7	10.53	0.68%	[500]	ug/L
U 409.014†	17216.0	156.79	0.91%	[500]	ug/L
V 292.402†	67598.5	960.94	1.42%	[500]	ug/L
Zn 213.857†	50567.8	824.29	1.63%	[500]	ug/L
SiO2†	79072.3	648.05	0.82%	[5347.5]	ug/L

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

Autosampler Location: 4
Date Collected: 2/16/2010 12:05:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	4297.1	4297.1	101	%	12:07:48
1	Y RADIAL	4399.9	4399.9	99.95	%	12:07:48
1	Al 396.153Radial†	9882.9	9935.6	[10000]	ug/L	12:07:48
1	Ca 317.933Radial†	5548.8	5470.8	[10000]	ug/L	12:07:48
1	Fe 238.204 Radial†	998.4	977.6	[10000]	ug/L	12:08:08
1	K 766.490 Radial†	53335.7	49590.4	[10000]	ug/L	12:07:48
1	Mg 279.077 IEC†	272.0	266.4	[10000]	ug/L	12:08:08
1	Na 589.592 Radial†	30738.5	30200.8	[10000]	ug/L	12:07:48
1	Sr 421.552†	130742.1	129245.9	[1000]	ug/L	12:07:48
1	Sc 361.383	850290.2	850290.2	100.03	%	12:09:11
1	Y 371.029	694357.4	694357.4	98.809	%	12:09:11
1	Ag 328.068†	209475.7	209178.7	[1000]	ug/L	12:09:11
1	As 188.979†	2351.5	2379.0	[1000]	ug/L	12:09:32
1	B 249.677†	42443.4	42911.3	[1000]	ug/L	12:09:11
1	Ba 233.527†	123558.0	123498.3	[1000]	ug/L	12:09:11
1	Be 313.107†	2720911.6	2724350.2	[1000]	ug/L	12:09:06
1	Cd 226.502†	85522.6	85689.8	[1000]	ug/L	12:09:11
1	Co 228.616†	47983.7	48046.7	[1000]	ug/L	12:09:11
1	Cr 267.716†	86528.8	86350.5	[1000]	ug/L	12:09:11
1	Cu 324.752†	337449.3	329243.5	[1000]	ug/L	12:09:11
1	Mn 257.610†	866578.5	865721.9	[1000]	ug/L	12:09:06
1	Mo 202.031†	13503.7	13488.7	[1000]	ug/L	12:09:32
1	Ni 231.604†	39239.7	39113.2	[1000]	ug/L	12:09:11
1	P 214.914†	9281.6	9036.6	[5000]	ug/L	12:09:32
1	Pb 220.353†	8008.1	8079.0	[1000]	ug/L	12:09:32
1	S 181.975 Axial†	1577.2	1533.8	[2000]	ug/L	12:09:32
1	Sb 206.836†	2990.0	2953.4	[1000]	ug/L	12:09:32
1	Se 196.026†	1692.7	1715.5	[1000]	ug/L	12:09:32
1	Si 251.611†	161659.4	160993.6	[5000]	ug/L	12:09:11
1	Sn 189.927†	5589.4	5575.0	[1000]	ug/L	12:09:32
1	Ti 334.940†	617562.9	618851.4	[1000]	ug/L	12:09:11
1	Tl 190.801†	3133.4	3171.5	[1000]	ug/L	12:09:32
1	U 409.014†	31887.1	35391.7	[1000]	ug/L	12:09:11
1	V 292.402†	137158.2	138790.1	[1000]	ug/L	12:09:11
1	Zn 213.857†	103334.0	102612.0	[1000]	ug/L	12:09:11
1	SiO2†	160870.9	160198.1	[10695]	ug/L	12:10:40
2	Sc Radial	4352.3	4352.3	102	%	12:08:13
2	Y RADIAL	4460.9	4460.9	101.3	%	12:08:13
2	Al 396.153Radial†	10007.9	9933.7	[10000]	ug/L	12:08:13
2	Ca 317.933Radial†	5646.2	5496.2	[10000]	ug/L	12:08:13
2	Fe 238.204 Radial†	989.5	956.4	[10000]	ug/L	12:08:33
2	K 766.490 Radial†	54007.2	49576.7	[10000]	ug/L	12:08:13
2	Mg 279.077 IEC†	277.2	268.0	[10000]	ug/L	12:08:33
2	Na 589.592 Radial†	31324.9	30387.7	[10000]	ug/L	12:08:13
2	Sr 421.552†	132904.2	129716.6	[1000]	ug/L	12:08:13
2	Sc 361.383	839445.4	839445.4	98.757	%	12:09:43
2	Y 371.029	685183.9	685183.9	97.503	%	12:09:43
2	Ag 328.068†	206897.9	209273.8	[1000]	ug/L	12:09:43
2	As 188.979†	2347.8	2405.7	[1000]	ug/L	12:10:03
2	B 249.677†	41812.0	42820.1	[1000]	ug/L	12:09:43
2	Ba 233.527†	122310.8	123831.1	[1000]	ug/L	12:09:43
2	Be 313.107†	2711028.7	2749482.7	[1000]	ug/L	12:09:38
2	Cd 226.502†	84641.7	85902.3	[1000]	ug/L	12:09:43
2	Co 228.616†	47590.9	48268.7	[1000]	ug/L	12:09:43
2	Cr 267.716†	85401.1	86326.0	[1000]	ug/L	12:09:43
2	Cu 324.752†	332443.3	328532.5	[1000]	ug/L	12:09:43
2	Mn 257.610†	864434.1	874742.2	[1000]	ug/L	12:09:38
2	Mo 202.031†	13411.3	13569.6	[1000]	ug/L	12:10:03
2	Ni 231.604†	38969.4	39285.5	[1000]	ug/L	12:09:43

2	P 214.914†	9237.6	9111.9	[5000]	ug/L	12:10:03
2	Pb 220.353†	7982.7	8156.7	[1000]	ug/L	12:10:03
2	S 181.975 Axial†	1563.7	1540.4	[2000]	ug/L	12:10:03
2	Sb 206.836†	2972.1	2973.8	[1000]	ug/L	12:10:03
2	Se 196.026†	1673.5	1717.9	[1000]	ug/L	12:10:03
2	Si 251.611†	159696.8	161094.1	[5000]	ug/L	12:09:43
2	Sn 189.927†	5579.8	5637.4	[1000]	ug/L	12:10:03
2	Ti 334.940†	608943.4	618099.1	[1000]	ug/L	12:09:43
2	Tl 190.801†	3119.6	3198.0	[1000]	ug/L	12:10:03
2	U 409.014†	31366.4	35276.3	[1000]	ug/L	12:09:43
2	V 292.402†	135527.3	138910.0	[1000]	ug/L	12:09:43
2	Zn 213.857†	102342.1	102942.2	[1000]	ug/L	12:09:43
2	SiO2†	160636.2	162038.1	[10695]	ug/L	12:10:45
3	Sc Radial	4297.5	4297.5	101	%	12:08:39
3	Y RADIAL	4423.8	4423.8	100.5	%	12:08:39
3	Al 396.153Radial†	9870.2	9922.2	[10000]	ug/L	12:08:39
3	Ca 317.933Radial†	5538.9	5460.5	[10000]	ug/L	12:08:39
3	Fe 238.204 Radial†	978.2	957.6	[10000]	ug/L	12:08:59
3	K 766.490 Radial†	53330.5	49580.4	[10000]	ug/L	12:08:39
3	Mg 279.077 IEC†	272.3	266.7	[10000]	ug/L	12:08:59
3	Na 589.592 Radial†	30764.4	30223.6	[10000]	ug/L	12:08:39
3	Sr 421.552†	130878.6	129369.2	[1000]	ug/L	12:08:39
3	Sc 361.383	841600.4	841600.4	99.011	%	12:10:15
3	Y 371.029	686704.9	686704.9	97.720	%	12:10:15
3	Ag 328.068†	207691.9	209539.3	[1000]	ug/L	12:10:15
3	As 188.979†	2328.7	2380.3	[1000]	ug/L	12:10:35
3	B 249.677†	41884.9	42785.3	[1000]	ug/L	12:10:15
3	Ba 233.527†	122357.9	123561.5	[1000]	ug/L	12:10:15
3	Be 313.107†	2688134.5	2719330.7	[1000]	ug/L	12:10:09
3	Cd 226.502†	84714.8	85756.7	[1000]	ug/L	12:10:15
3	Co 228.616†	47550.5	48104.5	[1000]	ug/L	12:10:15
3	Cr 267.716†	85613.9	86319.5	[1000]	ug/L	12:10:15
3	Cu 324.752†	334091.8	329335.6	[1000]	ug/L	12:10:15
3	Mn 257.610†	858428.4	866435.2	[1000]	ug/L	12:10:09
3	Mo 202.031†	13390.8	13514.2	[1000]	ug/L	12:10:35
3	Ni 231.604†	38839.2	39113.7	[1000]	ug/L	12:10:15
3	P 214.914†	9187.0	9036.8	[5000]	ug/L	12:10:35
3	Pb 220.353†	7943.8	8096.7	[1000]	ug/L	12:10:35
3	S 181.975 Axial†	1565.8	1538.6	[2000]	ug/L	12:10:35
3	Sb 206.836†	2989.0	2983.2	[1000]	ug/L	12:10:35
3	Se 196.026†	1680.3	1720.4	[1000]	ug/L	12:10:35
3	Si 251.611†	160054.4	161041.2	[5000]	ug/L	12:10:15
3	Sn 189.927†	5572.8	5615.9	[1000]	ug/L	12:10:35
3	Ti 334.940†	611283.7	618883.9	[1000]	ug/L	12:10:15
3	Tl 190.801†	3103.6	3173.7	[1000]	ug/L	12:10:35
3	U 409.014†	31685.8	35517.5	[1000]	ug/L	12:10:15
3	V 292.402†	135693.6	138726.6	[1000]	ug/L	12:10:15
3	Zn 213.857†	102467.5	102803.5	[1000]	ug/L	12:10:15
3	SiO2†	159790.3	160767.3	[10695]	ug/L	12:10:51

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	843778.7	5741.17	0.68%	99.267	%
Sc Radial	4315.7	31.77	0.74%	102	%
Y 371.029	688748.7	4916.41	0.71%	98.011	%
Y RADIAL	4428.2	30.70	0.69%	100.6	%
Ag 328.068†	209330.6	186.88	0.09%	[1000]	ug/L
Al 396.153Radial†	9930.5	7.22	0.07%	[10000]	ug/L
As 188.979†	2388.3	15.03	0.63%	[1000]	ug/L
B 249.677†	42838.9	65.08	0.15%	[1000]	ug/L
Ba 233.527†	123630.3	176.75	0.14%	[1000]	ug/L
Be 313.107†	2731054.6	16155.39	0.59%	[1000]	ug/L
Ca 317.933Radial†	5475.8	18.41	0.34%	[10000]	ug/L
Cd 226.502†	85782.9	108.69	0.13%	[1000]	ug/L
Co 228.616†	48139.9	115.15	0.24%	[1000]	ug/L
Cr 267.716†	86332.0	16.33	0.02%	[1000]	ug/L
Cu 324.752†	329037.2	439.48	0.13%	[1000]	ug/L
Fe 238.204 Radial†	963.9	11.92	1.24%	[10000]	ug/L
K 766.490 Radial†	49582.5	7.08	0.01%	[10000]	ug/L

Mg 279.077 IEC†	267.0	0.89	0.33%	[10000]	ug/L
Mn 257.610†	868966.4	5014.62	0.58%	[1000]	ug/L
Mo 202.031†	13524.2	41.36	0.31%	[1000]	ug/L
Na 589.592 Radial†	30270.7	101.98	0.34%	[10000]	ug/L
Ni 231.604†	39170.8	99.35	0.25%	[1000]	ug/L
P 214.914†	9061.8	43.43	0.48%	[5000]	ug/L
Pb 220.353†	8110.8	40.74	0.50%	[1000]	ug/L
S 181.975 Axial†	1537.6	3.45	0.22%	[2000]	ug/L
Sb 206.836†	2970.1	15.24	0.51%	[1000]	ug/L
Se 196.026†	1717.9	2.46	0.14%	[1000]	ug/L
Si 251.611†	161043.0	50.23	0.03%	[5000]	ug/L
Sn 189.927†	5609.4	31.70	0.57%	[1000]	ug/L
Sr 421.552†	129443.9	244.03	0.19%	[1000]	ug/L
Ti 334.940†	618611.5	444.02	0.07%	[1000]	ug/L
Tl 190.801†	3181.0	14.69	0.46%	[1000]	ug/L
U 409.014†	35395.2	120.64	0.34%	[1000]	ug/L
V 292.402†	138808.9	93.16	0.07%	[1000]	ug/L
Zn 213.857†	102785.9	165.80	0.16%	[1000]	ug/L
SiO2†	161001.2	942.03	0.59%	[10695]	ug/L

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

Autosampler Location: 5
Date Collected: 2/16/2010 12:13:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	4283.2	4283.2	101	%	12:15:15
1	Y RADIAL	4369.2	4369.2	99.25	%	12:15:15
1	Al 396.153Radial†	49493.0	49278.7	[50000]	ug/L	12:14:55
1	Ca 317.933Radial†	26610.3	26391.3	[50000]	ug/L	12:14:55
1	Fe 238.204 Radial†	1891.8	1867.5	[20000]	ug/L	12:15:15
1	Mg 279.077 IEC†	1308.9	1296.3	[50000]	ug/L	12:15:15
1	Na 589.592 Radial†	59870.7	59212.1	[20000]	ug/L	12:14:55
1	Sc 361.383	840869.2	840869.2	98.925	%	12:16:12
1	Y 371.029	681000.5	681000.5	96.908	%	12:16:12
2	Sc Radial	4263.4	4263.4	100	%	12:15:40
2	Y RADIAL	4348.3	4348.3	98.78	%	12:15:40
2	Al 396.153Radial†	50662.4	50672.3	[50000]	ug/L	12:15:20
2	Ca 317.933Radial†	27188.2	27089.9	[50000]	ug/L	12:15:20
2	Fe 238.204 Radial†	1890.5	1874.9	[20000]	ug/L	12:15:40
2	Mg 279.077 IEC†	1301.2	1294.6	[50000]	ug/L	12:15:40
2	Na 589.592 Radial†	61100.3	60713.4	[20000]	ug/L	12:15:20
2	Sc 361.383	841226.2	841226.2	98.967	%	12:16:18
2	Y 371.029	682042.3	682042.3	97.056	%	12:16:18
3	Sc Radial	4282.5	4282.5	101	%	12:16:05
3	Y RADIAL	4375.8	4375.8	99.40	%	12:16:05
3	Al 396.153Radial†	50251.2	50038.9	[50000]	ug/L	12:15:45
3	Ca 317.933Radial†	27070.7	26852.4	[50000]	ug/L	12:15:45
3	Fe 238.204 Radial†	1893.0	1869.0	[20000]	ug/L	12:16:05
3	Mg 279.077 IEC†	1298.9	1286.6	[50000]	ug/L	12:16:05
3	Na 589.592 Radial†	60167.0	59515.4	[20000]	ug/L	12:15:45
3	Sc 361.383	841005.8	841005.8	98.941	%	12:16:23
3	Y 371.029	680903.1	680903.1	96.894	%	12:16:23

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	841033.7	180.11	0.02%	98.944	%
Sc Radial	4276.4	11.22	0.26%	101	%
Y 371.029	681315.3	631.51	0.09%	96.953	%
Y RADIAL	4364.5	14.35	0.33%	99.14	%
Al 396.153Radial†	49996.6	697.75	1.40%	[50000]	ug/L
Ca 317.933Radial†	26777.8	355.23	1.33%	[50000]	ug/L
Fe 238.204 Radial†	1870.4	3.92	0.21%	[20000]	ug/L
Mg 279.077 IEC†	1292.5	5.20	0.40%	[50000]	ug/L
Na 589.592 Radial†	59813.6	793.85	1.33%	[20000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	208.3	0.00000	0.999949	
Al 396.153Radial	3	Lin Thru 0	0.0	0.9996	0.00000	0.999999	
As 188.979	3	Lin Thru 0	0.0	2.377	0.00000	0.999953	
B 249.677	3	Lin Thru 0	0.0	42.51	0.00000	0.999880	
Ba 233.527	3	Lin Thru 0	0.0	123.2	0.00000	0.999970	
Be 313.107	3	Lin Thru 0	0.0	2723	0.00000	0.999981	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5361	0.00000	0.999990	
Cd 226.502	3	Lin Thru 0	0.0	85.51	0.00000	0.999980	
Co 228.616	3	Lin Thru 0	0.0	47.95	0.00000	0.999971	
Cr 267.716	3	Lin Thru 0	0.0	85.95	0.00000	0.999963	
Cu 324.752	3	Lin Thru 0	0.0	326.6	0.00000	0.999894	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0941	0.00000	0.999926	
K 766.490 Radial	3	Lin Thru 0	0.0	4.954	0.00000	0.999998	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0259	0.00000	0.999975
Mn 257.610	3	Lin Thru 0	0.0	867.0	0.00000	0.999987
Mo 202.031	3	Lin Thru 0	0.0	13.46	0.00000	0.999953
Na 589.592 Radia	2	Lin Thru 0	0.0	2.998	0.00000	0.999988
Ni 231.604	3	Lin Thru 0	0.0	39.04	0.00000	0.999977
P 214.914	3	Lin Thru 0	0.0	1.802	0.00000	0.999939
Pb 220.353	3	Lin Thru 0	0.0	8.073	0.00000	0.999956
S 181.975 Axial	3	Lin Thru 0	0.0	0.7651	0.00000	0.999950
Sb 206.836	3	Lin Thru 0	0.0	2.955	0.00000	0.999947
Se 196.026	3	Lin Thru 0	0.0	1.714	0.00000	0.999991
Si 251.611	3	Lin Thru 0	0.0	32.09	0.00000	0.999974
Sn 189.927	3	Lin Thru 0	0.0	5.577	0.00000	0.999935
Sr 421.552	3	Lin Thru 0	0.0	129.5	0.00000	0.999999
Ti 334.940	3	Lin Thru 0	0.0	615.3	0.00000	0.999939
Tl 190.801	3	Lin Thru 0	0.0	3.168	0.00000	0.999968
U 409.014	3	Lin Thru 0	0.0	35.20	0.00000	0.999941
V 292.402	3	Lin Thru 0	0.0	138.1	0.00000	0.999945
Zn 213.857	3	Lin Thru 0	0.0	102.5	0.00000	0.999979
SiO2	3	Lin Thru 0	0.0	15.00	0.00000	0.999974

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/16/2010 12:18:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4360.4	4360.4	103	%			12:20:27
1	Y RADIAL	4469.4	4469.4	101.5	%			12:20:27
1	Al 396.153Radial†	4929.7	4965.0	4941.6	ug/L	4941.6	ppb	12:20:27
1	Ca 317.933Radial†	2777.9	2689.8	5017.5	ug/L	5017.5	ppb	12:20:47
1	Fe 238.204 Radial†	508.3	485.4	5173.6	ug/L	5173.6	ppb	12:20:47
1	K 766.490 Radial†	15571.7	12009.2	2420.8	ug/L	2420.8	ppb	12:20:27
1	Mg 279.077 IEC†	143.2	136.9	5288.7	ug/L	5288.7	ppb	12:20:47
1	Na 589.592 Radial†	7893.9	7488.7	2497.9	ug/L	2497.9	ppb	12:20:27
1	Sr 421.552†	69074.7	67250.6	519.22	ug/L	519.22	ppb	12:20:27
1	Sc 361.383	868942.2	868942.2	102.23	%			12:21:45
1	Y 371.029	709496.3	709496.3	100.96	%			12:21:45
1	Ag 328.068†	53459.2	52066.7	253.28	ug/L	253.28	ppb	12:21:45
1	As 188.979†	1082.4	1087.1	461.66	ug/L	461.66	ppb	12:22:05
1	B 249.677†	21376.4	21392.6	501.06	ug/L	501.06	ppb	12:21:45
1	Ba 233.527†	62495.5	61115.0	497.48	ug/L	497.48	ppb	12:21:45
1	Be 313.107†	704444.7	693434.6	255.82	ug/L	255.82	ppb	12:21:45
1	Cd 226.502†	41203.6	40501.3	473.50	ug/L	473.50	ppb	12:22:05
1	Co 228.616†	23747.1	23308.5	486.20	ug/L	486.20	ppb	12:22:05
1	Cr 267.716†	41778.0	40718.0	474.32	ug/L	474.32	ppb	12:21:45
1	Cu 324.752†	172222.0	160375.4	491.03	ug/L	491.03	ppb	12:21:45
1	Mn 257.610†	449261.8	438903.1	506.52	ug/L	506.52	ppb	12:21:45
1	Mo 202.031†	7181.9	7015.0	521.72	ug/L	521.72	ppb	12:22:05
1	Ni 231.604†	19443.8	18906.6	483.98	ug/L	483.98	ppb	12:22:05
1	P 214.914†	4754.1	4408.5	2350.6	ug/L	2350.6	ppb	12:22:05
1	Pb 220.353†	3947.3	3934.9	489.12	ug/L	489.12	ppb	12:22:05
1	S 181.975 Axial†	1926.1	1841.2	2405.5	ug/L	2405.5	ppb	12:22:05
1	Sb 206.836†	1511.1	1442.5	506.98	ug/L	506.98	ppb	12:22:05
1	Se 196.026†	4383.0	4310.8	2533.2	ug/L	2533.2	ppb	12:22:05
1	Si 251.611†	157732.7	153683.6	4782.7	ug/L	4782.7	ppb	12:21:45
1	Sn 189.927†	2996.1	2918.2	524.11	ug/L	524.11	ppb	12:22:05
1	Ti 334.940†	309110.1	303867.8	493.74	ug/L	493.74	ppb	12:21:45
1	Tl 190.801†	1610.0	1614.0	512.87	ug/L	512.87	ppb	12:22:05
1	U 409.014†	13900.0	17112.3	484.46	ug/L	484.46	ppb	12:21:45
1	V 292.402†	68110.9	68304.1	501.66	ug/L	501.66	ppb	12:21:45
1	Zn 213.857†	53475.5	51622.6	499.31	ug/L	499.31	ppb	12:21:45
1	SiO2†	155745.2	151732.1	10102	ug/L	10102	ppb	12:23:03
2	Sc Radial	4411.6	4411.6	104	%			12:20:53
2	Y RADIAL	4512.2	4512.2	102.5	%			12:20:53
2	Al 396.153Radial†	4948.5	4927.3	4903.3	ug/L	4903.3	ppb	12:20:53
2	Ca 317.933Radial†	2749.9	2631.4	4908.5	ug/L	4908.5	ppb	12:21:13
2	Fe 238.204 Radial†	499.6	471.3	5023.6	ug/L	5023.6	ppb	12:21:13
2	K 766.490 Radial†	15645.9	11904.4	2399.6	ug/L	2399.6	ppb	12:20:53
2	Mg 279.077 IEC†	144.7	136.7	5279.5	ug/L	5279.5	ppb	12:21:13
2	Na 589.592 Radial†	8025.8	7526.4	2510.5	ug/L	2510.5	ppb	12:20:53
2	Sr 421.552†	69566.6	66942.6	516.85	ug/L	516.85	ppb	12:20:53
2	Sc 361.383	856794.2	856794.2	100.80	%			12:22:11
2	Y 371.029	699854.6	699854.6	99.591	%			12:22:11
2	Ag 328.068†	53010.6	52363.1	254.66	ug/L	254.66	ppb	12:22:11
2	As 188.979†	1087.6	1107.3	470.09	ug/L	470.09	ppb	12:22:31
2	B 249.677†	20918.9	21235.1	497.35	ug/L	497.35	ppb	12:22:11
2	Ba 233.527†	61691.2	61183.8	498.04	ug/L	498.04	ppb	12:22:11
2	Be 313.107†	694167.9	693009.6	255.67	ug/L	255.67	ppb	12:22:11
2	Cd 226.502†	41342.3	41210.4	481.81	ug/L	481.81	ppb	12:22:31
2	Co 228.616†	23881.3	23771.0	495.88	ug/L	495.88	ppb	12:22:31
2	Cr 267.716†	41313.9	40837.0	475.71	ug/L	475.71	ppb	12:22:11
2	Cu 324.752†	169360.3	159925.0	489.65	ug/L	489.65	ppb	12:22:11
2	Mn 257.610†	442690.7	438615.1	506.17	ug/L	506.17	ppb	12:22:11
2	Mo 202.031†	7247.3	7179.4	533.92	ug/L	533.92	ppb	12:22:31
2	Ni 231.604†	19570.2	19301.6	494.10	ug/L	494.10	ppb	12:22:31

2	P 214.914†	4762.4	4482.7	2392.2	ug/L	2392.2 ppb	12:22:31
2	Pb 220.353†	3959.9	4002.1	497.48	ug/L	497.48 ppb	12:22:31
2	S 181.975 Axial†	1953.1	1894.7	2475.3	ug/L	2475.3 ppb	12:22:31
2	Sb 206.836†	1526.7	1478.9	519.70	ug/L	519.70 ppb	12:22:31
2	Se 196.026†	4408.4	4396.9	2582.9	ug/L	2582.9 ppb	12:22:31
2	Si 251.611†	155299.4	153457.2	4775.5	ug/L	4775.5 ppb	12:22:11
2	Sn 189.927†	2993.1	2956.8	531.01	ug/L	531.01 ppb	12:22:31
2	Ti 334.940†	304709.0	303788.7	493.60	ug/L	493.60 ppb	12:22:11
2	Tl 190.801†	1632.9	1659.1	527.04	ug/L	527.04 ppb	12:22:31
2	U 409.014†	13328.9	16738.6	473.86	ug/L	473.86 ppb	12:22:11
2	V 292.402†	67295.7	68440.0	502.82	ug/L	502.82 ppb	12:22:11
2	Zn 213.857†	52681.3	51576.3	498.81	ug/L	498.81 ppb	12:22:11
2	SiO2†	157647.2	155779.2	10372	ug/L	10372 ppb	12:23:08
3	Sc Radial	4390.1	4390.1	103	%		12:21:18
3	Y RADIAL	4517.5	4517.5	102.6	%		12:21:18
3	Al 396.153Radial†	4976.6	4977.9	4954.2	ug/L	4954.2 ppb	12:21:18
3	Ca 317.933Radial†	2742.3	2637.1	4919.1	ug/L	4919.1 ppb	12:21:38
3	Fe 238.204 Radial†	498.6	472.7	5038.8	ug/L	5038.8 ppb	12:21:38
3	K 766.490 Radial†	15612.6	11946.0	2408.1	ug/L	2408.1 ppb	12:21:18
3	Mg 279.077 IEC†	146.7	139.4	5383.5	ug/L	5383.5 ppb	12:21:38
3	Na 589.592 Radial†	7813.8	7358.9	2454.6	ug/L	2454.6 ppb	12:21:18
3	Sr 421.552†	69255.7	66969.9	517.06	ug/L	517.06 ppb	12:21:18
3	Sc 361.383	858961.3	858961.3	101.05	%		12:22:37
3	Y 371.029	702178.7	702178.7	99.922	%		12:22:37
3	Ag 328.068†	52864.1	52085.4	253.32	ug/L	253.32 ppb	12:22:37
3	As 188.979†	1081.2	1098.2	466.26	ug/L	466.26 ppb	12:22:57
3	B 249.677†	20968.3	21231.6	497.28	ug/L	497.28 ppb	12:22:37
3	Ba 233.527†	61523.0	60863.0	495.43	ug/L	495.43 ppb	12:22:37
3	Be 313.107†	694240.8	691344.2	255.05	ug/L	255.05 ppb	12:22:37
3	Cd 226.502†	41092.7	40859.9	477.71	ug/L	477.71 ppb	12:22:57
3	Co 228.616†	23690.0	23522.0	490.68	ug/L	490.68 ppb	12:22:57
3	Cr 267.716†	41244.1	40664.6	473.70	ug/L	473.70 ppb	12:22:37
3	Cu 324.752†	169502.3	159641.5	488.78	ug/L	488.78 ppb	12:22:37
3	Mn 257.610†	441818.6	436644.0	503.89	ug/L	503.89 ppb	12:22:37
3	Mo 202.031†	7191.9	7106.5	528.50	ug/L	528.50 ppb	12:22:57
3	Ni 231.604†	19436.5	19120.4	489.46	ug/L	489.46 ppb	12:22:57
3	P 214.914†	4751.2	4459.8	2379.6	ug/L	2379.6 ppb	12:22:57
3	Pb 220.353†	3944.2	3976.6	494.32	ug/L	494.32 ppb	12:22:57
3	S 181.975 Axial†	1932.7	1869.6	2442.6	ug/L	2442.6 ppb	12:22:57
3	Sb 206.836†	1515.4	1463.9	514.48	ug/L	514.48 ppb	12:22:57
3	Se 196.026†	4365.2	4343.0	2551.5	ug/L	2551.5 ppb	12:22:57
3	Si 251.611†	155175.8	152946.2	4759.7	ug/L	4759.7 ppb	12:22:37
3	Sn 189.927†	2993.3	2949.5	529.70	ug/L	529.70 ppb	12:22:57
3	Ti 334.940†	304554.5	302873.1	492.11	ug/L	492.11 ppb	12:22:37
3	Tl 190.801†	1617.9	1640.2	521.08	ug/L	521.08 ppb	12:22:57
3	U 409.014†	13447.0	16822.1	476.23	ug/L	476.23 ppb	12:22:37
3	V 292.402†	67158.6	68135.9	500.55	ug/L	500.55 ppb	12:22:37
3	Zn 213.857†	52611.6	51375.5	496.88	ug/L	496.88 ppb	12:22:37
3	SiO2†	156707.7	154454.9	10284	ug/L	10284 ppb	12:23:13

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	861565.9	101.36	%	0.762				0.75%
Sc Radial	4387.4	103	%	0.6				0.59%
Y 371.029	703843.2	100.16	%	0.716				0.71%
Y RADIAL	4499.7	102.2	%	0.60				0.59%
Ag 328.068†	52171.7	253.75	ug/L	0.787	253.75	ppb	0.787	0.31%
QC value within limits for Ag 328.068 Recovery = 101.50%								
Al 396.153Radial†	4956.7	4933.0	ug/L	26.50	4933.0	ppb	26.50	0.54%
QC value within limits for Al 396.153Radial Recovery = 98.66%								
As 188.979†	1097.6	466.00	ug/L	4.219	466.00	ppb	4.219	0.91%
QC value within limits for As 188.979 Recovery = 93.20%								
B 249.677†	21286.4	498.57	ug/L	2.161	498.57	ppb	2.161	0.43%
QC value within limits for B 249.677 Recovery = 99.71%								
Ba 233.527†	61053.9	496.98	ug/L	1.374	496.98	ppb	1.374	0.28%
QC value within limits for Ba 233.527 Recovery = 99.40%								
Be 313.107†	692596.1	255.51	ug/L	0.408	255.51	ppb	0.408	0.16%
QC value within limits for Be 313.107 Recovery = 102.21%								
Ca 317.933Radial†	2652.7	4948.4	ug/L	60.08	4948.4	ppb	60.08	1.21%

QC value within limits for Ca 317.933Radial Recovery = 98.97%

Cd 226.502†	40857.2	477.68 ug/L	4.156	477.68 ppb	4.156	0.87%
QC value within limits for Cd 226.502 Recovery = 95.54%						
Co 228.616†	23533.9	490.92 ug/L	4.842	490.92 ppb	4.842	0.99%
QC value within limits for Co 228.616 Recovery = 98.18%						
Cr 267.716†	40739.9	474.58 ug/L	1.029	474.58 ppb	1.029	0.22%
QC value within limits for Cr 267.716 Recovery = 94.92%						
Cu 324.752†	159980.6	489.82 ug/L	1.134	489.82 ppb	1.134	0.23%
QC value within limits for Cu 324.752 Recovery = 97.96%						
Fe 238.204 Radial†	476.5	5078.7 ug/L	82.55	5078.7 ppb	82.55	1.63%
QC value within limits for Fe 238.204 Radial Recovery = 101.57%						
K 766.490 Radial†	11953.2	2409.5 ug/L	10.64	2409.5 ppb	10.64	0.44%
QC value within limits for K 766.490 Radial Recovery = 96.38%						
Mg 279.077 IEC†	137.7	5317.2 ug/L	57.60	5317.2 ppb	57.60	1.08%
QC value within limits for Mg 279.077 IEC Recovery = 106.34%						
Mn 257.610†	438054.1	505.53 ug/L	1.425	505.53 ppb	1.425	0.28%
QC value within limits for Mn 257.610 Recovery = 101.11%						
Mo 202.031†	7100.3	528.05 ug/L	6.116	528.05 ppb	6.116	1.16%
QC value within limits for Mo 202.031 Recovery = 105.61%						
Na 589.592 Radial†	7458.0	2487.7 ug/L	29.30	2487.7 ppb	29.30	1.18%
QC value within limits for Na 589.592 Radial Recovery = 99.51%						
Ni 231.604†	19109.6	489.18 ug/L	5.062	489.18 ppb	5.062	1.03%
QC value within limits for Ni 231.604 Recovery = 97.84%						
P 214.914†	4450.3	2374.1 ug/L	21.35	2374.1 ppb	21.35	0.90%
QC value within limits for P 214.914 Recovery = 94.97%						
Pb 220.353†	3971.2	493.64 ug/L	4.222	493.64 ppb	4.222	0.86%
QC value within limits for Pb 220.353 Recovery = 98.73%						
S 181.975 Axial†	1868.5	2441.1 ug/L	34.96	2441.1 ppb	34.96	1.43%
QC value within limits for S 181.975 Axial Recovery = 97.64%						
Sb 206.836†	1461.8	513.72 ug/L	6.393	513.72 ppb	6.393	1.24%
QC value within limits for Sb 206.836 Recovery = 102.74%						
Se 196.026†	4350.2	2555.9 ug/L	25.16	2555.9 ppb	25.16	0.98%
QC value within limits for Se 196.026 Recovery = 102.23%						
Si 251.611†	153362.3	4772.7 ug/L	11.80	4772.7 ppb	11.80	0.25%
QC value within limits for Si 251.611 Recovery = 95.45%						
Sn 189.927†	2941.5	528.27 ug/L	3.663	528.27 ppb	3.663	0.69%
QC value within limits for Sn 189.927 Recovery = 105.65%						
Sr 421.552†	67054.4	517.71 ug/L	1.316	517.71 ppb	1.316	0.25%
QC value within limits for Sr 421.552 Recovery = 103.54%						
Ti 334.940†	303509.9	493.15 ug/L	0.906	493.15 ppb	0.906	0.18%
QC value within limits for Ti 334.940 Recovery = 98.63%						
Tl 190.801†	1637.8	520.33 ug/L	7.117	520.33 ppb	7.117	1.37%
QC value within limits for Tl 190.801 Recovery = 104.07%						
U 409.014†	16891.0	478.19 ug/L	5.565	478.19 ppb	5.565	1.16%
QC value within limits for U 409.014 Recovery = 95.64%						
V 292.402†	68293.4	501.68 ug/L	1.136	501.68 ppb	1.136	0.23%
QC value within limits for V 292.402 Recovery = 100.34%						
Zn 213.857†	51524.8	498.33 ug/L	1.281	498.33 ppb	1.281	0.26%
QC value within limits for Zn 213.857 Recovery = 99.67%						
SiO2†	153988.7	10253 ug/L	137.4	10253 ppb	137.4	1.34%
QC value within limits for SiO2 Recovery = 95.86%						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/16/2010 12:25:24
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4455.3	4455.3	105	%			12:27:17
1	Y RADIAL	4561.8	4561.8	103.6	%			12:27:17
1	Al 396.153Radial†	-148.1	17.7	17.696	ug/L	17.696	ppb	12:27:17
1	Ca 317.933Radial†	20.8	1.5	2.8793	ug/L	2.8793	ppb	12:27:37
1	Fe 238.204 Radial†	11.5	0.9	9.5190	ug/L	9.5190	ppb	12:27:37
1	K 766.490 Radial†	3239.8	-80.5	-16.259	ug/L	-16.259	ppb	12:27:17
1	Mg 279.077 IEC†	3.4	0.5	20.058	ug/L	20.058	ppb	12:27:37
1	Na 589.592 Radial†	320.3	98.5	32.864	ug/L	32.864	ppb	12:27:17
1	Sr 421.552†	101.2	6.7	0.0520	ug/L	0.0520	ppb	12:27:17
1	Sc 361.383	850103.5	850103.5	100.01	%			12:28:34
1	Y 371.029	701164.2	701164.2	99.777	%			12:28:34
1	Ag 328.068†	351.9	124.2	0.6024	ug/L	0.6024	ppb	12:28:34
1	As 188.979†	-33.8	-5.5	-2.3138	ug/L	-2.3138	ppb	12:28:54
1	B 249.677†	-258.3	223.6	5.2598	ug/L	5.2598	ppb	12:28:54
1	Ba 233.527†	28.2	9.4	0.0763	ug/L	0.0763	ppb	12:28:54
1	Be 313.107†	-4315.7	23.9	0.0092	ug/L	0.0092	ppb	12:28:34
1	Cd 226.502†	-206.2	-10.7	-0.1266	ug/L	-0.1266	ppb	12:28:54
1	Co 228.616†	-79.3	-0.4	-0.0076	ug/L	-0.0076	ppb	12:28:54
1	Cr 267.716†	168.0	18.3	0.2141	ug/L	0.2141	ppb	12:28:54
1	Cu 324.752†	8192.7	97.7	0.3021	ug/L	0.3021	ppb	12:28:34
1	Mn 257.610†	656.9	87.1	0.1006	ug/L	0.1006	ppb	12:28:54
1	Mo 202.031†	21.2	10.8	0.8000	ug/L	0.8000	ppb	12:28:54
1	Ni 231.604†	106.4	-7.2	-0.1832	ug/L	-0.1832	ppb	12:28:54
1	P 214.914†	253.2	11.1	6.1445	ug/L	6.1445	ppb	12:28:54
1	Pb 220.353†	-77.9	-4.3	-0.5330	ug/L	-0.5330	ppb	12:28:54
1	S 181.975 Axial†	47.0	4.1	5.3073	ug/L	5.3073	ppb	12:28:54
1	Sb 206.836†	45.0	9.3	3.1996	ug/L	3.1996	ppb	12:28:54
1	Se 196.026†	-21.5	1.9	1.1248	ug/L	1.1248	ppb	12:28:54
1	Si 251.611†	630.4	18.1	0.5531	ug/L	0.5531	ppb	12:28:54
1	Sn 189.927†	26.6	13.9	2.5008	ug/L	2.5008	ppb	12:28:54
1	Ti 334.940†	-1382.2	110.9	0.1808	ug/L	0.1808	ppb	12:28:34
1	Tl 190.801†	-36.1	3.1	0.9666	ug/L	0.9666	ppb	12:28:54
1	U 409.014†	-3667.0	-151.4	-4.3038	ug/L	-4.3038	ppb	12:28:34
1	V 292.402†	-1691.7	-14.2	-0.1010	ug/L	-0.1010	ppb	12:28:34
1	Zn 213.857†	726.3	38.5	0.3747	ug/L	0.3747	ppb	12:28:54
1	SiO2†	620.9	1.3	0.0652	ug/L	0.0652	ppb	12:29:50
2	Sc Radial	4440.7	4440.7	104	%			12:27:42
2	Y RADIAL	4576.2	4576.2	104.0	%			12:27:42
2	Al 396.153Radial†	-148.2	17.2	17.157	ug/L	17.157	ppb	12:27:42
2	Ca 317.933Radial†	24.9	5.5	10.224	ug/L	10.224	ppb	12:28:02
2	Fe 238.204 Radial†	12.5	1.9	19.787	ug/L	19.787	ppb	12:28:02
2	K 766.490 Radial†	3182.1	-125.6	-25.354	ug/L	-25.354	ppb	12:27:42
2	Mg 279.077 IEC†	2.2	-0.6	-23.955	ug/L	-23.955	ppb	12:28:02
2	Na 589.592 Radial†	210.8	-5.3	-1.7514	ug/L	-1.7514	ppb	12:27:42
2	Sr 421.552†	78.4	-14.8	-0.1143	ug/L	-0.1143	ppb	12:27:42
2	Sc 361.383	850643.0	850643.0	100.07	%			12:29:00
2	Y 371.029	701080.0	701080.0	99.765	%			12:29:00
2	Ag 328.068†	215.2	-12.6	-0.0538	ug/L	-0.0538	ppb	12:29:00
2	As 188.979†	-32.2	-3.9	-1.6295	ug/L	-1.6295	ppb	12:29:20
2	B 249.677†	-253.7	228.4	5.3704	ug/L	5.3704	ppb	12:29:20
2	Ba 233.527†	1.4	-17.5	-0.1413	ug/L	-0.1413	ppb	12:29:20
2	Be 313.107†	-4312.8	29.6	0.0106	ug/L	0.0106	ppb	12:29:00
2	Cd 226.502†	-195.3	0.3	0.0017	ug/L	0.0017	ppb	12:29:20
2	Co 228.616†	-78.1	0.9	0.0198	ug/L	0.0198	ppb	12:29:20
2	Cr 267.716†	145.5	-4.3	-0.0489	ug/L	-0.0489	ppb	12:29:20
2	Cu 324.752†	8133.5	33.3	0.1034	ug/L	0.1034	ppb	12:29:00
2	Mn 257.610†	632.8	62.5	0.0751	ug/L	0.0751	ppb	12:29:20
2	Mo 202.031†	20.8	10.3	0.7687	ug/L	0.7687	ppb	12:29:20
2	Ni 231.604†	100.8	-12.8	-0.3269	ug/L	-0.3269	ppb	12:29:20

2	P 214.914†	228.4	-13.7	-7.6283 ug/L	-7.6283 ppb	12:29:20
2	Pb 220.353†	-60.9	12.7	1.5761 ug/L	1.5761 ppb	12:29:20
2	S 181.975 Axial†	46.3	3.3	4.3280 ug/L	4.3280 ppb	12:29:20
2	Sb 206.836†	52.7	17.0	5.7844 ug/L	5.7844 ppb	12:29:20
2	Se 196.026†	-17.8	5.6	3.3281 ug/L	3.3281 ppb	12:29:20
2	Si 251.611†	602.3	-10.5	-0.3364 ug/L	-0.3364 ppb	12:29:20
2	Sn 189.927†	18.9	6.2	1.1203 ug/L	1.1203 ppb	12:29:20
2	Ti 334.940†	-1553.1	-59.0	-0.0923 ug/L	-0.0923 ppb	12:29:00
2	Tl 190.801†	-33.4	5.7	1.8073 ug/L	1.8073 ppb	12:29:20
2	U 409.014†	-3539.5	-21.7	-0.6188 ug/L	-0.6188 ppb	12:29:00
2	V 292.402†	-1688.4	-9.8	-0.0648 ug/L	-0.0648 ppb	12:29:00
2	Zn 213.857†	725.2	36.9	0.3593 ug/L	0.3593 ppb	12:29:20
2	SiO2†	626.5	6.5	0.4151 ug/L	0.4151 ppb	12:29:55
3	Sc Radial	4363.6	4363.6	103 %		12:28:08
3	Y RADIAL	4483.5	4483.5	101.8 %		12:28:08
3	Al 396.153Radial†	-148.0	14.8	14.794 ug/L	14.794 ppb	12:28:08
3	Ca 317.933Radial†	22.9	3.9	7.3483 ug/L	7.3483 ppb	12:28:28
3	Fe 238.204 Radial†	10.6	0.2	2.5876 ug/L	2.5876 ppb	12:28:28
3	K 766.490 Radial†	3081.8	-169.4	-34.205 ug/L	-34.205 ppb	12:28:08
3	Mg 279.077 IEC†	0.3	-2.4	-92.996 ug/L	-92.996 ppb	12:28:28
3	Na 589.592 Radial†	217.7	5.0	1.6838 ug/L	1.6838 ppb	12:28:08
3	Sr 421.552†	105.7	13.1	0.1014 ug/L	0.1014 ppb	12:28:08
3	Sc 361.383	852757.2	852757.2	100.32 %		12:29:25
3	Y 371.029	704054.8	704054.8	100.19 %		12:29:25
3	Ag 328.068†	256.4	27.9	0.1341 ug/L	0.1341 ppb	12:29:25
3	As 188.979†	-31.2	-2.8	-1.1867 ug/L	-1.1867 ppb	12:29:45
3	B 249.677†	-279.9	202.9	4.7727 ug/L	4.7727 ppb	12:29:45
3	Ba 233.527†	18.0	-0.9	-0.0081 ug/L	-0.0081 ppb	12:29:45
3	Be 313.107†	-4269.7	83.2	0.0306 ug/L	0.0306 ppb	12:29:25
3	Cd 226.502†	-215.8	-19.6	-0.2295 ug/L	-0.2295 ppb	12:29:45
3	Co 228.616†	-68.1	11.0	0.2297 ug/L	0.2297 ppb	12:29:45
3	Cr 267.716†	144.7	-5.4	-0.0631 ug/L	-0.0631 ppb	12:29:45
3	Cu 324.752†	8096.3	-23.9	-0.0725 ug/L	-0.0725 ppb	12:29:25
3	Mn 257.610†	622.2	50.5	0.0623 ug/L	0.0623 ppb	12:29:45
3	Mo 202.031†	17.5	7.0	0.5216 ug/L	0.5216 ppb	12:29:45
3	Ni 231.604†	123.6	9.7	0.2485 ug/L	0.2485 ppb	12:29:45
3	P 214.914†	239.0	-3.7	-2.0195 ug/L	-2.0195 ppb	12:29:45
3	Pb 220.353†	-65.2	8.6	1.0665 ug/L	1.0665 ppb	12:29:45
3	S 181.975 Axial†	41.2	-1.8	-2.4200 ug/L	-2.4200 ppb	12:29:45
3	Sb 206.836†	50.4	14.6	4.9775 ug/L	4.9775 ppb	12:29:45
3	Se 196.026†	-25.0	-1.5	-0.8926 ug/L	-0.8926 ppb	12:29:45
3	Si 251.611†	616.0	1.7	0.0452 ug/L	0.0452 ppb	12:29:45
3	Sn 189.927†	24.5	11.8	2.1193 ug/L	2.1193 ppb	12:29:45
3	Ti 334.940†	-1476.3	21.4	0.0437 ug/L	0.0437 ppb	12:29:25
3	Tl 190.801†	-33.5	5.7	1.7946 ug/L	1.7946 ppb	12:29:45
3	U 409.014†	-3555.9	-29.3	-0.8315 ug/L	-0.8315 ppb	12:29:25
3	V 292.402†	-1727.4	-44.5	-0.3186 ug/L	-0.3186 ppb	12:29:25
3	Zn 213.857†	725.9	35.8	0.3475 ug/L	0.3475 ppb	12:29:45
3	SiO2†	632.0	10.5	0.6837 ug/L	0.6837 ppb	12:30:00

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	851167.9	100.14	%	0.165				0.16%
Sc Radial	4419.9	104	%	1.2				1.11%
Y 371.029	702099.6	99.911	%	0.2410				0.24%
Y RADIAL	4540.5	103.1	%	1.13				1.10%
Ag 328.068†	46.5	0.2275	ug/L	0.33795	0.2275	ppb	0.33795	148.52%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	16.6	16.549	ug/L	1.5440	16.549	ppb	1.5440	9.33%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-4.1	-1.7100	ug/L	0.56785	-1.7100	ppb	0.56785	33.21%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	218.3	5.1343	ug/L	0.31799	5.1343	ppb	0.31799	6.19%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-3.0	-0.0244	ug/L	0.10969	-0.0244	ppb	0.10969	449.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	45.5	0.0168	ug/L	0.01199	0.0168	ppb	0.01199	71.29%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.7	6.8174	ug/L	3.70128	6.8174	ppb	3.70128	54.29%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -10.0     -0.1181 ug/L       0.11582     -0.1181 ppb        0.11582  98.05%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                3.8      0.0807 ug/L       0.12984      0.0807 ppb        0.12984 160.98%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                2.9      0.0340 ug/L       0.15613      0.0340 ppb        0.15613 458.91%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               35.7      0.1110 ug/L       0.18742      0.1110 ppb        0.18742 168.85%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.0      10.631 ug/L        8.6537      10.631 ppb         8.6537  81.40%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       -125.2     -25.273 ug/L        8.9732     -25.273 ppb         8.9732  35.51%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.8     -32.298 ug/L       56.9867     -32.298 ppb        56.9867 176.44%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               66.7      0.0793 ug/L       0.01951      0.0793 ppb        0.01951  24.60%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                9.4      0.6967 ug/L       0.15251      0.6967 ppb        0.15251  21.89%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        32.8      10.932 ug/L       19.0710      10.932 ppb        19.0710 174.45%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -3.4     -0.0872 ug/L       0.29951     -0.0872 ppb        0.29951 343.43%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -2.1     -1.1678 ug/L       6.92582     -1.1678 ppb        6.92582 593.08%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                5.6      0.7032 ug/L       1.10045      0.7032 ppb        1.10045 156.49%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.8      2.4051 ug/L       4.20725      2.4051 ppb        4.20725 174.93%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               13.6      4.6538 ug/L       1.32244      4.6538 ppb        1.32244  28.42%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                2.0      1.1868 ug/L       2.11107      1.1868 ppb        2.11107 177.88%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                3.1      0.0873 ug/L       0.44621      0.0873 ppb        0.44621 511.12%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               10.7      1.9134 ug/L       0.71290      1.9134 ppb        0.71290  37.26%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                1.7      0.0130 ug/L       0.11303      0.0130 ppb        0.11303 868.15%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               24.4      0.0441 ug/L       0.13656      0.0441 ppb        0.13656 309.95%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                4.8      1.5228 ug/L       0.48177      1.5228 ppb        0.48177  31.64%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -67.5     -1.9180 ug/L       2.06884     -1.9180 ppb        2.06884 107.86%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -22.8     -0.1615 ug/L       0.13730     -0.1615 ppb        0.13730  85.04%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               37.1      0.3605 ug/L       0.01362      0.3605 ppb        0.01362   3.78%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      6.1      0.3880 ug/L       0.31015      0.3880 ppb        0.31015  79.93%
   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: 2/16/2010 12:32:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4365.0	4365.0	103	%			12:34:05
1	Y RADIAL	4513.2	4513.2	102.5	%			12:34:05
1	Al 396.153Radial†	71.4	228.6	228.13	ug/L	228.13	ppb	12:34:05
1	Ca 317.933Radial†	129.9	108.2	201.88	ug/L	201.88	ppb	12:34:25
1	Fe 238.204 Radial†	21.7	11.1	117.86	ug/L	117.86	ppb	12:34:25
1	K 766.490 Radial†	4017.9	741.3	149.43	ug/L	149.43	ppb	12:34:05
1	Mg 279.077 IEC†	12.9	9.9	380.54	ug/L	380.54	ppb	12:34:25
1	Na 589.592 Radial†	1204.1	965.6	322.08	ug/L	322.08	ppb	12:34:05
1	Sr 421.552†	754.3	644.8	4.9769	ug/L	4.9769	ppb	12:34:05
1	Sc 361.383	854077.8	854077.8	100.48	%			12:35:22
1	Y 371.029	703434.5	703434.5	100.10	%			12:35:22
1	Ag 328.068†	1253.1	1019.4	4.9056	ug/L	4.9056	ppb	12:35:22
1	As 188.979†	36.7	64.8	27.314	ug/L	27.314	ppb	12:35:42
1	B 249.677†	1666.4	2140.3	50.321	ug/L	50.321	ppb	12:35:22
1	Ba 233.527†	640.5	618.6	5.0367	ug/L	5.0367	ppb	12:35:42
1	Be 313.107†	9115.3	13411.0	4.9375	ug/L	4.9375	ppb	12:35:22
1	Cd 226.502†	225.8	420.2	4.9153	ug/L	4.9153	ppb	12:35:42
1	Co 228.616†	151.4	229.5	4.8013	ug/L	4.8013	ppb	12:35:42
1	Cr 267.716†	522.6	370.4	4.2961	ug/L	4.2961	ppb	12:35:42
1	Cu 324.752†	11466.5	3317.8	10.134	ug/L	10.134	ppb	12:35:22
1	Mn 257.610†	9572.7	8957.3	10.327	ug/L	10.327	ppb	12:35:22
1	Mo 202.031†	165.7	154.5	11.492	ug/L	11.492	ppb	12:35:42
1	Ni 231.604†	280.8	165.9	4.2477	ug/L	4.2477	ppb	12:35:42
1	P 214.914†	507.9	263.5	144.22	ug/L	144.22	ppb	12:35:42
1	Pb 220.353†	9.3	82.8	10.326	ug/L	10.326	ppb	12:35:42
1	S 181.975 Axial†	122.8	79.3	103.56	ug/L	103.56	ppb	12:35:42
1	Sb 206.836†	70.7	34.7	12.111	ug/L	12.111	ppb	12:35:42
1	Se 196.026†	30.6	53.7	31.774	ug/L	31.774	ppb	12:35:42
1	Si 251.611†	3825.5	3194.9	99.420	ug/L	99.420	ppb	12:35:22
1	Sn 189.927†	68.1	55.2	9.9301	ug/L	9.9301	ppb	12:35:42
1	Ti 334.940†	1649.5	3134.5	5.0651	ug/L	5.0651	ppb	12:35:22
1	Tl 190.801†	22.8	61.8	19.558	ug/L	19.558	ppb	12:35:42
1	U 409.014†	-1608.2	1914.6	54.365	ug/L	54.365	ppb	12:35:22
1	V 292.402†	-1059.7	622.6	4.7589	ug/L	4.7589	ppb	12:35:22
1	Zn 213.857†	1739.8	1043.7	10.128	ug/L	10.128	ppb	12:35:42
1	SiO2†	3848.1	3210.2	213.72	ug/L	213.72	ppb	12:36:38
2	Sc Radial	4445.0	4445.0	105	%			12:34:30
2	Y RADIAL	4541.6	4541.6	103.2	%			12:34:30
2	Al 396.153Radial†	49.4	206.3	205.86	ug/L	205.86	ppb	12:34:30
2	Ca 317.933Radial†	134.8	110.5	206.21	ug/L	206.21	ppb	12:34:50
2	Fe 238.204 Radial†	18.4	7.6	80.787	ug/L	80.787	ppb	12:34:50
2	K 766.490 Radial†	3952.6	608.5	122.63	ug/L	122.63	ppb	12:34:30
2	Mg 279.077 IEC†	9.8	6.6	256.54	ug/L	256.54	ppb	12:34:50
2	Na 589.592 Radial†	1135.2	878.5	293.04	ug/L	293.04	ppb	12:34:30
2	Sr 421.552†	732.4	610.6	4.7128	ug/L	4.7128	ppb	12:34:30
2	Sc 361.383	850654.7	850654.7	100.08	%			12:35:47
2	Y 371.029	699508.6	699508.6	99.542	%			12:35:47
2	Ag 328.068†	1229.8	1001.2	4.8132	ug/L	4.8132	ppb	12:35:47
2	As 188.979†	38.9	67.2	28.306	ug/L	28.306	ppb	12:36:07
2	B 249.677†	1726.7	2207.3	51.903	ug/L	51.903	ppb	12:35:47
2	Ba 233.527†	641.2	621.9	5.0638	ug/L	5.0638	ppb	12:36:07
2	Be 313.107†	8942.9	13275.3	4.8872	ug/L	4.8872	ppb	12:35:47
2	Cd 226.502†	193.0	388.3	4.5453	ug/L	4.5453	ppb	12:36:07
2	Co 228.616†	150.5	229.3	4.7939	ug/L	4.7939	ppb	12:36:07
2	Cr 267.716†	475.8	325.8	3.7796	ug/L	3.7796	ppb	12:36:07
2	Cu 324.752†	11448.2	3345.4	10.220	ug/L	10.220	ppb	12:35:47
2	Mn 257.610†	9603.7	9026.6	10.409	ug/L	10.409	ppb	12:35:47
2	Mo 202.031†	147.8	137.3	10.208	ug/L	10.208	ppb	12:36:07
2	Ni 231.604†	281.9	168.1	4.3034	ug/L	4.3034	ppb	12:36:07

2	P 214.914†	505.6	263.2	144.09	ug/L	144.09 ppb	12:36:07
2	Pb 220.353†	8.0	81.6	10.165	ug/L	10.165 ppb	12:36:07
2	S 181.975 Axial†	125.4	82.4	107.63	ug/L	107.63 ppb	12:36:07
2	Sb 206.836†	61.3	25.6	9.0337	ug/L	9.0337 ppb	12:36:07
2	Se 196.026†	28.3	51.6	30.385	ug/L	30.385 ppb	12:36:07
2	Si 251.611†	3830.4	3215.2	100.07	ug/L	100.07 ppb	12:35:47
2	Sn 189.927†	73.3	60.6	10.898	ug/L	10.898 ppb	12:36:07
2	Ti 334.940†	1526.1	3017.8	4.8886	ug/L	4.8886 ppb	12:35:47
2	Tl 190.801†	23.1	62.2	19.694	ug/L	19.694 ppb	12:36:07
2	U 409.014†	-1777.1	1739.4	49.393	ug/L	49.393 ppb	12:35:47
2	V 292.402†	-937.1	741.0	5.5919	ug/L	5.5919 ppb	12:35:47
2	Zn 213.857†	1712.1	1023.1	9.9316	ug/L	9.9316 ppb	12:36:07
2	SiO2†	3788.5	3166.1	210.82	ug/L	210.82 ppb	12:36:43
3	Sc Radial	4315.2	4315.2	102	%		12:34:55
3	Y RADIAL	4470.6	4470.6	101.6	%		12:34:55
3	Al 396.153Radial†	55.8	214.0	213.61	ug/L	213.61 ppb	12:34:55
3	Ca 317.933Radial†	133.2	112.9	210.58	ug/L	210.58 ppb	12:35:15
3	Fe 238.204 Radial†	19.5	9.2	97.608	ug/L	97.608 ppb	12:35:15
3	K 766.490 Radial†	3979.7	748.8	150.96	ug/L	150.96 ppb	12:34:55
3	Mg 279.077 IEC†	10.1	7.3	280.19	ug/L	280.19 ppb	12:35:15
3	Na 589.592 Radial†	1113.4	889.7	296.78	ug/L	296.78 ppb	12:34:55
3	Sr 421.552†	722.2	621.6	4.7982	ug/L	4.7982 ppb	12:34:55
3	Sc 361.383	840845.7	840845.7	98.922	%		12:36:13
3	Y 371.029	693189.2	693189.2	98.643	%		12:36:13
3	Ag 328.068†	1259.2	1045.3	5.0267	ug/L	5.0267 ppb	12:36:13
3	As 188.979†	45.0	73.8	31.112	ug/L	31.112 ppb	12:36:33
3	B 249.677†	1621.7	2121.2	49.876	ug/L	49.876 ppb	12:36:13
3	Ba 233.527†	640.5	628.7	5.1155	ug/L	5.1155 ppb	12:36:33
3	Be 313.107†	8768.4	13203.1	4.8610	ug/L	4.8610 ppb	12:36:13
3	Cd 226.502†	216.6	414.5	4.8481	ug/L	4.8481 ppb	12:36:33
3	Co 228.616†	142.5	222.9	4.6595	ug/L	4.6595 ppb	12:36:33
3	Cr 267.716†	470.8	326.3	3.7849	ug/L	3.7849 ppb	12:36:33
3	Cu 324.752†	11160.8	3188.3	9.7418	ug/L	9.7418 ppb	12:36:13
3	Mn 257.610†	9275.3	8806.6	10.156	ug/L	10.156 ppb	12:36:13
3	Mo 202.031†	140.7	131.8	9.8031	ug/L	9.8031 ppb	12:36:33
3	Ni 231.604†	272.0	161.5	4.1327	ug/L	4.1327 ppb	12:36:33
3	P 214.914†	495.3	258.8	141.73	ug/L	141.73 ppb	12:36:33
3	Pb 220.353†	15.3	89.0	11.083	ug/L	11.083 ppb	12:36:33
3	S 181.975 Axial†	119.9	78.3	102.33	ug/L	102.33 ppb	12:36:33
3	Sb 206.836†	58.0	23.0	8.1545	ug/L	8.1545 ppb	12:36:33
3	Se 196.026†	27.0	50.6	29.871	ug/L	29.871 ppb	12:36:33
3	Si 251.611†	3910.2	3340.5	103.98	ug/L	103.98 ppb	12:36:13
3	Sn 189.927†	79.7	67.9	12.212	ug/L	12.212 ppb	12:36:33
3	Ti 334.940†	1597.7	3108.0	5.0357	ug/L	5.0357 ppb	12:36:13
3	Tl 190.801†	28.9	68.3	21.631	ug/L	21.631 ppb	12:36:33
3	U 409.014†	-1899.5	1595.0	45.289	ug/L	45.289 ppb	12:36:13
3	V 292.402†	-1157.2	507.5	3.8854	ug/L	3.8854 ppb	12:36:13
3	Zn 213.857†	1750.8	1082.2	10.508	ug/L	10.508 ppb	12:36:33
3	SiO2†	3833.4	3255.7	216.80	ug/L	216.80 ppb	12:36:48

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	848526.1	99.826	%	0.8080				0.81%
Sc Radial	4375.0	103	%	1.5				1.50%
Y 371.029	698710.8	99.428	%	0.7356				0.74%
Y RADIAL	4508.5	102.4	%	0.81				0.79%
Ag 328.068†	1022.0	4.9152	ug/L	0.10710	4.9152	ppb	0.10710	2.18%
QC value within limits for Ag 328.068 Recovery = 98.30%								
Al 396.153Radial†	216.3	215.87	ug/L	11.308	215.87	ppb	11.308	5.24%
QC value within limits for Al 396.153Radial Recovery = 107.93%								
As 188.979†	68.6	28.911	ug/L	1.9701	28.911	ppb	1.9701	6.81%
QC value within limits for As 188.979 Recovery = 96.37%								
B 249.677†	2156.3	50.700	ug/L	1.0655	50.700	ppb	1.0655	2.10%
QC value within limits for B 249.677 Recovery = 101.40%								
Ba 233.527†	623.1	5.0720	ug/L	0.04003	5.0720	ppb	0.04003	0.79%
QC value within limits for Ba 233.527 Recovery = 101.44%								
Be 313.107†	13296.5	4.8953	ug/L	0.03885	4.8953	ppb	0.03885	0.79%
QC value within limits for Be 313.107 Recovery = 97.91%								
Ca 317.933Radial†	110.6	206.22	ug/L	4.353	206.22	ppb	4.353	2.11%

QC value within limits for Ca 317.933Radial Recovery = 103.11%

Cd 226.502†	407.7	4.7696 ug/L	0.19713	4.7696 ppb	0.19713	4.13%
QC value within limits for Cd 226.502 Recovery = 95.39%						
Co 228.616†	227.2	4.7515 ug/L	0.07982	4.7515 ppb	0.07982	1.68%
QC value within limits for Co 228.616 Recovery = 95.03%						
Cr 267.716†	340.8	3.9536 ug/L	0.29669	3.9536 ppb	0.29669	7.50%
QC value within limits for Cr 267.716 Recovery = 79.07%						
Cu 324.752†	3283.8	10.032 ug/L	0.2548	10.032 ppb	0.2548	2.54%
QC value within limits for Cu 324.752 Recovery = 100.32%						
Fe 238.204 Radial†	9.3	98.753 ug/L	18.5648	98.753 ppb	18.5648	18.80%
QC value within limits for Fe 238.204 Radial Recovery = 98.75%						
K 766.490 Radial†	699.5	141.01 ug/L	15.934	141.01 ppb	15.934	11.30%
QC value within limits for K 766.490 Radial Recovery = 94.00%						
Mg 279.077 IEC†	7.9	305.76 ug/L	65.838	305.76 ppb	65.838	21.53%
QC value within limits for Mg 279.077 IEC Recovery = 101.92%						
Mn 257.610†	8930.2	10.297 ug/L	0.1292	10.297 ppb	0.1292	1.25%
QC value within limits for Mn 257.610 Recovery = 102.97%						
Mo 202.031†	141.2	10.501 ug/L	0.8815	10.501 ppb	0.8815	8.39%
QC value within limits for Mo 202.031 Recovery = 105.01%						
Na 589.592 Radial†	911.3	303.97 ug/L	15.797	303.97 ppb	15.797	5.20%
QC value within limits for Na 589.592 Radial Recovery = 101.32%						
Ni 231.604†	165.2	4.2280 ug/L	0.08709	4.2280 ppb	0.08709	2.06%
QC value within limits for Ni 231.604 Recovery = 84.56%						
P 214.914†	261.8	143.35 ug/L	1.405	143.35 ppb	1.405	0.98%
QC value within limits for P 214.914 Recovery = 95.56%						
Pb 220.353†	84.5	10.525 ug/L	0.4900	10.525 ppb	0.4900	4.66%
QC value within limits for Pb 220.353 Recovery = 105.25%						
S 181.975 Axial†	80.0	104.51 ug/L	2.776	104.51 ppb	2.776	2.66%
QC value within limits for S 181.975 Axial Recovery = 104.51%						
Sb 206.836†	27.7	9.7666 ug/L	2.07773	9.7666 ppb	2.07773	21.27%
QC value within limits for Sb 206.836 Recovery = 97.67%						
Se 196.026†	52.0	30.677 ug/L	0.9844	30.677 ppb	0.9844	3.21%
QC value within limits for Se 196.026 Recovery = 102.26%						
Si 251.611†	3250.2	101.15 ug/L	2.465	101.15 ppb	2.465	2.44%
QC value within limits for Si 251.611 Recovery = 101.15%						
Sn 189.927†	61.2	11.013 ug/L	1.1453	11.013 ppb	1.1453	10.40%
QC value within limits for Sn 189.927 Recovery = 110.13%						
Sr 421.552†	625.7	4.8293 ug/L	0.13477	4.8293 ppb	0.13477	2.79%
QC value within limits for Sr 421.552 Recovery = 96.59%						
Ti 334.940†	3086.8	4.9964 ug/L	0.09458	4.9964 ppb	0.09458	1.89%
QC value within limits for Ti 334.940 Recovery = 99.93%						
Tl 190.801†	64.1	20.294 ug/L	1.1597	20.294 ppb	1.1597	5.71%
QC value within limits for Tl 190.801 Recovery = 101.47%						
U 409.014†	1749.6	49.682 ug/L	4.5451	49.682 ppb	4.5451	9.15%
QC value within limits for U 409.014 Recovery = 99.36%						
V 292.402†	623.7	4.7454 ug/L	0.85329	4.7454 ppb	0.85329	17.98%
QC value within limits for V 292.402 Recovery = 94.91%						
Zn 213.857†	1049.7	10.189 ug/L	0.2928	10.189 ppb	0.2928	2.87%
QC value within limits for Zn 213.857 Recovery = 101.89%						
SiO2†	3210.7	213.78 ug/L	2.991	213.78 ppb	2.991	1.40%
QC value within limits for SiO2 Recovery = 100.37%						

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 2/16/2010 12:39:00
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3937.1	3937.1	92.6	%			12:40:58
1	Y RADIAL	4029.9	4029.9	91.54	%			12:40:58
1	Al 396.153Radial†	478456.5	516755.4	516960	ug/L	516960	ppb	12:40:53
1	Ca 317.933Radial†	238994.6	258027.6	481320	ug/L	481320	ppb	12:40:53
1	Fe 238.204 Radial†	16335.7	17627.8	187340	ug/L	187340	ppb	12:40:58
1	K 766.490 Radial†	3019.5	88.7	-143.22	ug/L	-143.22	ppb	12:40:53
1	Mg 279.077 IEC†	11718.1	12649.5	488360	ug/L	488360	ppb	12:40:58
1	Na 589.592 Radial†	1169.1	1055.2	351.97	ug/L	351.97	ppb	12:40:58
1	Sr 421.552†	547.3	501.1	0.2753	ug/L	0.2753	ppb	12:40:58
1	Sc 361.383	740276.7	740276.7	87.090	%			12:41:25
1	Y 371.029	594718.2	594718.2	84.630	%			12:41:25
1	Ag 328.068†	-9235.1	-10831.7	4.7208	ug/L	4.7208	ppb	12:41:25
1	As 188.979†	-107.5	-95.1	3.7336	ug/L	3.7336	ppb	12:41:46
1	B 249.677†	362.1	897.7	-9.3057	ug/L	-9.3057	ppb	12:41:25
1	Ba 233.527†	-647.4	-762.3	-0.4564	ug/L	-0.4564	ppb	12:41:46
1	Be 313.107†	-4701.6	-1059.4	-0.4395	ug/L	-0.4395	ppb	12:41:25
1	Cd 226.502†	1164.0	1532.0	-1.4262	ug/L	-1.4262	ppb	12:41:46
1	Co 228.616†	-32.6	41.4	-1.8478	ug/L	-1.8478	ppb	12:41:46
1	Cr 267.716†	-48.8	-205.7	1.2542	ug/L	1.2542	ppb	12:41:46
1	Cu 324.752†	5131.6	-2201.9	3.1539	ug/L	3.1539	ppb	12:41:25
1	Mn 257.610†	741.7	281.9	-1.1476	ug/L	-1.1476	ppb	12:41:25
1	Mo 202.031†	-242.0	-288.3	-1.1526	ug/L	-1.1526	ppb	12:41:46
1	Ni 231.604†	205.2	122.1	3.1281	ug/L	3.1281	ppb	12:41:46
1	P 214.914†	216.2	6.3	-17.890	ug/L	-17.890	ppb	12:41:46
1	Pb 220.353†	-814.3	-861.4	-5.1356	ug/L	-5.1356	ppb	12:41:46
1	S 181.975 Axial†	68.2	35.4	-50.587	ug/L	-50.587	ppb	12:41:46
1	Sb 206.836†	81.0	57.4	1.8960	ug/L	1.8960	ppb	12:41:46
1	Se 196.026†	-916.1	-1028.5	20.689	ug/L	20.689	ppb	12:41:46
1	Si 251.611†	562.2	33.2	1.2996	ug/L	1.2996	ppb	12:41:46
1	Sn 189.927†	-356.8	-422.3	0.5649	ug/L	0.5649	ppb	12:41:46
1	Ti 334.940†	-13188.7	-13650.8	2.4504	ug/L	2.4504	ppb	12:41:25
1	Tl 190.801†	-79.8	-52.6	-16.804	ug/L	-16.804	ppb	12:41:46
1	U 409.014†	-1918.8	1311.9	15.915	ug/L	15.915	ppb	12:41:25
1	V 292.402†	344.5	2072.8	-3.0434	ug/L	-3.0434	ppb	12:41:46
1	Zn 213.857†	3071.7	2839.3	-0.3354	ug/L	-0.3354	ppb	12:41:46
1	SiO2†	480.6	-67.7	-3.9304	ug/L	-3.9304	ppb	12:42:42
2	Sc Radial	3938.9	3938.9	92.7	%			12:41:08
2	Y RADIAL	4049.1	4049.1	91.98	%			12:41:08
2	Al 396.153Radial†	483505.5	521957.5	522160	ug/L	522160	ppb	12:41:03
2	Ca 317.933Radial†	240862.2	259919.8	484850	ug/L	484850	ppb	12:41:03
2	Fe 238.204 Radial†	16338.0	17621.9	187280	ug/L	187280	ppb	12:41:08
2	K 766.490 Radial†	3062.5	133.4	-135.37	ug/L	-135.37	ppb	12:41:03
2	Mg 279.077 IEC†	11742.6	12669.9	489150	ug/L	489150	ppb	12:41:08
2	Na 589.592 Radial†	1175.6	1061.6	354.12	ug/L	354.12	ppb	12:41:08
2	Sr 421.552†	545.1	498.4	0.2281	ug/L	0.2281	ppb	12:41:08
2	Sc 361.383	743346.1	743346.1	87.452	%			12:41:51
2	Y 371.029	597417.9	597417.9	85.014	%			12:41:51
2	Ag 328.068†	-9292.0	-10853.0	4.5531	ug/L	4.5531	ppb	12:41:51
2	As 188.979†	-98.8	-84.6	8.1206	ug/L	8.1206	ppb	12:42:11
2	B 249.677†	371.1	906.3	-9.0933	ug/L	-9.0933	ppb	12:41:51
2	Ba 233.527†	-609.3	-715.6	-0.0773	ug/L	-0.0773	ppb	12:42:11
2	Be 313.107†	-4579.3	-897.2	-0.3791	ug/L	-0.3791	ppb	12:41:51
2	Cd 226.502†	1152.3	1513.1	-1.6404	ug/L	-1.6404	ppb	12:42:11
2	Co 228.616†	-32.8	41.4	-1.8460	ug/L	-1.8460	ppb	12:42:11
2	Cr 267.716†	10.4	-137.8	2.0442	ug/L	2.0442	ppb	12:42:11
2	Cu 324.752†	5324.7	-2005.4	3.7522	ug/L	3.7522	ppb	12:41:51
2	Mn 257.610†	881.3	438.1	-1.0059	ug/L	-1.0059	ppb	12:41:51
2	Mo 202.031†	-230.5	-274.0	-0.0520	ug/L	-0.0520	ppb	12:42:11
2	Ni 231.604†	220.9	139.0	3.5611	ug/L	3.5611	ppb	12:42:11

2	P 214.914†	220.5	10.1	-14.542 ug/L	-14.542 ppb	12:42:11
2	Pb 220.353†	-829.6	-875.0	-5.6358 ug/L	-5.6358 ppb	12:42:11
2	S 181.975 Axial†	65.8	32.4	-55.569 ug/L	-55.569 ppb	12:42:11
2	Sb 206.836†	73.0	47.8	-1.4860 ug/L	-1.4860 ppb	12:42:11
2	Se 196.026†	-907.9	-1014.8	28.677 ug/L	28.677 ppb	12:42:11
2	Si 251.611†	560.8	28.9	1.1522 ug/L	1.1522 ppb	12:42:11
2	Sn 189.927†	-364.3	-429.2	-0.1275 ug/L	-0.1275 ppb	12:42:11
2	Ti 334.940†	-13038.7	-13416.8	3.2397 ug/L	3.2397 ppb	12:41:51
2	Tl 190.801†	-75.8	-47.5	-15.210 ug/L	-15.210 ppb	12:42:11
2	U 409.014†	-1933.5	1304.2	15.703 ug/L	15.703 ppb	12:41:51
2	V 292.402†	449.9	2191.8	-2.1436 ug/L	-2.1436 ppb	12:42:11
2	Zn 213.857†	3087.5	2842.7	-0.2961 ug/L	-0.2961 ppb	12:42:11
2	SiO2†	533.1	-9.9	-0.1044 ug/L	-0.1044 ppb	12:42:47
3	Sc Radial	3825.6	3825.6	90.0 %		12:41:19
3	Y RADIAL	3920.0	3920.0	89.05 %		12:41:19
3	Al 396.153Radial†	485514.9	539653.4	539860 ug/L	539860 ppb	12:41:14
3	Ca 317.933Radial†	241480.6	268310.1	500500 ug/L	500500 ppb	12:41:14
3	Fe 238.204 Radial†	15921.7	17681.9	187920 ug/L	187920 ppb	12:41:19
3	K 766.490 Radial†	2887.3	36.7	-160.12 ug/L	-160.12 ppb	12:41:14
3	Mg 279.077 IEC†	11480.6	12754.3	492410 ug/L	492410 ppb	12:41:19
3	Na 589.592 Radial†	1102.4	1017.9	339.53 ug/L	339.53 ppb	12:41:19
3	Sr 421.552†	520.4	488.5	0.0344 ug/L	0.0344 ppb	12:41:19
3	Sc 361.383	746684.9	746684.9	87.844 %		12:42:16
3	Y 371.029	599554.4	599554.4	85.318 %		12:42:16
3	Ag 328.068†	-9423.9	-10955.6	4.0545 ug/L	4.0545 ppb	12:42:16
3	As 188.979†	-112.6	-99.8	1.8698 ug/L	1.8698 ppb	12:42:36
3	B 249.677†	340.9	870.0	-10.052 ug/L	-10.052 ppb	12:42:16
3	Ba 233.527†	-631.6	-737.9	-0.2399 ug/L	-0.2399 ppb	12:42:36
3	Be 313.107†	-4776.7	-1098.6	-0.4525 ug/L	-0.4525 ppb	12:42:16
3	Cd 226.502†	1153.7	1508.9	-1.7538 ug/L	-1.7538 ppb	12:42:36
3	Co 228.616†	-8.5	69.1	-1.2730 ug/L	-1.2730 ppb	12:42:36
3	Cr 267.716†	-30.4	-184.4	1.5112 ug/L	1.5112 ppb	12:42:36
3	Cu 324.752†	5275.1	-2089.0	3.5250 ug/L	3.5250 ppb	12:42:16
3	Mn 257.610†	913.3	469.9	-1.0395 ug/L	-1.0395 ppb	12:42:16
3	Mo 202.031†	-214.7	-254.8	1.6069 ug/L	1.6069 ppb	12:42:36
3	Ni 231.604†	222.7	140.0	3.5858 ug/L	3.5858 ppb	12:42:36
3	P 214.914†	229.4	19.2	-5.5250 ug/L	-5.5250 ppb	12:42:36
3	Pb 220.353†	-841.3	-884.1	-2.7413 ug/L	-2.7413 ppb	12:42:36
3	S 181.975 Axial†	76.0	43.6	-44.200 ug/L	-44.200 ppb	12:42:36
3	Sb 206.836†	83.7	59.6	2.0945 ug/L	2.0945 ppb	12:42:36
3	Se 196.026†	-890.1	-989.9	45.831 ug/L	45.831 ppb	12:42:36
3	Si 251.611†	569.1	35.6	1.3412 ug/L	1.3412 ppb	12:42:36
3	Sn 189.927†	-353.5	-415.0	4.8101 ug/L	4.8101 ppb	12:42:36
3	Ti 334.940†	-12983.8	-13287.5	5.2790 ug/L	5.2790 ppb	12:42:16
3	Tl 190.801†	-69.2	-39.7	-12.727 ug/L	-12.727 ppb	12:42:36
3	U 409.014†	-1666.8	1617.7	24.537 ug/L	24.537 ppb	12:42:16
3	V 292.402†	413.0	2147.4	-2.4574 ug/L	-2.4574 ppb	12:42:36
3	Zn 213.857†	3069.1	2806.1	-0.7493 ug/L	-0.7493 ppb	12:42:36
3	SiO2†	536.1	-9.2	-0.1006 ug/L	-0.1006 ppb	12:42:52

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	743435.9	87.462	%	0.3771				0.43%
Sc Radial	3900.5	91.8	%	1.53				1.66%
Y 371.029	597230.2	84.987	%	0.3449				0.41%
Y RADIAL	3999.7	90.86	%	1.582				1.74%
Ag 328.068†	-10880.1	4.4428	ug/L	0.34656	4.4428	ppb	0.34656	7.80%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	526122.1	526330	ug/L	12008.3	526330	ppb	12008.3	2.28%
QC value within limits for Al 396.153Radial Recovery = 105.27%								
As 188.979†	-93.2	4.5747	ug/L	3.20913	4.5747	ppb	3.20913	70.15%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	891.4	-9.4838	ug/L	0.50378	-9.4838	ppb	0.50378	5.31%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-738.6	-0.2579	ug/L	0.19016	-0.2579	ppb	0.19016	73.75%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1018.4	-0.4237	ug/L	0.03920	-0.4237	ppb	0.03920	9.25%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	262085.8	488890	ug/L	10208.8	488890	ppb	10208.8	2.09%

```
   QC value within limits for Ca 317.933Radial  Recovery = 97.78%
Cd 226.502†            1518.0     -1.6068 ug/L       0.16637     -1.6068 ppb        0.16637  10.35%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†              50.6     -1.6556 ug/L       0.33131     -1.6556 ppb        0.33131  20.01%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†            -176.0      1.6032 ug/L       0.40296      1.6032 ppb        0.40296  25.14%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†           -2098.8      3.4771 ug/L       0.30202      3.4771 ppb        0.30202   8.69%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†    17643.9     187510 ug/L         351.2     187510 ppb          351.2   0.19%
   QC value within limits for Fe 238.204 Radial  Recovery = 93.76%
K 766.490 Radial†         86.3     -146.24 ug/L        12.648     -146.24 ppb        12.648   8.65%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†       12691.3     489970 ug/L        2145.0     489970 ppb         2145.0   0.44%
   QC value within limits for Mg 279.077 IEC  Recovery = 97.99%
Mn 257.610†             396.6     -1.0643 ug/L       0.07402     -1.0643 ppb        0.07402   6.96%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†            -272.4      0.1341 ug/L       1.38915      0.1341 ppb        1.38915 >999.9%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†     1044.9     348.54 ug/L         7.878     348.54 ppb          7.878   2.26%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†             133.7      3.4250 ug/L       0.25741      3.4250 ppb        0.25741   7.52%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               11.9     -12.652 ug/L        6.3956     -12.652 ppb         6.3956  50.55%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†            -873.5     -4.5042 ug/L       1.54712     -4.5042 ppb        1.54712  34.35%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†         37.1     -50.118 ug/L        5.6989     -50.118 ppb         5.6989  11.37%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†              54.9      0.8348 ug/L       2.01232      0.8348 ppb        2.01232 241.04%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†           -1011.1      31.732 ug/L       12.8465      31.732 ppb        12.8465  40.48%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              32.6      1.2643 ug/L       0.09934      1.2643 ppb        0.09934   7.86%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†            -422.2      1.7492 ug/L       2.67336      1.7492 ppb        2.67336 152.83%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†             496.0      0.1793 ug/L       0.12765      0.1793 ppb        0.12765  71.20%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†          -13451.7      3.6563 ug/L       1.45964      3.6563 ppb        1.45964  39.92%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†             -46.6     -14.914 ug/L        2.0544     -14.914 ppb         2.0544  13.78%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†             1411.3      18.719 ug/L        5.0401      18.719 ppb         5.0401  26.93%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†             2137.3     -2.5481 ug/L       0.45675     -2.5481 ppb        0.45675  17.93%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†            2829.4     -0.4602 ug/L       0.25107     -0.4602 ppb        0.25107  54.55%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                   -28.9     -1.3784 ug/L       2.21004     -1.3784 ppb        2.21004 160.33%
   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: 2/16/2010 12:45:04
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3916.0	3916.0	92.1	%			12:47:17
1	Y RADIAL	4032.1	4032.1	91.59	%			12:47:17
1	Al 396.153Radial†	487289.5	529119.2	529300	ug/L	529300	ppb	12:46:57
1	Ca 317.933Radial†	241486.9	262119.3	488950	ug/L	488950	ppb	12:46:57
1	Fe 238.204 Radial†	16392.0	17783.7	189010	ug/L	189010	ppb	12:47:17
1	K 766.490 Radial†	28852.9	28148.7	5515.7	ug/L	5515.7	ppb	12:46:57
1	Mg 279.077 IEC†	11740.0	12741.3	491910	ug/L	491910	ppb	12:47:17
1	Na 589.592 Radial†	16400.7	17596.1	5869.4	ug/L	5869.4	ppb	12:46:57
1	Sr 421.552†	61995.6	67207.4	515.28	ug/L	515.28	ppb	12:46:57
1	Sc 361.383	746963.1	746963.1	87.877	%			12:48:15
1	Y 371.029	598362.8	598362.8	85.149	%			12:48:15
1	Ag 328.068†	39835.7	45103.5	275.36	ug/L	275.36	ppb	12:48:15
1	As 188.979†	984.6	1148.7	530.73	ug/L	530.73	ppb	12:48:35
1	B 249.677†	19569.3	22750.9	503.26	ug/L	503.26	ppb	12:48:15
1	Ba 233.527†	52653.8	59898.7	493.23	ug/L	493.23	ppb	12:48:15
1	Be 313.107†	578185.8	662287.2	244.38	ug/L	244.38	ppb	12:48:15
1	Cd 226.502†	35945.2	41099.4	461.49	ug/L	461.49	ppb	12:48:35
1	Co 228.616†	18988.0	21686.3	449.60	ug/L	449.60	ppb	12:48:35
1	Cr 267.716†	36075.4	40902.4	480.05	ug/L	480.05	ppb	12:48:15
1	Cu 324.752†	166171.6	181001.3	563.89	ug/L	563.89	ppb	12:48:15
1	Mn 257.610†	370784.4	421365.5	484.54	ug/L	484.54	ppb	12:48:15
1	Mo 202.031†	5540.7	6294.6	488.22	ug/L	488.22	ppb	12:48:35
1	Ni 231.604†	15586.8	17623.5	451.14	ug/L	451.14	ppb	12:48:35
1	P 214.914†	4284.6	4633.7	2444.7	ug/L	2444.7	ppb	12:48:35
1	Pb 220.353†	2488.1	2904.9	464.95	ug/L	464.95	ppb	12:48:35
1	S 181.975 Axial†	1844.8	2056.4	2588.4	ug/L	2588.4	ppb	12:48:35
1	Sb 206.836†	1466.0	1632.6	552.42	ug/L	552.42	ppb	12:48:35
1	Se 196.026†	2986.6	3421.9	2624.2	ug/L	2624.2	ppb	12:48:35
1	Si 251.611†	146822.1	166464.3	5181.7	ug/L	5181.7	ppb	12:48:15
1	Sn 189.927†	2054.8	2325.6	494.49	ug/L	494.49	ppb	12:48:35
1	Ti 334.940†	263882.7	301778.9	515.48	ug/L	515.48	ppb	12:48:15
1	Tl 190.801†	1237.1	1446.9	460.12	ug/L	460.12	ppb	12:48:35
1	U 409.014†	12742.4	18015.5	489.16	ug/L	489.16	ppb	12:48:15
1	V 292.402†	60315.5	70313.5	498.14	ug/L	498.14	ppb	12:48:15
1	Zn 213.857†	47858.4	53772.9	492.91	ug/L	492.91	ppb	12:48:15
1	SiO2†	149139.1	169093.7	11261	ug/L	11261	ppb	12:49:33
2	Sc Radial	3927.2	3927.2	92.4	%			12:47:43
2	Y RADIAL	4027.8	4027.8	91.50	%			12:47:43
2	Al 396.153Radial†	479696.5	519389.1	519570	ug/L	519570	ppb	12:47:23
2	Ca 317.933Radial†	238039.5	257639.0	480590	ug/L	480590	ppb	12:47:23
2	Fe 238.204 Radial†	16460.8	17807.4	189260	ug/L	189260	ppb	12:47:43
2	K 766.490 Radial†	28609.9	27796.2	5447.3	ug/L	5447.3	ppb	12:47:23
2	Mg 279.077 IEC†	11755.2	12721.3	491140	ug/L	491140	ppb	12:47:43
2	Na 589.592 Radial†	16203.2	17331.6	5781.1	ug/L	5781.1	ppb	12:47:23
2	Sr 421.552†	61052.5	65994.3	505.97	ug/L	505.97	ppb	12:47:23
2	Sc 361.383	755718.9	755718.9	88.907	%			12:48:41
2	Y 371.029	604468.6	604468.6	86.017	%			12:48:41
2	Ag 328.068†	40156.0	44938.5	274.76	ug/L	274.76	ppb	12:48:41
2	As 188.979†	987.7	1139.3	526.84	ug/L	526.84	ppb	12:49:01
2	B 249.677†	19998.0	22975.1	508.51	ug/L	508.51	ppb	12:48:41
2	Ba 233.527†	53172.0	59787.4	492.33	ug/L	492.33	ppb	12:48:41
2	Be 313.107†	586311.4	663803.6	244.93	ug/L	244.93	ppb	12:48:41
2	Cd 226.502†	35859.1	40528.7	454.79	ug/L	454.79	ppb	12:49:01
2	Co 228.616†	18962.7	21407.5	443.76	ug/L	443.76	ppb	12:49:01
2	Cr 267.716†	36529.0	40937.0	480.46	ug/L	480.46	ppb	12:48:41
2	Cu 324.752†	168697.1	181651.1	565.89	ug/L	565.89	ppb	12:48:41
2	Mn 257.610†	375656.6	421956.9	485.28	ug/L	485.28	ppb	12:48:41
2	Mo 202.031†	5519.3	6197.5	480.92	ug/L	480.92	ppb	12:49:01
2	Ni 231.604†	15533.1	17357.7	444.33	ug/L	444.33	ppb	12:49:01

2	P 214.914†	4284.3	4576.8	2410.0 ug/L	2410.0 ppb	12:49:01
2	Pb 220.353†	2463.1	2844.0	455.12 ug/L	455.12 ppb	12:49:01
2	S 181.975 Axial†	1842.0	2028.9	2554.3 ug/L	2554.3 ppb	12:49:01
2	Sb 206.836†	1471.8	1619.7	548.02 ug/L	548.02 ppb	12:49:01
2	Se 196.026†	2997.9	3395.3	2609.1 ug/L	2609.1 ppb	12:49:01
2	Si 251.611†	148855.0	166815.1	5192.7 ug/L	5192.7 ppb	12:48:41
2	Sn 189.927†	2029.1	2269.7	483.19 ug/L	483.19 ppb	12:49:01
2	Ti 334.940†	267403.7	302260.1	515.20 ug/L	515.20 ppb	12:48:41
2	Tl 190.801†	1224.3	1416.1	450.44 ug/L	450.44 ppb	12:49:01
2	U 409.014†	13041.9	18184.3	493.92 ug/L	493.92 ppb	12:48:41
2	V 292.402†	60984.4	70270.6	497.68 ug/L	497.68 ppb	12:48:41
2	Zn 213.857†	48682.7	54069.1	495.80 ug/L	495.80 ppb	12:48:41
2	SiO2†	148164.3	166031.0	11057 ug/L	11057 ppb	12:49:38
3	Sc Radial	3943.1	3943.1	92.8 %		12:48:08
3	Y RADIAL	4062.9	4062.9	92.29 %		12:48:08
3	Al 396.153Radial†	481436.5	519174.1	519350 ug/L	519350 ppb	12:47:48
3	Ca 317.933Radial†	237606.2	256134.2	477790 ug/L	477790 ppb	12:47:48
3	Fe 238.204 Radial†	16447.3	17721.1	188350 ug/L	188350 ppb	12:48:08
3	K 766.490 Radial†	28583.9	27643.5	5417.5 ug/L	5417.5 ppb	12:47:48
3	Mg 279.077 IEC†	11765.3	12680.9	489580 ug/L	489580 ppb	12:48:08
3	Na 589.592 Radial†	16177.5	17233.2	5748.3 ug/L	5748.3 ppb	12:47:48
3	Sr 421.552†	61128.7	65810.3	504.57 ug/L	504.57 ppb	12:47:48
3	Sc 361.383	760720.8	760720.8	89.496 %		12:49:07
3	Y 371.029	608232.4	608232.4	86.553 %		12:49:07
3	Ag 328.068†	40543.2	45074.2	275.15 ug/L	275.15 ppb	12:49:07
3	As 188.979†	978.5	1121.6	519.21 ug/L	519.21 ppb	12:49:27
3	B 249.677†	20217.0	23071.8	510.94 ug/L	510.94 ppb	12:49:07
3	Ba 233.527†	53601.0	59873.5	493.01 ug/L	493.01 ppb	12:49:07
3	Be 313.107†	590205.8	663819.0	244.94 ug/L	244.94 ppb	12:49:07
3	Cd 226.502†	36034.9	40460.0	454.08 ug/L	454.08 ppb	12:49:27
3	Co 228.616†	19044.6	21358.8	442.75 ug/L	442.75 ppb	12:49:27
3	Cr 267.716†	36732.7	40894.4	479.95 ug/L	479.95 ppb	12:49:07
3	Cu 324.752†	170101.9	181973.2	566.83 ug/L	566.83 ppb	12:49:07
3	Mn 257.610†	378742.5	422626.9	486.03 ug/L	486.03 ppb	12:49:07
3	Mo 202.031†	5541.1	6181.0	479.59 ug/L	479.59 ppb	12:49:27
3	Ni 231.604†	15656.8	17380.9	444.93 ug/L	444.93 ppb	12:49:27
3	P 214.914†	4278.9	4539.1	2389.6 ug/L	2389.6 ppb	12:49:27
3	Pb 220.353†	2492.4	2858.5	456.90 ug/L	456.90 ppb	12:49:27
3	S 181.975 Axial†	1850.9	2025.2	2549.5 ug/L	2549.5 ppb	12:49:27
3	Sb 206.836†	1473.8	1611.1	545.12 ug/L	545.12 ppb	12:49:27
3	Se 196.026†	3010.5	3387.2	2601.4 ug/L	2601.4 ppb	12:49:27
3	Si 251.611†	150260.4	167284.6	5207.3 ug/L	5207.3 ppb	12:49:07
3	Sn 189.927†	2051.9	2280.1	484.62 ug/L	484.62 ppb	12:49:27
3	Ti 334.940†	269479.6	302602.0	515.51 ug/L	515.51 ppb	12:49:07
3	Tl 190.801†	1236.3	1420.5	451.85 ug/L	451.85 ppb	12:49:27
3	U 409.014†	13001.1	18042.2	489.99 ug/L	489.99 ppb	12:49:07
3	V 292.402†	61601.8	70509.5	499.49 ug/L	499.49 ppb	12:49:07
3	Zn 213.857†	49001.2	54064.9	495.89 ug/L	495.89 ppb	12:49:07
3	SiO2†	147415.4	164098.4	10928 ug/L	10928 ppb	12:49:43

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	754467.6	88.760	%	0.8192				0.92%
Sc Radial	3928.8	92.4	%	0.32				0.35%
Y 371.029	603687.9	85.906	%	0.7088				0.83%
Y RADIAL	4041.0	91.79	%	0.435				0.47%
Ag 328.068†	45038.7	275.09	ug/L	0.304	275.09	ppb	0.304	0.11%
QC value within limits for Ag 328.068 Recovery = 110.04%								
Al 396.153Radial†	522560.8	522740	ug/L	5682.8	522740	ppb	5682.8	1.09%
QC value within limits for Al 396.153Radial Recovery = 104.55%								
As 188.979†	1136.5	525.60	ug/L	5.858	525.60	ppb	5.858	1.11%
QC value within limits for As 188.979 Recovery = 105.12%								
B 249.677†	22932.6	507.57	ug/L	3.924	507.57	ppb	3.924	0.77%
QC value within limits for B 249.677 Recovery = 101.51%								
Ba 233.527†	59853.2	492.86	ug/L	0.467	492.86	ppb	0.467	0.09%
QC value within limits for Ba 233.527 Recovery = 98.57%								
Be 313.107†	663303.3	244.75	ug/L	0.325	244.75	ppb	0.325	0.13%
QC value within limits for Be 313.107 Recovery = 97.90%								
Ca 317.933Radial†	258630.8	482440	ug/L	5807.7	482440	ppb	5807.7	1.20%

QC value within limits for Ca 317.933Radial Recovery = 96.49%

Cd 226.502†	40696.0	456.79 ug/L	4.090	456.79 ppb	4.090	0.90%
QC value within limits for Cd 226.502 Recovery = 91.36%						
Co 228.616†	21484.2	445.37 ug/L	3.695	445.37 ppb	3.695	0.83%
QC value within limits for Co 228.616 Recovery = 89.07%						
Cr 267.716†	40911.3	480.15 ug/L	0.269	480.15 ppb	0.269	0.06%
QC value within limits for Cr 267.716 Recovery = 96.03%						
Cu 324.752†	181541.9	565.54 ug/L	1.501	565.54 ppb	1.501	0.27%
QC value within limits for Cu 324.752 Recovery = 113.11%						
Fe 238.204 Radial†	17770.7	188870 ug/L	473.8	188870 ppb	473.8	0.25%
QC value within limits for Fe 238.204 Radial Recovery = 94.44%						
K 766.490 Radial†	27862.8	5460.2 ug/L	50.34	5460.2 ppb	50.34	0.92%
QC value within limits for K 766.490 Radial Recovery = 109.20%						
Mg 279.077 IEC†	12714.5	490870 ug/L	1186.8	490870 ppb	1186.8	0.24%
QC value within limits for Mg 279.077 IEC Recovery = 98.17%						
Mn 257.610†	421983.1	485.28 ug/L	0.742	485.28 ppb	0.742	0.15%
QC value within limits for Mn 257.610 Recovery = 97.06%						
Mo 202.031†	6224.4	482.91 ug/L	4.642	482.91 ppb	4.642	0.96%
QC value within limits for Mo 202.031 Recovery = 96.58%						
Na 589.592 Radial†	17386.9	5799.6 ug/L	62.62	5799.6 ppb	62.62	1.08%
QC value within limits for Na 589.592 Radial Recovery = 115.99%						
Ni 231.604†	17454.0	446.80 ug/L	3.769	446.80 ppb	3.769	0.84%
QC value within limits for Ni 231.604 Recovery = 89.36%						
P 214.914†	4583.2	2414.8 ug/L	27.86	2414.8 ppb	27.86	1.15%
QC value within limits for P 214.914 Recovery = 96.59%						
Pb 220.353†	2869.1	458.99 ug/L	5.234	458.99 ppb	5.234	1.14%
QC value within limits for Pb 220.353 Recovery = 91.80%						
S 181.975 Axial†	2036.8	2564.1 ug/L	21.18	2564.1 ppb	21.18	0.83%
QC value within limits for S 181.975 Axial Recovery = 102.56%						
Sb 206.836†	1621.1	548.52 ug/L	3.679	548.52 ppb	3.679	0.67%
QC value within limits for Sb 206.836 Recovery = 109.70%						
Se 196.026†	3401.5	2611.6 ug/L	11.57	2611.6 ppb	11.57	0.44%
QC value within limits for Se 196.026 Recovery = 104.46%						
Si 251.611†	166854.7	5193.9 ug/L	12.87	5193.9 ppb	12.87	0.25%
QC value within limits for Si 251.611 Recovery = 103.88%						
Sn 189.927†	2291.8	487.43 ug/L	6.152	487.43 ppb	6.152	1.26%
QC value within limits for Sn 189.927 Recovery = 97.49%						
Sr 421.552†	66337.3	508.61 ug/L	5.818	508.61 ppb	5.818	1.14%
QC value within limits for Sr 421.552 Recovery = 101.72%						
Ti 334.940†	302213.7	515.40 ug/L	0.170	515.40 ppb	0.170	0.03%
QC value within limits for Ti 334.940 Recovery = 103.08%						
Tl 190.801†	1427.9	454.14 ug/L	5.231	454.14 ppb	5.231	1.15%
QC value within limits for Tl 190.801 Recovery = 90.83%						
U 409.014†	18080.7	491.02 ug/L	2.545	491.02 ppb	2.545	0.52%
QC value within limits for U 409.014 Recovery = 98.20%						
V 292.402†	70364.6	498.44 ug/L	0.941	498.44 ppb	0.941	0.19%
QC value within limits for V 292.402 Recovery = 99.69%						
Zn 213.857†	53968.9	494.86 ug/L	1.698	494.86 ppb	1.698	0.34%
QC value within limits for Zn 213.857 Recovery = 98.97%						
SiO2†	166407.7	11082 ug/L	167.8	11082 ppb	167.8	1.51%
QC value within limits for SiO2 Recovery = 103.62%						

All analyte(s) passed QC.

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

Autosampler Location: 15
Date Collected: 2/16/2010 12:51:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3836.6	3836.6	90.3	%			12:53:52
1	Y RADIAL	3980.0	3980.0	90.41	%			12:53:52
1	Al 396.153Radial†	469696.5	520578.6	520780	ug/L	520780	ppb	12:53:47
1	Ca 317.933Radial†	231182.0	256129.3	477780	ug/L	477780	ppb	12:53:47
1	Fe 238.204 Radial†	37815.0	41888.6	445180	ug/L	445180	ppb	12:53:52
1	K 766.490 Radial†	2794.4	-75.4	-378.53	ug/L	-378.53	ppb	12:53:47
1	Mg 279.077 IEC†	11166.5	12369.7	477280	ug/L	477280	ppb	12:53:52
1	Na 589.592 Radial†	1412072.0	1564356.4	521810	ug/L	521810	ppb	12:53:47
1	Sr 421.552†	714.3	701.6	1.8499	ug/L	1.8499	ppb	12:53:52
1	Sc 361.383	724699.9	724699.9	85.258	%			12:54:21
1	Y 371.029	581705.7	581705.7	82.778	%			12:54:21
1	Ag 328.068†	-21851.5	-25857.5	8.9483	ug/L	8.9483	ppb	12:54:21
1	As 188.979†	-193.6	-198.8	20.610	ug/L	20.610	ppb	12:54:41
1	B 249.677†	1394.1	2117.1	-22.512	ug/L	-22.512	ppb	12:54:21
1	Ba 233.527†	-1136.9	-1352.3	2.6304	ug/L	2.6304	ppb	12:54:41
1	Be 313.107†	-9927.8	-7305.3	-2.7176	ug/L	-2.7176	ppb	12:54:21
1	Cd 226.502†	3273.5	4035.0	3.7857	ug/L	3.7857	ppb	12:54:41
1	Co 228.616†	297.3	427.6	2.4153	ug/L	2.4153	ppb	12:54:41
1	Cr 267.716†	189.0	72.0	4.2850	ug/L	4.2850	ppb	12:54:41
1	Cu 324.752†	2279.8	-5420.1	-0.3589	ug/L	-0.3589	ppb	12:54:21
1	Mn 257.610†	-20496.1	-24609.9	-3.9503	ug/L	-3.9503	ppb	12:54:21
1	Mo 202.031†	-472.4	-564.5	-1.7055	ug/L	-1.7055	ppb	12:54:41
1	Ni 231.604†	345.5	291.7	7.4662	ug/L	7.4662	ppb	12:54:41
1	P 214.914†	622.1	487.7	44.432	ug/L	44.432	ppb	12:54:41
1	Pb 220.353†	-580.4	-607.2	2.4255	ug/L	2.4255	ppb	12:54:41
1	S 181.975 Axial†	115.8	92.9	23.862	ug/L	23.862	ppb	12:54:41
1	Sb 206.836†	100.6	82.3	6.8584	ug/L	6.8584	ppb	12:54:41
1	Se 196.026†	-2080.6	-2417.0	41.476	ug/L	41.476	ppb	12:54:41
1	Si 251.611†	-163.0	-803.5	-24.521	ug/L	-24.521	ppb	12:54:41
1	Sn 189.927†	-379.6	-457.9	-2.0082	ug/L	-2.0082	ppb	12:54:41
1	Ti 334.940†	-9212.4	-9312.4	4.1124	ug/L	4.1124	ppb	12:54:21
1	Tl 190.801†	-87.6	-63.6	-20.434	ug/L	-20.434	ppb	12:54:41
1	U 409.014†	394240.2	465923.9	13185	ug/L	13185	ppb	12:54:21
1	V 292.402†	2097.1	4137.0	-0.8928	ug/L	-0.8928	ppb	12:54:41
1	Zn 213.857†	5731.6	6034.9	-7.7457	ug/L	-7.7457	ppb	12:54:41
1	SiO2†	-374.1	-1058.3	-69.416	ug/L	-69.416	ppb	12:55:38
2	Sc Radial	3797.7	3797.7	89.3	%			12:54:03
2	Y RADIAL	3955.5	3955.5	89.85	%			12:54:03
2	Al 396.153Radial†	471940.9	528418.0	528630	ug/L	528630	ppb	12:53:58
2	Ca 317.933Radial†	232240.7	259936.3	484880	ug/L	484880	ppb	12:53:58
2	Fe 238.204 Radial†	37836.1	42341.2	449980	ug/L	449980	ppb	12:54:03
2	K 766.490 Radial†	2912.2	88.2	-350.87	ug/L	-350.87	ppb	12:53:58
2	Mg 279.077 IEC†	11113.7	12437.3	479890	ug/L	479890	ppb	12:54:03
2	Na 589.592 Radial†	1418206.5	1587238.3	529440	ug/L	529440	ppb	12:53:58
2	Sr 421.552†	685.9	678.0	1.6142	ug/L	1.6142	ppb	12:54:03
2	Sc 361.383	735668.9	735668.9	86.548	%			12:54:46
2	Y 371.029	590847.9	590847.9	84.079	%			12:54:46
2	Ag 328.068†	-21869.6	-25496.3	12.220	ug/L	12.220	ppb	12:54:46
2	As 188.979†	-213.8	-218.7	13.321	ug/L	13.321	ppb	12:55:06
2	B 249.677†	1485.7	2198.5	-21.372	ug/L	-21.372	ppb	12:54:46
2	Ba 233.527†	-1752.5	-2043.7	-2.8403	ug/L	-2.8403	ppb	12:55:06
2	Be 313.107†	-9849.9	-7041.6	-2.6235	ug/L	-2.6235	ppb	12:54:46
2	Cd 226.502†	3082.2	3756.8	0.0299	ug/L	0.0299	ppb	12:55:06
2	Co 228.616†	217.5	330.1	0.3170	ug/L	0.3170	ppb	12:55:06
2	Cr 267.716†	66.2	-73.2	2.6949	ug/L	2.6949	ppb	12:55:06
2	Cu 324.752†	2993.8	-4635.0	2.3095	ug/L	2.3095	ppb	12:54:46
2	Mn 257.610†	-21000.5	-24834.2	-3.8406	ug/L	-3.8406	ppb	12:54:46
2	Mo 202.031†	-464.0	-546.5	0.0900	ug/L	0.0900	ppb	12:55:06
2	Ni 231.604†	298.5	231.4	5.9235	ug/L	5.9235	ppb	12:55:06

2	P 214.914†	604.2	456.1	24.523	ug/L	24.523 ppb	12:55:06
2	Pb 220.353†	-581.4	-598.2	4.8898	ug/L	4.8898 ppb	12:55:06
2	S 181.975 Axial†	84.9	55.1	-27.020	ug/L	-27.020 ppb	12:55:06
2	Sb 206.836†	74.4	50.3	-4.2099	ug/L	-4.2099 ppb	12:55:06
2	Se 196.026†	-2105.5	-2409.4	61.721	ug/L	61.721 ppb	12:55:06
2	Si 251.611†	-431.3	-1110.7	-34.111	ug/L	-34.111 ppb	12:55:06
2	Sn 189.927†	-381.6	-453.5	-0.0677	ug/L	-0.0677 ppb	12:55:06
2	Ti 334.940†	-9991.4	-10051.4	3.6592	ug/L	3.6592 ppb	12:54:46
2	Tl 190.801†	-99.5	-75.9	-24.304	ug/L	-24.304 ppb	12:55:06
2	U 409.014†	399656.7	465287.8	13166	ug/L	13166 ppb	12:54:46
2	V 292.402†	1976.4	3960.9	-2.8323	ug/L	-2.8323 ppb	12:55:06
2	Zn 213.857†	5650.6	5841.1	-10.351	ug/L	-10.351 ppb	12:55:06
2	SiO2†	-419.8	-1104.6	-72.541	ug/L	-72.541 ppb	12:55:43
3	Sc Radial	3792.8	3792.8	89.2	%		12:54:13
3	Y RADIAL	3932.5	3932.5	89.33	%		12:54:13
3	Al 396.153Radial†	469630.3	526516.8	526720	ug/L	526720 ppb	12:54:08
3	Ca 317.933Radial†	230940.4	258817.7	482790	ug/L	482790 ppb	12:54:08
3	Fe 238.204 Radial†	37445.3	41958.4	445920	ug/L	445920 ppb	12:54:13
3	K 766.490 Radial†	2836.5	7.5	-366.44	ug/L	-366.44 ppb	12:54:08
3	Mg 279.077 IEC†	11077.1	12412.4	478930	ug/L	478930 ppb	12:54:13
3	Na 589.592 Radial†	1416277.7	1587145.2	529410	ug/L	529410 ppb	12:54:08
3	Sr 421.552†	673.9	665.4	1.5330	ug/L	1.5330 ppb	12:54:13
3	Sc 361.383	735730.7	735730.7	86.556	%		12:55:12
3	Y 371.029	591133.5	591133.5	84.120	%		12:55:12
3	Ag 328.068†	-22273.9	-25961.3	8.6600	ug/L	8.6600 ppb	12:55:12
3	As 188.979†	-211.4	-216.0	13.562	ug/L	13.562 ppb	12:55:32
3	B 249.677†	1446.1	2152.6	-21.792	ug/L	-21.792 ppb	12:55:12
3	Ba 233.527†	-1776.2	-2070.9	-3.1843	ug/L	-3.1843 ppb	12:55:32
3	Be 313.107†	-9980.3	-7191.4	-2.6721	ug/L	-2.6721 ppb	12:55:12
3	Cd 226.502†	3144.8	3828.8	1.2878	ug/L	1.2878 ppb	12:55:32
3	Co 228.616†	207.6	318.7	0.1279	ug/L	0.1279 ppb	12:55:32
3	Cr 267.716†	76.0	-61.9	2.7559	ug/L	2.7559 ppb	12:55:32
3	Cu 324.752†	2087.9	-5681.9	-1.0996	ug/L	-1.0996 ppb	12:55:12
3	Mn 257.610†	-21234.7	-25102.7	-4.5129	ug/L	-4.5129 ppb	12:55:12
3	Mo 202.031†	-479.6	-564.6	-1.5926	ug/L	-1.5926 ppb	12:55:32
3	Ni 231.604†	278.6	208.4	5.3341	ug/L	5.3341 ppb	12:55:32
3	P 214.914†	617.4	471.3	36.335	ug/L	36.335 ppb	12:55:32
3	Pb 220.353†	-615.0	-636.9	0.0387	ug/L	0.0387 ppb	12:55:32
3	S 181.975 Axial†	86.5	57.0	-24.246	ug/L	-24.246 ppb	12:55:32
3	Sb 206.836†	54.7	27.5	-11.901	ug/L	-11.901 ppb	12:55:32
3	Se 196.026†	-2103.9	-2407.4	49.688	ug/L	49.688 ppb	12:55:32
3	Si 251.611†	-405.0	-1080.3	-33.147	ug/L	-33.147 ppb	12:55:32
3	Sn 189.927†	-398.8	-473.4	-4.0165	ug/L	-4.0165 ppb	12:55:32
3	Ti 334.940†	-8491.7	-8317.7	6.2845	ug/L	6.2845 ppb	12:55:12
3	Tl 190.801†	-95.4	-71.1	-22.783	ug/L	-22.783 ppb	12:55:32
3	U 409.014†	399064.1	464564.3	13146	ug/L	13146 ppb	12:55:12
3	V 292.402†	2011.5	4001.3	-2.0272	ug/L	-2.0272 ppb	12:55:32
3	Zn 213.857†	5696.0	5893.0	-9.2270	ug/L	-9.2270 ppb	12:55:32
3	SiO2†	-471.7	-1164.5	-76.497	ug/L	-76.497 ppb	12:55:48

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	732033.2	86.121	%	0.7472				0.87%
Sc Radial	3809.0	89.6	%	0.56				0.63%
Y 371.029	587895.7	83.659	%	0.7631				0.91%
Y RADIAL	3956.0	89.86	%	0.539				0.60%
Ag 328.068†	-25771.7	9.9426	ug/L	1.97719	9.9426	ppb	1.97719	19.89%
Al 396.153Radial†	525171.1	525380	ug/L	4090.8	525380	ppb	4090.8	0.78%
QC value within limits for Al 396.153Radial Recovery = 105.08%								
As 188.979†	-211.2	15.831	ug/L	4.1408	15.831	ppb	4.1408	26.16%
B 249.677†	2156.1	-21.892	ug/L	0.5768	-21.892	ppb	0.5768	2.63%
Ba 233.527†	-1822.3	-1.1314	ug/L	3.26234	-1.1314	ppb	3.26234	288.35%
Be 313.107†	-7179.4	-2.6711	ug/L	0.04707	-2.6711	ppb	0.04707	1.76%
Ca 317.933Radial†	258294.4	481820	ug/L	3650.0	481820	ppb	3650.0	0.76%
QC value within limits for Ca 317.933Radial Recovery = 96.36%								
Cd 226.502†	3873.5	1.7012	ug/L	1.91170	1.7012	ppb	1.91170	112.38%
Co 228.616†	358.8	0.9534	ug/L	1.26959	0.9534	ppb	1.26959	133.16%
Cr 267.716†	-21.0	3.2453	ug/L	0.90098	3.2453	ppb	0.90098	27.76%
Cu 324.752†	-5245.7	0.2837	ug/L	1.79306	0.2837	ppb	1.79306	632.12%

Fe 238.204 Radial†	42062.7	447030	ug/L	2589.6	447030	ppb	2589.6	0.58%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 89.41%								
K 766.490 Radial†	6.7	-365.28	ug/L	13.871	-365.28	ppb	13.871	3.80%
Mg 279.077 IEC†	12406.5	478700	ug/L	1317.5	478700	ppb	1317.5	0.28%
QC value within limits for Mg 279.077 IEC Recovery = 95.74%								
Mn 257.610†	-24848.9	-4.1013	ug/L	0.36070	-4.1013	ppb	0.36070	8.79%
Mo 202.031†	-558.6	-1.0694	ug/L	1.00566	-1.0694	ppb	1.00566	94.04%
Na 589.592 Radial†	1579579.9	526890	ug/L	4397.7	526890	ppb	4397.7	0.83%
QC value within limits for Na 589.592 Radial Recovery = 105.38%								
Ni 231.604†	243.8	6.2413	ug/L	1.10101	6.2413	ppb	1.10101	17.64%
P 214.914†	471.7	35.097	ug/L	10.0119	35.097	ppb	10.0119	28.53%
Pb 220.353†	-614.1	2.4513	ug/L	2.42568	2.4513	ppb	2.42568	98.95%
S 181.975 Axial†	68.3	-9.1349	ug/L	28.60948	-9.1349	ppb	28.60948	313.19%
Sb 206.836†	53.4	-3.0842	ug/L	9.43026	-3.0842	ppb	9.43026	305.76%
Se 196.026†	-2411.3	50.962	ug/L	10.1825	50.962	ppb	10.1825	19.98%
Si 251.611†	-998.1	-30.593	ug/L	5.2804	-30.593	ppb	5.2804	17.26%
Sn 189.927†	-461.6	-2.0308	ug/L	1.97448	-2.0308	ppb	1.97448	97.23%
Sr 421.552†	681.7	1.6657	ug/L	0.16461	1.6657	ppb	0.16461	9.88%
Ti 334.940†	-9227.2	4.6854	ug/L	1.40327	4.6854	ppb	1.40327	29.95%
Tl 190.801†	-70.2	-22.507	ug/L	1.9496	-22.507	ppb	1.9496	8.66%
U 409.014†	465258.7	13166	ug/L	19.4	13166	ppb	19.4	0.15%
QC value less than the lower limit for U 409.014 Recovery = 87.77%								
V 292.402†	4033.0	-1.9174	ug/L	0.97437	-1.9174	ppb	0.97437	50.82%
Zn 213.857†	5923.0	-9.1078	ug/L	1.30655	-9.1078	ppb	1.30655	14.35%
SiO2†	-1109.1	-72.818	ug/L	3.5488	-72.818	ppb	3.5488	4.87%

QC Failed. Continue with analysis.

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

Autosampler Location: 16
Date Collected: 2/16/2010 12:57:57
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	4043.8	4043.8	95.1	%			13:00:15
1	Y RADIAL	4406.9	4406.9	100.1	%			12:59:55
1	Al 396.153Radial†	335.3	511.5	53.469	ug/L	53.469	ppb	12:59:55
1	Ca 317.933Radial†	32.5	15.8	29.491	ug/L	29.491	ppb	13:00:15
1	Fe 238.204 Radial†	-12.6	-23.3	26.099	ug/L	26.099	ppb	13:00:15
1	K 766.490 Radial†	1473623.2	1545923.4	312050	ug/L	312050	ppb	12:59:50
1	Mg 279.077 IEC†	-0.8	-3.6	-38.405	ug/L	-38.405	ppb	13:00:15
1	Na 589.592 Radial†	317.3	126.5	42.182	ug/L	42.182	ppb	12:59:55
1	Sr 421.552†	1230116.8	1293027.5	9983.8	ug/L	9983.8	ppb	12:59:50
1	Sc 361.383	813914.2	813914.2	95.754	%			13:01:33
1	Y 371.029	653226.7	653226.7	92.956	%			13:01:33
1	Ag 328.068†	-7054.5	-7595.0	3.1080	ug/L	3.1080	ppb	13:01:38
1	As 188.979†	21370.4	22346.4	9466.5	ug/L	9466.5	ppb	13:01:38
1	B 249.677†	197564.0	206807.3	4839.3	ug/L	4839.3	ppb	13:01:33
1	Ba 233.527†	1590638.8	1661159.8	13510	ug/L	13510	ppb	13:01:33
1	Be 313.107†	7362987.9	7693852.4	2848.7	ug/L	2848.7	ppb	13:01:26
1	Cd 226.502†	774676.2	809226.2	9469.3	ug/L	9469.3	ppb	13:01:33
1	Co 228.616†	419606.5	438293.6	9137.1	ug/L	9137.1	ppb	13:01:38
1	Cr 267.716†	1929296.4	2014705.0	23453	ug/L	23453	ppb	13:01:33
1	Cu 324.752†	6350103.3	6623616.4	20280	ug/L	20280	ppb	13:01:26
1	Mn 257.610†	7853884.8	8201610.2	9459.6	ug/L	9459.6	ppb	13:01:26
1	Mo 202.031†	121770.7	127160.4	9448.8	ug/L	9448.8	ppb	13:01:38
1	Ni 231.604†	347364.8	362655.8	9283.6	ug/L	9283.6	ppb	13:01:38
1	P 214.914†	30691.2	31810.3	13716	ug/L	13716	ppb	13:01:38
1	Pb 220.353†	184431.9	192684.4	23881	ug/L	23881	ppb	13:01:38
1	S 181.975 Axial†	37197.7	38804.4	50716	ug/L	50716	ppb	13:01:38
1	Sb 206.836†	29846.2	31134.1	10888	ug/L	10888	ppb	13:01:38
1	Se 196.026†	16395.1	17145.5	10030	ug/L	10030	ppb	13:01:38
1	Si 251.611†	1441062.2	1504356.5	46763	ug/L	46763	ppb	13:01:33
1	Sn 189.927†	53366.0	55720.0	9991.2	ug/L	9991.2	ppb	13:01:38
1	Ti 334.940†	5900732.9	6163904.8	10010	ug/L	10010	ppb	13:01:26
1	Tl 190.801†	28768.7	30083.6	9564.7	ug/L	9564.7	ppb	13:01:38
1	U 409.014†	-2245.3	1170.2	-19.182	ug/L	-19.182	ppb	13:01:38
1	V 292.402†	1295811.7	1354954.1	9928.0	ug/L	9928.0	ppb	13:01:33
1	Zn 213.857†	1355698.6	1415131.8	13725	ug/L	13725	ppb	13:01:33
1	SiO2†	1463609.2	1527896.1	101610	ug/L	101610	ppb	13:02:24
2	Sc Radial	4008.7	4008.7	94.3	%			13:00:46
2	Y RADIAL	4438.8	4438.8	100.8	%			13:00:26
2	Al 396.153Radial†	375.3	557.0	100.00	ug/L	100.00	ppb	13:00:26
2	Ca 317.933Radial†	39.6	23.6	44.085	ug/L	44.085	ppb	13:00:46
2	Fe 238.204 Radial†	-9.1	-19.7	63.476	ug/L	63.476	ppb	13:00:46
2	K 766.490 Radial†	1438906.2	1522677.5	307360	ug/L	307360	ppb	13:00:21
2	Mg 279.077 IEC†	-1.1	-3.9	-51.414	ug/L	-51.414	ppb	13:00:46
2	Na 589.592 Radial†	489.8	312.3	104.17	ug/L	104.17	ppb	13:00:26
2	Sr 421.552†	1194313.0	1266387.1	9778.1	ug/L	9778.1	ppb	13:00:21
2	Sc 361.383	817881.6	817881.6	96.220	%			13:01:52
2	Y 371.029	657254.2	657254.2	93.529	%			13:01:52
2	Ag 328.068†	-7090.9	-7597.2	3.0124	ug/L	3.0124	ppb	13:01:58
2	As 188.979†	21452.5	22323.4	9454.9	ug/L	9454.9	ppb	13:01:58
2	B 249.677†	198314.1	206585.9	4834.2	ug/L	4834.2	ppb	13:01:52
2	Ba 233.527†	1591672.2	1654175.7	13453	ug/L	13453	ppb	13:01:52
2	Be 313.107†	7214029.2	7501741.9	2777.7	ug/L	2777.7	ppb	13:01:46
2	Cd 226.502†	774004.0	804603.1	9415.2	ug/L	9415.2	ppb	13:01:52
2	Co 228.616†	420007.4	436584.6	9102.0	ug/L	9102.0	ppb	13:01:58
2	Cr 267.716†	1930309.1	2005983.7	23352	ug/L	23352	ppb	13:01:52
2	Cu 324.752†	6227198.6	6463714.6	19790	ug/L	19790	ppb	13:01:46
2	Mn 257.610†	7704138.5	8006194.3	9234.2	ug/L	9234.2	ppb	13:01:46
2	Mo 202.031†	122093.3	126878.8	9427.9	ug/L	9427.9	ppb	13:01:58
2	Ni 231.604†	348181.3	361744.7	9260.3	ug/L	9260.3	ppb	13:01:58

2	P 214.914†	30684.7	31648.0	13723	ug/L	13723 ppb	13:01:58
2	Pb 220.353†	184604.3	191929.3	23788	ug/L	23788 ppb	13:01:58
2	S 181.975 Axial†	37393.6	38819.6	50735	ug/L	50735 ppb	13:01:58
2	Sb 206.836†	29820.1	30955.8	10828	ug/L	10828 ppb	13:01:58
2	Se 196.026†	16343.4	17008.7	9950.6	ug/L	9950.6 ppb	13:01:58
2	Si 251.611†	1445712.8	1501889.4	46687	ug/L	46687 ppb	13:01:52
2	Sn 189.927†	53403.3	55488.4	9949.6	ug/L	9949.6 ppb	13:01:58
2	Ti 334.940†	5792570.6	6021600.9	9778.6	ug/L	9778.6 ppb	13:01:46
2	Tl 190.801†	28856.5	30029.1	9544.7	ug/L	9544.7 ppb	13:01:58
2	U 409.014†	-2402.6	1018.2	-23.279	ug/L	-23.279 ppb	13:01:58
2	V 292.402†	1298788.8	1351483.7	9902.9	ug/L	9902.9 ppb	13:01:52
2	Zn 213.857†	1355926.1	1408500.3	13661	ug/L	13661 ppb	13:01:52
2	SiO2†	1471208.8	1528379.6	101650	ug/L	101650 ppb	13:02:30
3	Sc Radial	4019.5	4019.5	94.6	%		13:01:16
3	Y RADIAL	4196.1	4196.1	95.32	%		13:00:56
3	Al 396.153Radial†	295.0	471.0	7.4518	ug/L	7.4518 ppb	13:00:56
3	Ca 317.933Radial†	36.4	20.2	37.657	ug/L	37.657 ppb	13:01:16
3	Fe 238.204 Radial†	-13.3	-24.2	19.639	ug/L	19.639 ppb	13:01:16
3	K 766.490 Radial†	1447545.7	1527693.5	308370	ug/L	308370 ppb	13:00:51
3	Mg 279.077 IEC†	-3.4	-6.3	-144.01	ug/L	-144.01 ppb	13:01:16
3	Na 589.592 Radial†	264.3	72.4	24.148	ug/L	24.148 ppb	13:00:56
3	Sr 421.552†	1202398.1	1271517.2	9817.8	ug/L	9817.8 ppb	13:00:51
3	Sc 361.383	802890.7	802890.7	94.457	%		13:02:12
3	Y 371.029	646897.6	646897.6	92.055	%		13:02:12
3	Ag 328.068†	-7142.1	-7788.9	2.0126	ug/L	2.0126 ppb	13:02:17
3	As 188.979†	21323.7	22603.4	9575.0	ug/L	9575.0 ppb	13:02:17
3	B 249.677†	193145.1	204961.8	4795.6	ug/L	4795.6 ppb	13:02:12
3	Ba 233.527†	1559424.2	1650921.0	13426	ug/L	13426 ppb	13:02:12
3	Be 313.107†	7312694.9	7746183.8	2868.1	ug/L	2868.1 ppb	13:02:06
3	Cd 226.502†	757654.1	802312.9	9388.5	ug/L	9388.5 ppb	13:02:12
3	Co 228.616†	418639.4	443286.3	9241.4	ug/L	9241.4 ppb	13:02:17
3	Cr 267.716†	1894834.5	2005884.3	23350	ug/L	23350 ppb	13:02:12
3	Cu 324.752†	6309777.0	6671975.8	20428	ug/L	20428 ppb	13:02:06
3	Mn 257.610†	7785976.9	8242331.7	9506.6	ug/L	9506.6 ppb	13:02:06
3	Mo 202.031†	121562.1	128685.6	9562.1	ug/L	9562.1 ppb	13:02:17
3	Ni 231.604†	347180.8	367441.8	9406.1	ug/L	9406.1 ppb	13:02:17
3	P 214.914†	30616.6	32171.4	13889	ug/L	13889 ppb	13:02:17
3	Pb 220.353†	184110.0	194988.1	24167	ug/L	24167 ppb	13:02:17
3	S 181.975 Axial†	37114.8	39250.0	51298	ug/L	51298 ppb	13:02:17
3	Sb 206.836†	29665.5	31370.7	10973	ug/L	10973 ppb	13:02:17
3	Se 196.026†	16299.9	17279.8	10109	ug/L	10109 ppb	13:02:17
3	Si 251.611†	1409269.2	1491360.7	46357	ug/L	46357 ppb	13:02:12
3	Sn 189.927†	53317.8	56434.1	10119	ug/L	10119 ppb	13:02:17
3	Ti 334.940†	5863417.3	6209008.3	10083	ug/L	10083 ppb	13:02:06
3	Tl 190.801†	28780.9	30509.0	9699.5	ug/L	9699.5 ppb	13:02:17
3	U 409.014†	-2270.1	1111.9	-20.609	ug/L	-20.609 ppb	13:02:17
3	V 292.402†	1273023.0	1349408.4	9889.4	ug/L	9889.4 ppb	13:02:12
3	Zn 213.857†	1327845.6	1405083.2	13626	ug/L	13626 ppb	13:02:12
3	SiO2†	1468763.4	1554339.1	103370	ug/L	103370 ppb	13:02:35

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	811562.2	95.477	%	0.9138				0.96%
Sc Radial	4024.0	94.7	%	0.42				0.45%
Y 371.029	652459.5	92.847	%	0.7429				0.80%
Y RADIAL	4347.3	98.75	%	2.996				3.03%
Ag 328.068†	-7660.4	2.7110	ug/L	0.60675	2.7110	ppb	0.60675	22.38%
Al 396.153Radial†	513.2	53.641	ug/L	46.2750	53.641	ppb	46.2750	86.27%
As 188.979†	22424.4	9498.8	ug/L	66.23	9498.8	ppb	66.23	0.70%
QC value within limits for As 188.979 Recovery = 94.99%								
B 249.677†	206118.3	4823.1	ug/L	23.90	4823.1	ppb	23.90	0.50%
QC value within limits for B 249.677 Recovery = 96.46%								
Ba 233.527†	1655418.9	13463	ug/L	42.5	13463	ppb	42.5	0.32%
QC value less than the lower limit for Ba 233.527 Recovery = 89.75%								
Be 313.107†	7647259.4	2831.5	ug/L	47.64	2831.5	ppb	47.64	1.68%
QC value within limits for Be 313.107 Recovery = 94.38%								
Ca 317.933Radial†	19.9	37.078	ug/L	7.3141	37.078	ppb	7.3141	19.73%
Cd 226.502†	805380.7	9424.3	ug/L	41.15	9424.3	ppb	41.15	0.44%
QC value within limits for Cd 226.502 Recovery = 94.24%								

Co 228.616†	439388.2	9160.2 ug/L	72.50	9160.2 ppb	72.50	0.79%
QC value within limits for Co 228.616 Recovery = 91.60%						
Cr 267.716†	2008857.6	23385 ug/L	58.9	23385 ppb	58.9	0.25%
QC value within limits for Cr 267.716 Recovery = 93.54%						
Cu 324.752†	6586435.6	20166 ug/L	333.7	20166 ppb	333.7	1.65%
QC value within limits for Cu 324.752 Recovery = 100.83%						
Fe 238.204 Radial†	-22.4	36.405 ug/L	23.6659	36.405 ppb	23.6659	65.01%
K 766.490 Radial†	1532098.1	309260 ug/L	2469.4	309260 ppb	2469.4	0.80%
QC value within limits for K 766.490 Radial Recovery = 103.09%						
Mg 279.077 IEC†	-4.6	-77.942 ug/L	57.5819	-77.942 ppb	57.5819	73.88%
Mn 257.610†	8150045.4	9400.1 ug/L	145.59	9400.1 ppb	145.59	1.55%
QC value within limits for Mn 257.610 Recovery = 94.00%						
Mo 202.031†	127574.9	9479.6 ug/L	72.23	9479.6 ppb	72.23	0.76%
QC value within limits for Mo 202.031 Recovery = 94.80%						
Na 589.592 Radial†	170.4	56.834 ug/L	41.9759	56.834 ppb	41.9759	73.86%
Ni 231.604†	363947.4	9316.7 ug/L	78.34	9316.7 ppb	78.34	0.84%
QC value within limits for Ni 231.604 Recovery = 93.17%						
P 214.914†	31876.6	13776 ug/L	97.5	13776 ppb	97.5	0.71%
QC value within limits for P 214.914 Recovery = 91.84%						
Pb 220.353†	193200.6	23945 ug/L	197.4	23945 ppb	197.4	0.82%
QC value within limits for Pb 220.353 Recovery = 95.78%						
S 181.975 Axial†	38958.0	50916 ug/L	330.6	50916 ppb	330.6	0.65%
QC value within limits for S 181.975 Axial Recovery = 101.83%						
Sb 206.836†	31153.6	10896 ug/L	72.8	10896 ppb	72.8	0.67%
QC value within limits for Sb 206.836 Recovery = 108.96%						
Se 196.026†	17144.7	10030 ug/L	79.2	10030 ppb	79.2	0.79%
QC value within limits for Se 196.026 Recovery = 100.30%						
Si 251.611†	1499202.2	46602 ug/L	215.9	46602 ppb	215.9	0.46%
QC value within limits for Si 251.611 Recovery = 93.20%						
Sn 189.927†	55880.9	10020 ug/L	88.4	10020 ppb	88.4	0.88%
QC value within limits for Sn 189.927 Recovery = 100.20%						
Sr 421.552†	1276977.3	9859.9 ug/L	109.14	9859.9 ppb	109.14	1.11%
QC value within limits for Sr 421.552 Recovery = 98.60%						
Ti 334.940†	6131504.7	9957.3 ug/L	158.98	9957.3 ppb	158.98	1.60%
QC value within limits for Ti 334.940 Recovery = 99.57%						
Tl 190.801†	30207.3	9603.0 ug/L	84.15	9603.0 ppb	84.15	0.88%
QC value within limits for Tl 190.801 Recovery = 96.03%						
U 409.014†	1100.1	-21.023 ug/L	2.0797	-21.023 ppb	2.0797	9.89%
V 292.402†	1351948.7	9906.8 ug/L	19.60	9906.8 ppb	19.60	0.20%
QC value within limits for V 292.402 Recovery = 99.07%						
Zn 213.857†	1409571.8	13671 ug/L	50.2	13671 ppb	50.2	0.37%
QC value within limits for Zn 213.857 Recovery = 91.14%						
SiO2†	1536871.6	102210 ug/L	1006.8	102210 ppb	1006.8	0.99%
QC value within limits for SiO2 Recovery = 95.52%						

QC Failed. Continue with analysis.

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

Autosampler Location: 7
Date Collected: 2/16/2010 13:04:46
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4278.5	4278.5	101	%			13:06:38
1	Y RADIAL	4403.6	4403.6	100.0	%			13:06:38
1	Al 396.153Radial†	4944.4	5071.5	5049.1	ug/L	5049.1	ppb	13:06:38
1	Ca 317.933Radial†	2656.4	2620.9	4888.9	ug/L	4888.9	ppb	13:06:58
1	Fe 238.204 Radial†	479.4	466.3	4970.2	ug/L	4970.2	ppb	13:06:58
1	K 766.490 Radial†	29176.4	25816.3	5205.1	ug/L	5205.1	ppb	13:06:38
1	Mg 279.077 IEC†	134.8	131.2	5067.6	ug/L	5067.6	ppb	13:06:58
1	Na 589.592 Radial†	30434.4	30030.7	10017	ug/L	10017	ppb	13:06:38
1	Sr 421.552†	65572.1	65058.7	502.30	ug/L	502.30	ppb	13:06:38
1	Sc 361.383	847466.4	847466.4	99.701	%			13:07:57
1	Y 371.029	687946.7	687946.7	97.897	%			13:07:57
1	Ag 328.068†	102102.1	102180.7	493.82	ug/L	493.82	ppb	13:07:57
1	As 188.979†	1192.4	1224.3	519.47	ug/L	519.47	ppb	13:08:17
1	B 249.677†	21239.3	21784.9	510.29	ug/L	510.29	ppb	13:07:57
1	Ba 233.527†	60936.7	61100.7	497.35	ug/L	497.35	ppb	13:07:57
1	Be 313.107†	1333863.2	1342203.9	494.14	ug/L	494.14	ppb	13:07:57
1	Cd 226.502†	41617.2	41937.5	490.32	ug/L	490.32	ppb	13:08:17
1	Co 228.616†	23690.5	23840.4	497.22	ug/L	497.22	ppb	13:08:17
1	Cr 267.716†	42278.1	42255.3	492.20	ug/L	492.20	ppb	13:07:57
1	Cu 324.752†	167644.5	160053.4	490.04	ug/L	490.04	ppb	13:07:57
1	Mn 257.610†	432221.0	432947.9	499.64	ug/L	499.64	ppb	13:07:57
1	Mo 202.031†	6756.6	6766.4	503.23	ug/L	503.23	ppb	13:08:17
1	Ni 231.604†	19428.0	19372.8	495.92	ug/L	495.92	ppb	13:08:17
1	P 214.914†	4730.4	4502.6	2403.0	ug/L	2403.0	ppb	13:08:17
1	Pb 220.353†	3993.2	4078.7	506.93	ug/L	506.93	ppb	13:08:17
1	S 181.975 Axial†	815.2	774.7	1011.6	ug/L	1011.6	ppb	13:08:17
1	Sb 206.836†	1533.6	1502.5	526.63	ug/L	526.63	ppb	13:08:17
1	Se 196.026†	836.6	862.4	520.78	ug/L	520.78	ppb	13:08:17
1	Si 251.611†	79978.3	79606.0	2474.5	ug/L	2474.5	ppb	13:07:57
1	Sn 189.927†	2829.2	2825.1	507.39	ug/L	507.39	ppb	13:08:17
1	Ti 334.940†	308044.0	310461.0	504.46	ug/L	504.46	ppb	13:07:57
1	Tl 190.801†	1554.0	1597.8	507.75	ug/L	507.75	ppb	13:08:17
1	U 409.014†	13087.9	16642.3	471.09	ug/L	471.09	ppb	13:07:57
1	V 292.402†	65731.9	67606.4	496.33	ug/L	496.33	ppb	13:07:57
1	Zn 213.857†	51328.9	50795.1	491.19	ug/L	491.19	ppb	13:07:57
1	SiO2†	81049.1	80672.8	5365.0	ug/L	5365.0	ppb	13:09:17
2	Sc Radial	4172.0	4172.0	98.1	%			13:07:03
2	Y RADIAL	4288.0	4288.0	97.41	%			13:07:03
2	Al 396.153Radial†	4910.2	5162.0	5140.0	ug/L	5140.0	ppb	13:07:03
2	Ca 317.933Radial†	2675.9	2708.1	5051.7	ug/L	5051.7	ppb	13:07:23
2	Fe 238.204 Radial†	476.6	475.6	5069.0	ug/L	5069.0	ppb	13:07:23
2	K 766.490 Radial†	28880.8	26255.0	5293.5	ug/L	5293.5	ppb	13:07:03
2	Mg 279.077 IEC†	134.2	134.0	5176.9	ug/L	5176.9	ppb	13:07:23
2	Na 589.592 Radial†	30366.0	30732.8	10251	ug/L	10251	ppb	13:07:03
2	Sr 421.552†	65263.4	66407.0	512.71	ug/L	512.71	ppb	13:07:03
2	Sc 361.383	853528.2	853528.2	100.41	%			13:08:25
2	Y 371.029	692463.8	692463.8	98.539	%			13:08:25
2	Ag 328.068†	102814.1	102162.5	493.77	ug/L	493.77	ppb	13:08:25
2	As 188.979†	1175.8	1199.3	508.97	ug/L	508.97	ppb	13:08:45
2	B 249.677†	21434.1	21827.6	511.30	ug/L	511.30	ppb	13:08:25
2	Ba 233.527†	61494.7	61222.3	498.34	ug/L	498.34	ppb	13:08:25
2	Be 313.107†	1346484.8	1345271.9	495.27	ug/L	495.27	ppb	13:08:25
2	Cd 226.502†	41320.4	41345.5	483.39	ug/L	483.39	ppb	13:08:45
2	Co 228.616†	23521.9	23503.8	490.19	ug/L	490.19	ppb	13:08:45
2	Cr 267.716†	42715.2	42389.3	493.76	ug/L	493.76	ppb	13:08:25
2	Cu 324.752†	169170.7	160379.0	491.04	ug/L	491.04	ppb	13:08:25
2	Mn 257.610†	436015.6	433648.0	500.45	ug/L	500.45	ppb	13:08:25
2	Mo 202.031†	6716.9	6678.8	496.73	ug/L	496.73	ppb	13:08:45
2	Ni 231.604†	19324.8	19131.6	489.74	ug/L	489.74	ppb	13:08:45

2	P 214.914†	4700.9	4439.6	2367.7 ug/L	2367.7 ppb	13:08:45
2	Pb 220.353†	3942.6	3999.9	497.16 ug/L	497.16 ppb	13:08:45
2	S 181.975 Axial†	810.2	764.0	997.51 ug/L	997.51 ppb	13:08:45
2	Sb 206.836†	1520.3	1478.3	518.18 ug/L	518.18 ppb	13:08:45
2	Se 196.026†	826.7	846.6	511.87 ug/L	511.87 ppb	13:08:45
2	Si 251.611†	80610.7	79666.0	2476.5 ug/L	2476.5 ppb	13:08:25
2	Sn 189.927†	2802.9	2778.7	499.11 ug/L	499.11 ppb	13:08:45
2	Ti 334.940†	310548.1	310760.5	504.95 ug/L	504.95 ppb	13:08:25
2	Tl 190.801†	1545.2	1577.9	501.54 ug/L	501.54 ppb	13:08:45
2	U 409.014†	13289.0	16749.3	474.12 ug/L	474.12 ppb	13:08:25
2	V 292.402†	66387.6	67791.1	497.57 ug/L	497.57 ppb	13:08:25
2	Zn 213.857†	51825.6	50924.1	492.47 ug/L	492.47 ppb	13:08:25
2	SiO2†	80362.2	79411.3	5281.1 ug/L	5281.1 ppb	13:09:23
3	Sc Radial	4058.3	4058.3	95.5 %		13:07:28
3	Y RADIAL	4207.4	4207.4	95.57 %		13:07:28
3	Al 396.153Radial†	4832.4	5220.8	5198.9 ug/L	5198.9 ppb	13:07:28
3	Ca 317.933Radial†	2709.9	2820.2	5260.8 ug/L	5260.8 ppb	13:07:49
3	Fe 238.204 Radial†	484.8	497.7	5304.1 ug/L	5304.1 ppb	13:07:49
3	K 766.490 Radial†	28434.4	26612.4	5365.6 ug/L	5365.6 ppb	13:07:28
3	Mg 279.077 IEC†	136.4	140.1	5412.1 ug/L	5412.1 ppb	13:07:49
3	Na 589.592 Radial†	29846.8	31056.4	10359 ug/L	10359 ppb	13:07:28
3	Sr 421.552†	64381.3	67347.2	519.97 ug/L	519.97 ppb	13:07:28
3	Sc 361.383	849872.7	849872.7	99.984 %		13:08:52
3	Y 371.029	690925.9	690925.9	98.320 %		13:08:52
3	Ag 328.068†	102508.9	102297.6	494.50 ug/L	494.50 ppb	13:08:52
3	As 188.979†	1168.5	1197.0	508.09 ug/L	508.09 ppb	13:09:12
3	B 249.677†	21244.0	21729.3	508.95 ug/L	508.95 ppb	13:08:52
3	Ba 233.527†	60983.3	60974.2	496.33 ug/L	496.33 ppb	13:08:52
3	Be 313.107†	1341511.2	1346065.0	495.56 ug/L	495.56 ppb	13:08:52
3	Cd 226.502†	41179.8	41381.9	483.79 ug/L	483.79 ppb	13:09:12
3	Co 228.616†	23446.3	23528.9	490.70 ug/L	490.70 ppb	13:09:12
3	Cr 267.716†	42438.6	42295.7	492.68 ug/L	492.68 ppb	13:08:52
3	Cu 324.752†	169050.4	160983.4	492.90 ug/L	492.90 ppb	13:08:52
3	Mn 257.610†	433713.9	433213.6	499.96 ug/L	499.96 ppb	13:08:52
3	Mo 202.031†	6662.8	6653.4	494.86 ug/L	494.86 ppb	13:09:12
3	Ni 231.604†	19253.3	19142.9	490.03 ug/L	490.03 ppb	13:09:12
3	P 214.914†	4692.3	4451.1	2373.6 ug/L	2373.6 ppb	13:09:12
3	Pb 220.353†	3952.2	4026.4	500.43 ug/L	500.43 ppb	13:09:12
3	S 181.975 Axial†	802.1	759.4	991.48 ug/L	991.48 ppb	13:09:12
3	Sb 206.836†	1508.4	1473.0	516.34 ug/L	516.34 ppb	13:09:12
3	Se 196.026†	824.6	848.0	513.45 ug/L	513.45 ppb	13:09:12
3	Si 251.611†	80336.4	79737.0	2478.7 ug/L	2478.7 ppb	13:08:52
3	Sn 189.927†	2794.8	2782.6	499.84 ug/L	499.84 ppb	13:09:12
3	Ti 334.940†	309406.4	310948.9	505.27 ug/L	505.27 ppb	13:08:52
3	Tl 190.801†	1540.1	1579.5	502.01 ug/L	502.01 ppb	13:09:12
3	U 409.014†	13146.7	16663.9	471.67 ug/L	471.67 ppb	13:08:52
3	V 292.402†	66141.4	67829.2	497.78 ug/L	497.78 ppb	13:08:52
3	Zn 213.857†	51485.5	50806.0	491.28 ug/L	491.28 ppb	13:08:52
3	SiO2†	79732.5	79125.8	5262.1 ug/L	5262.1 ppb	13:09:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	850289.1	100.03	%	0.359				0.36%
Sc Radial	4169.6	98.1	%	2.59				2.64%
Y 371.029	690445.4	98.252	%	0.3268				0.33%
Y RADIAL	4299.7	97.67	%	2.241				2.29%
Ag 328.068†	102213.6	494.03	ug/L	0.406	494.03	ppb	0.406	0.08%
QC value within limits for Ag 328.068 Recovery = 98.81%								
Al 396.153Radial†	5151.5	5129.3	ug/L	75.44	5129.3	ppb	75.44	1.47%
QC value within limits for Al 396.153Radial Recovery = 102.59%								
As 188.979†	1206.9	512.18	ug/L	6.330	512.18	ppb	6.330	1.24%
QC value within limits for As 188.979 Recovery = 102.44%								
B 249.677†	21780.6	510.18	ug/L	1.180	510.18	ppb	1.180	0.23%
QC value within limits for B 249.677 Recovery = 102.04%								
Ba 233.527†	61099.1	497.34	ug/L	1.003	497.34	ppb	1.003	0.20%
QC value within limits for Ba 233.527 Recovery = 99.47%								
Be 313.107†	1344513.6	494.99	ug/L	0.750	494.99	ppb	0.750	0.15%
QC value within limits for Be 313.107 Recovery = 99.00%								
Ca 317.933Radial†	2716.4	5067.1	ug/L	186.43	5067.1	ppb	186.43	3.68%

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   QC value within limits for Ca 317.933Radial  Recovery = 101.34%
Cd 226.502†            41555.0      485.83 ug/L        3.894      485.83 ppb        3.894   0.80%
   QC value within limits for Cd 226.502  Recovery = 97.17%
Co 228.616†            23624.4      492.70 ug/L        3.924      492.70 ppb        3.924   0.80%
   QC value within limits for Co 228.616  Recovery = 98.54%
Cr 267.716†            42313.4      492.88 ug/L        0.800      492.88 ppb        0.800   0.16%
   QC value within limits for Cr 267.716  Recovery = 98.58%
Cu 324.752†           160471.9      491.33 ug/L        1.454      491.33 ppb        1.454   0.30%
   QC value within limits for Cu 324.752  Recovery = 98.27%
Fe 238.204 Radial†       479.9      5114.4 ug/L       171.51      5114.4 ppb       171.51   3.35%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.29%
K 766.490 Radial†      26227.9      5288.1 ug/L        80.37      5288.1 ppb        80.37   1.52%
   QC value within limits for K 766.490 Radial  Recovery = 105.76%
Mg 279.077 IEC†          135.1      5218.9 ug/L       176.09      5218.9 ppb       176.09   3.37%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.38%
Mn 257.610†           433269.8      500.02 ug/L        0.409      500.02 ppb        0.409   0.08%
   QC value within limits for Mn 257.610  Recovery = 100.00%
Mo 202.031†             6699.5      498.27 ug/L        4.393      498.27 ppb        4.393   0.88%
   QC value within limits for Mo 202.031  Recovery = 99.65%
Na 589.592 Radial†     30606.7       10209 ug/L        174.9       10209 ppb        174.9   1.71%
   QC value within limits for Na 589.592 Radial  Recovery = 102.09%
Ni 231.604†            19215.8      491.90 ug/L        3.484      491.90 ppb        3.484   0.71%
   QC value within limits for Ni 231.604  Recovery = 98.38%
P 214.914†              4464.4      2381.4 ug/L       18.92      2381.4 ppb        18.92   0.79%
   QC value within limits for P 214.914  Recovery = 95.26%
Pb 220.353†             4035.0      501.51 ug/L        4.976      501.51 ppb        4.976   0.99%
   QC value within limits for Pb 220.353  Recovery = 100.30%
S 181.975 Axial†         766.0      1000.2 ug/L       10.31      1000.2 ppb        10.31   1.03%
   QC value within limits for S 181.975 Axial  Recovery = 100.02%
Sb 206.836†             1484.6      520.38 ug/L        5.485      520.38 ppb        5.485   1.05%
   QC value within limits for Sb 206.836  Recovery = 104.08%
Se 196.026†              852.3      515.36 ug/L        4.753      515.36 ppb        4.753   0.92%
   QC value within limits for Se 196.026  Recovery = 103.07%
Si 251.611†            79669.7      2476.6 ug/L         2.09      2476.6 ppb         2.09   0.08%
   QC value within limits for Si 251.611  Recovery = 99.06%
Sn 189.927†             2795.5      502.11 ug/L        4.583      502.11 ppb        4.583   0.91%
   QC value within limits for Sn 189.927  Recovery = 100.42%
Sr 421.552†            66271.0      511.66 ug/L        8.880      511.66 ppb        8.880   1.74%
   QC value within limits for Sr 421.552  Recovery = 102.33%
Ti 334.940†           310723.4      504.89 ug/L        0.410      504.89 ppb        0.410   0.08%
   QC value within limits for Ti 334.940  Recovery = 100.98%
Tl 190.801†             1585.1      503.77 ug/L        3.459      503.77 ppb        3.459   0.69%
   QC value within limits for Tl 190.801  Recovery = 100.75%
U 409.014†             16685.2      472.29 ug/L        1.607      472.29 ppb        1.607   0.34%
   QC value within limits for U 409.014  Recovery = 94.46%
V 292.402†             67742.3      497.23 ug/L        0.784      497.23 ppb        0.784   0.16%
   QC value within limits for V 292.402  Recovery = 99.45%
Zn 213.857†            50841.8      491.64 ug/L        0.716      491.64 ppb        0.716   0.15%
   QC value within limits for Zn 213.857  Recovery = 98.33%
SiO2†                  79736.6      5302.7 ug/L       54.77      5302.7 ppb        54.77   1.03%
   QC value within limits for SiO2  Recovery = 99.16%
All analyte(s) passed QC.
```

Sequence No.: 14
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/16/2010 13:11:37
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4080.8	4080.8	96.0	%			13:13:50
1	Y RADIAL	4371.1	4371.1	99.29	%			13:13:30
1	Al 396.153Radial†	-122.3	31.7	31.598	ug/L	31.598	ppb	13:13:30
1	Ca 317.933Radial†	14.1	-3.7	-6.8414	ug/L	-6.8414	ppb	13:13:50
1	Fe 238.204 Radial†	10.3	0.7	7.4143	ug/L	7.4143	ppb	13:13:50
1	K 766.490 Radial†	3563.8	540.8	109.18	ug/L	109.18	ppb	13:13:30
1	Mg 279.077 IEC†	2.6	-0.0	-1.5512	ug/L	-1.5512	ppb	13:13:50
1	Na 589.592 Radial†	111.5	-90.9	-30.326	ug/L	-30.326	ppb	13:13:30
1	Sr 421.552†	61.6	-25.6	-0.1976	ug/L	-0.1976	ppb	13:13:30
1	Sc 361.383	834569.1	834569.1	98.184	%			13:14:47
1	Y 371.029	688647.9	688647.9	97.996	%			13:14:47
1	Ag 328.068†	256.0	33.0	0.1671	ug/L	0.1671	ppb	13:14:47
1	As 188.979†	-17.9	10.1	4.2506	ug/L	4.2506	ppb	13:15:07
1	B 249.677†	467.5	958.1	22.538	ug/L	22.538	ppb	13:14:47
1	Ba 233.527†	20.2	1.7	0.0143	ug/L	0.0143	ppb	13:15:07
1	Be 313.107†	-4283.1	-23.2	-0.0088	ug/L	-0.0088	ppb	13:14:47
1	Cd 226.502†	-182.2	9.9	0.1134	ug/L	0.1134	ppb	13:15:07
1	Co 228.616†	-66.0	11.6	0.2461	ug/L	0.2461	ppb	13:15:07
1	Cr 267.716†	149.3	2.4	0.0311	ug/L	0.0311	ppb	13:15:07
1	Cu 324.752†	7973.9	27.3	0.0881	ug/L	0.0881	ppb	13:14:47
1	Mn 257.610†	557.2	-2.2	-0.0018	ug/L	-0.0018	ppb	13:15:07
1	Mo 202.031†	28.9	19.0	1.4092	ug/L	1.4092	ppb	13:15:07
1	Ni 231.604†	106.2	-5.4	-0.1376	ug/L	-0.1376	ppb	13:15:07
1	P 214.914†	256.8	19.6	10.894	ug/L	10.894	ppb	13:15:07
1	Pb 220.353†	-46.8	25.9	3.2139	ug/L	3.2139	ppb	13:15:07
1	S 181.975 Axial†	43.7	1.6	2.0366	ug/L	2.0366	ppb	13:15:07
1	Sb 206.836†	40.5	5.6	1.9850	ug/L	1.9850	ppb	13:15:07
1	Se 196.026†	-17.3	5.7	3.3705	ug/L	3.3705	ppb	13:15:07
1	Si 251.611†	623.9	23.1	0.7028	ug/L	0.7028	ppb	13:15:07
1	Sn 189.927†	33.0	21.0	3.7587	ug/L	3.7587	ppb	13:15:07
1	Ti 334.940†	-1547.0	-82.7	-0.1320	ug/L	-0.1320	ppb	13:14:47
1	Tl 190.801†	-33.6	4.8	1.5285	ug/L	1.5285	ppb	13:15:07
1	U 409.014†	-3707.9	-261.3	-7.4240	ug/L	-7.4240	ppb	13:14:47
1	V 292.402†	-1652.7	-5.9	-0.0384	ug/L	-0.0384	ppb	13:14:47
1	Zn 213.857†	771.2	97.7	0.9530	ug/L	0.9530	ppb	13:15:07
1	SiO2†	667.1	59.9	3.9560	ug/L	3.9560	ppb	13:16:03
2	Sc Radial	4111.7	4111.7	96.7	%			13:14:15
2	Y RADIAL	4390.6	4390.6	99.74	%			13:13:55
2	Al 396.153Radial†	-131.4	23.2	23.175	ug/L	23.175	ppb	13:13:55
2	Ca 317.933Radial†	21.8	4.3	7.9428	ug/L	7.9428	ppb	13:14:15
2	Fe 238.204 Radial†	8.8	-0.9	-9.9532	ug/L	-9.9532	ppb	13:14:15
2	K 766.490 Radial†	3512.1	459.5	92.765	ug/L	92.765	ppb	13:13:55
2	Mg 279.077 IEC†	-1.2	-3.9	-152.00	ug/L	-152.00	ppb	13:14:15
2	Na 589.592 Radial†	96.9	-106.9	-35.655	ug/L	-35.655	ppb	13:13:55
2	Sr 421.552†	72.7	-14.7	-0.1135	ug/L	-0.1135	ppb	13:13:55
2	Sc 361.383	834436.3	834436.3	98.168	%			13:15:12
2	Y 371.029	688166.1	688166.1	97.928	%			13:15:12
2	Ag 328.068†	300.6	78.5	0.3757	ug/L	0.3757	ppb	13:15:12
2	As 188.979†	-10.9	17.3	7.2590	ug/L	7.2590	ppb	13:15:32
2	B 249.677†	398.8	888.2	20.897	ug/L	20.897	ppb	13:15:12
2	Ba 233.527†	2.9	-15.8	-0.1295	ug/L	-0.1295	ppb	13:15:32
2	Be 313.107†	-4328.8	-70.5	-0.0256	ug/L	-0.0256	ppb	13:15:12
2	Cd 226.502†	-196.7	-4.9	-0.0572	ug/L	-0.0572	ppb	13:15:32
2	Co 228.616†	-86.8	-9.6	-0.1982	ug/L	-0.1982	ppb	13:15:32
2	Cr 267.716†	156.9	10.1	0.1186	ug/L	0.1186	ppb	13:15:32
2	Cu 324.752†	8003.4	58.7	0.1814	ug/L	0.1814	ppb	13:15:12
2	Mn 257.610†	557.2	-2.1	0.0028	ug/L	0.0028	ppb	13:15:32
2	Mo 202.031†	18.1	8.0	0.5911	ug/L	0.5911	ppb	13:15:32
2	Ni 231.604†	109.6	-1.9	-0.0488	ug/L	-0.0488	ppb	13:15:32

2	P 214.914†	216.5	-21.5	-11.889	ug/L	-11.889 ppb	13:15:32
2	Pb 220.353†	-45.6	27.1	3.3643	ug/L	3.3643 ppb	13:15:32
2	S 181.975 Axial†	60.8	19.1	24.915	ug/L	24.915 ppb	13:15:32
2	Sb 206.836†	55.1	20.4	6.9965	ug/L	6.9965 ppb	13:15:32
2	Se 196.026†	-18.8	4.1	2.3827	ug/L	2.3827 ppb	13:15:32
2	Si 251.611†	646.2	46.0	1.4257	ug/L	1.4257 ppb	13:15:32
2	Sn 189.927†	40.3	28.4	5.1018	ug/L	5.1018 ppb	13:15:32
2	Ti 334.940†	-1387.0	80.1	0.1453	ug/L	0.1453 ppb	13:15:12
2	Tl 190.801†	-22.4	16.3	5.1363	ug/L	5.1363 ppb	13:15:32
2	U 409.014†	-3590.7	-142.6	-4.0492	ug/L	-4.0492 ppb	13:15:12
2	V 292.402†	-1680.2	-34.3	-0.2495	ug/L	-0.2495 ppb	13:15:12
2	Zn 213.857†	751.4	77.7	0.7595	ug/L	0.7595 ppb	13:15:32
2	SiO2†	638.1	30.5	2.0182	ug/L	2.0182 ppb	13:16:08
3	Sc Radial	4090.2	4090.2	96.2	%		13:14:40
3	Y RADIAL	4448.1	4448.1	101.0	%		13:14:20
3	Al 396.153Radial†	-130.8	23.0	23.037	ug/L	23.037 ppb	13:14:20
3	Ca 317.933Radial†	21.2	3.8	6.9966	ug/L	6.9966 ppb	13:14:40
3	Fe 238.204 Radial†	11.3	1.7	17.786	ug/L	17.786 ppb	13:14:40
3	K 766.490 Radial†	3388.9	350.5	70.764	ug/L	70.764 ppb	13:14:20
3	Mg 279.077 IEC†	0.1	-2.6	-101.31	ug/L	-101.31 ppb	13:14:40
3	Na 589.592 Radial†	87.9	-115.7	-38.591	ug/L	-38.591 ppb	13:14:20
3	Sr 421.552†	110.7	25.2	0.1947	ug/L	0.1947 ppb	13:14:20
3	Sc 361.383	843103.7	843103.7	99.188	%		13:15:37
3	Y 371.029	695321.1	695321.1	98.946	%		13:15:37
3	Ag 328.068†	198.2	-27.9	-0.1277	ug/L	-0.1277 ppb	13:15:37
3	As 188.979†	-17.9	10.3	4.3412	ug/L	4.3412 ppb	13:15:57
3	B 249.677†	341.4	826.1	19.433	ug/L	19.433 ppb	13:15:37
3	Ba 233.527†	5.9	-12.8	-0.1044	ug/L	-0.1044 ppb	13:15:57
3	Be 313.107†	-4374.5	-71.2	-0.0262	ug/L	-0.0262 ppb	13:15:37
3	Cd 226.502†	-180.4	13.6	0.1573	ug/L	0.1573 ppb	13:15:57
3	Co 228.616†	-78.9	-0.7	-0.0135	ug/L	-0.0135 ppb	13:15:57
3	Cr 267.716†	175.0	26.8	0.3120	ug/L	0.3120 ppb	13:15:57
3	Cu 324.752†	8094.8	66.9	0.2069	ug/L	0.2069 ppb	13:15:37
3	Mn 257.610†	585.0	20.1	0.0290	ug/L	0.0290 ppb	13:15:57
3	Mo 202.031†	16.4	6.0	0.4502	ug/L	0.4502 ppb	13:15:57
3	Ni 231.604†	110.5	-2.1	-0.0548	ug/L	-0.0548 ppb	13:15:57
3	P 214.914†	238.8	-1.2	-0.6621	ug/L	-0.6621 ppb	13:15:57
3	Pb 220.353†	-62.9	10.1	1.2617	ug/L	1.2617 ppb	13:15:57
3	S 181.975 Axial†	53.1	10.6	13.870	ug/L	13.870 ppb	13:15:57
3	Sb 206.836†	48.0	12.7	4.3833	ug/L	4.3833 ppb	13:15:57
3	Se 196.026†	-16.1	7.1	4.2001	ug/L	4.2001 ppb	13:15:57
3	Si 251.611†	619.3	12.1	0.3707	ug/L	0.3707 ppb	13:15:57
3	Sn 189.927†	36.5	24.2	4.3427	ug/L	4.3427 ppb	13:15:57
3	Ti 334.940†	-1508.4	-27.8	-0.0354	ug/L	-0.0354 ppb	13:15:37
3	Tl 190.801†	-28.9	9.9	3.1354	ug/L	3.1354 ppb	13:15:57
3	U 409.014†	-3545.6	-59.5	-1.6931	ug/L	-1.6931 ppb	13:15:37
3	V 292.402†	-1703.8	-40.4	-0.2944	ug/L	-0.2944 ppb	13:15:37
3	Zn 213.857†	765.4	83.9	0.8159	ug/L	0.8159 ppb	13:15:57
3	SiO2†	610.3	-4.3	-0.2962	ug/L	-0.2962 ppb	13:16:13

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	837369.7	98.513	%	0.5843				0.59%
Sc Radial	4094.2	96.3	%	0.37				0.39%
Y 371.029	690711.7	98.290	%	0.5691				0.58%
Y RADIAL	4403.3	100.0	%	0.91				0.91%
Ag 328.068†	27.9	0.1384	ug/L	0.25296	0.1384	ppb	0.25296	182.81%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	26.0	25.937	ug/L	4.9037	25.937	ppb	4.9037	18.91%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	12.6	5.2836	ug/L	1.71138	5.2836	ppb	1.71138	32.39%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	890.8	20.956	ug/L	1.5534	20.956	ppb	1.5534	7.41%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-9.0	-0.0732	ug/L	0.07679	-0.0732	ppb	0.07679	104.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-55.0	-0.0202	ug/L	0.00987	-0.0202	ppb	0.00987	48.79%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	1.4	2.6993	ug/L	8.27604	2.6993	ppb	8.27604	306.60%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                6.2      0.0712 ug/L       0.11331      0.0712 ppb        0.11331 159.17%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                0.5      0.0115 ug/L       0.22320      0.0115 ppb        0.22320 >999.9%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               13.1      0.1539 ug/L       0.14369      0.1539 ppb        0.14369  93.36%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               51.0      0.1588 ug/L       0.06254      0.1588 ppb        0.06254  39.39%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         0.5      5.0825 ug/L      14.01597      5.0825 ppb       14.01597 275.77%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        450.3     90.903 ug/L       19.2756     90.903 ppb        19.2756  21.20%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.2    -84.956 ug/L       76.5476    -84.956 ppb        76.5476  90.10%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                5.2      0.0100 ug/L       0.01662      0.0100 ppb        0.01662 165.85%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               11.0      0.8168 ug/L       0.51781      0.8168 ppb        0.51781  63.39%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      -104.5    -34.857 ug/L        4.1899    -34.857 ppb         4.1899  12.02%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -3.1     -0.0804 ug/L       0.04960     -0.0804 ppb        0.04960  61.71%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -1.0     -0.5524 ug/L      11.39186     -0.5524 ppb       11.39186 >999.9%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               21.0      2.6133 ug/L       1.17296      2.6133 ppb        1.17296  44.88%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          10.4     13.607 ug/L       11.4412     13.607 ppb        11.4412  84.08%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               12.9      4.4549 ug/L       2.50656      4.4549 ppb        2.50656  56.26%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                5.7      3.3177 ug/L       0.90985      3.3177 ppb        0.90985  27.42%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               27.1      0.8331 ug/L       0.53945      0.8331 ppb        0.53945  64.76%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               24.5      4.4011 ug/L       0.67343      4.4011 ppb        0.67343  15.30%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -5.0     -0.0388 ug/L       0.20657     -0.0388 ppb        0.20657 532.13%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -10.2     -0.0074 ug/L       0.14079     -0.0074 ppb        0.14079 >999.9%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               10.3      3.2667 ug/L       1.80748      3.2667 ppb        1.80748  55.33%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              -154.5     -4.3888 ug/L       2.88047     -4.3888 ppb        2.88047  65.63%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -26.9     -0.1941 ug/L       0.13673     -0.1941 ppb        0.13673  70.44%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               86.4      0.8428 ug/L       0.09953      0.8428 ppb        0.09953  11.81%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     28.7      1.8926 ug/L       2.12891      1.8926 ppb        2.12891 112.48%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Analysis Begun

Start Time: 2/16/2010 13:19:34 **Plasma On Time:** 2/15/2010 05:50:42
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\021610.sif
Batch ID:
Results Data Set: 021610
Results Library: C:\pe\Optima3\Results\Results.mdb

Method Loaded
Method Name: General Eng.2AX **Method Last Saved:** 2/16/2010 11:50:40
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

Sequence No.: 1 **Autosampler Location:** 37
Sample ID: LR1 **Date Collected:** 2/16/2010 13:19:36
Analyst: HSC **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3988.1	3988.1	93.8	%			13:21:50
1	Y RADIAL	4341.2	4341.2	98.61	%			13:21:30
1	Al 396.153Radial†	-160.7	-12.3	-10.938	ug/L	-10.938	ppb	13:21:30

1	Ca 317.933Radial†	7.1	-10.8	-20.119 ug/L	-20.119 ppb	13:21:50
1	Fe 238.204 Radial†	35531.6	37862.5	402390 ug/L	402390 ppb	13:21:30
1	K 766.490 Radial†	3101.0	133.7	27.081 ug/L	27.081 ppb	13:21:30
1	Mg 279.077 IEC†	11.7	9.7	-45.732 ug/L	-45.732 ppb	13:21:50
1	Na 589.592 Radial†	-113.9	-328.4	-109.55 ug/L	-109.55 ppb	13:21:30
1	Sr 421.552†	158.4	79.1	0.6107 ug/L	0.6107 ppb	13:21:30
1	Sc 361.383	832881.2	832881.2	97.985 %		13:22:47
1	Y 371.029	683100.4	683100.4	97.207 %		13:22:47
1	Ag 328.068†	-21957.5	-22636.7	19.075 ug/L	19.075 ppb	13:22:47
1	As 188.979†	-215.0	-191.1	13.937 ug/L	13.937 ppb	13:23:07
1	B 249.677†	2049.3	2573.4	-4.8538 ug/L	-4.8538 ppb	13:22:47
1	Ba 233.527†	-1848.4	-1905.2	-3.1479 ug/L	-3.1479 ppb	13:22:47
1	Be 313.107†	-8961.3	-4806.5	-1.7555 ug/L	-1.7555 ppb	13:22:47
1	Cd 226.502†	2735.8	2987.6	-4.6639 ug/L	-4.6639 ppb	13:22:47
1	Co 228.616†	752.1	846.4	11.760 ug/L	11.760 ppb	13:23:07
1	Cr 267.716†	-241.0	-395.6	-0.7230 ug/L	-0.7230 ppb	13:22:47
1	Cu 324.752†	2372.5	-5672.8	-1.6438 ug/L	-1.6438 ppb	13:22:47
1	Mn 257.610†	-31245.9	-32458.2	2.2901 ug/L	2.2901 ppb	13:22:47
1	Mo 202.031†	-355.9	-373.7	3.4668 ug/L	3.4668 ppb	13:22:47
1	Ni 231.604†	214.3	105.2	2.6850 ug/L	2.6850 ppb	13:23:07
1	P 214.914†	739.8	513.0	-36.053 ug/L	-36.053 ppb	13:23:07
1	Pb 220.353†	211.9	289.8	-2.6063 ug/L	-2.6063 ppb	13:23:07
1	S 181.975 Axial†	70.1	28.6	37.375 ug/L	37.375 ppb	13:23:07
1	Sb 206.836†	22.5	-12.7	-9.3722 ug/L	-9.3722 ppb	13:23:07
1	Se 196.026†	-1724.0	-1736.1	283.60 ug/L	283.60 ppb	13:23:07
1	Si 251.611†	-610.4	-1235.2	-38.151 ug/L	-38.151 ppb	13:22:47
1	Sn 189.927†	-28.4	-41.6	-0.6874 ug/L	-0.6874 ppb	13:23:07
1	Ti 334.940†	1182.7	2700.0	-0.0648 ug/L	-0.0648 ppb	13:22:47
1	Tl 190.801†	-53.3	-15.3	-5.1274 ug/L	-5.1274 ppb	13:23:07
1	U 409.014†	343838.2	354424.2	10022 ug/L	10022 ppb	13:22:47
1	V 292.402†	3226.3	4969.9	-3.7281 ug/L	-3.7281 ppb	13:22:47
1	Zn 213.857†	4209.5	3608.3	-24.994 ug/L	-24.994 ppb	13:23:07
1	SiO2†	-706.3	-1340.3	-88.607 ug/L	-88.607 ppb	13:24:05
2	Sc Radial	4025.1	4025.1	94.7 %		13:22:15
2	Y RADIAL	4252.0	4252.0	96.59 %		13:21:55
2	Al 396.153Radial†	-150.0	0.6	1.7932 ug/L	1.7932 ppb	13:21:55
2	Ca 317.933Radial†	7.9	-10.0	-18.603 ug/L	-18.603 ppb	13:22:15
2	Fe 238.204 Radial†	34648.7	36582.8	388790 ug/L	388790 ppb	13:21:55
2	K 766.490 Radial†	3001.9	-1.2	-0.1479 ug/L	-0.1479 ppb	13:21:55
2	Mg 279.077 IEC†	8.8	6.6	-150.99 ug/L	-150.99 ppb	13:22:15
2	Na 589.592 Radial†	-157.7	-373.7	-124.64 ug/L	-124.64 ppb	13:21:55
2	Sr 421.552†	185.6	106.2	0.8203 ug/L	0.8203 ppb	13:21:55
2	Sc 361.383	834868.4	834868.4	98.219 %		13:23:13
2	Y 371.029	683686.5	683686.5	97.290 %		13:23:13
2	Ag 328.068†	-22168.1	-22797.8	13.704 ug/L	13.704 ppb	13:23:13
2	As 188.979†	-202.1	-177.5	16.494 ug/L	16.494 ppb	13:23:33
2	B 249.677†	1949.1	2466.4	-5.1617 ug/L	-5.1617 ppb	13:23:13
2	Ba 233.527†	-1889.3	-1942.4	-3.8638 ug/L	-3.8638 ppb	13:23:13
2	Be 313.107†	-8885.9	-4708.0	-1.7194 ug/L	-1.7194 ppb	13:23:13
2	Cd 226.502†	2692.2	2936.5	-3.8550 ug/L	-3.8550 ppb	13:23:13
2	Co 228.616†	729.3	821.3	11.441 ug/L	11.441 ppb	13:23:33
2	Cr 267.716†	-247.1	-401.3	-1.0556 ug/L	-1.0556 ppb	13:23:13
2	Cu 324.752†	2323.9	-5728.1	-2.5363 ug/L	-2.5363 ppb	13:23:13
2	Mn 257.610†	-30959.5	-32090.7	1.3757 ug/L	1.3757 ppb	13:23:13
2	Mo 202.031†	-312.9	-329.1	5.7286 ug/L	5.7286 ppb	13:23:13
2	Ni 231.604†	224.0	114.6	2.9243 ug/L	2.9243 ppb	13:23:33
2	P 214.914†	742.1	513.6	-24.758 ug/L	-24.758 ppb	13:23:33
2	Pb 220.353†	218.8	296.3	-0.4934 ug/L	-0.4934 ppb	13:23:33
2	S 181.975 Axial†	70.9	29.2	38.215 ug/L	38.215 ppb	13:23:33
2	Sb 206.836†	38.1	3.2	-3.7933 ug/L	-3.7933 ppb	13:23:33
2	Se 196.026†	-1708.9	-1716.6	251.19 ug/L	251.19 ppb	13:23:33
2	Si 251.611†	-625.2	-1248.9	-38.617 ug/L	-38.617 ppb	13:23:13
2	Sn 189.927†	-30.1	-43.2	-1.2162 ug/L	-1.2162 ppb	13:23:33
2	Ti 334.940†	1170.0	2684.1	-0.0833 ug/L	-0.0833 ppb	13:23:13
2	Tl 190.801†	-53.8	-15.7	-5.2328 ug/L	-5.2328 ppb	13:23:33
2	U 409.014†	344875.5	354645.0	10030 ug/L	10030 ppb	13:23:13
2	V 292.402†	3208.6	4944.1	-1.8776 ug/L	-1.8776 ppb	13:23:13
2	Zn 213.857†	4230.1	3619.0	-22.856 ug/L	-22.856 ppb	13:23:33
2	SiO2†	-621.9	-1252.7	-82.855 ug/L	-82.855 ppb	13:24:10
3	Sc Radial	4040.8	4040.8	95.1 %		13:22:40
3	Y RADIAL	4411.2	4411.2	100.2 %		13:22:20

3	Al 396.153Radial†	-160.5	-9.8	-8.5480	ug/L	-8.5480 ppb	13:22:20
3	Ca 317.933Radial†	12.2	-5.5	-10.325	ug/L	-10.325 ppb	13:22:40
3	Fe 238.204 Radial†	35465.9	37299.6	396410	ug/L	396410 ppb	13:22:20
3	K 766.490 Radial†	3038.4	24.8	5.1041	ug/L	5.1041 ppb	13:22:20
3	Mg 279.077 IEC†	14.1	12.2	54.746	ug/L	54.746 ppb	13:22:40
3	Na 589.592 Radial†	-153.1	-368.2	-122.80	ug/L	-122.80 ppb	13:22:20
3	Sr 421.552†	164.5	83.2	0.6427	ug/L	0.6427 ppb	13:22:20
3	Sc 361.383	828455.3	828455.3	97.464	%		13:23:39
3	Y 371.029	678768.7	678768.7	96.590	%		13:23:39
3	Ag 328.068†	-22033.1	-22834.0	16.078	ug/L	16.078 ppb	13:23:39
3	As 188.979†	-208.4	-185.5	14.884	ug/L	14.884 ppb	13:23:59
3	B 249.677†	2007.3	2541.4	-4.6335	ug/L	-4.6335 ppb	13:23:39
3	Ba 233.527†	-2011.0	-2082.2	-4.7678	ug/L	-4.7678 ppb	13:23:39
3	Be 313.107†	-8887.9	-4780.0	-1.7456	ug/L	-1.7456 ppb	13:23:39
3	Cd 226.502†	2608.0	2871.3	-5.3988	ug/L	-5.3988 ppb	13:23:39
3	Co 228.616†	740.0	838.1	11.677	ug/L	11.677 ppb	13:23:59
3	Cr 267.716†	-349.8	-508.6	-2.1679	ug/L	-2.1679 ppb	13:23:39
3	Cu 324.752†	2410.3	-5621.1	-1.8205	ug/L	-1.8205 ppb	13:23:39
3	Mn 257.610†	-30964.8	-32340.2	1.8315	ug/L	1.8315 ppb	13:23:39
3	Mo 202.031†	-331.3	-350.4	4.7351	ug/L	4.7351 ppb	13:23:39
3	Ni 231.604†	222.2	114.4	2.9201	ug/L	2.9201 ppb	13:23:59
3	P 214.914†	757.8	535.5	-18.794	ug/L	-18.794 ppb	13:23:59
3	Pb 220.353†	192.9	271.5	-4.3021	ug/L	-4.3021 ppb	13:23:59
3	S 181.975 Axial†	69.8	28.8	37.581	ug/L	37.581 ppb	13:23:59
3	Sb 206.836†	20.7	-14.5	-9.8602	ug/L	-9.8602 ppb	13:23:59
3	Se 196.026†	-1722.7	-1744.2	259.62	ug/L	259.62 ppb	13:23:59
3	Si 251.611†	-636.8	-1265.7	-39.122	ug/L	-39.122 ppb	13:23:39
3	Sn 189.927†	-25.4	-38.7	-0.2718	ug/L	-0.2718 ppb	13:23:59
3	Ti 334.940†	1207.7	2732.0	-0.0333	ug/L	-0.0333 ppb	13:23:39
3	Tl 190.801†	-69.3	-32.0	-10.381	ug/L	-10.381 ppb	13:23:59
3	U 409.014†	343156.5	355599.4	10056	ug/L	10056 ppb	13:23:39
3	V 292.402†	3133.0	4891.8	-3.3319	ug/L	-3.3319 ppb	13:23:39
3	Zn 213.857†	4220.6	3642.7	-23.766	ug/L	-23.766 ppb	13:23:59
3	SiO2†	-667.6	-1304.5	-86.266	ug/L	-86.266 ppb	13:24:15

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	832068.3	97.889	%	0.3862				0.39%
Sc Radial	4018.0	94.5	%	0.64				0.67%
Y 371.029	681851.9	97.029	%	0.3822				0.39%
Y RADIAL	4334.8	98.47	%	1.814				1.84%
Ag 328.068†	-22756.2	16.286	ug/L	2.6911	16.286	ppb	2.6911	16.52%
Al 396.153Radial†	-7.2	-5.8975	ug/L	6.76670	-5.8975	ppb	6.76670	114.74%
As 188.979†	-184.7	15.105	ug/L	1.2926	15.105	ppb	1.2926	8.56%
B 249.677†	2527.1	-4.8830	ug/L	0.26531	-4.8830	ppb	0.26531	5.43%
Ba 233.527†	-1976.6	-3.9265	ug/L	0.81177	-3.9265	ppb	0.81177	20.67%
Be 313.107†	-4764.8	-1.7402	ug/L	0.01868	-1.7402	ppb	0.01868	1.07%
Ca 317.933Radial†	-8.8	-16.349	ug/L	5.2719	-16.349	ppb	5.2719	32.25%
Cd 226.502†	2931.8	-4.6392	ug/L	0.77221	-4.6392	ppb	0.77221	16.65%
Co 228.616†	835.3	11.626	ug/L	0.1654	11.626	ppb	0.1654	1.42%
Cr 267.716†	-435.2	-1.3155	ug/L	0.75672	-1.3155	ppb	0.75672	57.52%
Cu 324.752†	-5674.0	-2.0002	ug/L	0.47263	-2.0002	ppb	0.47263	23.63%
Fe 238.204 Radial†	37248.3	395860	ug/L	6816.1	395860	ppb	6816.1	1.72%
K 766.490 Radial†	52.4	10.679	ug/L	14.4449	10.679	ppb	14.4449	135.27%
Mg 279.077 IEC†	9.5	-47.325	ug/L	102.8770	-47.325	ppb	102.8770	217.38%
Mn 257.610†	-32296.3	1.8325	ug/L	0.45721	1.8325	ppb	0.45721	24.95%
Mo 202.031†	-351.1	4.6435	ug/L	1.13369	4.6435	ppb	1.13369	24.41%
Na 589.592 Radial†	-356.8	-119.00	ug/L	8.229	-119.00	ppb	8.229	6.92%
Ni 231.604†	111.4	2.8432	ug/L	0.13696	2.8432	ppb	0.13696	4.82%
P 214.914†	520.7	-26.535	ug/L	8.7655	-26.535	ppb	8.7655	33.03%
Pb 220.353†	285.9	-2.4673	ug/L	1.90818	-2.4673	ppb	1.90818	77.34%
S 181.975 Axial†	28.9	37.724	ug/L	0.4379	37.724	ppb	0.4379	1.16%
Sb 206.836†	-8.0	-7.6752	ug/L	3.37070	-7.6752	ppb	3.37070	43.92%
Se 196.026†	-1732.3	264.80	ug/L	16.814	264.80	ppb	16.814	6.35%
Si 251.611†	-1249.9	-38.630	ug/L	0.4854	-38.630	ppb	0.4854	1.26%
Sn 189.927†	-41.2	-0.7251	ug/L	0.47330	-0.7251	ppb	0.47330	65.27%
Sr 421.552†	89.5	0.6913	ug/L	0.11293	0.6913	ppb	0.11293	16.34%
Ti 334.940†	2705.4	-0.0604	ug/L	0.02526	-0.0604	ppb	0.02526	41.79%
Tl 190.801†	-21.0	-6.9138	ug/L	3.00335	-6.9138	ppb	3.00335	43.44%

U 409.014†	354889.5	10036 ug/L	17.8	10036 ppb	17.8	0.18%
V 292.402†	4935.3	-2.9792 ug/L	0.97435	-2.9792 ppb	0.97435	32.71%
Zn 213.857†	3623.3	-23.872 ug/L	1.0730	-23.872 ppb	1.0730	4.49%
SiO2†	-1299.2	-85.909 ug/L	2.8924	-85.909 ppb	2.8924	3.37%

Sequence No.: 2
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/16/2010 13:26:26
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4310.8	4310.8	101	%			13:28:18
1	Y RADIAL	4413.8	4413.8	100.3	%			13:28:18
1	Al 396.153Radial†	4928.8	5019.3	4997.1	ug/L	4997.1	ppb	13:28:18
1	Ca 317.933Radial†	2671.2	2615.8	4879.4	ug/L	4879.4	ppb	13:28:38
1	Fe 238.204 Radial†	482.3	465.5	4962.2	ug/L	4962.2	ppb	13:28:38
1	K 766.490 Radial†	28154.6	24591.9	4957.9	ug/L	4957.9	ppb	13:28:18
1	Mg 279.077 IEC†	134.8	130.2	5028.2	ug/L	5028.2	ppb	13:28:38
1	Na 589.592 Radial†	30766.8	30132.3	10051	ug/L	10051	ppb	13:28:18
1	Sr 421.552†	66158.3	65149.4	503.00	ug/L	503.00	ppb	13:28:18
1	Sc 361.383	847459.5	847459.5	99.700	%			13:29:37
1	Y 371.029	689364.5	689364.5	98.098	%			13:29:37
1	Ag 328.068†	103189.4	103272.2	499.07	ug/L	499.07	ppb	13:29:37
1	As 188.979†	1154.9	1186.7	503.69	ug/L	503.69	ppb	13:29:57
1	B 249.677†	20631.1	21175.1	495.95	ug/L	495.95	ppb	13:29:37
1	Ba 233.527†	61217.8	61383.1	499.65	ug/L	499.65	ppb	13:29:37
1	Be 313.107†	1347799.5	1356193.1	499.30	ug/L	499.30	ppb	13:29:37
1	Cd 226.502†	41450.0	41770.2	488.37	ug/L	488.37	ppb	13:29:57
1	Co 228.616†	23625.4	23775.3	495.85	ug/L	495.85	ppb	13:29:57
1	Cr 267.716†	42718.9	42697.7	497.35	ug/L	497.35	ppb	13:29:37
1	Cu 324.752†	169926.5	162343.6	497.04	ug/L	497.04	ppb	13:29:37
1	Mn 257.610†	435568.9	436309.5	503.52	ug/L	503.52	ppb	13:29:37
1	Mo 202.031†	6713.6	6723.4	500.03	ug/L	500.03	ppb	13:29:57
1	Ni 231.604†	19404.9	19349.8	495.33	ug/L	495.33	ppb	13:29:57
1	P 214.914†	4733.6	4505.8	2403.3	ug/L	2403.3	ppb	13:29:57
1	Pb 220.353†	3967.7	4053.2	503.75	ug/L	503.75	ppb	13:29:57
1	S 181.975 Axial†	799.1	758.6	990.57	ug/L	990.57	ppb	13:29:57
1	Sb 206.836†	1484.4	1453.2	509.70	ug/L	509.70	ppb	13:29:57
1	Se 196.026†	833.0	858.9	518.67	ug/L	518.67	ppb	13:29:57
1	Si 251.611†	80486.9	80116.7	2490.5	ug/L	2490.5	ppb	13:29:37
1	Sn 189.927†	2764.3	2760.0	495.72	ug/L	495.72	ppb	13:29:57
1	Ti 334.940†	311363.1	313792.6	509.87	ug/L	509.87	ppb	13:29:37
1	Tl 190.801†	1548.4	1592.1	506.04	ug/L	506.04	ppb	13:29:57
1	U 409.014†	13377.0	16932.4	479.33	ug/L	479.33	ppb	13:29:37
1	V 292.402†	66396.6	68273.6	501.13	ug/L	501.13	ppb	13:29:37
1	Zn 213.857†	51565.6	51032.9	493.50	ug/L	493.50	ppb	13:29:37
1	SiO2†	80953.8	80577.8	5358.8	ug/L	5358.8	ppb	13:30:57
2	Sc Radial	4095.8	4095.8	96.4	%			13:28:43
2	Y RADIAL	4225.8	4225.8	95.99	%			13:28:43
2	Al 396.153Radial†	4763.7	5103.1	5081.2	ug/L	5081.2	ppb	13:28:43
2	Ca 317.933Radial†	2700.1	2784.0	5193.2	ug/L	5193.2	ppb	13:29:03
2	Fe 238.204 Radial†	484.1	492.3	5246.9	ug/L	5246.9	ppb	13:29:03
2	K 766.490 Radial†	27409.2	25275.5	5095.8	ug/L	5095.8	ppb	13:28:43
2	Mg 279.077 IEC†	135.8	138.2	5337.1	ug/L	5337.1	ppb	13:29:03
2	Na 589.592 Radial†	29666.7	30583.0	10201	ug/L	10201	ppb	13:28:43
2	Sr 421.552†	63950.8	66282.5	511.75	ug/L	511.75	ppb	13:28:43
2	Sc 361.383	847465.7	847465.7	99.701	%			13:30:04
2	Y 371.029	689049.5	689049.5	98.053	%			13:30:04
2	Ag 328.068†	102828.9	102909.8	497.42	ug/L	497.42	ppb	13:30:04
2	As 188.979†	1128.7	1160.4	492.71	ug/L	492.71	ppb	13:30:24
2	B 249.677†	20622.5	21166.3	495.72	ug/L	495.72	ppb	13:30:04
2	Ba 233.527†	61314.6	61479.8	500.44	ug/L	500.44	ppb	13:30:04
2	Be 313.107†	1341780.8	1350146.4	497.07	ug/L	497.07	ppb	13:30:04
2	Cd 226.502†	40896.5	41214.7	481.84	ug/L	481.84	ppb	13:30:24
2	Co 228.616†	23324.2	23473.1	489.53	ug/L	489.53	ppb	13:30:24
2	Cr 267.716†	42677.6	42656.0	496.87	ug/L	496.87	ppb	13:30:04
2	Cu 324.752†	168900.4	161313.1	493.90	ug/L	493.90	ppb	13:30:04
2	Mn 257.610†	434688.4	435423.1	502.51	ug/L	502.51	ppb	13:30:04
2	Mo 202.031†	6635.9	6645.3	494.26	ug/L	494.26	ppb	13:30:24
2	Ni 231.604†	19111.2	19055.0	487.78	ug/L	487.78	ppb	13:30:24

2	P 214.914†	4658.6	4430.6	2361.9	ug/L	2361.9 ppb	13:30:24
2	Pb 220.353†	3932.1	4017.5	499.30	ug/L	499.30 ppb	13:30:24
2	S 181.975 Axial†	793.9	753.4	983.69	ug/L	983.69 ppb	13:30:24
2	Sb 206.836†	1461.1	1429.8	501.54	ug/L	501.54 ppb	13:30:24
2	Se 196.026†	813.1	838.9	507.90	ug/L	507.90 ppb	13:30:24
2	Si 251.611†	80375.8	80004.7	2487.1	ug/L	2487.1 ppb	13:30:04
2	Sn 189.927†	2732.6	2728.2	490.07	ug/L	490.07 ppb	13:30:24
2	Ti 334.940†	310445.9	312870.4	508.39	ug/L	508.39 ppb	13:30:04
2	Tl 190.801†	1519.9	1563.5	497.03	ug/L	497.03 ppb	13:30:24
2	U 409.014†	13374.0	16929.3	479.20	ug/L	479.20 ppb	13:30:04
2	V 292.402†	66305.8	68182.0	500.35	ug/L	500.35 ppb	13:30:04
2	Zn 213.857†	51371.3	50837.7	491.61	ug/L	491.61 ppb	13:30:04
2	SiO2†	79242.0	78860.2	5244.4	ug/L	5244.4 ppb	13:31:02
3	Sc Radial	4222.0	4222.0	99.3	%		13:29:08
3	Y RADIAL	4362.8	4362.8	99.11	%		13:29:08
3	Al 396.153Radial†	4924.0	5116.8	5094.7	ug/L	5094.7 ppb	13:29:08
3	Ca 317.933Radial†	2706.1	2706.4	5048.4	ug/L	5048.4 ppb	13:29:28
3	Fe 238.204 Radial†	482.6	475.9	5072.2	ug/L	5072.2 ppb	13:29:28
3	K 766.490 Radial†	28113.7	25134.8	5067.4	ug/L	5067.4 ppb	13:29:08
3	Mg 279.077 IEC†	133.9	132.1	5101.0	ug/L	5101.0 ppb	13:29:28
3	Na 589.592 Radial†	30432.2	30433.8	10151	ug/L	10151 ppb	13:29:08
3	Sr 421.552†	65789.5	66150.7	510.73	ug/L	510.73 ppb	13:29:08
3	Sc 361.383	853808.9	853808.9	100.45	%		13:30:32
3	Y 371.029	694630.8	694630.8	98.848	%		13:30:32
3	Ag 328.068†	102619.6	101935.2	492.67	ug/L	492.67 ppb	13:30:32
3	As 188.979†	1140.5	1163.8	494.02	ug/L	494.02 ppb	13:30:52
3	B 249.677†	20608.0	20998.2	491.78	ug/L	491.78 ppb	13:30:32
3	Ba 233.527†	61053.5	60762.9	494.60	ug/L	494.60 ppb	13:30:32
3	Be 313.107†	1339080.4	1337459.6	492.40	ug/L	492.40 ppb	13:30:32
3	Cd 226.502†	41318.9	41330.5	483.21	ug/L	483.21 ppb	13:30:52
3	Co 228.616†	23573.6	23547.5	491.10	ug/L	491.10 ppb	13:30:52
3	Cr 267.716†	42533.3	42194.3	491.49	ug/L	491.49 ppb	13:30:32
3	Cu 324.752†	168480.6	159636.6	488.77	ug/L	488.77 ppb	13:30:32
3	Mn 257.610†	433048.0	430550.8	496.88	ug/L	496.88 ppb	13:30:32
3	Mo 202.031†	6712.8	6672.4	496.26	ug/L	496.26 ppb	13:30:52
3	Ni 231.604†	19328.5	19129.0	489.68	ug/L	489.68 ppb	13:30:52
3	P 214.914†	4700.7	4437.8	2367.1	ug/L	2367.1 ppb	13:30:52
3	Pb 220.353†	3972.9	4028.8	500.73	ug/L	500.73 ppb	13:30:52
3	S 181.975 Axial†	804.1	757.6	989.23	ug/L	989.23 ppb	13:30:52
3	Sb 206.836†	1478.6	1436.4	503.89	ug/L	503.89 ppb	13:30:52
3	Se 196.026†	838.3	857.9	518.45	ug/L	518.45 ppb	13:30:52
3	Si 251.611†	79990.4	79022.1	2456.4	ug/L	2456.4 ppb	13:30:32
3	Sn 189.927†	2774.5	2749.6	493.88	ug/L	493.88 ppb	13:30:52
3	Ti 334.940†	309446.3	309561.9	503.02	ug/L	503.02 ppb	13:30:32
3	Tl 190.801†	1538.0	1570.2	499.07	ug/L	499.07 ppb	13:30:52
3	U 409.014†	13104.0	16560.9	468.77	ug/L	468.77 ppb	13:30:32
3	V 292.402†	66008.8	67392.3	494.66	ug/L	494.66 ppb	13:30:32
3	Zn 213.857†	51287.8	50371.8	487.08	ug/L	487.08 ppb	13:30:32
3	SiO2†	79210.2	78238.1	5202.9	ug/L	5202.9 ppb	13:31:07

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	849578.0	99.949	%	0.4311				0.43%
Sc Radial	4209.5	99.0	%	2.54				2.57%
Y 371.029	691014.9	98.333	%	0.4462				0.45%
Y RADIAL	4334.1	98.45	%	2.209				2.24%
Ag 328.068†	102705.7	496.39	ug/L	3.324	496.39	ppb	3.324	0.67%
QC value within limits for Ag 328.068 Recovery = 99.28%								
Al 396.153Radial†	5079.7	5057.6	ug/L	52.91	5057.6	ppb	52.91	1.05%
QC value within limits for Al 396.153Radial Recovery = 101.15%								
As 188.979†	1170.3	496.81	ug/L	5.998	496.81	ppb	5.998	1.21%
QC value within limits for As 188.979 Recovery = 99.36%								
B 249.677†	21113.2	494.48	ug/L	2.341	494.48	ppb	2.341	0.47%
QC value within limits for B 249.677 Recovery = 98.90%								
Ba 233.527†	61208.6	498.23	ug/L	3.167	498.23	ppb	3.167	0.64%
QC value within limits for Ba 233.527 Recovery = 99.65%								
Be 313.107†	1347933.0	496.25	ug/L	3.520	496.25	ppb	3.520	0.71%
QC value within limits for Be 313.107 Recovery = 99.25%								
Ca 317.933Radial†	2702.0	5040.3	ug/L	157.03	5040.3	ppb	157.03	3.12%

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   QC value within limits for Ca 317.933Radial  Recovery = 100.81%
Cd 226.502†            41438.5      484.47 ug/L        3.444      484.47 ppb        3.444   0.71%
   QC value within limits for Cd 226.502  Recovery = 96.89%
Co 228.616†            23598.6      492.16 ug/L        3.288      492.16 ppb        3.288   0.67%
   QC value within limits for Co 228.616  Recovery = 98.43%
Cr 267.716†            42516.0      495.24 ug/L        3.253      495.24 ppb        3.253   0.66%
   QC value within limits for Cr 267.716  Recovery = 99.05%
Cu 324.752†           161097.8      493.24 ug/L        4.178      493.24 ppb        4.178   0.85%
   QC value within limits for Cu 324.752  Recovery = 98.65%
Fe 238.204 Radial†       477.9      5093.8 ug/L       143.56      5093.8 ppb       143.56   2.82%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.88%
K 766.490 Radial†      25000.7      5040.4 ug/L        72.79      5040.4 ppb        72.79   1.44%
   QC value within limits for K 766.490 Radial  Recovery = 100.81%
Mg 279.077 IEC†          133.5      5155.4 ug/L       161.48      5155.4 ppb       161.48   3.13%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.11%
Mn 257.610†           434094.5      500.97 ug/L        3.575      500.97 ppb        3.575   0.71%
   QC value within limits for Mn 257.610  Recovery = 100.19%
Mo 202.031†             6680.4      496.85 ug/L        2.932      496.85 ppb        2.932   0.59%
   QC value within limits for Mo 202.031  Recovery = 99.37%
Na 589.592 Radial†     30383.0       10135 ug/L         76.6       10135 ppb         76.6   0.76%
   QC value within limits for Na 589.592 Radial  Recovery = 101.35%
Ni 231.604†            19177.9      490.93 ug/L        3.926      490.93 ppb        3.926   0.80%
   QC value within limits for Ni 231.604  Recovery = 98.19%
P 214.914†              4458.1      2377.5 ug/L       22.54      2377.5 ppb        22.54   0.95%
   QC value within limits for P 214.914  Recovery = 95.10%
Pb 220.353†             4033.2      501.26 ug/L        2.270      501.26 ppb        2.270   0.45%
   QC value within limits for Pb 220.353  Recovery = 100.25%
S 181.975 Axial†         756.6      987.83 ug/L        3.646      987.83 ppb        3.646   0.37%
   QC value within limits for S 181.975 Axial  Recovery = 98.78%
Sb 206.836†             1439.8      505.04 ug/L        4.200      505.04 ppb        4.200   0.83%
   QC value within limits for Sb 206.836  Recovery = 101.01%
Se 196.026†              851.9      515.01 ug/L        6.156      515.01 ppb        6.156   1.20%
   QC value within limits for Se 196.026  Recovery = 103.00%
Si 251.611†            79714.5      2478.0 ug/L       18.76      2478.0 ppb        18.76   0.76%
   QC value within limits for Si 251.611  Recovery = 99.12%
Sn 189.927†             2745.9      493.22 ug/L        2.880      493.22 ppb        2.880   0.58%
   QC value within limits for Sn 189.927  Recovery = 98.64%
Sr 421.552†            65860.9      508.49 ug/L        4.783      508.49 ppb        4.783   0.94%
   QC value within limits for Sr 421.552  Recovery = 101.70%
Ti 334.940†           312075.0      507.09 ug/L        3.606      507.09 ppb        3.606   0.71%
   QC value within limits for Ti 334.940  Recovery = 101.42%
Tl 190.801†             1575.3      500.71 ug/L        4.724      500.71 ppb        4.724   0.94%
   QC value within limits for Tl 190.801  Recovery = 100.14%
U 409.014†             16807.5      475.77 ug/L        6.059      475.77 ppb        6.059   1.27%
   QC value within limits for U 409.014  Recovery = 95.15%
V 292.402†             67949.3      498.71 ug/L        3.528      498.71 ppb        3.528   0.71%
   QC value within limits for V 292.402  Recovery = 99.74%
Zn 213.857†            50747.5      490.73 ug/L        3.299      490.73 ppb        3.299   0.67%
   QC value within limits for Zn 213.857  Recovery = 98.15%
SiO2†                  79225.4      5268.7 ug/L       80.73      5268.7 ppb        80.73   1.53%
   QC value within limits for SiO2  Recovery = 98.53%
All analyte(s) passed QC.
```

Sequence No.: 3
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/16/2010 13:33:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3927.6	3927.6	92.4	%			13:35:10
1	Y RADIAL	4071.0	4071.0	92.48	%			13:35:10
1	Al 396.153Radial†	-161.8	-16.1	-16.108	ug/L	-16.108	ppb	13:35:10
1	Ca 317.933Radial†	22.4	6.0	11.104	ug/L	11.104	ppb	13:35:30
1	Fe 238.204 Radial†	10.3	1.1	11.442	ug/L	11.442	ppb	13:35:30
1	K 766.490 Radial†	3230.5	324.8	65.577	ug/L	65.577	ppb	13:35:10
1	Mg 279.077 IEC†	2.7	0.2	9.5656	ug/L	9.5656	ppb	13:35:30
1	Na 589.592 Radial†	40.8	-162.9	-54.329	ug/L	-54.329	ppb	13:35:10
1	Sr 421.552†	92.6	10.4	0.0800	ug/L	0.0800	ppb	13:35:10
1	Sc 361.383	840669.4	840669.4	98.901	%			13:36:27
1	Y 371.029	694936.4	694936.4	98.891	%			13:36:27
1	Ag 328.068†	239.0	14.0	0.0695	ug/L	0.0695	ppb	13:36:27
1	As 188.979†	-27.6	0.4	0.1877	ug/L	0.1877	ppb	13:36:47
1	B 249.677†	116.2	599.4	14.099	ug/L	14.099	ppb	13:36:27
1	Ba 233.527†	8.3	-10.5	-0.0851	ug/L	-0.0851	ppb	13:36:47
1	Be 313.107†	-4317.2	-26.1	-0.0093	ug/L	-0.0093	ppb	13:36:27
1	Cd 226.502†	-201.4	-8.1	-0.0957	ug/L	-0.0957	ppb	13:36:47
1	Co 228.616†	-79.4	-1.4	-0.0289	ug/L	-0.0289	ppb	13:36:47
1	Cr 267.716†	155.6	7.6	0.0883	ug/L	0.0883	ppb	13:36:47
1	Cu 324.752†	8026.2	21.3	0.0651	ug/L	0.0651	ppb	13:36:27
1	Mn 257.610†	535.8	-28.0	-0.0316	ug/L	-0.0316	ppb	13:36:47
1	Mo 202.031†	17.1	6.9	0.5110	ug/L	0.5110	ppb	13:36:47
1	Ni 231.604†	117.0	4.8	0.1238	ug/L	0.1238	ppb	13:36:47
1	P 214.914†	246.0	6.8	3.7688	ug/L	3.7688	ppb	13:36:47
1	Pb 220.353†	-63.5	9.4	1.1581	ug/L	1.1581	ppb	13:36:47
1	S 181.975 Axial†	44.8	2.4	3.1757	ug/L	3.1757	ppb	13:36:47
1	Sb 206.836†	53.2	18.1	6.1746	ug/L	6.1746	ppb	13:36:47
1	Se 196.026†	-22.9	0.2	0.1571	ug/L	0.1571	ppb	13:36:47
1	Si 251.611†	565.3	-40.7	-1.2758	ug/L	-1.2758	ppb	13:36:47
1	Sn 189.927†	23.7	11.4	2.0410	ug/L	2.0410	ppb	13:36:47
1	Ti 334.940†	-1412.8	64.3	0.1048	ug/L	0.1048	ppb	13:36:27
1	Tl 190.801†	-29.8	9.0	2.8501	ug/L	2.8501	ppb	13:36:47
1	U 409.014†	-3440.6	36.3	1.0302	ug/L	1.0302	ppb	13:36:27
1	V 292.402†	-1677.6	-18.9	-0.1296	ug/L	-0.1296	ppb	13:36:27
1	Zn 213.857†	711.1	31.2	0.3020	ug/L	0.3020	ppb	13:36:47
1	SiO2†	616.3	3.6	0.2280	ug/L	0.2280	ppb	13:37:43
2	Sc Radial	4251.7	4251.7	100	%			13:35:35
2	Y RADIAL	4391.9	4391.9	99.77	%			13:35:35
2	Al 396.153Radial†	-154.1	5.0	4.9825	ug/L	4.9825	ppb	13:35:35
2	Ca 317.933Radial†	17.5	-0.8	-1.5118	ug/L	-1.5118	ppb	13:35:55
2	Fe 238.204 Radial†	10.3	0.2	2.1422	ug/L	2.1422	ppb	13:35:55
2	K 766.490 Radial†	3224.7	52.5	10.626	ug/L	10.626	ppb	13:35:35
2	Mg 279.077 IEC†	3.6	0.9	33.067	ug/L	33.067	ppb	13:35:55
2	Na 589.592 Radial†	-30.7	-237.8	-79.307	ug/L	-79.307	ppb	13:35:35
2	Sr 421.552†	14.5	-75.3	-0.5812	ug/L	-0.5812	ppb	13:35:35
2	Sc 361.383	840859.8	840859.8	98.924	%			13:36:53
2	Y 371.029	694632.2	694632.2	98.848	%			13:36:53
2	Ag 328.068†	155.0	-70.9	-0.3394	ug/L	-0.3394	ppb	13:36:53
2	As 188.979†	-36.6	-8.7	-3.6616	ug/L	-3.6616	ppb	13:37:13
2	B 249.677†	89.2	572.1	13.458	ug/L	13.458	ppb	13:36:53
2	Ba 233.527†	2.5	-16.3	-0.1310	ug/L	-0.1310	ppb	13:37:13
2	Be 313.107†	-4402.7	-111.5	-0.0409	ug/L	-0.0409	ppb	13:36:53
2	Cd 226.502†	-197.5	-4.2	-0.0488	ug/L	-0.0488	ppb	13:37:13
2	Co 228.616†	-74.7	3.3	0.0699	ug/L	0.0699	ppb	13:37:13
2	Cr 267.716†	169.0	21.2	0.2462	ug/L	0.2462	ppb	13:37:13
2	Cu 324.752†	8061.2	54.8	0.1665	ug/L	0.1665	ppb	13:36:53
2	Mn 257.610†	536.3	-27.6	-0.0330	ug/L	-0.0330	ppb	13:37:13
2	Mo 202.031†	13.6	3.3	0.2473	ug/L	0.2473	ppb	13:37:13
2	Ni 231.604†	103.6	-8.7	-0.2240	ug/L	-0.2240	ppb	13:37:13

2	P 214.914†	235.1	-4.3	-2.3864	ug/L	-2.3864 ppb	13:37:13
2	Pb 220.353†	-69.2	3.6	0.4419	ug/L	0.4419 ppb	13:37:13
2	S 181.975 Axial†	48.4	6.0	7.8773	ug/L	7.8773 ppb	13:37:13
2	Sb 206.836†	41.8	6.6	2.2769	ug/L	2.2769 ppb	13:37:13
2	Se 196.026†	-23.1	-0.0	-0.0205	ug/L	-0.0205 ppb	13:37:13
2	Si 251.611†	578.7	-27.3	-0.8552	ug/L	-0.8552 ppb	13:37:13
2	Sn 189.927†	27.2	14.9	2.6688	ug/L	2.6688 ppb	13:37:13
2	Ti 334.940†	-1472.1	4.8	0.0036	ug/L	0.0036 ppb	13:36:53
2	Tl 190.801†	-41.0	-2.3	-0.7335	ug/L	-0.7335 ppb	13:37:13
2	U 409.014†	-3388.1	90.2	2.5609	ug/L	2.5609 ppb	13:36:53
2	V 292.402†	-1572.0	88.2	0.6474	ug/L	0.6474 ppb	13:36:53
2	Zn 213.857†	697.8	17.6	0.1731	ug/L	0.1731 ppb	13:37:13
2	SiO2†	621.9	9.2	0.6045	ug/L	0.6045 ppb	13:37:48
3	Sc Radial	4219.0	4219.0	99.3	%		13:36:00
3	Y RADIAL	4390.6	4390.6	99.74	%		13:36:00
3	Al 396.153Radial†	-158.1	-0.3	-0.2996	ug/L	-0.2996 ppb	13:36:00
3	Ca 317.933Radial†	13.5	-4.7	-8.8094	ug/L	-8.8094 ppb	13:36:20
3	Fe 238.204 Radial†	10.0	-0.0	-0.0167	ug/L	-0.0167 ppb	13:36:20
3	K 766.490 Radial†	3161.9	14.2	2.9089	ug/L	2.9089 ppb	13:36:00
3	Mg 279.077 IEC†	0.9	-1.8	-68.962	ug/L	-68.962 ppb	13:36:20
3	Na 589.592 Radial†	-63.7	-271.2	-90.467	ug/L	-90.467 ppb	13:36:00
3	Sr 421.552†	57.1	-32.2	-0.2489	ug/L	-0.2489 ppb	13:36:00
3	Sc 361.383	843627.2	843627.2	99.249	%		13:37:18
3	Y 371.029	696156.6	696156.6	99.065	%		13:37:18
3	Ag 328.068†	118.0	-108.7	-0.5217	ug/L	-0.5217 ppb	13:37:18
3	As 188.979†	-31.0	-2.9	-1.2246	ug/L	-1.2246 ppb	13:37:38
3	B 249.677†	124.0	606.8	14.276	ug/L	14.276 ppb	13:37:18
3	Ba 233.527†	18.1	-0.6	-0.0046	ug/L	-0.0046 ppb	13:37:38
3	Be 313.107†	-4387.0	-81.0	-0.0298	ug/L	-0.0298 ppb	13:37:18
3	Cd 226.502†	-192.2	1.8	0.0212	ug/L	0.0212 ppb	13:37:38
3	Co 228.616†	-75.5	2.8	0.0603	ug/L	0.0603 ppb	13:37:38
3	Cr 267.716†	168.6	20.1	0.2345	ug/L	0.2345 ppb	13:37:38
3	Cu 324.752†	8073.9	40.9	0.1252	ug/L	0.1252 ppb	13:37:18
3	Mn 257.610†	537.4	-28.2	-0.0297	ug/L	-0.0297 ppb	13:37:38
3	Mo 202.031†	21.5	11.1	0.8284	ug/L	0.8284 ppb	13:37:38
3	Ni 231.604†	96.4	-16.4	-0.4200	ug/L	-0.4200 ppb	13:37:38
3	P 214.914†	242.1	1.9	1.0623	ug/L	1.0623 ppb	13:37:38
3	Pb 220.353†	-81.5	-8.6	-1.0587	ug/L	-1.0587 ppb	13:37:38
3	S 181.975 Axial†	49.0	6.5	8.4506	ug/L	8.4506 ppb	13:37:38
3	Sb 206.836†	59.0	23.8	8.1091	ug/L	8.1091 ppb	13:37:38
3	Se 196.026†	-11.7	11.6	6.7588	ug/L	6.7588 ppb	13:37:38
3	Si 251.611†	574.8	-33.2	-1.0437	ug/L	-1.0437 ppb	13:37:38
3	Sn 189.927†	27.7	15.3	2.7408	ug/L	2.7408 ppb	13:37:38
3	Ti 334.940†	-1491.0	-9.3	-0.0108	ug/L	-0.0108 ppb	13:37:18
3	Tl 190.801†	-44.1	-5.3	-1.6787	ug/L	-1.6787 ppb	13:37:38
3	U 409.014†	-3493.0	-4.2	-0.1210	ug/L	-0.1210 ppb	13:37:18
3	V 292.402†	-1657.4	7.3	0.0633	ug/L	0.0633 ppb	13:37:18
3	Zn 213.857†	694.8	12.3	0.1228	ug/L	0.1228 ppb	13:37:38
3	SiO2†	612.3	-2.6	-0.1956	ug/L	-0.1956 ppb	13:37:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	841718.8	99.025	%	0.1948				0.20%
Sc Radial	4132.8	97.2	%	4.20				4.32%
Y 371.029	695241.7	98.935	%	0.1148				0.12%
Y RADIAL	4284.5	97.33	%	4.200				4.32%
Ag 328.068†	-55.2	-0.2638	ug/L	0.30276	-0.2638	ppb	0.30276	114.75%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-3.8	-3.8082	ug/L	10.97404	-3.8082	ppb	10.97404	288.17%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.7	-1.5661	ug/L	1.94724	-1.5661	ppb	1.94724	124.33%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	592.8	13.944	ug/L	0.4301	13.944	ppb	0.4301	3.08%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-9.1	-0.0736	ug/L	0.06395	-0.0736	ppb	0.06395	86.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-72.9	-0.0267	ug/L	0.01603	-0.0267	ppb	0.01603	60.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	0.1	0.2609	ug/L	10.07430	0.2609	ppb	10.07430	>999.9%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                -3.5     -0.0411 ug/L       0.05885     -0.0411 ppb        0.05885 143.12%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                 1.6      0.0338 ug/L       0.05447      0.0338 ppb        0.05447 161.35%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                16.3      0.1896 ug/L       0.08797      0.1896 ppb        0.08797  46.39%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                39.0      0.1189 ug/L       0.05097      0.1189 ppb        0.05097  42.86%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.4      4.5223 ug/L       6.08866      4.5223 ppb        6.08866 134.64%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         130.5     26.371 ug/L      34.1725     26.371 ppb        34.1725 129.58%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -0.2     -8.7766 ug/L      53.43030     -8.7766 ppb       53.43030 608.78%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               -27.9     -0.0314 ug/L       0.00162     -0.0314 ppb        0.00162   5.14%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 7.1      0.5289 ug/L       0.29095      0.5289 ppb        0.29095  55.01%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -224.0     -74.701 ug/L      18.5043     -74.701 ppb        18.5043  24.77%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -6.8     -0.1734 ug/L       0.27539     -0.1734 ppb        0.27539 158.83%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  1.5      0.8149 ug/L       3.08504      0.8149 ppb        3.08504 378.58%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 1.5      0.1804 ug/L       1.13129      0.1804 ppb        1.13129 627.03%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            5.0      6.5012 ug/L       2.89423      6.5012 ppb        2.89423  44.52%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                16.2      5.5202 ug/L       2.97064      5.5202 ppb        2.97064  53.81%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 3.9      2.2985 ug/L       3.86374      2.2985 ppb        3.86374 168.10%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               -33.7     -1.0582 ug/L       0.21070     -1.0582 ppb        0.21070  19.91%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                13.8      2.4835 ug/L       0.38495      2.4835 ppb        0.38495  15.50%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -32.4     -0.2500 ug/L       0.33062     -0.2500 ppb        0.33062 132.23%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                19.9      0.0326 ug/L       0.06299      0.0326 ppb        0.06299 193.49%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 0.5      0.1460 ug/L       2.38906      0.1460 ppb        2.38906 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                 40.8      1.1567 ug/L       1.34540      1.1567 ppb        1.34540 116.31%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                 25.5      0.1937 ug/L       0.40461      0.1937 ppb        0.40461 208.88%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                20.4      0.1993 ug/L       0.09244      0.1993 ppb        0.09244  46.38%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                       3.4      0.2123 ug/L       0.40024      0.2123 ppb        0.40024 188.53%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

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

Autosampler Location: 7
Date Collected: 2/16/2010 15:01:36
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4080.2	4080.2	96.0	%			15:03:48
1	Y RADIAL	4285.5	4285.5	97.35	%			15:03:28
1	Al 396.153Radial†	4783.5	5142.6	5120.5	ug/L	5120.5	ppb	15:03:28
1	Ca 317.933Radial†	2644.9	2737.2	5106.0	ug/L	5106.0	ppb	15:03:48
1	Fe 238.204 Radial†	496.7	507.4	5407.7	ug/L	5407.7	ppb	15:03:48
1	K 766.490 Radial†	28390.1	26406.3	5323.2	ug/L	5323.2	ppb	15:03:28
1	Mg 279.077 IEC†	132.7	135.6	5235.1	ug/L	5235.1	ppb	15:03:48
1	Na 589.592 Radial†	35528.9	36808.2	12278	ug/L	12278	ppb	15:03:28
1	Sr 421.552†	66773.4	69477.1	536.42	ug/L	536.42	ppb	15:03:28
1	Sc 361.383	819156.6	819156.6	96.370	%			15:04:47
1	Y 371.029	661929.3	661929.3	94.194	%			15:04:47
1	Ag 328.068†	100495.8	104053.1	502.95	ug/L	502.95	ppb	15:04:47
1	As 188.979†	1103.3	1173.1	498.13	ug/L	498.13	ppb	15:05:07
1	B 249.677†	21328.1	22613.3	529.71	ug/L	529.71	ppb	15:04:47
1	Ba 233.527†	59092.6	61299.4	498.97	ug/L	498.97	ppb	15:04:47
1	Be 313.107†	1308525.1	1362147.6	501.49	ug/L	501.49	ppb	15:04:47
1	Cd 226.502†	39476.7	41159.1	481.17	ug/L	481.17	ppb	15:05:07
1	Co 228.616†	22888.1	23829.0	496.95	ug/L	496.95	ppb	15:05:07
1	Cr 267.716†	40435.4	41808.7	487.01	ug/L	487.01	ppb	15:04:47
1	Cu 324.752†	168397.9	166646.2	510.24	ug/L	510.24	ppb	15:04:47
1	Mn 257.610†	421122.8	436413.9	503.67	ug/L	503.67	ppb	15:04:47
1	Mo 202.031†	6473.2	6706.6	498.82	ug/L	498.82	ppb	15:05:07
1	Ni 231.604†	18503.6	19087.0	488.60	ug/L	488.60	ppb	15:05:07
1	P 214.914†	4488.7	4415.7	2350.3	ug/L	2350.3	ppb	15:05:07
1	Pb 220.353†	3783.4	3999.4	497.06	ug/L	497.06	ppb	15:05:07
1	S 181.975 Axial†	860.5	850.0	1109.9	ug/L	1109.9	ppb	15:05:07
1	Sb 206.836†	1449.8	1468.7	514.73	ug/L	514.73	ppb	15:05:07
1	Se 196.026†	789.1	842.1	510.34	ug/L	510.34	ppb	15:05:07
1	Si 251.611†	77647.3	79959.4	2485.6	ug/L	2485.6	ppb	15:04:47
1	Sn 189.927†	2625.5	2711.8	487.12	ug/L	487.12	ppb	15:05:07
1	Ti 334.940†	303184.0	316095.8	513.63	ug/L	513.63	ppb	15:04:47
1	Tl 190.801†	1506.1	1601.9	509.16	ug/L	509.16	ppb	15:05:07
1	U 409.014†	13079.8	17087.6	483.70	ug/L	483.70	ppb	15:04:47
1	V 292.402†	63536.0	67606.3	496.22	ug/L	496.22	ppb	15:04:47
1	Zn 213.857†	49869.6	51060.1	493.73	ug/L	493.73	ppb	15:04:47
1	SiO2†	77669.3	79975.0	5318.6	ug/L	5318.6	ppb	15:06:08
2	Sc Radial	4084.2	4084.2	96.1	%			15:04:14
2	Y RADIAL	4305.4	4305.4	97.80	%			15:03:54
2	Al 396.153Radial†	4809.5	5164.9	5142.6	ug/L	5142.6	ppb	15:03:54
2	Ca 317.933Radial†	2636.3	2725.6	5084.2	ug/L	5084.2	ppb	15:04:14
2	Fe 238.204 Radial†	491.9	502.0	5349.6	ug/L	5349.6	ppb	15:04:14
2	K 766.490 Radial†	28459.4	26449.4	5332.0	ug/L	5332.0	ppb	15:03:54
2	Mg 279.077 IEC†	130.3	133.0	5134.7	ug/L	5134.7	ppb	15:04:14
2	Na 589.592 Radial†	35522.4	36765.2	12263	ug/L	12263	ppb	15:03:54
2	Sr 421.552†	66527.8	69153.4	533.92	ug/L	533.92	ppb	15:03:54
2	Sc 361.383	819198.5	819198.5	96.375	%			15:05:15
2	Y 371.029	661013.3	661013.3	94.064	%			15:05:15
2	Ag 328.068†	100523.5	104076.6	503.04	ug/L	503.04	ppb	15:05:15
2	As 188.979†	1106.4	1176.3	499.47	ug/L	499.47	ppb	15:05:35
2	B 249.677†	21213.1	22492.8	526.88	ug/L	526.88	ppb	15:05:15
2	Ba 233.527†	59207.3	61415.3	499.92	ug/L	499.92	ppb	15:05:15
2	Be 313.107†	1309711.7	1363309.5	501.92	ug/L	501.92	ppb	15:05:15
2	Cd 226.502†	39584.1	41268.4	482.46	ug/L	482.46	ppb	15:05:35
2	Co 228.616†	22938.8	23880.5	498.03	ug/L	498.03	ppb	15:05:35
2	Cr 267.716†	40488.5	41861.6	487.62	ug/L	487.62	ppb	15:05:15
2	Cu 324.752†	168288.1	166523.4	509.86	ug/L	509.86	ppb	15:05:15
2	Mn 257.610†	422577.7	437901.2	505.39	ug/L	505.39	ppb	15:05:15
2	Mo 202.031†	6501.1	6735.2	500.94	ug/L	500.94	ppb	15:05:35
2	Ni 231.604†	18578.0	19163.2	490.55	ug/L	490.55	ppb	15:05:35

2	P 214.914†	4503.4	4430.8	2358.8	ug/L	2358.8 ppb	15:05:35
2	Pb 220.353†	3796.4	4012.8	498.73	ug/L	498.73 ppb	15:05:35
2	S 181.975 Axial†	860.5	849.9	1109.8	ug/L	1109.8 ppb	15:05:35
2	Sb 206.836†	1451.8	1470.7	515.47	ug/L	515.47 ppb	15:05:35
2	Se 196.026†	788.4	841.4	509.73	ug/L	509.73 ppb	15:05:35
2	Si 251.611†	77846.7	80162.2	2491.9	ug/L	2491.9 ppb	15:05:15
2	Sn 189.927†	2629.9	2716.2	487.91	ug/L	487.91 ppb	15:05:35
2	Ti 334.940†	303723.5	316639.6	514.52	ug/L	514.52 ppb	15:05:15
2	Tl 190.801†	1501.8	1597.4	507.75	ug/L	507.75 ppb	15:05:35
2	U 409.014†	13124.5	17133.2	485.01	ug/L	485.01 ppb	15:05:15
2	V 292.402†	63678.1	67750.3	497.30	ug/L	497.30 ppb	15:05:15
2	Zn 213.857†	50048.3	51242.9	495.51	ug/L	495.51 ppb	15:05:15
2	SiO2†	78162.3	80482.5	5352.4	ug/L	5352.4 ppb	15:06:13
3	Sc Radial	3909.5	3909.5	92.0	%		15:04:39
3	Y RADIAL	4212.4	4212.4	95.69	%		15:04:19
3	Al 396.153Radial†	4655.8	5221.4	5199.5	ug/L	5199.5 ppb	15:04:19
3	Ca 317.933Radial†	2635.0	2846.7	5310.2	ug/L	5310.2 ppb	15:04:39
3	Fe 238.204 Radial†	490.9	523.7	5580.3	ug/L	5580.3 ppb	15:04:39
3	K 766.490 Radial†	27867.2	27128.8	5469.0	ug/L	5469.0 ppb	15:04:19
3	Mg 279.077 IEC†	130.4	139.1	5370.7	ug/L	5370.7 ppb	15:04:39
3	Na 589.592 Radial†	34028.2	36792.3	12272	ug/L	12272 ppb	15:04:19
3	Sr 421.552†	64668.6	70225.4	542.19	ug/L	542.19 ppb	15:04:19
3	Sc 361.383	822426.5	822426.5	96.755	%		15:05:42
3	Y 371.029	663379.1	663379.1	94.400	%		15:05:42
3	Ag 328.068†	100677.5	103826.3	501.91	ug/L	501.91 ppb	15:05:42
3	As 188.979†	1081.6	1146.2	486.84	ug/L	486.84 ppb	15:06:02
3	B 249.677†	21369.9	22568.5	528.65	ug/L	528.65 ppb	15:05:42
3	Ba 233.527†	59199.0	61165.5	497.89	ug/L	497.89 ppb	15:05:42
3	Be 313.107†	1309185.8	1357432.0	499.76	ug/L	499.76 ppb	15:05:42
3	Cd 226.502†	39104.8	40611.8	474.75	ug/L	474.75 ppb	15:06:02
3	Co 228.616†	22684.3	23523.9	490.58	ug/L	490.58 ppb	15:06:02
3	Cr 267.716†	40464.0	41671.4	485.41	ug/L	485.41 ppb	15:05:42
3	Cu 324.752†	168755.9	166321.5	509.25	ug/L	509.25 ppb	15:05:42
3	Mn 257.610†	422577.2	436179.7	503.41	ug/L	503.41 ppb	15:05:42
3	Mo 202.031†	6435.8	6641.2	493.98	ug/L	493.98 ppb	15:06:02
3	Ni 231.604†	18352.1	18854.0	482.63	ug/L	482.63 ppb	15:06:02
3	P 214.914†	4440.6	4347.5	2312.5	ug/L	2312.5 ppb	15:06:02
3	Pb 220.353†	3752.5	3951.9	491.17	ug/L	491.17 ppb	15:06:02
3	S 181.975 Axial†	847.0	832.5	1087.1	ug/L	1087.1 ppb	15:06:02
3	Sb 206.836†	1439.7	1452.3	508.99	ug/L	508.99 ppb	15:06:02
3	Se 196.026†	789.3	839.1	509.12	ug/L	509.12 ppb	15:06:02
3	Si 251.611†	77939.9	79941.6	2485.1	ug/L	2485.1 ppb	15:05:42
3	Sn 189.927†	2611.7	2686.7	482.65	ug/L	482.65 ppb	15:06:02
3	Ti 334.940†	304304.4	316003.0	513.49	ug/L	513.49 ppb	15:05:42
3	Tl 190.801†	1476.3	1564.9	497.50	ug/L	497.50 ppb	15:06:02
3	U 409.014†	13078.8	17032.6	482.13	ug/L	482.13 ppb	15:05:42
3	V 292.402†	63704.2	67518.0	495.49	ug/L	495.49 ppb	15:05:42
3	Zn 213.857†	50142.4	51136.3	494.48	ug/L	494.48 ppb	15:05:42
3	SiO2†	77371.0	79346.3	5276.8	ug/L	5276.8 ppb	15:06:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	820260.5	96.500	%	0.2207				0.23%
Sc Radial	4024.6	94.7	%	2.35				2.48%
Y 371.029	662107.2	94.220	%	0.1698				0.18%
Y RADIAL	4267.7	96.95	%	1.113				1.15%
Ag 328.068†	103985.3	502.63	ug/L	0.627	502.63	ppb	0.627	0.12%
QC value within limits for Ag 328.068 Recovery = 100.53%								
Al 396.153Radial†	5176.3	5154.2	ug/L	40.75	5154.2	ppb	40.75	0.79%
QC value within limits for Al 396.153Radial Recovery = 103.08%								
As 188.979†	1165.2	494.81	ug/L	6.939	494.81	ppb	6.939	1.40%
QC value within limits for As 188.979 Recovery = 98.96%								
B 249.677†	22558.2	528.41	ug/L	1.428	528.41	ppb	1.428	0.27%
QC value within limits for B 249.677 Recovery = 105.68%								
Ba 233.527†	61293.4	498.93	ug/L	1.013	498.93	ppb	1.013	0.20%
QC value within limits for Ba 233.527 Recovery = 99.79%								
Be 313.107†	1360963.0	501.06	ug/L	1.144	501.06	ppb	1.144	0.23%
QC value within limits for Be 313.107 Recovery = 100.21%								
Ca 317.933Radial†	2769.8	5166.8	ug/L	124.65	5166.8	ppb	124.65	2.41%

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   QC value within limits for Ca 317.933Radial  Recovery = 103.34%
Cd 226.502†            41013.1      479.46 ug/L        4.130      479.46 ppb        4.130   0.86%
   QC value within limits for Cd 226.502  Recovery = 95.89%
Co 228.616†            23744.5      495.19 ug/L        4.028      495.19 ppb        4.028   0.81%
   QC value within limits for Co 228.616  Recovery = 99.04%
Cr 267.716†            41780.5      486.68 ug/L        1.140      486.68 ppb        1.140   0.23%
   QC value within limits for Cr 267.716  Recovery = 97.34%
Cu 324.752†           166497.0      509.78 ug/L        0.496      509.78 ppb        0.496   0.10%
   QC value within limits for Cu 324.752  Recovery = 101.96%
Fe 238.204 Radial†       511.0      5445.8 ug/L       120.01      5445.8 ppb       120.01   2.20%
   QC value within limits for Fe 238.204 Radial  Recovery = 108.92%
K 766.490 Radial†      26661.5      5374.7 ug/L        81.77      5374.7 ppb        81.77   1.52%
   QC value within limits for K 766.490 Radial  Recovery = 107.49%
Mg 279.077 IEC†          135.9      5246.9 ug/L       118.45      5246.9 ppb       118.45   2.26%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.94%
Mn 257.610†           436831.6      504.16 ug/L        1.072      504.16 ppb        1.072   0.21%
   QC value within limits for Mn 257.610  Recovery = 100.83%
Mo 202.031†            6694.3      497.91 ug/L        3.569      497.91 ppb        3.569   0.72%
   QC value within limits for Mo 202.031  Recovery = 99.58%
Na 589.592 Radial†     36788.6       12271 ug/L          7.2       12271 ppb          7.2   0.06%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 122.71%
Ni 231.604†            19034.8      487.26 ug/L        4.124      487.26 ppb        4.124   0.85%
   QC value within limits for Ni 231.604  Recovery = 97.45%
P 214.914†              4398.0      2340.5 ug/L       24.66      2340.5 ppb       24.66   1.05%
   QC value within limits for P 214.914  Recovery = 93.62%
Pb 220.353†             3988.0      495.65 ug/L        3.971      495.65 ppb        3.971   0.80%
   QC value within limits for Pb 220.353  Recovery = 99.13%
S 181.975 Axial†         844.1      1102.3 ug/L       13.16      1102.3 ppb       13.16   1.19%
   QC value greater than the upper limit for S 181.975 Axial  Recovery = 110.23%
Sb 206.836†             1463.9      513.07 ug/L        3.546      513.07 ppb        3.546   0.69%
   QC value within limits for Sb 206.836  Recovery = 102.61%
Se 196.026†              840.9      509.73 ug/L        0.605      509.73 ppb        0.605   0.12%
   QC value within limits for Se 196.026  Recovery = 101.95%
Si 251.611†            80021.1      2487.5 ug/L        3.79      2487.5 ppb         3.79   0.15%
   QC value within limits for Si 251.611  Recovery = 99.50%
Sn 189.927†             2704.9      485.89 ug/L        2.833      485.89 ppb        2.833   0.58%
   QC value within limits for Sn 189.927  Recovery = 97.18%
Sr 421.552†            69618.7      537.51 ug/L        4.245      537.51 ppb        4.245   0.79%
   QC value within limits for Sr 421.552  Recovery = 107.50%
Ti 334.940†           316246.1      513.88 ug/L        0.555      513.88 ppb        0.555   0.11%
   QC value within limits for Ti 334.940  Recovery = 102.78%
Tl 190.801†             1588.1      504.80 ug/L        6.362      504.80 ppb        6.362   1.26%
   QC value within limits for Tl 190.801  Recovery = 100.96%
U 409.014†             17084.5      483.61 ug/L        1.443      483.61 ppb        1.443   0.30%
   QC value within limits for U 409.014  Recovery = 96.72%
V 292.402†             67624.9      496.34 ug/L        0.912      496.34 ppb        0.912   0.18%
   QC value within limits for V 292.402  Recovery = 99.27%
Zn 213.857†            51146.4      494.57 ug/L        0.894      494.57 ppb        0.894   0.18%
   QC value within limits for Zn 213.857  Recovery = 98.91%
SiO2†                  79934.6      5315.9 ug/L       37.85      5315.9 ppb       37.85   0.71%
   QC value within limits for SiO2  Recovery = 99.41%
QC Failed.  Continue with analysis.
```

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

Autosampler Location: 8
Date Collected: 2/16/2010 15:08:27
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3994.6	3994.6	94.0	%			15:10:40
1	Y RADIAL	4277.5	4277.5	97.17	%			15:10:20
1	Al 396.153Radial†	-133.0	17.5	17.468	ug/L	17.468	ppb	15:10:20
1	Ca 317.933Radial†	17.8	0.7	1.2428	ug/L	1.2428	ppb	15:10:40
1	Fe 238.204 Radial†	7.8	-1.7	-18.094	ug/L	-18.094	ppb	15:10:40
1	K 766.490 Radial†	4316.4	1421.7	286.58	ug/L	286.58	ppb	15:10:20
1	Mg 279.077 IEC†	2.5	-0.1	-4.1074	ug/L	-4.1074	ppb	15:10:40
1	Na 589.592 Radial†	3182.1	3179.2	1060.5	ug/L	1060.5	ppb	15:10:20
1	Sr 421.552†	121.3	39.3	0.3035	ug/L	0.3035	ppb	15:10:20
1	Sc 361.383	812570.2	812570.2	95.596	%			15:11:37
1	Y 371.029	665154.7	665154.7	94.653	%			15:11:37
1	Ag 328.068†	107.8	-114.9	-0.5695	ug/L	-0.5695	ppb	15:11:37
1	As 188.979†	-34.4	-7.7	-3.2463	ug/L	-3.2463	ppb	15:11:57
1	B 249.677†	765.3	1282.5	30.174	ug/L	30.174	ppb	15:11:37
1	Ba 233.527†	11.4	-6.9	-0.0578	ug/L	-0.0578	ppb	15:11:57
1	Be 313.107†	-4311.6	-171.1	-0.0627	ug/L	-0.0627	ppb	15:11:37
1	Cd 226.502†	-198.7	-12.3	-0.1399	ug/L	-0.1399	ppb	15:11:57
1	Co 228.616†	-71.2	4.4	0.0922	ug/L	0.0922	ppb	15:11:57
1	Cr 267.716†	150.0	7.2	0.0776	ug/L	0.0776	ppb	15:11:57
1	Cu 324.752†	7871.3	139.9	0.4206	ug/L	0.4206	ppb	15:11:37
1	Mn 257.610†	536.6	-8.4	-0.0113	ug/L	-0.0113	ppb	15:11:57
1	Mo 202.031†	14.2	4.4	0.3273	ug/L	0.3273	ppb	15:11:57
1	Ni 231.604†	102.6	-6.2	-0.1583	ug/L	-0.1583	ppb	15:11:57
1	P 214.914†	242.6	11.8	6.4874	ug/L	6.4874	ppb	15:11:57
1	Pb 220.353†	-65.8	4.7	0.5903	ug/L	0.5903	ppb	15:11:57
1	S 181.975 Axial†	128.7	91.7	119.84	ug/L	119.84	ppb	15:11:57
1	Sb 206.836†	31.6	-2.6	-0.8658	ug/L	-0.8658	ppb	15:11:57
1	Se 196.026†	-15.1	7.5	4.3331	ug/L	4.3331	ppb	15:11:57
1	Si 251.611†	537.3	-50.3	-1.5702	ug/L	-1.5702	ppb	15:11:57
1	Sn 189.927†	16.3	4.4	0.7940	ug/L	0.7940	ppb	15:11:57
1	Ti 334.940†	-1381.2	48.0	0.0732	ug/L	0.0732	ppb	15:11:37
1	Tl 190.801†	-30.3	7.4	2.3483	ug/L	2.3483	ppb	15:11:57
1	U 409.014†	-2947.7	431.6	12.263	ug/L	12.263	ppb	15:11:37
1	V 292.402†	-1661.0	-60.2	-0.4055	ug/L	-0.4055	ppb	15:11:37
1	Zn 213.857†	675.1	18.5	0.1836	ug/L	0.1836	ppb	15:11:57
1	SiO2†	573.8	-19.3	-1.2964	ug/L	-1.2964	ppb	15:12:53
2	Sc Radial	4018.9	4018.9	94.5	%			15:11:05
2	Y RADIAL	4277.1	4277.1	97.16	%			15:10:45
2	Al 396.153Radial†	-138.5	12.5	12.410	ug/L	12.410	ppb	15:10:45
2	Ca 317.933Radial†	19.8	2.6	4.8968	ug/L	4.8968	ppb	15:11:05
2	Fe 238.204 Radial†	10.6	1.2	12.816	ug/L	12.816	ppb	15:11:05
2	K 766.490 Radial†	4354.7	1434.6	289.20	ug/L	289.20	ppb	15:10:45
2	Mg 279.077 IEC†	1.9	-0.7	-27.977	ug/L	-27.977	ppb	15:11:05
2	Na 589.592 Radial†	3056.1	3025.5	1009.2	ug/L	1009.2	ppb	15:10:45
2	Sr 421.552†	84.3	-0.7	-0.0052	ug/L	-0.0052	ppb	15:10:45
2	Sc 361.383	798526.3	798526.3	93.943	%			15:12:02
2	Y 371.029	653593.9	653593.9	93.008	%			15:12:02
2	Ag 328.068†	218.7	5.2	0.0283	ug/L	0.0283	ppb	15:12:02
2	As 188.979†	-33.0	-6.8	-2.8703	ug/L	-2.8703	ppb	15:12:22
2	B 249.677†	802.4	1336.1	31.431	ug/L	31.431	ppb	15:12:02
2	Ba 233.527†	13.6	-4.4	-0.0355	ug/L	-0.0355	ppb	15:12:22
2	Be 313.107†	-4331.6	-271.7	-0.0996	ug/L	-0.0996	ppb	15:12:02
2	Cd 226.502†	-201.9	-19.4	-0.2288	ug/L	-0.2288	ppb	15:12:22
2	Co 228.616†	-77.3	-3.4	-0.0675	ug/L	-0.0675	ppb	15:12:22
2	Cr 267.716†	148.5	8.4	0.0977	ug/L	0.0977	ppb	15:12:22
2	Cu 324.752†	7807.8	217.0	0.6648	ug/L	0.6648	ppb	15:12:02
2	Mn 257.610†	543.4	8.7	0.0125	ug/L	0.0125	ppb	15:12:22
2	Mo 202.031†	31.9	23.5	1.7453	ug/L	1.7453	ppb	15:12:22
2	Ni 231.604†	96.2	-11.2	-0.2858	ug/L	-0.2858	ppb	15:12:22

2	P 214.914†	239.8	13.3	7.2564	ug/L	7.2564 ppb	15:12:22
2	Pb 220.353†	-53.1	17.1	2.1215	ug/L	2.1215 ppb	15:12:22
2	S 181.975 Axial†	109.2	73.4	95.873	ug/L	95.873 ppb	15:12:22
2	Sb 206.836†	41.4	8.4	2.8955	ug/L	2.8955 ppb	15:12:22
2	Se 196.026†	-21.2	0.8	0.4863	ug/L	0.4863 ppb	15:12:22
2	Si 251.611†	552.6	-24.0	-0.7704	ug/L	-0.7704 ppb	15:12:22
2	Sn 189.927†	13.6	1.9	0.3344	ug/L	0.3344 ppb	15:12:22
2	Ti 334.940†	-1341.9	64.5	0.1075	ug/L	0.1075 ppb	15:12:02
2	Tl 190.801†	-27.1	10.3	3.2534	ug/L	3.2534 ppb	15:12:22
2	U 409.014†	-3279.8	23.9	0.6774	ug/L	0.6774 ppb	15:12:02
2	V 292.402†	-1582.1	-6.8	-0.0257	ug/L	-0.0257 ppb	15:12:02
2	Zn 213.857†	687.6	44.2	0.4303	ug/L	0.4303 ppb	15:12:22
2	SiO2†	592.2	10.9	0.6789	ug/L	0.6789 ppb	15:12:58
3	Sc Radial	4015.0	4015.0	94.5	%		15:11:30
3	Y RADIAL	4227.7	4227.7	96.03	%		15:11:10
3	Al 396.153Radial†	-142.5	8.2	8.1425	ug/L	8.1425 ppb	15:11:10
3	Ca 317.933Radial†	22.5	5.5	10.237	ug/L	10.237 ppb	15:11:30
3	Fe 238.204 Radial†	9.8	0.3	3.6350	ug/L	3.6350 ppb	15:11:30
3	K 766.490 Radial†	4241.5	1319.0	265.86	ug/L	265.86 ppb	15:11:10
3	Mg 279.077 IEC†	1.7	-0.9	-34.845	ug/L	-34.845 ppb	15:11:30
3	Na 589.592 Radial†	3167.5	3146.5	1049.6	ug/L	1049.6 ppb	15:11:10
3	Sr 421.552†	83.9	-1.0	-0.0075	ug/L	-0.0075 ppb	15:11:10
3	Sc 361.383	808530.9	808530.9	95.120	%		15:12:27
3	Y 371.029	661117.5	661117.5	94.079	%		15:12:27
3	Ag 328.068†	207.4	-9.7	-0.0484	ug/L	-0.0484 ppb	15:12:27
3	As 188.979†	-28.1	-1.3	-0.5262	ug/L	-0.5262 ppb	15:12:48
3	B 249.677†	751.7	1272.2	29.929	ug/L	29.929 ppb	15:12:27
3	Ba 233.527†	3.0	-15.7	-0.1275	ug/L	-0.1275 ppb	15:12:48
3	Be 313.107†	-4435.2	-323.6	-0.1187	ug/L	-0.1187 ppb	15:12:27
3	Cd 226.502†	-191.8	-6.1	-0.0713	ug/L	-0.0713 ppb	15:12:48
3	Co 228.616†	-66.8	8.6	0.1801	ug/L	0.1801 ppb	15:12:48
3	Cr 267.716†	149.6	7.6	0.0873	ug/L	0.0873 ppb	15:12:48
3	Cu 324.752†	7890.9	201.6	0.6154	ug/L	0.6154 ppb	15:12:27
3	Mn 257.610†	543.5	1.6	0.0036	ug/L	0.0036 ppb	15:12:48
3	Mo 202.031†	12.9	3.1	0.2339	ug/L	0.2339 ppb	15:12:48
3	Ni 231.604†	101.1	-7.2	-0.1846	ug/L	-0.1846 ppb	15:12:48
3	P 214.914†	236.4	6.5	3.5036	ug/L	3.5036 ppb	15:12:48
3	Pb 220.353†	-73.2	-3.4	-0.4179	ug/L	-0.4179 ppb	15:12:48
3	S 181.975 Axial†	103.5	65.9	86.167	ug/L	86.167 ppb	15:12:48
3	Sb 206.836†	46.2	12.9	4.3605	ug/L	4.3605 ppb	15:12:48
3	Se 196.026†	-25.0	-2.9	-1.7066	ug/L	-1.7066 ppb	15:12:48
3	Si 251.611†	562.9	-20.6	-0.6438	ug/L	-0.6438 ppb	15:12:48
3	Sn 189.927†	10.0	-2.1	-0.3839	ug/L	-0.3839 ppb	15:12:48
3	Ti 334.940†	-1375.5	46.8	0.0787	ug/L	0.0787 ppb	15:12:27
3	Tl 190.801†	-37.1	0.1	0.0444	ug/L	0.0444 ppb	15:12:48
3	U 409.014†	-3227.4	122.2	3.4704	ug/L	3.4704 ppb	15:12:27
3	V 292.402†	-1601.3	-6.2	-0.0363	ug/L	-0.0363 ppb	15:12:27
3	Zn 213.857†	673.2	20.0	0.1947	ug/L	0.1947 ppb	15:12:48
3	SiO2†	534.8	-57.3	-3.8266	ug/L	-3.8266 ppb	15:13:03

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	806542.5	94.886	%	0.8506				0.90%
Sc Radial	4009.5	94.3	%	0.31				0.33%
Y 371.029	659955.4	93.913	%	0.8349				0.89%
Y RADIAL	4260.8	96.79	%	0.651				0.67%
Ag 328.068†	-39.8	-0.1966	ug/L	0.32524	-0.1966	ppb	0.32524	165.47%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	12.7	12.674	ug/L	4.6686	12.674	ppb	4.6686	36.84%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-5.3	-2.2143	ug/L	1.47392	-2.2143	ppb	1.47392	66.57%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	1296.9	30.512	ug/L	0.8055	30.512	ppb	0.8055	2.64%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-9.0	-0.0736	ug/L	0.04800	-0.0736	ppb	0.04800	65.21%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-255.5	-0.0936	ug/L	0.02847	-0.0936	ppb	0.02847	30.40%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.9	5.4590	ug/L	4.52355	5.4590	ppb	4.52355	82.86%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -12.6     -0.1467 ug/L       0.07896     -0.1467 ppb        0.07896  53.83%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                3.2      0.0683 ug/L       0.12550      0.0683 ppb        0.12550 183.86%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                7.7      0.0875 ug/L       0.01005      0.0875 ppb        0.01005  11.49%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              186.2      0.5669 ug/L       0.12911      0.5669 ppb        0.12911  22.77%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.1     -0.5477 ug/L      15.87374     -0.5477 ppb       15.87374 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       1391.8      280.55 ug/L        12.787      280.55 ppb         12.787   4.56%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.6     -22.310 ug/L       16.1333     -22.310 ppb        16.1333  72.32%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                0.6      0.0016 ug/L       0.01200      0.0016 ppb        0.01200 746.36%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               10.3      0.7689 ug/L       0.84691      0.7689 ppb        0.84691 110.15%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      3117.1      1039.7 ug/L         27.01      1039.7 ppb          27.01   2.60%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -8.2     -0.2095 ug/L       0.06733     -0.2095 ppb        0.06733  32.13%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                10.6      5.7491 ug/L       1.98232      5.7491 ppb        1.98232  34.48%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                6.1      0.7647 ug/L       1.27864      0.7647 ppb        1.27864 167.22%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          77.0      100.63 ug/L        17.335      100.63 ppb         17.335  17.23%
   QC value greater than the upper limit for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                6.2      2.1301 ug/L       2.69593      2.1301 ppb        2.69593 126.56%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                1.8      1.0376 ug/L       3.05737      1.0376 ppb        3.05737 294.66%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              -31.6     -0.9948 ug/L       0.50230     -0.9948 ppb        0.50230  50.49%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                1.4      0.2482 ug/L       0.59366      0.2482 ppb        0.59366 239.20%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               12.6      0.0969 ug/L       0.17891      0.0969 ppb        0.17891 184.58%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               53.1      0.0864 ug/L       0.01842      0.0864 ppb        0.01842  21.31%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                6.0      1.8820 ug/L       1.65453      1.8820 ppb        1.65453  87.91%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               192.6      5.4702 ug/L       6.04610      5.4702 ppb        6.04610 110.53%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -24.4     -0.1558 ug/L       0.21631     -0.1558 ppb        0.21631 138.83%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               27.6      0.2695 ug/L       0.13936      0.2695 ppb        0.13936  51.70%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    -21.9     -1.4814 ug/L       2.25843     -1.4814 ppb        2.25843 152.46%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Sequence No.: 2
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/16/2010 15:21:46
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4021.8	4021.8	94.6	%			15:23:58
1	Y RADIAL	4359.5	4359.5	99.03	%			15:23:38
1	Al 396.153Radial†	4868.8	5305.2	5283.4	ug/L	5283.4	ppb	15:23:38
1	Ca 317.933Radial†	2611.7	2742.1	5115.1	ug/L	5115.1	ppb	15:23:58
1	Fe 238.204 Radial†	481.6	499.0	5318.0	ug/L	5318.0	ppb	15:23:58
1	K 766.490 Radial†	28347.3	26790.4	5401.0	ug/L	5401.0	ppb	15:23:38
1	Mg 279.077 IEC†	131.2	136.0	5251.3	ug/L	5251.3	ppb	15:23:58
1	Na 589.592 Radial†	33372.6	35066.4	11697	ug/L	11697	ppb	15:23:38
1	Sr 421.552†	66250.0	69933.7	539.94	ug/L	539.94	ppb	15:23:38
1	Sc 361.383	818520.9	818520.9	96.296	%			15:24:55
1	Y 371.029	661186.4	661186.4	94.088	%			15:24:55
1	Ag 328.068†	100535.2	104175.0	503.49	ug/L	503.49	ppb	15:25:00
1	As 188.979†	1093.7	1164.1	494.21	ug/L	494.21	ppb	15:25:20
1	B 249.677†	20988.7	22278.0	521.84	ug/L	521.84	ppb	15:25:00
1	Ba 233.527†	58799.6	61042.8	496.89	ug/L	496.89	ppb	15:25:00
1	Be 313.107†	1297864.2	1352131.1	497.78	ug/L	497.78	ppb	15:24:55
1	Cd 226.502†	39821.0	41548.4	485.74	ug/L	485.74	ppb	15:25:00
1	Co 228.616†	22874.8	23833.6	497.06	ug/L	497.06	ppb	15:25:00
1	Cr 267.716†	40450.7	41857.1	487.57	ug/L	487.57	ppb	15:25:00
1	Cu 324.752†	166993.2	165323.2	506.17	ug/L	506.17	ppb	15:25:00
1	Mn 257.610†	418653.2	434188.7	501.10	ug/L	501.10	ppb	15:24:55
1	Mo 202.031†	6384.1	6619.2	492.32	ug/L	492.32	ppb	15:25:20
1	Ni 231.604†	18463.1	19059.8	487.90	ug/L	487.90	ppb	15:25:00
1	P 214.914†	4428.3	4356.7	2318.4	ug/L	2318.4	ppb	15:25:20
1	Pb 220.353†	3720.9	3937.5	489.43	ug/L	489.43	ppb	15:25:20
1	S 181.975 Axial†	826.7	815.6	1065.0	ug/L	1065.0	ppb	15:25:20
1	Sb 206.836†	1454.2	1474.5	516.54	ug/L	516.54	ppb	15:25:20
1	Se 196.026†	791.0	844.8	511.60	ug/L	511.60	ppb	15:25:20
1	Si 251.611†	77390.5	79755.4	2479.3	ug/L	2479.3	ppb	15:25:00
1	Sn 189.927†	2605.0	2692.6	483.67	ug/L	483.67	ppb	15:25:20
1	Ti 334.940†	295793.9	308665.7	501.54	ug/L	501.54	ppb	15:25:00
1	Tl 190.801†	1498.5	1595.2	506.94	ug/L	506.94	ppb	15:25:20
1	U 409.014†	13593.6	17631.7	499.17	ug/L	499.17	ppb	15:25:00
1	V 292.402†	63658.0	67784.2	497.47	ug/L	497.47	ppb	15:25:00
1	Zn 213.857†	49816.8	51045.5	493.61	ug/L	493.61	ppb	15:25:00
1	SiO2†	79128.3	81552.8	5424.0	ug/L	5424.0	ppb	15:26:28
2	Sc Radial	4063.3	4063.3	95.6	%			15:24:23
2	Y RADIAL	4244.7	4244.7	96.42	%			15:24:03
2	Al 396.153Radial†	4756.1	5134.7	5113.0	ug/L	5113.0	ppb	15:24:03
2	Ca 317.933Radial†	2639.6	2743.2	5117.1	ug/L	5117.1	ppb	15:24:23
2	Fe 238.204 Radial†	484.7	497.0	5296.8	ug/L	5296.8	ppb	15:24:23
2	K 766.490 Radial†	27804.6	25917.0	5224.9	ug/L	5224.9	ppb	15:24:03
2	Mg 279.077 IEC†	129.8	133.1	5140.7	ug/L	5140.7	ppb	15:24:23
2	Na 589.592 Radial†	32404.4	33693.7	11239	ug/L	11239	ppb	15:24:03
2	Sr 421.552†	64552.6	67443.7	520.71	ug/L	520.71	ppb	15:24:03
2	Sc 361.383	831048.8	831048.8	97.769	%			15:25:26
2	Y 371.029	671777.8	671777.8	95.596	%			15:25:26
2	Ag 328.068†	102001.6	104101.0	503.13	ug/L	503.13	ppb	15:25:31
2	As 188.979†	1105.3	1158.8	491.98	ug/L	491.98	ppb	15:25:51
2	B 249.677†	21465.8	22437.4	525.59	ug/L	525.59	ppb	15:25:31
2	Ba 233.527†	59683.8	61026.6	496.76	ug/L	496.76	ppb	15:25:31
2	Be 313.107†	1322512.8	1357024.3	499.58	ug/L	499.58	ppb	15:25:26
2	Cd 226.502†	40464.3	41583.0	486.15	ug/L	486.15	ppb	15:25:31
2	Co 228.616†	23222.5	23831.1	497.01	ug/L	497.01	ppb	15:25:31
2	Cr 267.716†	40967.8	41752.7	486.35	ug/L	486.35	ppb	15:25:31
2	Cu 324.752†	169146.8	164911.7	504.92	ug/L	504.92	ppb	15:25:31
2	Mn 257.610†	425679.5	434821.4	501.83	ug/L	501.83	ppb	15:25:26
2	Mo 202.031†	6458.4	6595.3	490.54	ug/L	490.54	ppb	15:25:51
2	Ni 231.604†	18763.3	19077.9	488.36	ug/L	488.36	ppb	15:25:31

2	P 214.914†	4462.5	4322.4	2299.6 ug/L	2299.6 ppb	15:25:51
2	Pb 220.353†	3741.6	3900.5	484.80 ug/L	484.80 ppb	15:25:51
2	S 181.975 Axial†	808.1	783.7	1023.2 ug/L	1023.2 ppb	15:25:51
2	Sb 206.836†	1459.3	1456.9	510.52 ug/L	510.52 ppb	15:25:51
2	Se 196.026†	803.0	844.7	511.45 ug/L	511.45 ppb	15:25:51
2	Si 251.611†	78588.1	79768.7	2479.8 ug/L	2479.8 ppb	15:25:31
2	Sn 189.927†	2631.6	2679.0	481.24 ug/L	481.24 ppb	15:25:51
2	Ti 334.940†	299650.7	307979.9	500.44 ug/L	500.44 ppb	15:25:31
2	Tl 190.801†	1496.4	1569.6	498.85 ug/L	498.85 ppb	15:25:51
2	U 409.014†	13706.8	17534.7	496.42 ug/L	496.42 ppb	15:25:31
2	V 292.402†	64492.4	67641.0	496.41 ug/L	496.41 ppb	15:25:31
2	Zn 213.857†	50628.1	51095.4	494.10 ug/L	494.10 ppb	15:25:31
2	SiO2†	77270.0	78413.3	5214.7 ug/L	5214.7 ppb	15:26:33
3	Sc Radial	4033.3	4033.3	94.9 %		15:24:48
3	Y RADIAL	4307.5	4307.5	97.85 %		15:24:28
3	Al 396.153Radial†	4812.6	5231.4	5209.6 ug/L	5209.6 ppb	15:24:28
3	Ca 317.933Radial†	2603.5	2725.7	5084.4 ug/L	5084.4 ppb	15:24:48
3	Fe 238.204 Radial†	481.8	497.7	5304.5 ug/L	5304.5 ppb	15:24:48
3	K 766.490 Radial†	28051.9	26393.9	5321.1 ug/L	5321.1 ppb	15:24:28
3	Mg 279.077 IEC†	127.9	132.1	5100.8 ug/L	5100.8 ppb	15:24:48
3	Na 589.592 Radial†	32789.3	34351.5	11458 ug/L	11458 ppb	15:24:28
3	Sr 421.552†	65723.1	69179.5	534.12 ug/L	534.12 ppb	15:24:28
3	Sc 361.383	828655.1	828655.1	97.488 %		15:25:57
3	Y 371.029	668899.6	668899.6	95.186 %		15:25:57
3	Ag 328.068†	100844.8	103215.8	498.86 ug/L	498.86 ppb	15:26:02
3	As 188.979†	1109.2	1166.1	494.99 ug/L	494.99 ppb	15:26:22
3	B 249.677†	21258.5	22288.3	522.09 ug/L	522.09 ppb	15:26:02
3	Ba 233.527†	59022.4	60524.5	492.67 ug/L	492.67 ppb	15:26:02
3	Be 313.107†	1318848.3	1357172.9	499.62 ug/L	499.62 ppb	15:25:57
3	Cd 226.502†	40007.5	41234.0	482.06 ug/L	482.06 ppb	15:26:02
3	Co 228.616†	22954.6	23625.0	492.72 ug/L	492.72 ppb	15:26:02
3	Cr 267.716†	40488.3	41381.9	482.03 ug/L	482.03 ppb	15:26:02
3	Cu 324.752†	166762.7	162965.9	498.96 ug/L	498.96 ppb	15:26:02
3	Mn 257.610†	425584.2	435981.3	503.17 ug/L	503.17 ppb	15:25:57
3	Mo 202.031†	6437.8	6593.2	490.39 ug/L	490.39 ppb	15:26:22
3	Ni 231.604†	18620.6	18986.9	486.04 ug/L	486.04 ppb	15:26:02
3	P 214.914†	4452.8	4325.5	2302.5 ug/L	2302.5 ppb	15:26:22
3	Pb 220.353†	3761.6	3932.0	488.73 ug/L	488.73 ppb	15:26:22
3	S 181.975 Axial†	821.8	800.0	1044.6 ug/L	1044.6 ppb	15:26:22
3	Sb 206.836†	1462.7	1464.7	513.18 ug/L	513.18 ppb	15:26:22
3	Se 196.026†	785.2	828.7	502.18 ug/L	502.18 ppb	15:26:22
3	Si 251.611†	77604.2	78991.7	2455.5 ug/L	2455.5 ppb	15:26:02
3	Sn 189.927†	2627.5	2682.6	481.87 ug/L	481.87 ppb	15:26:22
3	Ti 334.940†	295523.0	304631.3	495.00 ug/L	495.00 ppb	15:26:02
3	Tl 190.801†	1496.6	1574.2	500.29 ug/L	500.29 ppb	15:26:22
3	U 409.014†	13607.1	17473.0	494.68 ug/L	494.68 ppb	15:26:02
3	V 292.402†	63704.0	67022.9	491.93 ug/L	491.93 ppb	15:26:02
3	Zn 213.857†	49920.6	50519.3	488.49 ug/L	488.49 ppb	15:26:02
3	SiO2†	77691.1	79073.6	5258.7 ug/L	5258.7 ppb	15:26:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	826075.0	97.184	%	0.7824				0.81%
Sc Radial	4039.5	95.0	%	0.50				0.53%
Y 371.029	667287.9	94.957	%	0.7793				0.82%
Y RADIAL	4303.9	97.77	%	1.306				1.34%
Ag 328.068†	103830.6	501.83	ug/L	2.573	501.83	ppb	2.573	0.51%
QC value within limits for Ag 328.068 Recovery = 100.37%								
Al 396.153Radial†	5223.7	5202.0	ug/L	85.47	5202.0	ppb	85.47	1.64%
QC value within limits for Al 396.153Radial Recovery = 104.04%								
As 188.979†	1163.0	493.73	ug/L	1.564	493.73	ppb	1.564	0.32%
QC value within limits for As 188.979 Recovery = 98.75%								
B 249.677†	22334.6	523.17	ug/L	2.097	523.17	ppb	2.097	0.40%
QC value within limits for B 249.677 Recovery = 104.63%								
Ba 233.527†	60864.7	495.44	ug/L	2.399	495.44	ppb	2.399	0.48%
QC value within limits for Ba 233.527 Recovery = 99.09%								
Be 313.107†	1355442.8	498.99	ug/L	1.049	498.99	ppb	1.049	0.21%
QC value within limits for Be 313.107 Recovery = 99.80%								
Ca 317.933Radial†	2737.0	5105.5	ug/L	18.31	5105.5	ppb	18.31	0.36%

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   QC value within limits for Ca 317.933Radial  Recovery = 102.11%
Cd 226.502†            41455.1      484.65 ug/L        2.250      484.65 ppb         2.250   0.46%
   QC value within limits for Cd 226.502  Recovery = 96.93%
Co 228.616†            23763.2      495.60 ug/L        2.491      495.60 ppb         2.491   0.50%
   QC value within limits for Co 228.616  Recovery = 99.12%
Cr 267.716†            41663.9      485.32 ug/L        2.909      485.32 ppb         2.909   0.60%
   QC value within limits for Cr 267.716  Recovery = 97.06%
Cu 324.752†           164400.2      503.35 ug/L        3.854      503.35 ppb         3.854   0.77%
   QC value within limits for Cu 324.752  Recovery = 100.67%
Fe 238.204 Radial†       497.9      5306.4 ug/L       10.72      5306.4 ppb         10.72   0.20%
   QC value within limits for Fe 238.204 Radial  Recovery = 106.13%
K 766.490 Radial†      26367.1      5315.7 ug/L       88.18      5315.7 ppb         88.18   1.66%
   QC value within limits for K 766.490 Radial  Recovery = 106.31%
Mg 279.077 IEC†          133.7      5164.2 ug/L       77.97      5164.2 ppb         77.97   1.51%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.28%
Mn 257.610†           434997.2      502.03 ug/L        1.051      502.03 ppb         1.051   0.21%
   QC value within limits for Mn 257.610  Recovery = 100.41%
Mo 202.031†             6602.6      491.08 ug/L        1.075      491.08 ppb         1.075   0.22%
   QC value within limits for Mo 202.031  Recovery = 98.22%
Na 589.592 Radial†     34370.5       11465 ug/L      229.0        11465 ppb         229.0   2.00%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 114.65%
Ni 231.604†            19041.5      487.43 ug/L        1.232      487.43 ppb         1.232   0.25%
   QC value within limits for Ni 231.604  Recovery = 97.49%
P 214.914†              4334.9      2306.8 ug/L       10.15      2306.8 ppb         10.15   0.44%
   QC value within limits for P 214.914  Recovery = 92.27%
Pb 220.353†             3923.4      487.65 ug/L        2.497      487.65 ppb         2.497   0.51%
   QC value within limits for Pb 220.353  Recovery = 97.53%
S 181.975 Axial†         799.8      1044.3 ug/L       20.88      1044.3 ppb         20.88   2.00%
   QC value within limits for S 181.975 Axial  Recovery = 104.43%
Sb 206.836†             1465.3      513.41 ug/L        3.019      513.41 ppb         3.019   0.59%
   QC value within limits for Sb 206.836  Recovery = 102.68%
Se 196.026†              839.4      508.41 ug/L        5.393      508.41 ppb         5.393   1.06%
   QC value within limits for Se 196.026  Recovery = 101.68%
Si 251.611†            79505.3      2471.5 ug/L       13.85      2471.5 ppb         13.85   0.56%
   QC value within limits for Si 251.611  Recovery = 98.86%
Sn 189.927†             2684.7      482.26 ug/L        1.261      482.26 ppb         1.261   0.26%
   QC value within limits for Sn 189.927  Recovery = 96.45%
Sr 421.552†            68852.3      531.59 ug/L        9.859      531.59 ppb         9.859   1.85%
   QC value within limits for Sr 421.552  Recovery = 106.32%
Ti 334.940†           307092.3      498.99 ug/L        3.504      498.99 ppb         3.504   0.70%
   QC value within limits for Ti 334.940  Recovery = 99.80%
Tl 190.801†             1579.7      502.03 ug/L        4.313      502.03 ppb         4.313   0.86%
   QC value within limits for Tl 190.801  Recovery = 100.41%
U 409.014†             17546.5      496.76 ug/L        2.267      496.76 ppb         2.267   0.46%
   QC value within limits for U 409.014  Recovery = 99.35%
V 292.402†             67482.7      495.27 ug/L        2.941      495.27 ppb         2.941   0.59%
   QC value within limits for V 292.402  Recovery = 99.05%
Zn 213.857†            50886.7      492.07 ug/L        3.102      492.07 ppb         3.102   0.63%
   QC value within limits for Zn 213.857  Recovery = 98.41%
SiO2†                  79679.9      5299.1 ug/L      110.33      5299.1 ppb        110.33   2.08%
   QC value within limits for SiO2  Recovery = 99.10%
QC Failed.  Continue with analysis.
```

Sequence No.: 3
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/16/2010 15:28:50
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	4164.1	4164.1	98.0	%			15:30:42
1	Y RADIAL	4321.3	4321.3	98.16	%			15:30:42
1	Al 396.153Radial†	-129.0	27.3	27.293	ug/L	27.293	ppb	15:31:02
1	Ca 317.933Radial†	29.5	11.8	21.995	ug/L	21.995	ppb	15:31:02
1	Fe 238.204 Radial†	10.7	0.9	9.5740	ug/L	9.5740	ppb	15:31:02
1	K 766.490 Radial†	4006.8	918.7	185.12	ug/L	185.12	ppb	15:30:42
1	Mg 279.077 IEC†	4.0	1.4	52.535	ug/L	52.535	ppb	15:31:02
1	Na 589.592 Radial†	2644.0	2492.0	831.23	ug/L	831.23	ppb	15:30:42
1	Sr 421.552†	156.7	70.2	0.5415	ug/L	0.5415	ppb	15:30:42
1	Sc 361.383	815455.4	815455.4	95.935	%			15:31:59
1	Y 371.029	668129.0	668129.0	95.076	%			15:31:59
1	Ag 328.068†	131.4	-90.7	-0.4343	ug/L	-0.4343	ppb	15:31:59
1	As 188.979†	-31.7	-4.7	-1.9781	ug/L	-1.9781	ppb	15:32:19
1	B 249.677†	569.4	1075.4	25.299	ug/L	25.299	ppb	15:31:59
1	Ba 233.527†	11.6	-6.8	-0.0532	ug/L	-0.0532	ppb	15:32:19
1	Be 313.107†	-4306.2	-149.6	-0.0549	ug/L	-0.0549	ppb	15:31:59
1	Cd 226.502†	-179.8	8.1	0.0950	ug/L	0.0950	ppb	15:32:19
1	Co 228.616†	-75.6	0.0	0.0016	ug/L	0.0016	ppb	15:32:19
1	Cr 267.716†	127.2	-17.2	-0.2006	ug/L	-0.2006	ppb	15:32:19
1	Cu 324.752†	8052.9	300.0	0.9159	ug/L	0.9159	ppb	15:31:59
1	Mn 257.610†	514.4	-33.6	-0.0399	ug/L	-0.0399	ppb	15:32:19
1	Mo 202.031†	17.8	8.1	0.5995	ug/L	0.5995	ppb	15:32:19
1	Ni 231.604†	111.4	2.6	0.0659	ug/L	0.0659	ppb	15:32:19
1	P 214.914†	240.9	9.1	4.8755	ug/L	4.8755	ppb	15:32:19
1	Pb 220.353†	-54.8	16.4	2.0386	ug/L	2.0386	ppb	15:32:19
1	S 181.975 Axial†	89.5	50.3	65.791	ug/L	65.791	ppb	15:32:19
1	Sb 206.836†	43.3	9.4	3.2009	ug/L	3.2009	ppb	15:32:19
1	Se 196.026†	-20.0	2.5	1.4963	ug/L	1.4963	ppb	15:32:19
1	Si 251.611†	597.7	10.7	0.3264	ug/L	0.3264	ppb	15:32:19
1	Sn 189.927†	12.7	0.6	0.1069	ug/L	0.1069	ppb	15:32:19
1	Ti 334.940†	-1412.2	20.8	0.0301	ug/L	0.0301	ppb	15:31:59
1	Tl 190.801†	-32.1	5.7	1.7949	ug/L	1.7949	ppb	15:32:19
1	U 409.014†	-3185.2	195.0	5.5399	ug/L	5.5399	ppb	15:31:59
1	V 292.402†	-1521.4	91.4	0.6810	ug/L	0.6810	ppb	15:31:59
1	Zn 213.857†	715.8	58.4	0.5670	ug/L	0.5670	ppb	15:32:19
1	SiO2†	539.7	-56.9	-3.8110	ug/L	-3.8110	ppb	15:33:15
2	Sc Radial	4122.0	4122.0	97.0	%			15:31:07
2	Y RADIAL	4243.9	4243.9	96.40	%			15:31:07
2	Al 396.153Radial†	-132.7	22.1	22.138	ug/L	22.138	ppb	15:31:27
2	Ca 317.933Radial†	26.5	9.0	16.852	ug/L	16.852	ppb	15:31:27
2	Fe 238.204 Radial†	8.5	-1.3	-14.223	ug/L	-14.223	ppb	15:31:27
2	K 766.490 Radial†	3964.9	917.3	184.86	ug/L	184.86	ppb	15:31:07
2	Mg 279.077 IEC†	1.7	-0.9	-36.558	ug/L	-36.558	ppb	15:31:27
2	Na 589.592 Radial†	2471.8	2342.0	781.20	ug/L	781.20	ppb	15:31:07
2	Sr 421.552†	70.8	-16.8	-0.1302	ug/L	-0.1302	ppb	15:31:07
2	Sc 361.383	807209.5	807209.5	94.965	%			15:32:24
2	Y 371.029	661387.1	661387.1	94.117	%			15:32:24
2	Ag 328.068†	251.0	36.6	0.1646	ug/L	0.1646	ppb	15:32:24
2	As 188.979†	-35.6	-9.1	-3.8521	ug/L	-3.8521	ppb	15:32:44
2	B 249.677†	586.5	1099.5	25.868	ug/L	25.868	ppb	15:32:24
2	Ba 233.527†	13.1	-5.0	-0.0428	ug/L	-0.0428	ppb	15:32:44
2	Be 313.107†	-4134.3	-14.4	-0.0051	ug/L	-0.0051	ppb	15:32:24
2	Cd 226.502†	-175.2	11.0	0.1305	ug/L	0.1305	ppb	15:32:44
2	Co 228.616†	-55.3	20.7	0.4317	ug/L	0.4317	ppb	15:32:44
2	Cr 267.716†	109.3	-34.6	-0.4050	ug/L	-0.4050	ppb	15:32:44
2	Cu 324.752†	7959.1	287.0	0.8760	ug/L	0.8760	ppb	15:32:24
2	Mn 257.610†	556.9	16.7	0.0194	ug/L	0.0194	ppb	15:32:44
2	Mo 202.031†	12.9	3.2	0.2334	ug/L	0.2334	ppb	15:32:44
2	Ni 231.604†	110.7	3.0	0.0771	ug/L	0.0771	ppb	15:32:44

2	P 214.914†	240.7	11.5	6.2463	ug/L	6.2463 ppb	15:32:44
2	Pb 220.353†	-56.9	13.6	1.6902	ug/L	1.6902 ppb	15:32:44
2	S 181.975 Axial†	137.0	101.3	132.43	ug/L	132.43 ppb	15:32:44
2	Sb 206.836†	46.7	13.5	4.5851	ug/L	4.5851 ppb	15:32:44
2	Se 196.026†	-14.5	8.1	4.6634	ug/L	4.6634 ppb	15:32:44
2	Si 251.611†	560.9	-21.6	-0.6773	ug/L	-0.6773 ppb	15:32:44
2	Sn 189.927†	17.5	5.8	1.0365	ug/L	1.0365 ppb	15:32:44
2	Ti 334.940†	-1362.4	58.3	0.0986	ug/L	0.0986 ppb	15:32:24
2	Tl 190.801†	-37.5	-0.4	-0.1170	ug/L	-0.1170 ppb	15:32:44
2	U 409.014†	-3218.0	126.6	3.5987	ug/L	3.5987 ppb	15:32:24
2	V 292.402†	-1693.3	-105.8	-0.7548	ug/L	-0.7548 ppb	15:32:24
2	Zn 213.857†	755.7	108.0	1.0542	ug/L	1.0542 ppb	15:32:44
2	SiO2†	601.7	14.0	0.9295	ug/L	0.9295 ppb	15:33:20
3	Sc Radial	4232.6	4232.6	99.6	%		15:31:32
3	Y RADIAL	4373.1	4373.1	99.34	%		15:31:32
3	Al 396.153Radial†	-129.1	29.4	29.357	ug/L	29.357 ppb	15:31:52
3	Ca 317.933Radial†	33.0	14.9	27.716	ug/L	27.716 ppb	15:31:52
3	Fe 238.204 Radial†	9.9	-0.1	-0.9543	ug/L	-0.9543 ppb	15:31:52
3	K 766.490 Radial†	3991.4	837.1	168.67	ug/L	168.67 ppb	15:31:32
3	Mg 279.077 IEC†	4.3	1.6	62.957	ug/L	62.957 ppb	15:31:52
3	Na 589.592 Radial†	2453.7	2257.3	752.93	ug/L	752.93 ppb	15:31:32
3	Sr 421.552†	109.2	19.8	0.1527	ug/L	0.1527 ppb	15:31:32
3	Sc 361.383	820055.9	820055.9	96.476	%		15:32:50
3	Y 371.029	670839.1	670839.1	95.462	%		15:32:50
3	Ag 328.068†	223.8	4.3	0.0147	ug/L	0.0147 ppb	15:32:50
3	As 188.979†	-29.0	-1.7	-0.7153	ug/L	-0.7153 ppb	15:33:10
3	B 249.677†	547.8	1049.7	24.695	ug/L	24.695 ppb	15:32:50
3	Ba 233.527†	6.6	-12.0	-0.0964	ug/L	-0.0964 ppb	15:33:10
3	Be 313.107†	-4441.3	-264.4	-0.0965	ug/L	-0.0965 ppb	15:32:50
3	Cd 226.502†	-197.9	-9.7	-0.1113	ug/L	-0.1113 ppb	15:33:10
3	Co 228.616†	-62.5	14.1	0.2954	ug/L	0.2954 ppb	15:33:10
3	Cr 267.716†	98.3	-47.8	-0.5594	ug/L	-0.5594 ppb	15:33:10
3	Cu 324.752†	8060.1	260.4	0.7928	ug/L	0.7928 ppb	15:32:50
3	Mn 257.610†	550.8	1.1	-0.0014	ug/L	-0.0014 ppb	15:33:10
3	Mo 202.031†	16.4	6.5	0.4839	ug/L	0.4839 ppb	15:33:10
3	Ni 231.604†	107.3	-2.3	-0.0598	ug/L	-0.0598 ppb	15:33:10
3	P 214.914†	234.2	0.8	0.2672	ug/L	0.2672 ppb	15:33:10
3	Pb 220.353†	-65.2	6.0	0.7450	ug/L	0.7450 ppb	15:33:10
3	S 181.975 Axial†	93.4	53.9	70.471	ug/L	70.471 ppb	15:33:10
3	Sb 206.836†	39.3	5.1	1.7180	ug/L	1.7180 ppb	15:33:10
3	Se 196.026†	-24.3	-1.9	-1.0934	ug/L	-1.0934 ppb	15:33:10
3	Si 251.611†	576.7	-14.6	-0.4601	ug/L	-0.4601 ppb	15:33:10
3	Sn 189.927†	11.1	-1.1	-0.1873	ug/L	-0.1873 ppb	15:33:10
3	Ti 334.940†	-1284.7	161.2	0.2573	ug/L	0.2573 ppb	15:32:50
3	Tl 190.801†	-33.3	4.6	1.4416	ug/L	1.4416 ppb	15:33:10
3	U 409.014†	-3120.2	281.0	7.9827	ug/L	7.9827 ppb	15:32:50
3	V 292.402†	-1574.5	45.3	0.3516	ug/L	0.3516 ppb	15:32:50
3	Zn 213.857†	714.1	52.4	0.5107	ug/L	0.5107 ppb	15:33:10
3	SiO2†	563.1	-35.9	-2.4065	ug/L	-2.4065 ppb	15:33:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	814240.3	95.792	%	0.7657				0.80%
Sc Radial	4172.9	98.2	%	1.31				1.34%
Y 371.029	666785.1	94.885	%	0.6926				0.73%
Y RADIAL	4312.8	97.97	%	1.478				1.51%
Ag 328.068†	-16.6	-0.0850	ug/L	0.31166	-0.0850	ppb	0.31166	366.67%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	26.3	26.262	ug/L	3.7181	26.262	ppb	3.7181	14.16%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-5.2	-2.1819	ug/L	1.57830	-2.1819	ppb	1.57830	72.34%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	1074.9	25.288	ug/L	0.5867	25.288	ppb	0.5867	2.32%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-7.9	-0.0641	ug/L	0.02846	-0.0641	ppb	0.02846	44.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-142.8	-0.0521	ug/L	0.04578	-0.0521	ppb	0.04578	87.79%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	11.9	22.188	ug/L	5.4344	22.188	ppb	5.4344	24.49%

```
   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                 3.1      0.0381 ug/L       0.13054      0.0381 ppb        0.13054 342.90%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                11.6      0.2429 ug/L       0.21981      0.2429 ppb        0.21981  90.49%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -33.2     -0.3883 ug/L       0.17997     -0.3883 ppb        0.17997  46.34%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               282.5      0.8616 ug/L       0.06281      0.8616 ppb        0.06281   7.29%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -0.2     -1.8676 ug/L      11.92453     -1.8676 ppb       11.92453 638.48%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         891.0      179.55 ug/L         9.425      179.55 ppb          9.425   5.25%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.7      26.311 ug/L       54.6955      26.311 ppb        54.6955 207.88%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                -5.2     -0.0073 ug/L       0.03008     -0.0073 ppb        0.03008 411.44%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 5.9      0.4389 ug/L       0.18717      0.4389 ppb        0.18717  42.64%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       2363.8      788.45 ug/L        39.653      788.45 ppb         39.653   5.03%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 1.1      0.0277 ug/L       0.07600      0.0277 ppb        0.07600 274.19%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  7.1      3.7963 ug/L       3.13220      3.7963 ppb        3.13220  82.51%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                12.0      1.4913 ug/L       0.66935      1.4913 ppb        0.66935  44.88%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           68.5      89.565 ug/L       37.1984      89.565 ppb        37.1984  41.53%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 9.3      3.1680 ug/L       1.43382      3.1680 ppb        1.43382  45.26%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 2.9      1.6887 ug/L       2.88322      1.6887 ppb        2.88322 170.73%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                -8.5     -0.2703 ug/L       0.52803     -0.2703 ppb        0.52803 195.34%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 1.8      0.3187 ug/L       0.63876      0.3187 ppb        0.63876 200.42%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                24.4      0.1880 ug/L       0.33722      0.1880 ppb        0.33722 179.35%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                80.1      0.1287 ug/L       0.11654      0.1287 ppb        0.11654  90.57%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 3.3      1.0398 ug/L       1.01731      1.0398 ppb        1.01731  97.84%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                200.9      5.7071 ug/L       2.19675      5.7071 ppb        2.19675  38.49%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                 10.3      0.0926 ug/L       0.75210      0.0926 ppb        0.75210 812.29%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                72.9      0.7106 ug/L       0.29889      0.7106 ppb        0.29889  42.06%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     -26.3     -1.7627 ug/L       2.43497     -1.7627 ppb        2.43497 138.14%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

==========

Analysis Begun

Start Time: 2/16/2010 15:39:35 **Plasma On Time: 2/15/2010 05:50:42**
Logged In Analyst: Optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\021610.sif
Batch ID:
Results Data Set: 021610
Results Library: C:\pe\Optima3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 2/16/2010 15:39:36**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4259.9	4259.9	100	%			15:41:28
1	Y RADIAL	4343.3	4343.3	98.66	%			15:41:28
1	Al 396.153Radial†	4756.7	4905.8	4884.5	ug/L	4884.5	ppb	15:41:28
1	Ca 317.933Radial†	2607.8	2584.0	4820.1	ug/L	4820.1	ppb	15:41:48
1	Fe 238.204 Radial†	479.4	468.3	4991.7	ug/L	4991.7	ppb	15:41:48
1	K 766.490 Radial†	28010.6	24780.1	4995.6	ug/L	4995.6	ppb	15:41:28
1	Mg 279.077 IEC†	128.2	125.2	4834.6	ug/L	4834.6	ppb	15:41:48
1	Na 589.592 Radial†	33517.2	33239.7	11087	ug/L	11087	ppb	15:41:28
1	Sr 421.552†	66107.1	65878.2	508.63	ug/L	508.63	ppb	15:41:28
1	Sc 361.383	831107.2	831107.2	97.776	%			15:42:45
1	Y 371.029	672004.2	672004.2	95.628	%			15:42:45
1	Ag 328.068†	99548.6	101584.9	490.91	ug/L	490.91	ppb	15:42:51
1	As 188.979†	1079.4	1132.2	480.65	ug/L	480.65	ppb	15:43:11
1	B 249.677†	20839.6	21795.5	510.57	ug/L	510.57	ppb	15:42:51
1	Ba 233.527†	58431.5	59741.6	486.29	ug/L	486.29	ppb	15:42:51
1	Be 313.107†	1299727.6	1333626.0	490.96	ug/L	490.96	ppb	15:42:45
1	Cd 226.502†	39622.6	40719.2	476.07	ug/L	476.07	ppb	15:42:51
1	Co 228.616†	22656.4	23250.6	484.90	ug/L	484.90	ppb	15:42:51
1	Cr 267.716†	39927.1	40685.5	473.92	ug/L	473.92	ppb	15:42:51
1	Cu 324.752†	165158.8	160820.8	492.38	ug/L	492.38	ppb	15:42:51
1	Mn 257.610†	418776.2	427730.5	493.63	ug/L	493.63	ppb	15:42:45
1	Mo 202.031†	6308.8	6441.8	479.11	ug/L	479.11	ppb	15:43:11
1	Ni 231.604†	18314.6	18617.6	476.58	ug/L	476.58	ppb	15:42:51
1	P 214.914†	4390.5	4248.4	2261.1	ug/L	2261.1	ppb	15:43:11
1	Pb 220.353†	3676.1	3833.2	476.42	ug/L	476.42	ppb	15:43:11
1	S 181.975 Axial†	798.3	773.6	1010.1	ug/L	1010.1	ppb	15:43:11
1	Sb 206.836†	1439.1	1436.2	503.17	ug/L	503.17	ppb	15:43:11
1	Se 196.026†	779.1	820.2	496.12	ug/L	496.12	ppb	15:43:11
1	Si 251.611†	77027.3	78166.8	2430.0	ug/L	2430.0	ppb	15:42:51
1	Sn 189.927†	2587.5	2633.8	473.08	ug/L	473.08	ppb	15:43:11
1	Ti 334.940†	292656.4	300805.1	488.77	ug/L	488.77	ppb	15:42:51
1	Tl 190.801†	1474.4	1547.0	491.65	ug/L	491.65	ppb	15:43:11
1	U 409.014†	13465.6	17287.0	489.45	ug/L	489.45	ppb	15:42:51
1	V 292.402†	62942.6	66051.3	484.78	ug/L	484.78	ppb	15:42:51
1	Zn 213.857†	49524.1	49962.6	483.18	ug/L	483.18	ppb	15:42:51
1	SiO2†	77288.1	78426.3	5215.9	ug/L	5215.9	ppb	15:44:18
2	Sc Radial	4177.7	4177.7	98.3	%			15:41:53
2	Y RADIAL	4307.6	4307.6	97.85	%			15:41:53
2	Al 396.153Radial†	4722.2	4964.0	4942.6	ug/L	4942.6	ppb	15:41:53
2	Ca 317.933Radial†	2601.0	2628.2	4902.7	ug/L	4902.7	ppb	15:42:13
2	Fe 238.204 Radial†	484.2	482.6	5143.3	ug/L	5143.3	ppb	15:42:13
2	K 766.490 Radial†	27824.0	25140.2	5068.2	ug/L	5068.2	ppb	15:41:53
2	Mg 279.077 IEC†	128.3	127.8	4935.8	ug/L	4935.8	ppb	15:42:13
2	Na 589.592 Radial†	33063.0	33435.6	11153	ug/L	11153	ppb	15:41:53
2	Sr 421.552†	65494.9	66553.4	513.84	ug/L	513.84	ppb	15:41:53
2	Sc 361.383	825773.8	825773.8	97.149	%			15:43:16
2	Y 371.029	667205.7	667205.7	94.945	%			15:43:16

2	Ag 328.068†	99725.0	102424.0	494.99 ug/L	494.99 ppb	15:43:22
2	As 188.979†	1063.1	1122.6	476.64 ug/L	476.64 ppb	15:43:42
2	B 249.677†	20835.1	21928.5	513.67 ug/L	513.67 ppb	15:43:22
2	Ba 233.527†	58399.0	60094.1	489.16 ug/L	489.16 ppb	15:43:22
2	Be 313.107†	1287464.4	1329588.2	489.48 ug/L	489.48 ppb	15:43:16
2	Cd 226.502†	39480.4	40834.5	477.40 ug/L	477.40 ppb	15:43:22
2	Co 228.616†	22615.4	23357.9	487.14 ug/L	487.14 ppb	15:43:22
2	Cr 267.716†	39954.2	40977.1	477.31 ug/L	477.31 ppb	15:43:22
2	Cu 324.752†	165427.2	162188.1	496.57 ug/L	496.57 ppb	15:43:22
2	Mn 257.610†	415240.5	426857.3	492.64 ug/L	492.64 ppb	15:43:16
2	Mo 202.031†	6320.6	6495.6	483.12 ug/L	483.12 ppb	15:43:42
2	Ni 231.604†	18387.7	18813.8	481.61 ug/L	481.61 ppb	15:43:22
2	P 214.914†	4380.9	4267.5	2270.8 ug/L	2270.8 ppb	15:43:42
2	Pb 220.353†	3668.2	3849.4	478.43 ug/L	478.43 ppb	15:43:42
2	S 181.975 Axial†	798.0	778.5	1016.6 ug/L	1016.6 ppb	15:43:42
2	Sb 206.836†	1433.1	1439.5	504.38 ug/L	504.38 ppb	15:43:42
2	Se 196.026†	794.9	841.6	509.11 ug/L	509.11 ppb	15:43:42
2	Si 251.611†	77051.2	78700.2	2446.6 ug/L	2446.6 ppb	15:43:22
2	Sn 189.927†	2582.3	2645.4	475.18 ug/L	475.18 ppb	15:43:42
2	Ti 334.940†	292821.1	302907.8	492.19 ug/L	492.19 ppb	15:43:22
2	Tl 190.801†	1474.8	1557.2	494.88 ug/L	494.88 ppb	15:43:42
2	U 409.014†	13559.2	17472.3	494.69 ug/L	494.69 ppb	15:43:22
2	V 292.402†	62738.6	66257.2	486.31 ug/L	486.31 ppb	15:43:22
2	Zn 213.857†	49493.0	50257.8	486.00 ug/L	486.00 ppb	15:43:22
2	SiO2†	77182.6	78828.2	5242.6 ug/L	5242.6 ppb	15:44:23
3	Sc Radial	4225.0	4225.0	99.4 %		15:42:18
3	Y RADIAL	4350.5	4350.5	98.82 %		15:42:18
3	Al 396.153Radial†	4718.7	4906.6	4885.0 ug/L	4885.0 ppb	15:42:18
3	Ca 317.933Radial†	2598.2	2595.8	4842.2 ug/L	4842.2 ppb	15:42:38
3	Fe 238.204 Radial†	477.5	470.4	5013.8 ug/L	5013.8 ppb	15:42:38
3	K 766.490 Radial†	27778.7	24777.5	4995.1 ug/L	4995.1 ppb	15:42:18
3	Mg 279.077 IEC†	128.2	126.3	4878.0 ug/L	4878.0 ppb	15:42:38
3	Na 589.592 Radial†	32939.3	32934.4	10986 ug/L	10986 ppb	15:42:18
3	Sr 421.552†	65787.7	66101.6	510.35 ug/L	510.35 ppb	15:42:18
3	Sc 361.383	823496.6	823496.6	96.881 %		15:43:47
3	Y 371.029	665622.4	665622.4	94.720 %		15:43:47
3	Ag 328.068†	99636.2	102616.3	495.88 ug/L	495.88 ppb	15:43:53
3	As 188.979†	1079.7	1142.7	485.09 ug/L	485.09 ppb	15:44:13
3	B 249.677†	20975.5	22132.7	518.49 ug/L	518.49 ppb	15:43:53
3	Ba 233.527†	58343.9	60203.5	490.05 ug/L	490.05 ppb	15:43:53
3	Be 313.107†	1285062.9	1330774.2	489.92 ug/L	489.92 ppb	15:43:47
3	Cd 226.502†	39409.3	40873.6	477.87 ug/L	477.87 ppb	15:43:53
3	Co 228.616†	22595.0	23401.4	488.05 ug/L	488.05 ppb	15:43:53
3	Cr 267.716†	39938.7	41074.8	478.45 ug/L	478.45 ppb	15:43:53
3	Cu 324.752†	165205.7	162430.3	497.31 ug/L	497.31 ppb	15:43:53
3	Mn 257.610†	414057.1	426817.8	492.58 ug/L	492.58 ppb	15:43:47
3	Mo 202.031†	6337.0	6530.5	485.70 ug/L	485.70 ppb	15:44:13
3	Ni 231.604†	18296.5	18772.1	480.54 ug/L	480.54 ppb	15:43:53
3	P 214.914†	4391.0	4290.3	2283.4 ug/L	2283.4 ppb	15:44:13
3	Pb 220.353†	3690.3	3882.7	482.56 ug/L	482.56 ppb	15:44:13
3	S 181.975 Axial†	862.6	847.4	1106.6 ug/L	1106.6 ppb	15:44:13
3	Sb 206.836†	1426.6	1436.9	503.57 ug/L	503.57 ppb	15:44:13
3	Se 196.026†	799.5	848.6	512.81 ug/L	512.81 ppb	15:44:13
3	Si 251.611†	76819.5	78680.4	2445.9 ug/L	2445.9 ppb	15:43:53
3	Sn 189.927†	2579.9	2650.3	476.05 ug/L	476.05 ppb	15:44:13
3	Ti 334.940†	292485.1	303394.5	492.98 ug/L	492.98 ppb	15:43:53
3	Tl 190.801†	1485.2	1572.1	499.58 ug/L	499.58 ppb	15:44:13
3	U 409.014†	13313.7	17257.5	488.60 ug/L	488.60 ppb	15:43:53
3	V 292.402†	62782.6	66481.2	487.97 ug/L	487.97 ppb	15:43:53
3	Zn 213.857†	49244.7	50142.4	484.90 ug/L	484.90 ppb	15:43:53
3	SiO2†	77072.2	78934.0	5249.6 ug/L	5249.6 ppb	15:44:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	826792.6	97.269	%	0.4596				0.47%
Sc Radial	4220.8	99.3	%	0.97				0.98%
Y 371.029	668277.4	95.098	%	0.4729				0.50%
Y RADIAL	4333.8	98.45	%	0.521				0.53%
Ag 328.068†	102208.4	493.93	ug/L	2.651	493.93	ppb	2.651	0.54%

```
   QC value within limits for Ag 328.068  Recovery = 98.79%
Al 396.153Radial†       4925.5      4904.0 ug/L        33.38      4904.0 ppb        33.38   0.68%
   QC value within limits for Al 396.153Radial  Recovery = 98.08%
As 188.979†             1132.5      480.79 ug/L        4.227      480.79 ppb        4.227   0.88%
   QC value within limits for As 188.979  Recovery = 96.16%
B 249.677†             21952.2      514.24 ug/L        3.992      514.24 ppb        3.992   0.78%
   QC value within limits for B 249.677  Recovery = 102.85%
Ba 233.527†            60013.0      488.50 ug/L        1.964      488.50 ppb        1.964   0.40%
   QC value within limits for Ba 233.527  Recovery = 97.70%
Be 313.107†          1331329.5      490.12 ug/L        0.758      490.12 ppb        0.758   0.15%
   QC value within limits for Be 313.107  Recovery = 98.02%
Ca 317.933Radial†       2602.7      4855.0 ug/L        42.76      4855.0 ppb        42.76   0.88%
   QC value within limits for Ca 317.933Radial  Recovery = 97.10%
Cd 226.502†            40809.1      477.11 ug/L        0.937      477.11 ppb        0.937   0.20%
   QC value within limits for Cd 226.502  Recovery = 95.42%
Co 228.616†            23336.6      486.70 ug/L        1.621      486.70 ppb        1.621   0.33%
   QC value within limits for Co 228.616  Recovery = 97.34%
Cr 267.716†            40912.4      476.56 ug/L        2.359      476.56 ppb        2.359   0.50%
   QC value within limits for Cr 267.716  Recovery = 95.31%
Cu 324.752†           161813.1      495.42 ug/L        2.659      495.42 ppb        2.659   0.54%
   QC value within limits for Cu 324.752  Recovery = 99.08%
Fe 238.204 Radial†       473.8      5049.6 ug/L        81.90      5049.6 ppb        81.90   1.62%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.99%
K 766.490 Radial†      24899.3      5019.6 ug/L        42.08      5019.6 ppb        42.08   0.84%
   QC value within limits for K 766.490 Radial  Recovery = 100.39%
Mg 279.077 IEC†          126.4      4882.8 ug/L        50.80      4882.8 ppb        50.80   1.04%
   QC value within limits for Mg 279.077 IEC  Recovery = 97.66%
Mn 257.610†           427135.2      492.95 ug/L        0.592      492.95 ppb        0.592   0.12%
   QC value within limits for Mn 257.610  Recovery = 98.59%
Mo 202.031†            6489.3      482.64 ug/L        3.322      482.64 ppb        3.322   0.69%
   QC value within limits for Mo 202.031  Recovery = 96.53%
Na 589.592 Radial†     33203.2       11075 ug/L         84.3       11075 ppb         84.3   0.76%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 110.75%
Ni 231.604†            18734.5      479.57 ug/L        2.647      479.57 ppb        2.647   0.55%
   QC value within limits for Ni 231.604  Recovery = 95.91%
P 214.914†              4268.7      2271.8 ug/L        11.18      2271.8 ppb        11.18   0.49%
   QC value within limits for P 214.914  Recovery = 90.87%
Pb 220.353†            3855.1      479.14 ug/L        3.132      479.14 ppb        3.132   0.65%
   QC value within limits for Pb 220.353  Recovery = 95.83%
S 181.975 Axial†         799.8      1044.4 ug/L        53.95      1044.4 ppb        53.95   5.17%
   QC value within limits for S 181.975 Axial  Recovery = 104.44%
Sb 206.836†            1437.5      503.71 ug/L        0.618      503.71 ppb        0.618   0.12%
   QC value within limits for Sb 206.836  Recovery = 100.74%
Se 196.026†             836.8      506.01 ug/L        8.763      506.01 ppb        8.763   1.73%
   QC value within limits for Se 196.026  Recovery = 101.20%
Si 251.611†            78515.8      2440.8 ug/L         9.39      2440.8 ppb         9.39   0.38%
   QC value within limits for Si 251.611  Recovery = 97.63%
Sn 189.927†            2643.2      474.77 ug/L        1.529      474.77 ppb        1.529   0.32%
   QC value within limits for Sn 189.927  Recovery = 94.95%
Sr 421.552†            66177.7      510.94 ug/L        2.655      510.94 ppb        2.655   0.52%
   QC value within limits for Sr 421.552  Recovery = 102.19%
Ti 334.940†           302369.1      491.31 ug/L        2.236      491.31 ppb        2.236   0.46%
   QC value within limits for Ti 334.940  Recovery = 98.26%
Tl 190.801†            1558.8      495.37 ug/L        3.986      495.37 ppb        3.986   0.80%
   QC value within limits for Tl 190.801  Recovery = 99.07%
U 409.014†             17338.9      490.91 ug/L        3.298      490.91 ppb        3.298   0.67%
   QC value within limits for U 409.014  Recovery = 98.18%
V 292.402†             66263.2      486.35 ug/L        1.599      486.35 ppb        1.599   0.33%
   QC value within limits for V 292.402  Recovery = 97.27%
Zn 213.857†            50120.9      484.69 ug/L        1.422      484.69 ppb        1.422   0.29%
   QC value within limits for Zn 213.857  Recovery = 96.94%
SiO2†                  78729.5      5236.0 ug/L        17.77      5236.0 ppb        17.77   0.34%
   QC value within limits for SiO2  Recovery = 97.92%
QC Failed.  Continue with analysis.
```

Sequence No.: 2
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/16/2010 15:46:39
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	4241.1	4241.1	99.8	%			15:48:31
1	Y RADIAL	4368.1	4368.1	99.22	%			15:48:31
1	Al 396.153Radial†	-148.3	10.4	10.352	ug/L	10.352	ppb	15:48:31
1	Ca 317.933Radial†	32.6	14.3	26.714	ug/L	26.714	ppb	15:48:51
1	Fe 238.204 Radial†	11.4	1.3	14.240	ug/L	14.240	ppb	15:48:51
1	K 766.490 Radial†	3878.0	715.4	144.15	ug/L	144.15	ppb	15:48:31
1	Mg 279.077 IEC†	-0.3	-3.0	-116.41	ug/L	-116.41	ppb	15:48:51
1	Na 589.592 Radial†	2121.6	1919.4	640.23	ug/L	640.23	ppb	15:48:31
1	Sr 421.552†	43.9	-45.8	-0.3536	ug/L	-0.3536	ppb	15:48:31
1	Sc 361.383	818204.5	818204.5	96.258	%			15:49:48
1	Y 371.029	669456.0	669456.0	95.265	%			15:49:48
1	Ag 328.068†	314.7	99.3	0.4798	ug/L	0.4798	ppb	15:49:48
1	As 188.979†	-27.0	0.3	0.1177	ug/L	0.1177	ppb	15:50:08
1	B 249.677†	552.2	1055.6	24.832	ug/L	24.832	ppb	15:49:48
1	Ba 233.527†	-0.8	-19.7	-0.1599	ug/L	-0.1599	ppb	15:50:08
1	Be 313.107†	-4303.6	-131.8	-0.0485	ug/L	-0.0485	ppb	15:49:48
1	Cd 226.502†	-202.9	-15.3	-0.1806	ug/L	-0.1806	ppb	15:50:08
1	Co 228.616†	-81.4	-5.7	-0.1168	ug/L	-0.1168	ppb	15:50:08
1	Cr 267.716†	89.4	-56.8	-0.6613	ug/L	-0.6613	ppb	15:50:08
1	Cu 324.752†	7896.7	109.6	0.3357	ug/L	0.3357	ppb	15:49:48
1	Mn 257.610†	537.1	-11.7	-0.0074	ug/L	-0.0074	ppb	15:50:08
1	Mo 202.031†	16.7	6.9	0.5117	ug/L	0.5117	ppb	15:50:08
1	Ni 231.604†	110.5	1.3	0.0325	ug/L	0.0325	ppb	15:50:08
1	P 214.914†	245.3	12.8	7.0384	ug/L	7.0384	ppb	15:50:08
1	Pb 220.353†	-72.5	-1.8	-0.2199	ug/L	-0.2199	ppb	15:50:08
1	S 181.975 Axial†	81.8	42.1	54.963	ug/L	54.963	ppb	15:50:08
1	Sb 206.836†	29.8	-4.7	-1.5910	ug/L	-1.5910	ppb	15:50:08
1	Se 196.026†	-25.8	-3.5	-1.9780	ug/L	-1.9780	ppb	15:50:08
1	Si 251.611†	568.9	-21.3	-0.6706	ug/L	-0.6706	ppb	15:50:08
1	Sn 189.927†	7.0	-5.4	-0.9557	ug/L	-0.9557	ppb	15:50:08
1	Ti 334.940†	-1470.6	-34.8	-0.0437	ug/L	-0.0437	ppb	15:49:48
1	Tl 190.801†	-28.0	10.0	3.1653	ug/L	3.1653	ppb	15:50:08
1	U 409.014†	-3347.4	37.6	1.0689	ug/L	1.0689	ppb	15:49:48
1	V 292.402†	-1627.3	-13.2	-0.0905	ug/L	-0.0905	ppb	15:49:48
1	Zn 213.857†	727.3	67.8	0.6589	ug/L	0.6589	ppb	15:50:08
1	SiO2†	632.6	37.6	2.4958	ug/L	2.4958	ppb	15:51:04
2	Sc Radial	4201.1	4201.1	98.8	%			15:48:56
2	Y RADIAL	4334.1	4334.1	98.45	%			15:48:56
2	Al 396.153Radial†	-118.4	39.3	39.201	ug/L	39.201	ppb	15:48:56
2	Ca 317.933Radial†	30.0	12.1	22.516	ug/L	22.516	ppb	15:49:16
2	Fe 238.204 Radial†	6.8	-3.2	-34.259	ug/L	-34.259	ppb	15:49:16
2	K 766.490 Radial†	3886.1	760.5	153.27	ug/L	153.27	ppb	15:48:56
2	Mg 279.077 IEC†	0.2	-2.5	-95.994	ug/L	-95.994	ppb	15:49:16
2	Na 589.592 Radial†	2024.7	1841.6	614.29	ug/L	614.29	ppb	15:48:56
2	Sr 421.552†	93.1	4.4	0.0341	ug/L	0.0341	ppb	15:48:56
2	Sc 361.383	812430.6	812430.6	95.579	%			15:50:13
2	Y 371.029	665130.1	665130.1	94.650	%			15:50:13
2	Ag 328.068†	287.0	72.6	0.3371	ug/L	0.3371	ppb	15:50:13
2	As 188.979†	-16.8	10.7	4.4993	ug/L	4.4993	ppb	15:50:33
2	B 249.677†	508.0	1013.4	23.846	ug/L	23.846	ppb	15:50:13
2	Ba 233.527†	7.2	-11.4	-0.0930	ug/L	-0.0930	ppb	15:50:33
2	Be 313.107†	-4331.8	-193.1	-0.0707	ug/L	-0.0707	ppb	15:50:13
2	Cd 226.502†	-197.2	-10.8	-0.1229	ug/L	-0.1229	ppb	15:50:33
2	Co 228.616†	-58.9	17.2	0.3629	ug/L	0.3629	ppb	15:50:33
2	Cr 267.716†	99.7	-45.4	-0.5284	ug/L	-0.5284	ppb	15:50:33
2	Cu 324.752†	7836.8	105.2	0.3204	ug/L	0.3204	ppb	15:50:13
2	Mn 257.610†	503.4	-43.1	-0.0491	ug/L	-0.0491	ppb	15:50:33
2	Mo 202.031†	30.5	21.4	1.5881	ug/L	1.5881	ppb	15:50:33
2	Ni 231.604†	87.8	-21.7	-0.5555	ug/L	-0.5555	ppb	15:50:33

2	P 214.914†	225.7	-5.9	-3.2785 ug/L	-3.2785 ppb	15:50:33
2	Pb 220.353†	-37.7	34.1	4.2363 ug/L	4.2363 ppb	15:50:33
2	S 181.975 Axial†	77.6	38.2	49.955 ug/L	49.955 ppb	15:50:33
2	Sb 206.836†	40.8	7.0	2.3956 ug/L	2.3956 ppb	15:50:33
2	Se 196.026†	-26.8	-4.7	-2.8431 ug/L	-2.8431 ppb	15:50:33
2	Si 251.611†	583.8	-1.5	-0.0654 ug/L	-0.0654 ppb	15:50:33
2	Sn 189.927†	11.5	-0.6	-0.1037 ug/L	-0.1037 ppb	15:50:33
2	Ti 334.940†	-1380.4	48.6	0.0902 ug/L	0.0902 ppb	15:50:13
2	Tl 190.801†	-37.4	-0.0	-0.0153 ug/L	-0.0153 ppb	15:50:33
2	U 409.014†	-3366.7	-7.3	-0.2009 ug/L	-0.2009 ppb	15:50:13
2	V 292.402†	-1587.2	16.7	0.1465 ug/L	0.1465 ppb	15:50:13
2	Zn 213.857†	717.3	62.7	0.6206 ug/L	0.6206 ppb	15:50:33
2	SiO2†	563.3	-30.2	-2.0566 ug/L	-2.0566 ppb	15:51:09
3	Sc Radial	4228.8	4228.8	99.5 %		15:49:21
3	Y RADIAL	4357.9	4357.9	98.99 %		15:49:21
3	Al 396.153Radial†	-120.7	37.7	37.716 ug/L	37.716 ppb	15:49:21
3	Ca 317.933Radial†	29.2	11.0	20.574 ug/L	20.574 ppb	15:49:41
3	Fe 238.204 Radial†	9.2	-0.8	-8.2961 ug/L	-8.2961 ppb	15:49:41
3	K 766.490 Radial†	3836.1	684.6	137.95 ug/L	137.95 ppb	15:49:21
3	Mg 279.077 IEC†	2.0	-0.7	-28.707 ug/L	-28.707 ppb	15:49:41
3	Na 589.592 Radial†	2003.4	1806.8	602.69 ug/L	602.69 ppb	15:49:21
3	Sr 421.552†	29.4	-60.2	-0.4651 ug/L	-0.4651 ppb	15:49:21
3	Sc 361.383	824445.4	824445.4	96.993 %		15:50:39
3	Y 371.029	674868.4	674868.4	96.035 %		15:50:39
3	Ag 328.068†	174.8	-47.4	-0.2359 ug/L	-0.2359 ppb	15:50:39
3	As 188.979†	-32.3	-5.0	-2.1139 ug/L	-2.1139 ppb	15:50:59
3	B 249.677†	504.9	1002.5	23.586 ug/L	23.586 ppb	15:50:39
3	Ba 233.527†	10.6	-7.9	-0.0649 ug/L	-0.0649 ppb	15:50:59
3	Be 313.107†	-4398.7	-195.9	-0.0718 ug/L	-0.0718 ppb	15:50:39
3	Cd 226.502†	-208.7	-19.7	-0.2284 ug/L	-0.2284 ppb	15:50:59
3	Co 228.616†	-76.1	0.4	0.0084 ug/L	0.0084 ppb	15:50:59
3	Cr 267.716†	104.3	-42.2	-0.4933 ug/L	-0.4933 ppb	15:50:59
3	Cu 324.752†	7957.9	110.6	0.3348 ug/L	0.3348 ppb	15:50:39
3	Mn 257.610†	524.4	-29.1	-0.0332 ug/L	-0.0332 ppb	15:50:59
3	Mo 202.031†	11.2	1.1	0.0818 ug/L	0.0818 ppb	15:50:59
3	Ni 231.604†	89.6	-21.1	-0.5406 ug/L	-0.5406 ppb	15:50:59
3	P 214.914†	254.4	20.3	11.242 ug/L	11.242 ppb	15:50:59
3	Pb 220.353†	-70.3	1.0	0.1392 ug/L	0.1392 ppb	15:50:59
3	S 181.975 Axial†	71.0	30.3	39.560 ug/L	39.560 ppb	15:50:59
3	Sb 206.836†	38.4	4.0	1.3610 ug/L	1.3610 ppb	15:50:59
3	Se 196.026†	-21.7	1.0	0.5518 ug/L	0.5518 ppb	15:50:59
3	Si 251.611†	552.5	-42.6	-1.3301 ug/L	-1.3301 ppb	15:50:59
3	Sn 189.927†	20.6	8.6	1.5499 ug/L	1.5499 ppb	15:50:59
3	Ti 334.940†	-1397.0	52.6	0.0881 ug/L	0.0881 ppb	15:50:39
3	Tl 190.801†	-36.2	1.8	0.5608 ug/L	0.5608 ppb	15:50:59
3	U 409.014†	-3204.8	211.0	5.9947 ug/L	5.9947 ppb	15:50:39
3	V 292.402†	-1638.1	-11.6	-0.0704 ug/L	-0.0704 ppb	15:50:39
3	Zn 213.857†	720.8	55.4	0.5446 ug/L	0.5446 ppb	15:50:59
3	SiO2†	577.0	-24.7	-1.6475 ug/L	-1.6475 ppb	15:51:14

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	818360.2	96.277	%	0.7069				0.73%
Sc Radial	4223.7	99.4	%	0.48				0.48%
Y 371.029	669818.2	95.317	%	0.6943				0.73%
Y RADIAL	4353.4	98.89	%	0.397				0.40%
Ag 328.068†	41.5	0.1937	ug/L	0.37884	0.1937	ppb	0.37884	195.60%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	29.1	29.090	ug/L	16.2440	29.090	ppb	16.2440	55.84%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	2.0	0.8344	ug/L	3.36436	0.8344	ppb	3.36436	403.22%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	1023.8	24.088	ug/L	0.6573	24.088	ppb	0.6573	2.73%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-13.0	-0.1059	ug/L	0.04878	-0.1059	ppb	0.04878	46.05%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-173.6	-0.0637	ug/L	0.01313	-0.0637	ppb	0.01313	20.62%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	12.5	23.268	ug/L	3.1381	23.268	ppb	3.1381	13.49%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -15.3     -0.1773 ug/L       0.05285     -0.1773 ppb        0.05285  29.81%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                4.0      0.0848 ug/L       0.24877      0.0848 ppb        0.24877 293.22%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -48.1     -0.5610 ug/L       0.08861     -0.5610 ppb        0.08861  15.80%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              108.5      0.3303 ug/L       0.00859      0.3303 ppb        0.00859   2.60%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.9     -9.4386 ug/L      24.26959     -9.4386 ppb       24.26959 257.13%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        720.2      145.12 ug/L         7.710      145.12 ppb          7.710   5.31%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.1     -80.369 ug/L       45.8906     -80.369 ppb        45.8906  57.10%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              -28.0     -0.0299 ug/L       0.02108     -0.0299 ppb        0.02108  70.46%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                9.8      0.7272 ug/L       0.77592      0.7272 ppb        0.77592 106.70%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      1855.9      619.07 ug/L        19.226      619.07 ppb         19.226   3.11%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -13.8     -0.3546 ug/L       0.33528     -0.3546 ppb        0.33528  94.56%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 9.1      5.0007 ug/L       7.47168      5.0007 ppb        7.47168 149.41%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               11.1      1.3852 ug/L       2.47568      1.3852 ppb        2.47568 178.72%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          36.9      48.159 ug/L        7.8566      48.159 ppb         7.8566  16.31%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                2.1      0.7219 ug/L       2.06868      0.7219 ppb        2.06868 286.57%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -2.4     -1.4231 ug/L       1.76417     -1.4231 ppb        1.76417 123.97%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              -21.8     -0.6887 ug/L       0.63252     -0.6887 ppb        0.63252  91.84%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                0.9      0.1635 ug/L       1.27398      0.1635 ppb        1.27398 779.11%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -33.8     -0.2615 ug/L       0.26202     -0.2615 ppb        0.26202 100.18%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               22.1      0.0448 ug/L       0.07672      0.0448 ppb        0.07672 171.10%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                3.9      1.2369 ug/L       1.69468      1.2369 ppb        1.69468 137.01%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                80.4      2.2876 ug/L       3.27265      2.2876 ppb        3.27265 143.06%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                -2.7     -0.0048 ug/L       0.13144     -0.0048 ppb        0.13144 >999.9%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               62.0      0.6081 ug/L       0.05818      0.6081 ppb        0.05818   9.57%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     -5.7     -0.4027 ug/L       2.51856     -0.4027 ppb        2.51856 625.36%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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

Autosampler Location: 7
Date Collected: 2/16/2010 16:07:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4119.1	4119.1	96.9	%			16:09:15
1	Y RADIAL	4271.7	4271.7	97.03	%			16:09:15
1	Al 396.153Radial†	4686.0	4995.0	4973.3	ug/L	4973.3	ppb	16:09:15
1	Ca 317.933Radial†	2613.1	2678.4	4996.3	ug/L	4996.3	ppb	16:09:35
1	Fe 238.204 Radial†	479.7	485.0	5169.5	ug/L	5169.5	ppb	16:09:35
1	K 766.490 Radial†	27324.8	25027.6	5045.5	ug/L	5045.5	ppb	16:09:15
1	Mg 279.077 IEC†	127.5	128.9	4977.9	ug/L	4977.9	ppb	16:09:35
1	Na 589.592 Radial†	31698.4	32505.7	10843	ug/L	10843	ppb	16:09:15
1	Sr 421.552†	64050.8	66010.5	509.65	ug/L	509.65	ppb	16:09:15
1	Sc 361.383	827257.8	827257.8	97.323	%			16:10:32
1	Y 371.029	667757.4	667757.4	95.024	%			16:10:32
1	Ag 328.068†	100188.2	102715.9	496.42	ug/L	496.42	ppb	16:10:38
1	As 188.979†	1085.3	1143.4	485.44	ug/L	485.44	ppb	16:10:58
1	B 249.677†	20666.7	21717.0	508.67	ug/L	508.67	ppb	16:10:38
1	Ba 233.527†	59030.2	60634.8	493.56	ug/L	493.56	ppb	16:10:38
1	Be 313.107†	1296533.2	1336529.2	492.04	ug/L	492.04	ppb	16:10:32
1	Cd 226.502†	39917.3	41210.6	481.80	ug/L	481.80	ppb	16:10:38
1	Co 228.616†	22947.2	23657.2	493.39	ug/L	493.39	ppb	16:10:38
1	Cr 267.716†	40390.8	41351.9	481.68	ug/L	481.68	ppb	16:10:38
1	Cu 324.752†	165822.8	162289.1	496.88	ug/L	496.88	ppb	16:10:38
1	Mn 257.610†	419428.6	430393.8	496.72	ug/L	496.72	ppb	16:10:32
1	Mo 202.031†	6400.4	6566.0	488.35	ug/L	488.35	ppb	16:10:58
1	Ni 231.604†	18573.4	18970.7	485.62	ug/L	485.62	ppb	16:10:38
1	P 214.914†	4437.6	4317.7	2298.6	ug/L	2298.6	ppb	16:10:58
1	Pb 220.353†	3737.2	3913.6	486.40	ug/L	486.40	ppb	16:10:58
1	S 181.975 Axial†	800.7	779.8	1018.3	ug/L	1018.3	ppb	16:10:58
1	Sb 206.836†	1424.3	1427.8	500.64	ug/L	500.64	ppb	16:10:58
1	Se 196.026†	784.1	829.0	501.90	ug/L	501.90	ppb	16:10:58
1	Si 251.611†	77643.5	79166.5	2461.0	ug/L	2461.0	ppb	16:10:38
1	Sn 189.927†	2624.8	2684.4	482.19	ug/L	482.19	ppb	16:10:58
1	Ti 334.940†	295579.7	305201.6	495.92	ug/L	495.92	ppb	16:10:38
1	Tl 190.801†	1485.9	1565.8	497.62	ug/L	497.62	ppb	16:10:58
1	U 409.014†	13518.6	17405.5	492.78	ug/L	492.78	ppb	16:10:38
1	V 292.402†	63386.4	66806.9	490.35	ug/L	490.35	ppb	16:10:38
1	Zn 213.857†	49829.9	50512.5	488.45	ug/L	488.45	ppb	16:10:38
1	SiO2†	77818.7	79339.3	5276.5	ug/L	5276.5	ppb	16:12:05
2	Sc Radial	4154.1	4154.1	97.7	%			16:09:40
2	Y RADIAL	4247.3	4247.3	96.48	%			16:09:40
2	Al 396.153Radial†	4697.6	4966.0	4944.4	ug/L	4944.4	ppb	16:09:40
2	Ca 317.933Radial†	2631.6	2674.5	4989.0	ug/L	4989.0	ppb	16:10:00
2	Fe 238.204 Radial†	484.8	486.0	5179.8	ug/L	5179.8	ppb	16:10:00
2	K 766.490 Radial†	27449.9	24917.7	5023.4	ug/L	5023.4	ppb	16:09:40
2	Mg 279.077 IEC†	131.1	131.5	5078.0	ug/L	5078.0	ppb	16:10:00
2	Na 589.592 Radial†	31533.1	32060.5	10694	ug/L	10694	ppb	16:09:40
2	Sr 421.552†	64309.2	65717.4	507.39	ug/L	507.39	ppb	16:09:40
2	Sc 361.383	830990.2	830990.2	97.763	%			16:11:03
2	Y 371.029	670637.7	670637.7	95.433	%			16:11:03
2	Ag 328.068†	100018.5	102079.9	493.35	ug/L	493.35	ppb	16:11:09
2	As 188.979†	1086.0	1139.2	483.64	ug/L	483.64	ppb	16:11:29
2	B 249.677†	20552.9	21505.2	503.71	ug/L	503.71	ppb	16:11:09
2	Ba 233.527†	58819.8	60147.2	489.59	ug/L	489.59	ppb	16:11:09
2	Be 313.107†	1302367.4	1336513.5	492.03	ug/L	492.03	ppb	16:11:03
2	Cd 226.502†	39612.4	40714.5	475.99	ug/L	475.99	ppb	16:11:09
2	Co 228.616†	22759.5	23359.3	487.17	ug/L	487.17	ppb	16:11:09
2	Cr 267.716†	40208.3	40978.9	477.33	ug/L	477.33	ppb	16:11:09
2	Cu 324.752†	165946.7	161650.6	494.93	ug/L	494.93	ppb	16:11:09
2	Mn 257.610†	420638.5	429695.8	495.91	ug/L	495.91	ppb	16:11:03
2	Mo 202.031†	6392.2	6528.0	485.53	ug/L	485.53	ppb	16:11:29
2	Ni 231.604†	18431.6	18739.9	479.71	ug/L	479.71	ppb	16:11:09

2	P 214.914†	4408.9	4267.8	2271.3 ug/L	2271.3 ppb	16:11:29
2	Pb 220.353†	3691.6	3849.6	478.47 ug/L	478.47 ppb	16:11:29
2	S 181.975 Axial†	783.2	758.2	990.02 ug/L	990.02 ppb	16:11:29
2	Sb 206.836†	1430.5	1427.5	500.45 ug/L	500.45 ppb	16:11:29
2	Se 196.026†	793.3	834.8	505.29 ug/L	505.29 ppb	16:11:29
2	Si 251.611†	77587.8	78751.2	2448.1 ug/L	2448.1 ppb	16:11:09
2	Sn 189.927†	2617.3	2664.6	478.63 ug/L	478.63 ppb	16:11:29
2	Ti 334.940†	294884.9	303126.7	492.55 ug/L	492.55 ppb	16:11:09
2	Tl 190.801†	1483.7	1556.8	494.77 ug/L	494.77 ppb	16:11:29
2	U 409.014†	13409.9	17231.9	487.85 ug/L	487.85 ppb	16:11:09
2	V 292.402†	63123.6	66245.6	486.24 ug/L	486.24 ppb	16:11:09
2	Zn 213.857†	49546.1	49992.3	483.42 ug/L	483.42 ppb	16:11:09
2	SiO2†	78410.7	79585.7	5293.0 ug/L	5293.0 ppb	16:12:10
3	Sc Radial	4188.8	4188.8	98.5 %		16:10:05
3	Y RADIAL	4296.1	4296.1	97.59 %		16:10:05
3	Al 396.153Radial†	4745.1	4974.5	4953.2 ug/L	4953.2 ppb	16:10:05
3	Ca 317.933Radial†	2601.6	2621.8	4890.7 ug/L	4890.7 ppb	16:10:25
3	Fe 238.204 Radial†	480.7	477.8	5092.4 ug/L	5092.4 ppb	16:10:25
3	K 766.490 Radial†	27529.8	24766.3	4992.9 ug/L	4992.9 ppb	16:10:05
3	Mg 279.077 IEC†	128.0	127.2	4910.9 ug/L	4910.9 ppb	16:10:25
3	Na 589.592 Radial†	31899.3	32165.1	10729 ug/L	10729 ppb	16:10:05
3	Sr 421.552†	64585.6	65453.2	505.35 ug/L	505.35 ppb	16:10:05
3	Sc 361.383	841950.1	841950.1	99.052 %		16:11:34
3	Y 371.029	679956.6	679956.6	96.760 %		16:11:34
3	Ag 328.068†	100941.3	101679.8	491.40 ug/L	491.40 ppb	16:11:40
3	As 188.979†	1085.8	1124.5	477.45 ug/L	477.45 ppb	16:12:00
3	B 249.677†	20830.0	21511.3	503.86 ug/L	503.86 ppb	16:11:40
3	Ba 233.527†	59261.8	59810.2	486.85 ug/L	486.85 ppb	16:11:40
3	Be 313.107†	1319856.8	1336828.8	492.14 ug/L	492.14 ppb	16:11:34
3	Cd 226.502†	40065.8	40644.8	475.19 ug/L	475.19 ppb	16:11:40
3	Co 228.616†	23048.2	23347.7	486.92 ug/L	486.92 ppb	16:11:40
3	Cr 267.716†	40715.9	40955.9	477.06 ug/L	477.06 ppb	16:11:40
3	Cu 324.752†	167687.5	161198.4	493.54 ug/L	493.54 ppb	16:11:40
3	Mn 257.610†	425271.8	428772.5	494.84 ug/L	494.84 ppb	16:11:34
3	Mo 202.031†	6398.8	6449.6	479.69 ug/L	479.69 ppb	16:12:00
3	Ni 231.604†	18619.4	18684.1	478.28 ug/L	478.28 ppb	16:11:40
3	P 214.914†	4414.5	4214.7	2242.2 ug/L	2242.2 ppb	16:12:00
3	Pb 220.353†	3723.9	3833.1	476.41 ug/L	476.41 ppb	16:12:00
3	S 181.975 Axial†	795.1	759.8	992.08 ug/L	992.08 ppb	16:12:00
3	Sb 206.836†	1421.0	1399.0	490.58 ug/L	490.58 ppb	16:12:00
3	Se 196.026†	786.1	817.0	494.61 ug/L	494.61 ppb	16:12:00
3	Si 251.611†	78155.0	78290.7	2433.8 ug/L	2433.8 ppb	16:11:40
3	Sn 189.927†	2623.8	2636.3	473.55 ug/L	473.55 ppb	16:12:00
3	Ti 334.940†	297653.0	301994.8	490.71 ug/L	490.71 ppb	16:11:40
3	Tl 190.801†	1488.2	1541.5	489.93 ug/L	489.93 ppb	16:12:00
3	U 409.014†	13768.5	17415.4	493.08 ug/L	493.08 ppb	16:11:40
3	V 292.402†	63858.6	66147.1	485.47 ug/L	485.47 ppb	16:11:40
3	Zn 213.857†	50099.7	49891.4	482.46 ug/L	482.46 ppb	16:11:40
3	SiO2†	77306.5	77426.9	5149.2 ug/L	5149.2 ppb	16:12:15

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	833399.4	98.046	%	0.8984				0.92%
Sc Radial	4154.0	97.7	%	0.82				0.84%
Y 371.029	672783.9	95.739	%	0.9074				0.95%
Y RADIAL	4271.7	97.03	%	0.554				0.57%
Ag 328.068†	102158.5	493.72	ug/L	2.530	493.72	ppb	2.530	0.51%
QC value within limits for Ag 328.068 Recovery = 98.74%								
Al 396.153Radial†	4978.5	4957.0	ug/L	14.78	4957.0	ppb	14.78	0.30%
QC value within limits for Al 396.153Radial Recovery = 99.14%								
As 188.979†	1135.7	482.18	ug/L	4.189	482.18	ppb	4.189	0.87%
QC value within limits for As 188.979 Recovery = 96.44%								
B 249.677†	21577.8	505.41	ug/L	2.823	505.41	ppb	2.823	0.56%
QC value within limits for B 249.677 Recovery = 101.08%								
Ba 233.527†	60197.4	490.00	ug/L	3.373	490.00	ppb	3.373	0.69%
QC value within limits for Ba 233.527 Recovery = 98.00%								
Be 313.107†	1336623.8	492.07	ug/L	0.061	492.07	ppb	0.061	0.01%
QC value within limits for Be 313.107 Recovery = 98.41%								
Ca 317.933Radial†	2658.3	4958.7	ug/L	58.99	4958.7	ppb	58.99	1.19%

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   QC value within limits for Ca 317.933Radial  Recovery = 99.17%
Cd 226.502†            40856.6      477.66 ug/L        3.608      477.66 ppb          3.608   0.76%
   QC value within limits for Cd 226.502  Recovery = 95.53%
Co 228.616†            23454.7      489.16 ug/L        3.661      489.16 ppb          3.661   0.75%
   QC value within limits for Co 228.616  Recovery = 97.83%
Cr 267.716†            41095.6      478.69 ug/L        2.590      478.69 ppb          2.590   0.54%
   QC value within limits for Cr 267.716  Recovery = 95.74%
Cu 324.752†           161712.7      495.12 ug/L        1.680      495.12 ppb          1.680   0.34%
   QC value within limits for Cu 324.752  Recovery = 99.02%
Fe 238.204 Radial†       483.0      5147.2 ug/L       47.78      5147.2 ppb          47.78   0.93%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.94%
K 766.490 Radial†      24903.9      5020.6 ug/L       26.44      5020.6 ppb          26.44   0.53%
   QC value within limits for K 766.490 Radial  Recovery = 100.41%
Mg 279.077 IEC†          129.2      4988.9 ug/L       84.10      4988.9 ppb          84.10   1.69%
   QC value within limits for Mg 279.077 IEC  Recovery = 99.78%
Mn 257.610†           429620.7      495.82 ug/L        0.940      495.82 ppb          0.940   0.19%
   QC value within limits for Mn 257.610  Recovery = 99.16%
Mo 202.031†             6514.5      484.53 ug/L        4.417      484.53 ppb          4.417   0.91%
   QC value within limits for Mo 202.031  Recovery = 96.91%
Na 589.592 Radial†     32243.8       10755 ug/L         77.6       10755 ppb           77.6   0.72%
   QC value within limits for Na 589.592 Radial  Recovery = 107.55%
Ni 231.604†            18798.2      481.21 ug/L        3.890      481.21 ppb          3.890   0.81%
   QC value within limits for Ni 231.604  Recovery = 96.24%
P 214.914†              4266.8      2270.7 ug/L       28.24      2270.7 ppb          28.24   1.24%
   QC value within limits for P 214.914  Recovery = 90.83%
Pb 220.353†             3865.4      480.43 ug/L        5.274      480.43 ppb          5.274   1.10%
   QC value within limits for Pb 220.353  Recovery = 96.09%
S 181.975 Axial†         765.9      1000.1 ug/L       15.75      1000.1 ppb          15.75   1.58%
   QC value within limits for S 181.975 Axial  Recovery = 100.01%
Sb 206.836†             1418.1      497.22 ug/L        5.752      497.22 ppb          5.752   1.16%
   QC value within limits for Sb 206.836  Recovery = 99.44%
Se 196.026†              826.9      500.60 ug/L        5.460      500.60 ppb          5.460   1.09%
   QC value within limits for Se 196.026  Recovery = 100.12%
Si 251.611†            78736.1      2447.7 ug/L       13.60      2447.7 ppb          13.60   0.56%
   QC value within limits for Si 251.611  Recovery = 97.91%
Sn 189.927†             2661.8      478.12 ug/L        4.340      478.12 ppb          4.340   0.91%
   QC value within limits for Sn 189.927  Recovery = 95.62%
Sr 421.552†            65727.0      507.46 ug/L        2.152      507.46 ppb          2.152   0.42%
   QC value within limits for Sr 421.552  Recovery = 101.49%
Ti 334.940†           303441.0      493.06 ug/L        2.647      493.06 ppb          2.647   0.54%
   QC value within limits for Ti 334.940  Recovery = 98.61%
Tl 190.801†             1554.7      494.11 ug/L        3.887      494.11 ppb          3.887   0.79%
   QC value within limits for Tl 190.801  Recovery = 98.82%
U 409.014†             17351.0      491.24 ug/L        2.933      491.24 ppb          2.933   0.60%
   QC value within limits for U 409.014  Recovery = 98.25%
V 292.402†             66399.9      487.35 ug/L        2.625      487.35 ppb          2.625   0.54%
   QC value within limits for V 292.402  Recovery = 97.47%
Zn 213.857†            50132.1      484.78 ug/L        3.222      484.78 ppb          3.222   0.66%
   QC value within limits for Zn 213.857  Recovery = 96.96%
SiO2†                  78784.0      5239.6 ug/L       78.68      5239.6 ppb          78.68   1.50%
   QC value within limits for SiO2  Recovery = 97.98%
All analyte(s) passed QC.
```

Sequence No.: 6
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/16/2010 16:14:25
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4281.6	4281.6	101	%			16:16:18
1	Y RADIAL	4415.3	4415.3	100.3	%			16:16:18
1	Al 396.153Radial†	-131.8	28.2	28.180	ug/L	28.180	ppb	16:16:38
1	Ca 317.933Radial†	39.0	20.4	38.028	ug/L	38.028	ppb	16:16:38
1	Fe 238.204 Radial†	8.6	-1.5	-16.347	ug/L	-16.347	ppb	16:16:38
1	K 766.490 Radial†	3656.8	458.9	92.379	ug/L	92.379	ppb	16:16:18
1	Mg 279.077 IEC†	1.7	-1.1	-41.081	ug/L	-41.081	ppb	16:16:38
1	Na 589.592 Radial†	2157.0	1934.5	645.26	ug/L	645.26	ppb	16:16:18
1	Sr 421.552†	145.3	54.4	0.4199	ug/L	0.4199	ppb	16:16:18
1	Sc 361.383	819219.6	819219.6	96.378	%			16:17:35
1	Y 371.029	669576.7	669576.7	95.282	%			16:17:35
1	Ag 328.068†	146.3	-75.9	-0.3718	ug/L	-0.3718	ppb	16:17:35
1	As 188.979†	-26.1	1.3	0.5213	ug/L	0.5213	ppb	16:17:55
1	B 249.677†	424.8	922.6	21.709	ug/L	21.709	ppb	16:17:35
1	Ba 233.527†	53.3	36.5	0.2968	ug/L	0.2968	ppb	16:17:55
1	Be 313.107†	-4379.1	-204.5	-0.0751	ug/L	-0.0751	ppb	16:17:35
1	Cd 226.502†	-185.1	3.5	0.0433	ug/L	0.0433	ppb	16:17:55
1	Co 228.616†	-80.3	-4.4	-0.0893	ug/L	-0.0893	ppb	16:17:55
1	Cr 267.716†	118.7	-26.6	-0.3104	ug/L	-0.3104	ppb	16:17:55
1	Cu 324.752†	7838.8	39.3	0.1174	ug/L	0.1174	ppb	16:17:35
1	Mn 257.610†	979.5	446.6	0.5151	ug/L	0.5151	ppb	16:17:55
1	Mo 202.031†	22.3	12.7	0.9420	ug/L	0.9420	ppb	16:17:55
1	Ni 231.604†	120.8	11.8	0.3031	ug/L	0.3031	ppb	16:17:55
1	P 214.914†	232.5	-0.7	-0.3697	ug/L	-0.3697	ppb	16:17:55
1	Pb 220.353†	-56.9	14.6	1.8144	ug/L	1.8144	ppb	16:17:55
1	S 181.975 Axial†	89.1	49.6	64.779	ug/L	64.779	ppb	16:17:55
1	Sb 206.836†	46.2	12.3	4.2061	ug/L	4.2061	ppb	16:17:55
1	Se 196.026†	-26.6	-4.3	-2.5324	ug/L	-2.5324	ppb	16:17:55
1	Si 251.611†	786.0	203.2	6.3202	ug/L	6.3202	ppb	16:17:55
1	Sn 189.927†	23.2	11.5	2.0610	ug/L	2.0610	ppb	16:17:55
1	Ti 334.940†	-1440.8	-2.1	0.0034	ug/L	0.0034	ppb	16:17:35
1	Tl 190.801†	-42.2	-4.7	-1.4798	ug/L	-1.4798	ppb	16:17:55
1	U 409.014†	-3253.5	139.4	3.9623	ug/L	3.9623	ppb	16:17:35
1	V 292.402†	-1552.1	66.9	0.5068	ug/L	0.5068	ppb	16:17:35
1	Zn 213.857†	764.8	105.8	1.0326	ug/L	1.0326	ppb	16:17:55
1	SiO2†	836.7	248.6	16.548	ug/L	16.548	ppb	16:18:51
2	Sc Radial	4278.2	4278.2	101	%			16:16:43
2	Y RADIAL	4418.0	4418.0	100.4	%			16:16:43
2	Al 396.153Radial†	-115.5	44.3	44.257	ug/L	44.257	ppb	16:17:03
2	Ca 317.933Radial†	42.9	24.3	45.297	ug/L	45.297	ppb	16:17:03
2	Fe 238.204 Radial†	12.2	2.1	22.178	ug/L	22.178	ppb	16:17:03
2	K 766.490 Radial†	3639.4	444.6	89.509	ug/L	89.509	ppb	16:16:43
2	Mg 279.077 IEC†	0.9	-1.8	-70.912	ug/L	-70.912	ppb	16:17:03
2	Na 589.592 Radial†	2003.1	1783.3	594.83	ug/L	594.83	ppb	16:16:43
2	Sr 421.552†	145.6	54.9	0.4235	ug/L	0.4235	ppb	16:16:43
2	Sc 361.383	824051.0	824051.0	96.946	%			16:18:00
2	Y 371.029	673225.9	673225.9	95.802	%			16:18:00
2	Ag 328.068†	214.2	-6.8	-0.0295	ug/L	-0.0295	ppb	16:18:00
2	As 188.979†	-30.5	-3.1	-1.3154	ug/L	-1.3154	ppb	16:18:21
2	B 249.677†	363.6	857.0	20.157	ug/L	20.157	ppb	16:18:00
2	Ba 233.527†	15.6	-2.7	-0.0206	ug/L	-0.0206	ppb	16:18:21
2	Be 313.107†	-4350.8	-148.7	-0.0542	ug/L	-0.0542	ppb	16:18:00
2	Cd 226.502†	-189.5	0.1	-0.0004	ug/L	-0.0004	ppb	16:18:21
2	Co 228.616†	-63.7	13.2	0.2763	ug/L	0.2763	ppb	16:18:21
2	Cr 267.716†	119.0	-27.0	-0.3156	ug/L	-0.3156	ppb	16:18:21
2	Cu 324.752†	8048.0	207.5	0.6328	ug/L	0.6328	ppb	16:18:00
2	Mn 257.610†	613.5	63.1	0.0779	ug/L	0.0779	ppb	16:18:21
2	Mo 202.031†	20.5	10.7	0.7997	ug/L	0.7997	ppb	16:18:21
2	Ni 231.604†	107.9	-2.2	-0.0576	ug/L	-0.0576	ppb	16:18:21

2	P 214.914†	240.0	5.6	2.9623	ug/L	2.9623 ppb	16:18:21
2	Pb 220.353†	-55.1	16.7	2.0762	ug/L	2.0762 ppb	16:18:21
2	S 181.975 Axial†	139.4	100.9	131.82	ug/L	131.82 ppb	16:18:21
2	Sb 206.836†	40.9	6.5	2.2058	ug/L	2.2058 ppb	16:18:21
2	Se 196.026†	-22.9	-0.3	-0.0877	ug/L	-0.0877 ppb	16:18:21
2	Si 251.611†	710.1	120.1	3.7342	ug/L	3.7342 ppb	16:18:21
2	Sn 189.927†	8.0	-4.3	-0.7719	ug/L	-0.7719 ppb	16:18:21
2	Ti 334.940†	-1334.5	116.3	0.1983	ug/L	0.1983 ppb	16:18:00
2	Tl 190.801†	-34.6	3.4	1.0828	ug/L	1.0828 ppb	16:18:21
2	U 409.014†	-3190.7	224.0	6.3613	ug/L	6.3613 ppb	16:18:00
2	V 292.402†	-1585.4	42.0	0.3228	ug/L	0.3228 ppb	16:18:00
2	Zn 213.857†	743.4	79.1	0.7682	ug/L	0.7682 ppb	16:18:21
2	SiO2†	719.6	122.7	8.1621	ug/L	8.1621 ppb	16:18:56
3	Sc Radial	4273.3	4273.3	101	%		16:17:08
3	Y RADIAL	4394.4	4394.4	99.82	%		16:17:08
3	Al 396.153Radial†	-125.8	33.9	33.906	ug/L	33.906 ppb	16:17:28
3	Ca 317.933Radial†	40.4	21.9	40.801	ug/L	40.801 ppb	16:17:28
3	Fe 238.204 Radial†	8.5	-1.6	-16.556	ug/L	-16.556 ppb	16:17:28
3	K 766.490 Radial†	3679.8	489.0	98.449	ug/L	98.449 ppb	16:17:08
3	Mg 279.077 IEC†	4.1	1.3	51.443	ug/L	51.443 ppb	16:17:28
3	Na 589.592 Radial†	2055.3	1837.5	612.92	ug/L	612.92 ppb	16:17:08
3	Sr 421.552†	59.6	-30.6	-0.2363	ug/L	-0.2363 ppb	16:17:08
3	Sc 361.383	816971.0	816971.0	96.113	%		16:18:26
3	Y 371.029	668534.0	668534.0	95.134	%		16:18:26
3	Ag 328.068†	309.5	94.4	0.4429	ug/L	0.4429 ppb	16:18:26
3	As 188.979†	-24.2	3.1	1.3085	ug/L	1.3085 ppb	16:18:46
3	B 249.677†	290.5	784.1	18.450	ug/L	18.450 ppb	16:18:26
3	Ba 233.527†	11.7	-6.7	-0.0550	ug/L	-0.0550 ppb	16:18:46
3	Be 313.107†	-4268.5	-102.0	-0.0375	ug/L	-0.0375 ppb	16:18:26
3	Cd 226.502†	-200.2	-12.8	-0.1467	ug/L	-0.1467 ppb	16:18:46
3	Co 228.616†	-64.5	11.8	0.2479	ug/L	0.2479 ppb	16:18:46
3	Cr 267.716†	101.8	-43.8	-0.5116	ug/L	-0.5116 ppb	16:18:46
3	Cu 324.752†	7931.5	158.1	0.4810	ug/L	0.4810 ppb	16:18:26
3	Mn 257.610†	557.0	9.7	0.0075	ug/L	0.0075 ppb	16:18:46
3	Mo 202.031†	17.1	7.4	0.5467	ug/L	0.5467 ppb	16:18:46
3	Ni 231.604†	121.3	12.7	0.3241	ug/L	0.3241 ppb	16:18:46
3	P 214.914†	224.5	-8.4	-4.7398	ug/L	-4.7398 ppb	16:18:46
3	Pb 220.353†	-52.8	18.7	2.3229	ug/L	2.3229 ppb	16:18:46
3	S 181.975 Axial†	72.8	32.8	42.877	ug/L	42.877 ppb	16:18:46
3	Sb 206.836†	35.6	1.4	0.4486	ug/L	0.4486 ppb	16:18:46
3	Se 196.026†	-22.5	-0.1	-0.0839	ug/L	-0.0839 ppb	16:18:46
3	Si 251.611†	713.6	130.1	4.0480	ug/L	4.0480 ppb	16:18:46
3	Sn 189.927†	4.4	-8.0	-1.4313	ug/L	-1.4313 ppb	16:18:46
3	Ti 334.940†	-1453.8	-19.7	-0.0323	ug/L	-0.0323 ppb	16:18:26
3	Tl 190.801†	-30.9	6.9	2.1858	ug/L	2.1858 ppb	16:18:46
3	U 409.014†	-3243.1	140.9	4.0053	ug/L	4.0053 ppb	16:18:26
3	V 292.402†	-1636.7	-25.6	-0.1666	ug/L	-0.1666 ppb	16:18:26
3	Zn 213.857†	710.9	51.9	0.5060	ug/L	0.5060 ppb	16:18:46
3	SiO2†	823.5	237.3	15.805	ug/L	15.805 ppb	16:19:01

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	820080.5	96.479	%	0.4256				0.44%
Sc Radial	4277.7	101	%	0.1				0.10%
Y 371.029	670445.5	95.406	%	0.3506				0.37%
Y RADIAL	4409.2	100.2	%	0.29				0.29%
Ag 328.068†	3.9	0.0138	ug/L	0.40908	0.0138	ppb	0.40908	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	35.5	35.448	ug/L	8.1490	35.448	ppb	8.1490	22.99%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.4	0.1715	ug/L	1.34650	0.1715	ppb	1.34650	785.31%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	854.6	20.105	ug/L	1.6301	20.105	ppb	1.6301	8.11%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	9.0	0.0737	ug/L	0.19395	0.0737	ppb	0.19395	263.14%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-151.7	-0.0556	ug/L	0.01884	-0.0556	ppb	0.01884	33.87%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	22.2	41.375	ug/L	3.6684	41.375	ppb	3.6684	8.87%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -3.1     -0.0346 ug/L       0.09948     -0.0346 ppb        0.09948 287.34%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               6.9      0.1449 ug/L       0.20336      0.1449 ppb        0.20336 140.31%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†             -32.4     -0.3792 ug/L       0.11466     -0.3792 ppb        0.11466  30.24%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             135.0      0.4104 ug/L       0.26488      0.4104 ppb        0.26488  64.54%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†       -0.3     -3.5748 ug/L      22.30274     -3.5748 ppb       22.30274 623.89%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       464.2      93.446 ug/L        4.5647      93.446 ppb         4.5647   4.88%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†          -0.5     -20.183 ug/L       63.7983     -20.183 ppb        63.7983 316.09%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†             173.1      0.2002 ug/L       0.27502      0.2002 ppb        0.27502 137.41%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              10.3      0.7628 ug/L       0.20022      0.7628 ppb        0.20022  26.25%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      1851.7      617.67 ug/L        25.550      617.67 ppb         25.550   4.14%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               7.4      0.1899 ug/L       0.21454      0.1899 ppb        0.21454 112.99%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               -1.2     -0.7157 ug/L       3.86270     -0.7157 ppb        3.86270 539.69%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              16.6      2.0712 ug/L       0.25427      2.0712 ppb        0.25427  12.28%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†         61.1      79.827 ug/L       46.3438      79.827 ppb        46.3438  58.06%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               6.7      2.2868 ug/L       1.88008      2.2868 ppb        1.88008  82.21%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -1.5     -0.9013 ug/L       1.41258     -0.9013 ppb        1.41258 156.72%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†             151.1      4.7008 ug/L       1.41120      4.7008 ppb        1.41120  30.02%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -0.3     -0.0474 ug/L       1.85547     -0.0474 ppb        1.85547 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              26.2      0.2024 ug/L       0.37990      0.2024 ppb        0.37990 187.74%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              31.5      0.0565 ug/L       0.12408      0.0565 ppb        0.12408 219.74%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               1.9      0.5963 ug/L       1.88065      0.5963 ppb        1.88065 315.40%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              168.1      4.7763 ug/L       1.37282      4.7763 ppb        1.37282  28.74%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               27.7      0.2210 ug/L       0.34804      0.2210 ppb        0.34804 157.49%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              78.9      0.7690 ug/L       0.26333      0.7690 ppb        0.26333  34.25%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                   202.9      13.505 ug/L        4.6418      13.505 ppb         4.6418  34.37%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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Analysis Begun

Start Time: 2/16/2010 16:40:44 **Plasma On Time: 2/15/2010 05:50:42**
Logged In Analyst: Optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\021610.sif
Batch ID:
Results Data Set: 021610
Results Library: C:\pe\Optima3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: CCV **Date Collected: 2/16/2010 16:40:45**
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.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4180.9	4180.9	98.4	%			16:42:37
1	Y RADIAL	4302.4	4302.4	97.73	%			16:42:37
1	Al 396.153Radial†	4732.5	4970.8	4949.1	ug/L	4949.1	ppb	16:42:37
1	Ca 317.933Radial†	2588.5	2613.4	4875.1	ug/L	4875.1	ppb	16:42:57
1	Fe 238.204 Radial†	479.3	477.3	5086.8	ug/L	5086.8	ppb	16:42:57
1	K 766.490 Radial†	27320.8	24606.3	4960.6	ug/L	4960.6	ppb	16:42:37
1	Mg 279.077 IEC†	130.6	130.1	5022.7	ug/L	5022.7	ppb	16:42:57
1	Na 589.592 Radial†	31557.5	31878.4	10633	ug/L	10633	ppb	16:42:37
1	Sr 421.552†	64679.4	65671.7	507.03	ug/L	507.03	ppb	16:42:37
1	Sc 361.383	834359.6	834359.6	98.159	%			16:43:56
1	Y 371.029	673546.0	673546.0	95.847	%			16:43:56
1	Ag 328.068†	99853.4	101498.6	490.54	ug/L	490.54	ppb	16:43:56
1	As 188.979†	1092.7	1141.5	484.67	ug/L	484.67	ppb	16:44:16
1	B 249.677†	20446.2	21311.6	499.17	ug/L	499.17	ppb	16:43:56
1	Ba 233.527†	58930.1	60016.5	488.52	ug/L	488.52	ppb	16:43:56
1	Be 313.107†	1303541.7	1332329.9	490.51	ug/L	490.51	ppb	16:43:56
1	Cd 226.502†	39218.0	40149.0	469.39	ug/L	469.39	ppb	16:44:16
1	Co 228.616†	22717.1	23222.0	484.29	ug/L	484.29	ppb	16:44:16
1	Cr 267.716†	40255.2	40860.5	475.96	ug/L	475.96	ppb	16:43:56
1	Cu 324.752†	167151.4	162192.3	496.59	ug/L	496.59	ppb	16:43:56
1	Mn 257.610†	420299.5	427612.9	493.50	ug/L	493.50	ppb	16:43:56
1	Mo 202.031†	6434.3	6544.5	486.75	ug/L	486.75	ppb	16:44:16
1	Ni 231.604†	18435.2	18667.4	477.86	ug/L	477.86	ppb	16:44:16
1	P 214.914†	4443.0	4284.4	2280.2	ug/L	2280.2	ppb	16:44:16
1	Pb 220.353†	3736.4	3880.0	482.24	ug/L	482.24	ppb	16:44:16
1	S 181.975 Axial†	786.4	758.2	990.02	ug/L	990.02	ppb	16:44:16
1	Sb 206.836†	1428.8	1419.9	497.85	ug/L	497.85	ppb	16:44:16
1	Se 196.026†	791.9	830.0	502.22	ug/L	502.22	ppb	16:44:16
1	Si 251.611†	77647.3	78491.3	2440.0	ug/L	2440.0	ppb	16:43:56
1	Sn 189.927†	2627.7	2664.4	478.57	ug/L	478.57	ppb	16:44:16
1	Ti 334.940†	302298.3	309461.0	502.84	ug/L	502.84	ppb	16:43:56
1	Tl 190.801†	1497.5	1564.7	497.34	ug/L	497.34	ppb	16:44:16
1	U 409.014†	13003.2	16762.2	474.52	ug/L	474.52	ppb	16:43:56
1	V 292.402†	63221.0	66084.1	485.07	ug/L	485.07	ppb	16:43:56
1	Zn 213.857†	49792.0	50038.2	483.89	ug/L	483.89	ppb	16:43:56
1	SiO2†	76576.2	77392.9	5146.8	ug/L	5146.8	ppb	16:45:16
2	Sc Radial	4131.4	4131.4	97.2	%			16:43:02
2	Y RADIAL	4303.2	4303.2	97.75	%			16:43:02
2	Al 396.153Radial†	4669.6	4963.7	4942.2	ug/L	4942.2	ppb	16:43:02
2	Ca 317.933Radial†	2600.5	2657.4	4957.1	ug/L	4957.1	ppb	16:43:22
2	Fe 238.204 Radial†	476.8	480.5	5120.9	ug/L	5120.9	ppb	16:43:22
2	K 766.490 Radial†	27176.0	24790.6	4997.8	ug/L	4997.8	ppb	16:43:02
2	Mg 279.077 IEC†	129.6	130.7	5047.1	ug/L	5047.1	ppb	16:43:22
2	Na 589.592 Radial†	31311.3	32010.0	10677	ug/L	10677	ppb	16:43:02
2	Sr 421.552†	64163.4	65929.8	509.03	ug/L	509.03	ppb	16:43:02
2	Sc 361.383	837219.5	837219.5	98.495	%			16:44:23
2	Y 371.029	674828.3	674828.3	96.030	%			16:44:23

2	Ag 328.068†	100293.9	101598.3	491.03 ug/L	491.03 ppb	16:44:23
2	As 188.979†	1090.5	1135.5	482.16 ug/L	482.16 ppb	16:44:43
2	B 249.677†	20630.6	21427.7	501.91 ug/L	501.91 ppb	16:44:23
2	Ba 233.527†	59149.2	60033.9	488.67 ug/L	488.67 ppb	16:44:23
2	Be 313.107†	1307109.5	1331415.9	490.18 ug/L	490.18 ppb	16:44:23
2	Cd 226.502†	39076.9	39869.4	466.11 ug/L	466.11 ppb	16:44:43
2	Co 228.616†	22663.4	23088.4	481.50 ug/L	481.50 ppb	16:44:43
2	Cr 267.716†	40364.6	40831.6	475.63 ug/L	475.63 ppb	16:44:23
2	Cu 324.752†	168107.8	162581.7	497.79 ug/L	497.79 ppb	16:44:23
2	Mn 257.610†	422119.0	427997.5	493.94 ug/L	493.94 ppb	16:44:23
2	Mo 202.031†	6417.5	6505.1	483.82 ug/L	483.82 ppb	16:44:43
2	Ni 231.604†	18346.3	18513.0	473.91 ug/L	473.91 ppb	16:44:43
2	P 214.914†	4426.9	4252.5	2262.3 ug/L	2262.3 ppb	16:44:43
2	Pb 220.353†	3742.4	3873.2	481.38 ug/L	481.38 ppb	16:44:43
2	S 181.975 Axial†	793.5	762.7	995.88 ug/L	995.88 ppb	16:44:43
2	Sb 206.836†	1415.4	1401.3	491.46 ug/L	491.46 ppb	16:44:43
2	Se 196.026†	796.3	831.8	503.34 ug/L	503.34 ppb	16:44:43
2	Si 251.611†	77927.8	78505.9	2440.5 ug/L	2440.5 ppb	16:44:23
2	Sn 189.927†	2627.2	2654.7	476.85 ug/L	476.85 ppb	16:44:43
2	Ti 334.940†	303434.0	309562.2	503.01 ug/L	503.01 ppb	16:44:23
2	Tl 190.801†	1475.6	1537.2	488.69 ug/L	488.69 ppb	16:44:43
2	U 409.014†	12967.5	16680.7	472.21 ug/L	472.21 ppb	16:44:23
2	V 292.402†	63493.1	66140.3	485.42 ug/L	485.42 ppb	16:44:23
2	Zn 213.857†	49956.9	50032.3	483.85 ug/L	483.85 ppb	16:44:23
2	SiO2†	78033.2	78605.7	5227.7 ug/L	5227.7 ppb	16:45:21
3	Sc Radial	4145.8	4145.8	97.5 %		16:43:27
3	Y RADIAL	4268.6	4268.6	96.97 %		16:43:27
3	Al 396.153Radial†	4672.0	4949.5	4927.9 ug/L	4927.9 ppb	16:43:27
3	Ca 317.933Radial†	2607.2	2655.0	4952.5 ug/L	4952.5 ppb	16:43:47
3	Fe 238.204 Radial†	474.7	476.7	5080.5 ug/L	5080.5 ppb	16:43:47
3	K 766.490 Radial†	27047.5	24561.8	4951.6 ug/L	4951.6 ppb	16:43:27
3	Mg 279.077 IEC†	129.6	130.1	5025.6 ug/L	5025.6 ppb	16:43:47
3	Na 589.592 Radial†	31122.2	31704.4	10575 ug/L	10575 ppb	16:43:27
3	Sr 421.552†	63965.5	65497.8	505.69 ug/L	505.69 ppb	16:43:27
3	Sc 361.383	833075.2	833075.2	98.008 %		16:44:50
3	Y 371.029	670955.9	670955.9	95.479 %		16:44:50
3	Ag 328.068†	99748.4	101548.2	490.78 ug/L	490.78 ppb	16:44:50
3	As 188.979†	1079.4	1129.6	479.68 ug/L	479.68 ppb	16:45:11
3	B 249.677†	20437.1	21334.4	499.72 ug/L	499.72 ppb	16:44:50
3	Ba 233.527†	58855.1	60032.5	488.65 ug/L	488.65 ppb	16:44:50
3	Be 313.107†	1296919.3	1327620.3	488.78 ug/L	488.78 ppb	16:44:50
3	Cd 226.502†	39003.4	39991.7	467.55 ug/L	467.55 ppb	16:45:11
3	Co 228.616†	22636.4	23175.4	483.32 ug/L	483.32 ppb	16:45:11
3	Cr 267.716†	40152.2	40818.7	475.47 ug/L	475.47 ppb	16:44:50
3	Cu 324.752†	166968.5	162268.3	496.82 ug/L	496.82 ppb	16:44:50
3	Mn 257.610†	419920.4	427886.2	493.81 ug/L	493.81 ppb	16:44:50
3	Mo 202.031†	6402.6	6522.3	485.10 ug/L	485.10 ppb	16:45:11
3	Ni 231.604†	18360.6	18620.3	476.65 ug/L	476.65 ppb	16:45:11
3	P 214.914†	4426.6	4274.6	2274.8 ug/L	2274.8 ppb	16:45:11
3	Pb 220.353†	3727.5	3876.8	481.83 ug/L	481.83 ppb	16:45:11
3	S 181.975 Axial†	784.3	757.3	988.88 ug/L	988.88 ppb	16:45:11
3	Sb 206.836†	1412.1	1405.1	492.79 ug/L	492.79 ppb	16:45:11
3	Se 196.026†	789.2	828.6	501.37 ug/L	501.37 ppb	16:45:11
3	Si 251.611†	77417.2	78378.6	2436.5 ug/L	2436.5 ppb	16:44:50
3	Sn 189.927†	2616.7	2657.3	477.32 ug/L	477.32 ppb	16:45:11
3	Ti 334.940†	301814.6	309442.4	502.82 ug/L	502.82 ppb	16:44:50
3	Tl 190.801†	1489.7	1559.1	495.58 ug/L	495.58 ppb	16:45:11
3	U 409.014†	12931.0	16709.1	473.02 ug/L	473.02 ppb	16:44:50
3	V 292.402†	63209.7	66171.8	485.68 ug/L	485.68 ppb	16:44:50
3	Zn 213.857†	49673.7	49995.6	483.48 ug/L	483.48 ppb	16:44:50
3	SiO2†	77388.4	78341.9	5210.1 ug/L	5210.1 ppb	16:45:26

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	834884.8	98.221	%	0.2496				0.25%
Sc Radial	4152.7	97.7	%	0.60				0.61%
Y 371.029	673110.1	95.785	%	0.2807				0.29%
Y RADIAL	4291.4	97.48	%	0.448				0.46%
Ag 328.068†	101548.4	490.78	ug/L	0.246	490.78	ppb	0.246	0.05%

```
   QC value within limits for Ag 328.068  Recovery = 98.16%
Al 396.153Radial†       4961.3      4939.7 ug/L        10.82      4939.7 ppb        10.82   0.22%
   QC value within limits for Al 396.153Radial  Recovery = 98.79%
As 188.979†             1135.5      482.17 ug/L        2.491      482.17 ppb        2.491   0.52%
   QC value within limits for As 188.979  Recovery = 96.43%
B 249.677†             21357.9      500.27 ug/L        1.447      500.27 ppb        1.447   0.29%
   QC value within limits for B 249.677  Recovery = 100.05%
Ba 233.527†            60027.6      488.62 ug/L        0.079      488.62 ppb        0.079   0.02%
   QC value within limits for Ba 233.527  Recovery = 97.72%
Be 313.107†          1330455.4      489.83 ug/L        0.917      489.83 ppb        0.917   0.19%
   QC value within limits for Be 313.107  Recovery = 97.97%
Ca 317.933Radial†       2641.9      4928.2 ug/L        46.10      4928.2 ppb        46.10   0.94%
   QC value within limits for Ca 317.933Radial  Recovery = 98.56%
Cd 226.502†            40003.4      467.68 ug/L        1.643      467.68 ppb        1.643   0.35%
   QC value within limits for Cd 226.502  Recovery = 93.54%
Co 228.616†            23162.0      483.04 ug/L        1.418      483.04 ppb        1.418   0.29%
   QC value within limits for Co 228.616  Recovery = 96.61%
Cr 267.716†            40836.9      475.69 ug/L        0.248      475.69 ppb        0.248   0.05%
   QC value within limits for Cr 267.716  Recovery = 95.14%
Cu 324.752†           162347.5      497.07 ug/L        0.634      497.07 ppb        0.634   0.13%
   QC value within limits for Cu 324.752  Recovery = 99.41%
Fe 238.204 Radial†       478.2      5096.0 ug/L        21.72      5096.0 ppb        21.72   0.43%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.92%
K 766.490 Radial†      24652.9      4970.0 ug/L        24.46      4970.0 ppb        24.46   0.49%
   QC value within limits for K 766.490 Radial  Recovery = 99.40%
Mg 279.077 IEC†          130.3      5031.8 ug/L        13.31      5031.8 ppb        13.31   0.26%
   QC value within limits for Mg 279.077 IEC  Recovery = 100.64%
Mn 257.610†           427832.2      493.75 ug/L        0.229      493.75 ppb        0.229   0.05%
   QC value within limits for Mn 257.610  Recovery = 98.75%
Mo 202.031†            6523.9      485.22 ug/L        1.467      485.22 ppb        1.467   0.30%
   QC value within limits for Mo 202.031  Recovery = 97.04%
Na 589.592 Radial†     31864.3       10629 ug/L         51.1       10629 ppb         51.1   0.48%
   QC value within limits for Na 589.592 Radial  Recovery = 106.29%
Ni 231.604†            18600.3      476.14 ug/L        2.026      476.14 ppb        2.026   0.43%
   QC value within limits for Ni 231.604  Recovery = 95.23%
P 214.914†              4270.5      2272.4 ug/L        9.21       2272.4 ppb        9.21    0.41%
   QC value within limits for P 214.914  Recovery = 90.90%
Pb 220.353†             3876.7      481.82 ug/L        0.431      481.82 ppb        0.431   0.09%
   QC value within limits for Pb 220.353  Recovery = 96.36%
S 181.975 Axial†         759.4      991.59 ug/L        3.755      991.59 ppb        3.755   0.38%
   QC value within limits for S 181.975 Axial  Recovery = 99.16%
Sb 206.836†             1408.8      494.03 ug/L        3.370      494.03 ppb        3.370   0.68%
   QC value within limits for Sb 206.836  Recovery = 98.81%
Se 196.026†              830.1      502.31 ug/L        0.988      502.31 ppb        0.988   0.20%
   QC value within limits for Se 196.026  Recovery = 100.46%
Si 251.611†            78458.6      2439.0 ug/L        2.17       2439.0 ppb        2.17    0.09%
   QC value within limits for Si 251.611  Recovery = 97.56%
Sn 189.927†             2658.8      477.58 ug/L        0.891      477.58 ppb        0.891   0.19%
   QC value within limits for Sn 189.927  Recovery = 95.52%
Sr 421.552†            65699.8      507.25 ug/L        1.678      507.25 ppb        1.678   0.33%
   QC value within limits for Sr 421.552  Recovery = 101.45%
Ti 334.940†           309488.5      502.89 ug/L        0.107      502.89 ppb        0.107   0.02%
   QC value within limits for Ti 334.940  Recovery = 100.58%
Tl 190.801†             1553.6      493.87 ug/L        4.570      493.87 ppb        4.570   0.93%
   QC value within limits for Tl 190.801  Recovery = 98.77%
U 409.014†             16717.3      473.25 ug/L        1.176      473.25 ppb        1.176   0.25%
   QC value within limits for U 409.014  Recovery = 94.65%
V 292.402†             66132.1      485.39 ug/L        0.307      485.39 ppb        0.307   0.06%
   QC value within limits for V 292.402  Recovery = 97.08%
Zn 213.857†            50022.0      483.74 ug/L        0.224      483.74 ppb        0.224   0.05%
   QC value within limits for Zn 213.857  Recovery = 96.75%
SiO2†                  78113.5      5194.9 ug/L        42.57      5194.9 ppb        42.57   0.82%
   QC value within limits for SiO2  Recovery = 97.15%
All analyte(s) passed QC.
```

Sequence No.: 2
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/16/2010 16:47:36
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4240.9	4240.9	99.8	%			16:49:28
1	Y RADIAL	4402.2	4402.2	100.00	%			16:49:28
1	Al 396.153Radial†	-119.2	39.5	39.495	ug/L	39.495	ppb	16:49:48
1	Ca 317.933Radial†	27.2	8.9	16.603	ug/L	16.603	ppb	16:49:48
1	Fe 238.204 Radial†	10.9	0.9	9.4012	ug/L	9.4012	ppb	16:49:48
1	K 766.490 Radial†	3573.8	410.7	82.722	ug/L	82.722	ppb	16:49:28
1	Mg 279.077 IEC†	3.0	0.3	12.598	ug/L	12.598	ppb	16:49:48
1	Na 589.592 Radial†	1540.3	1336.9	445.93	ug/L	445.93	ppb	16:49:28
1	Sr 421.552†	99.6	10.0	0.0775	ug/L	0.0775	ppb	16:49:28
1	Sc 361.383	820213.7	820213.7	96.495	%			16:50:45
1	Y 371.029	671016.5	671016.5	95.487	%			16:50:45
1	Ag 328.068†	192.3	-28.4	-0.1359	ug/L	-0.1359	ppb	16:50:45
1	As 188.979†	-28.2	-0.9	-0.3948	ug/L	-0.3948	ppb	16:51:05
1	B 249.677†	227.9	718.1	16.893	ug/L	16.893	ppb	16:50:45
1	Ba 233.527†	3.7	-15.0	-0.1213	ug/L	-0.1213	ppb	16:51:05
1	Be 313.107†	-4294.6	-111.5	-0.0407	ug/L	-0.0407	ppb	16:50:45
1	Cd 226.502†	-208.1	-20.1	-0.2360	ug/L	-0.2360	ppb	16:51:05
1	Co 228.616†	-80.6	-4.6	-0.0943	ug/L	-0.0943	ppb	16:51:05
1	Cr 267.716†	86.0	-60.5	-0.7052	ug/L	-0.7052	ppb	16:51:05
1	Cu 324.752†	7789.3	-21.9	-0.0684	ug/L	-0.0684	ppb	16:50:45
1	Mn 257.610†	509.3	-41.9	-0.0479	ug/L	-0.0479	ppb	16:51:05
1	Mo 202.031†	24.9	15.3	1.1402	ug/L	1.1402	ppb	16:51:05
1	Ni 231.604†	83.8	-26.7	-0.6827	ug/L	-0.6827	ppb	16:51:05
1	P 214.914†	236.5	3.1	1.7462	ug/L	1.7462	ppb	16:51:05
1	Pb 220.353†	-66.6	4.5	0.5720	ug/L	0.5720	ppb	16:51:05
1	S 181.975 Axial†	60.4	19.7	25.740	ug/L	25.740	ppb	16:51:05
1	Sb 206.836†	39.7	5.5	1.8956	ug/L	1.8956	ppb	16:51:05
1	Se 196.026†	-26.0	-3.7	-2.0951	ug/L	-2.0951	ppb	16:51:05
1	Si 251.611†	565.7	-26.0	-0.8254	ug/L	-0.8254	ppb	16:51:05
1	Sn 189.927†	20.8	8.9	1.6051	ug/L	1.6051	ppb	16:51:05
1	Ti 334.940†	-1374.3	68.7	0.1116	ug/L	0.1116	ppb	16:50:45
1	Tl 190.801†	-33.4	4.5	1.4059	ug/L	1.4059	ppb	16:51:05
1	U 409.014†	-3274.9	121.3	3.4454	ug/L	3.4454	ppb	16:50:45
1	V 292.402†	-1609.8	9.0	0.0870	ug/L	0.0870	ppb	16:50:45
1	Zn 213.857†	687.1	24.3	0.2404	ug/L	0.2404	ppb	16:51:05
1	SiO2†	572.9	-25.8	-1.7501	ug/L	-1.7501	ppb	16:52:01
2	Sc Radial	4240.1	4240.1	99.7	%			16:49:53
2	Y RADIAL	4345.3	4345.3	98.71	%			16:49:53
2	Al 396.153Radial†	-138.1	20.6	20.572	ug/L	20.572	ppb	16:50:13
2	Ca 317.933Radial†	18.9	0.7	1.2505	ug/L	1.2505	ppb	16:50:13
2	Fe 238.204 Radial†	11.0	1.0	10.551	ug/L	10.551	ppb	16:50:13
2	K 766.490 Radial†	3454.1	291.2	58.620	ug/L	58.620	ppb	16:49:53
2	Mg 279.077 IEC†	2.0	-0.7	-28.275	ug/L	-28.275	ppb	16:50:13
2	Na 589.592 Radial†	1518.4	1315.2	438.70	ug/L	438.70	ppb	16:49:53
2	Sr 421.552†	65.4	-24.3	-0.1873	ug/L	-0.1873	ppb	16:49:53
2	Sc 361.383	819718.1	819718.1	96.436	%			16:51:10
2	Y 371.029	670897.6	670897.6	95.470	%			16:51:10
2	Ag 328.068†	172.9	-48.4	-0.2305	ug/L	-0.2305	ppb	16:51:10
2	As 188.979†	-38.0	-11.1	-4.6790	ug/L	-4.6790	ppb	16:51:30
2	B 249.677†	216.4	706.3	16.615	ug/L	16.615	ppb	16:51:10
2	Ba 233.527†	2.4	-16.4	-0.1318	ug/L	-0.1318	ppb	16:51:30
2	Be 313.107†	-4270.7	-89.4	-0.0318	ug/L	-0.0318	ppb	16:51:10
2	Cd 226.502†	-197.7	-9.5	-0.1115	ug/L	-0.1115	ppb	16:51:30
2	Co 228.616†	-62.2	14.3	0.3003	ug/L	0.3003	ppb	16:51:30
2	Cr 267.716†	78.6	-68.2	-0.7939	ug/L	-0.7939	ppb	16:51:30
2	Cu 324.752†	7818.5	13.3	0.0390	ug/L	0.0390	ppb	16:51:10
2	Mn 257.610†	486.7	-65.1	-0.0729	ug/L	-0.0729	ppb	16:51:30
2	Mo 202.031†	23.9	14.3	1.0612	ug/L	1.0612	ppb	16:51:30
2	Ni 231.604†	77.7	-33.0	-0.8450	ug/L	-0.8450	ppb	16:51:30

2	P 214.914†	251.1	18.4	10.219	ug/L	10.219 ppb	16:51:30
2	Pb 220.353†	-71.8	-0.9	-0.1068	ug/L	-0.1068 ppb	16:51:30
2	S 181.975 Axial†	85.3	45.5	59.497	ug/L	59.497 ppb	16:51:30
2	Sb 206.836†	51.9	18.1	6.1815	ug/L	6.1815 ppb	16:51:30
2	Se 196.026†	-12.3	10.6	6.2363	ug/L	6.2363 ppb	16:51:30
2	Si 251.611†	590.3	-0.2	-0.0186	ug/L	-0.0186 ppb	16:51:30
2	Sn 189.927†	21.6	9.8	1.7618	ug/L	1.7618 ppb	16:51:30
2	Ti 334.940†	-1156.1	294.1	0.4788	ug/L	0.4788 ppb	16:51:10
2	Tl 190.801†	-24.4	13.8	4.3661	ug/L	4.3661 ppb	16:51:30
2	U 409.014†	-3242.4	152.9	4.3444	ug/L	4.3444 ppb	16:51:10
2	V 292.402†	-1561.9	57.6	0.4385	ug/L	0.4385 ppb	16:51:10
2	Zn 213.857†	671.5	8.6	0.0876	ug/L	0.0876 ppb	16:51:30
2	SiO2†	545.6	-53.7	-3.6106	ug/L	-3.6106 ppb	16:52:06
3	Sc Radial	4240.4	4240.4	99.8	%		16:50:18
3	Y RADIAL	4376.1	4376.1	99.41	%		16:50:18
3	Al 396.153Radial†	-142.7	16.0	15.960	ug/L	15.960 ppb	16:50:38
3	Ca 317.933Radial†	23.8	5.5	10.352	ug/L	10.352 ppb	16:50:38
3	Fe 238.204 Radial†	8.1	-1.9	-20.118	ug/L	-20.118 ppb	16:50:38
3	K 766.490 Radial†	3493.7	330.8	66.610	ug/L	66.610 ppb	16:50:18
3	Mg 279.077 IEC†	0.6	-2.1	-80.215	ug/L	-80.215 ppb	16:50:38
3	Na 589.592 Radial†	1429.2	1225.7	408.84	ug/L	408.84 ppb	16:50:18
3	Sr 421.552†	4.7	-85.1	-0.6571	ug/L	-0.6571 ppb	16:50:18
3	Sc 361.383	822405.2	822405.2	96.753	%		16:51:36
3	Y 371.029	671625.6	671625.6	95.574	%		16:51:36
3	Ag 328.068†	222.4	2.2	-0.0023	ug/L	-0.0023 ppb	16:51:36
3	As 188.979†	-32.8	-5.5	-2.3382	ug/L	-2.3382 ppb	16:51:56
3	B 249.677†	236.5	726.4	17.093	ug/L	17.093 ppb	16:51:36
3	Ba 233.527†	14.4	-3.9	-0.0328	ug/L	-0.0328 ppb	16:51:56
3	Be 313.107†	-4286.5	-91.2	-0.0335	ug/L	-0.0335 ppb	16:51:36
3	Cd 226.502†	-205.1	-16.5	-0.1901	ug/L	-0.1901 ppb	16:51:56
3	Co 228.616†	-84.9	-8.9	-0.1851	ug/L	-0.1851 ppb	16:51:56
3	Cr 267.716†	85.9	-60.9	-0.7118	ug/L	-0.7118 ppb	16:51:56
3	Cu 324.752†	7811.5	-20.5	-0.0673	ug/L	-0.0673 ppb	16:51:36
3	Mn 257.610†	486.9	-66.5	-0.0754	ug/L	-0.0754 ppb	16:51:56
3	Mo 202.031†	11.2	1.1	0.0805	ug/L	0.0805 ppb	16:51:56
3	Ni 231.604†	72.2	-38.9	-0.9951	ug/L	-0.9951 ppb	16:51:56
3	P 214.914†	238.9	5.0	2.7984	ug/L	2.7984 ppb	16:51:56
3	Pb 220.353†	-84.6	-13.9	-1.7179	ug/L	-1.7179 ppb	16:51:56
3	S 181.975 Axial†	70.1	29.5	38.541	ug/L	38.541 ppb	16:51:56
3	Sb 206.836†	39.1	4.8	1.6410	ug/L	1.6410 ppb	16:51:56
3	Se 196.026†	-18.2	4.5	2.5436	ug/L	2.5436 ppb	16:51:56
3	Si 251.611†	567.8	-25.4	-0.7933	ug/L	-0.7933 ppb	16:51:56
3	Sn 189.927†	20.2	8.3	1.4895	ug/L	1.4895 ppb	16:51:56
3	Ti 334.940†	-1431.6	13.2	0.0268	ug/L	0.0268 ppb	16:51:36
3	Tl 190.801†	-29.2	8.9	2.8219	ug/L	2.8219 ppb	16:51:56
3	U 409.014†	-3177.7	230.8	6.5593	ug/L	6.5593 ppb	16:51:36
3	V 292.402†	-1638.7	-16.4	-0.1036	ug/L	-0.1036 ppb	16:51:36
3	Zn 213.857†	682.5	17.7	0.1822	ug/L	0.1822 ppb	16:51:56
3	SiO2†	702.6	106.7	7.1093	ug/L	7.1093 ppb	16:52:11

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	820779.0	96.561	%	0.1682				0.17%
Sc Radial	4240.5	99.8	%	0.01				0.01%
Y 371.029	671179.9	95.511	%	0.0556				0.06%
Y RADIAL	4374.5	99.37	%	0.647				0.65%
Ag 328.068†	-24.9	-0.1229	ug/L	0.11464	-0.1229	ppb	0.11464	93.29%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	25.4	25.342	ug/L	12.4720	25.342	ppb	12.4720	49.21%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-5.9	-2.4707	ug/L	2.14519	-2.4707	ppb	2.14519	86.83%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	716.9	16.867	ug/L	0.2400	16.867	ppb	0.2400	1.42%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-11.8	-0.0953	ug/L	0.05440	-0.0953	ppb	0.05440	57.06%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-97.4	-0.0353	ug/L	0.00475	-0.0353	ppb	0.00475	13.44%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.0	9.4020	ug/L	7.72045	9.4020	ppb	7.72045	82.11%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -15.4     -0.1792 ug/L       0.06296     -0.1792 ppb        0.06296  35.13%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                0.3      0.0070 ug/L       0.25809      0.0070 ppb        0.25809 >999.9%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -63.2     -0.7370 ug/L       0.04941     -0.7370 ppb        0.04941   6.70%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -9.7     -0.0322 ug/L       0.06172     -0.0322 ppb        0.06172 191.44%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.0     -0.0554 ug/L      17.38448     -0.0554 ppb       17.38448 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        344.2      69.317 ug/L       12.2767      69.317 ppb        12.2767  17.71%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.8     -31.964 ug/L       46.5163     -31.964 ppb        46.5163 145.53%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              -57.8     -0.0654 ug/L       0.01520     -0.0654 ppb        0.01520  23.25%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               10.2      0.7607 ug/L       0.59033      0.7607 ppb        0.59033  77.61%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      1292.6      431.15 ug/L        19.662      431.15 ppb         19.662   4.56%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -32.8     -0.8409 ug/L       0.15622     -0.8409 ppb        0.15622  18.58%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 8.8      4.9212 ug/L       4.61812      4.9212 ppb        4.61812  93.84%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -3.4     -0.4176 ug/L       1.17619     -0.4176 ppb        1.17619 281.68%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          31.6      41.259 ug/L       17.0419      41.259 ppb        17.0419  41.30%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                9.5      3.2394 ug/L       2.55115      3.2394 ppb        2.55115  78.75%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                3.8      2.2283 ug/L       4.17463      2.2283 ppb        4.17463 187.35%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              -17.2     -0.5458 ug/L       0.45682     -0.5458 ppb        0.45682  83.70%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                9.0      1.6188 ug/L       0.13667      1.6188 ppb        0.13667   8.44%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -33.1     -0.2556 ug/L       0.37200     -0.2556 ppb        0.37200 145.52%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              125.3      0.2057 ug/L       0.24026      0.2057 ppb        0.24026 116.79%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                9.1      2.8646 ug/L       1.48054      2.8646 ppb        1.48054  51.68%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               168.3      4.7830 ug/L       1.60264      4.7830 ppb        1.60264  33.51%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                16.7      0.1406 ug/L       0.27500      0.1406 ppb        0.27500 195.53%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               16.9      0.1701 ug/L       0.07716      0.1701 ppb        0.07716  45.37%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      9.1      0.5829 ug/L       5.72808      0.5829 ppb        5.72808 982.69%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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

Autosampler Location: 1
Date Collected: 2/16/2010 17:42:05
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4291.2	4291.2	101	%			17:43:57
1	Y RADIAL	4423.9	4423.9	100.5	%			17:43:57
1	Al 396.153Radial†	4851.5	4965.0	4943.5	ug/L	4943.5	ppb	17:43:57
1	Ca 317.933Radial†	2638.3	2595.2	4841.0	ug/L	4841.0	ppb	17:44:17
1	Fe 238.204 Radial†	481.0	466.4	4972.0	ug/L	4972.0	ppb	17:44:17
1	K 766.490 Radial†	27833.3	24400.2	4919.1	ug/L	4919.1	ppb	17:43:57
1	Mg 279.077 IEC†	124.6	120.7	4661.6	ug/L	4661.6	ppb	17:44:17
1	Na 589.592 Radial†	31665.3	31160.7	10394	ug/L	10394	ppb	17:43:57
1	Sr 421.552†	65763.6	65055.9	502.28	ug/L	502.28	ppb	17:43:57
1	Sc 361.383	827279.9	827279.9	97.326	%			17:45:14
1	Y 371.029	665724.3	665724.3	94.734	%			17:45:14
1	Ag 328.068†	100688.5	103227.1	498.79	ug/L	498.79	ppb	17:45:20
1	As 188.979†	1068.8	1126.5	478.32	ug/L	478.32	ppb	17:45:40
1	B 249.677†	20618.6	21667.0	507.53	ug/L	507.53	ppb	17:45:20
1	Ba 233.527†	59085.3	60689.8	494.00	ug/L	494.00	ppb	17:45:20
1	Be 313.107†	1289047.9	1328802.5	489.21	ug/L	489.21	ppb	17:45:14
1	Cd 226.502†	39765.1	41053.1	479.98	ug/L	479.98	ppb	17:45:20
1	Co 228.616†	22929.2	23638.0	492.97	ug/L	492.97	ppb	17:45:20
1	Cr 267.716†	39984.4	40933.3	476.80	ug/L	476.80	ppb	17:45:20
1	Cu 324.752†	167829.2	164346.1	503.16	ug/L	503.16	ppb	17:45:20
1	Mn 257.610†	418135.5	429053.7	495.16	ug/L	495.16	ppb	17:45:14
1	Mo 202.031†	6333.8	6497.3	483.23	ug/L	483.23	ppb	17:45:40
1	Ni 231.604†	18495.3	18889.9	483.55	ug/L	483.55	ppb	17:45:20
1	P 214.914†	4356.9	4234.6	2251.4	ug/L	2251.4	ppb	17:45:40
1	Pb 220.353†	3651.7	3825.6	475.49	ug/L	475.49	ppb	17:45:40
1	S 181.975 Axial†	786.9	765.6	999.70	ug/L	999.70	ppb	17:45:40
1	Sb 206.836†	1412.1	1415.2	496.17	ug/L	496.17	ppb	17:45:40
1	Se 196.026†	774.8	819.4	495.64	ug/L	495.64	ppb	17:45:40
1	Si 251.611†	78232.2	79769.3	2479.9	ug/L	2479.9	ppb	17:45:20
1	Sn 189.927†	2587.0	2645.4	475.17	ug/L	475.17	ppb	17:45:40
1	Ti 334.940†	297348.4	307010.6	498.87	ug/L	498.87	ppb	17:45:20
1	Tl 190.801†	1474.4	1554.0	493.92	ug/L	493.92	ppb	17:45:40
1	U 409.014†	13831.8	17727.0	501.94	ug/L	501.94	ppb	17:45:20
1	V 292.402†	63201.8	66615.6	488.93	ug/L	488.93	ppb	17:45:20
1	Zn 213.857†	49924.1	50608.0	489.42	ug/L	489.42	ppb	17:45:20
1	SiO2†	77529.0	79039.5	5256.7	ug/L	5256.7	ppb	17:46:47
2	Sc Radial	4245.0	4245.0	99.9	%			17:44:22
2	Y RADIAL	4317.4	4317.4	98.07	%			17:44:22
2	Al 396.153Radial†	4736.1	4901.8	4880.2	ug/L	4880.2	ppb	17:44:22
2	Ca 317.933Radial†	2628.9	2614.2	4876.5	ug/L	4876.5	ppb	17:44:42
2	Fe 238.204 Radial†	486.3	476.9	5082.8	ug/L	5082.8	ppb	17:44:42
2	K 766.490 Radial†	27442.5	24309.1	4900.8	ug/L	4900.8	ppb	17:44:22
2	Mg 279.077 IEC†	131.7	129.1	4987.1	ug/L	4987.1	ppb	17:44:42
2	Na 589.592 Radial†	30980.6	30816.7	10279	ug/L	10279	ppb	17:44:22
2	Sr 421.552†	64409.3	64409.3	497.29	ug/L	497.29	ppb	17:44:22
2	Sc 361.383	826741.1	826741.1	97.263	%			17:45:46
2	Y 371.029	665697.4	665697.4	94.730	%			17:45:46
2	Ag 328.068†	98514.3	101059.2	488.39	ug/L	488.39	ppb	17:45:51
2	As 188.979†	1072.1	1130.5	479.95	ug/L	479.95	ppb	17:46:11
2	B 249.677†	20275.1	21327.6	499.56	ug/L	499.56	ppb	17:45:51
2	Ba 233.527†	57837.7	59446.7	483.89	ug/L	483.89	ppb	17:45:51
2	Be 313.107†	1293013.1	1333742.6	491.00	ug/L	491.00	ppb	17:45:46
2	Cd 226.502†	38944.7	40236.3	470.41	ug/L	470.41	ppb	17:45:51
2	Co 228.616†	22435.9	23146.2	482.74	ug/L	482.74	ppb	17:45:51
2	Cr 267.716†	39373.7	40332.1	469.80	ug/L	469.80	ppb	17:45:51
2	Cu 324.752†	163796.3	160312.0	490.82	ug/L	490.82	ppb	17:45:51
2	Mn 257.610†	418678.9	429892.4	496.13	ug/L	496.13	ppb	17:45:46
2	Mo 202.031†	6353.9	6522.3	485.10	ug/L	485.10	ppb	17:46:11
2	Ni 231.604†	18066.6	18461.5	472.59	ug/L	472.59	ppb	17:45:51

2	P 214.914†	4395.7	4277.4	2277.5 ug/L	2277.5 ppb	17:46:11
2	Pb 220.353†	3689.2	3866.5	480.55 ug/L	480.55 ppb	17:46:11
2	S 181.975 Axial†	787.5	766.7	1001.2 ug/L	1001.2 ppb	17:46:11
2	Sb 206.836†	1423.1	1427.5	500.40 ug/L	500.40 ppb	17:46:11
2	Se 196.026†	781.1	826.4	500.06 ug/L	500.06 ppb	17:46:11
2	Si 251.611†	76403.4	77941.4	2422.9 ug/L	2422.9 ppb	17:45:51
2	Sn 189.927†	2600.7	2661.3	478.03 ug/L	478.03 ppb	17:46:11
2	Ti 334.940†	290915.8	300596.2	488.43 ug/L	488.43 ppb	17:45:51
2	Tl 190.801†	1475.3	1555.9	494.50 ug/L	494.50 ppb	17:46:11
2	U 409.014†	13508.2	17403.5	492.76 ug/L	492.76 ppb	17:45:51
2	V 292.402†	61990.0	65411.9	480.23 ug/L	480.23 ppb	17:45:51
2	Zn 213.857†	48937.4	49626.9	479.92 ug/L	479.92 ppb	17:45:51
2	SiO2†	76681.9	78220.5	5202.0 ug/L	5202.0 ppb	17:46:52
3	Sc Radial	4245.6	4245.6	99.9 %		17:44:47
3	Y RADIAL	4367.2	4367.2	99.20 %		17:44:47
3	Al 396.153Radial†	4766.4	4931.4	4909.9 ug/L	4909.9 ppb	17:44:47
3	Ca 317.933Radial†	2603.4	2588.4	4828.3 ug/L	4828.3 ppb	17:45:07
3	Fe 238.204 Radial†	477.3	467.8	4986.9 ug/L	4986.9 ppb	17:45:07
3	K 766.490 Radial†	27587.9	24450.9	4929.4 ug/L	4929.4 ppb	17:44:47
3	Mg 279.077 IEC†	128.0	125.4	4843.5 ug/L	4843.5 ppb	17:45:07
3	Na 589.592 Radial†	31252.7	31084.8	10369 ug/L	10369 ppb	17:44:47
3	Sr 421.552†	64767.1	64758.4	499.98 ug/L	499.98 ppb	17:44:47
3	Sc 361.383	827186.1	827186.1	97.315 %		17:46:17
3	Y 371.029	664886.4	664886.4	94.615 %		17:46:17
3	Ag 328.068†	100893.6	103449.6	499.88 ug/L	499.88 ppb	17:46:22
3	As 188.979†	1081.6	1139.7	483.88 ug/L	483.88 ppb	17:46:42
3	B 249.677†	20801.3	21857.2	511.99 ug/L	511.99 ppb	17:46:22
3	Ba 233.527†	59243.4	60859.1	495.38 ug/L	495.38 ppb	17:46:22
3	Be 313.107†	1293600.7	1333631.2	490.99 ug/L	490.99 ppb	17:46:17
3	Cd 226.502†	39945.8	41243.4	482.20 ug/L	482.20 ppb	17:46:22
3	Co 228.616†	23038.8	23753.4	495.38 ug/L	495.38 ppb	17:46:22
3	Cr 267.716†	40181.7	41140.7	479.22 ug/L	479.22 ppb	17:46:22
3	Cu 324.752†	168061.8	164604.7	503.96 ug/L	503.96 ppb	17:46:22
3	Mn 257.610†	419779.7	430792.0	497.16 ug/L	497.16 ppb	17:46:17
3	Mo 202.031†	6352.1	6516.9	484.69 ug/L	484.69 ppb	17:46:42
3	Ni 231.604†	18546.3	18944.5	484.95 ug/L	484.95 ppb	17:46:22
3	P 214.914†	4388.7	4267.8	2269.6 ug/L	2269.6 ppb	17:46:42
3	Pb 220.353†	3673.2	3848.1	478.28 ug/L	478.28 ppb	17:46:42
3	S 181.975 Axial†	779.5	758.1	989.88 ug/L	989.88 ppb	17:46:42
3	Sb 206.836†	1405.9	1409.0	494.12 ug/L	494.12 ppb	17:46:42
3	Se 196.026†	779.9	824.8	498.82 ug/L	498.82 ppb	17:46:42
3	Si 251.611†	78366.1	79916.0	2484.4 ug/L	2484.4 ppb	17:46:22
3	Sn 189.927†	2591.6	2650.5	476.08 ug/L	476.08 ppb	17:46:42
3	Ti 334.940†	298045.7	307761.9	500.07 ug/L	500.07 ppb	17:46:22
3	Tl 190.801†	1466.5	1546.1	491.41 ug/L	491.41 ppb	17:46:42
3	U 409.014†	13687.1	17579.9	497.76 ug/L	497.76 ppb	17:46:22
3	V 292.402†	63487.7	66916.7	491.13 ug/L	491.13 ppb	17:46:22
3	Zn 213.857†	50156.6	50852.7	491.80 ug/L	491.80 ppb	17:46:22
3	SiO2†	77006.3	78511.5	5221.4 ug/L	5221.4 ppb	17:46:57

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	827069.1	97.301	%	0.0339				0.03%
Sc Radial	4260.6	100	%	0.6				0.62%
Y 371.029	665436.0	94.693	%	0.0678				0.07%
Y RADIAL	4369.5	99.26	%	1.210				1.22%
Ag 328.068†	102578.7	495.69	ug/L	6.341	495.69	ppb	6.341	1.28%
QC value within limits for Ag 328.068 Recovery = 99.14%								
Al 396.153Radial†	4932.7	4911.2	ug/L	31.68	4911.2	ppb	31.68	0.65%
QC value within limits for Al 396.153Radial Recovery = 98.22%								
As 188.979†	1132.3	480.72	ug/L	2.860	480.72	ppb	2.860	0.59%
QC value within limits for As 188.979 Recovery = 96.14%								
B 249.677†	21617.3	506.36	ug/L	6.300	506.36	ppb	6.300	1.24%
QC value within limits for B 249.677 Recovery = 101.27%								
Ba 233.527†	60331.8	491.09	ug/L	6.273	491.09	ppb	6.273	1.28%
QC value within limits for Ba 233.527 Recovery = 98.22%								
Be 313.107†	1332058.8	490.40	ug/L	1.030	490.40	ppb	1.030	0.21%
QC value within limits for Be 313.107 Recovery = 98.08%								
Ca 317.933Radial†	2599.3	4848.6	ug/L	24.99	4848.6	ppb	24.99	0.52%

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   QC value within limits for Ca 317.933Radial  Recovery = 96.97%
Cd 226.502†            40844.3      477.53 ug/L         6.268      477.53 ppb          6.268   1.31%
   QC value within limits for Cd 226.502  Recovery = 95.51%
Co 228.616†            23512.5      490.36 ug/L         6.711      490.36 ppb          6.711   1.37%
   QC value within limits for Co 228.616  Recovery = 98.07%
Cr 267.716†            40802.0      475.27 ug/L         4.891      475.27 ppb          4.891   1.03%
   QC value within limits for Cr 267.716  Recovery = 95.05%
Cu 324.752†           163087.6      499.31 ug/L         7.365      499.31 ppb          7.365   1.47%
   QC value within limits for Cu 324.752  Recovery = 99.86%
Fe 238.204 Radial†       470.4      5013.9 ug/L        60.12      5013.9 ppb         60.12   1.20%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.28%
K 766.490 Radial†      24386.7      4916.4 ug/L        14.49      4916.4 ppb         14.49   0.29%
   QC value within limits for K 766.490 Radial  Recovery = 98.33%
Mg 279.077 IEC†          125.1      4830.7 ug/L       163.10      4830.7 ppb        163.10   3.38%
   QC value within limits for Mg 279.077 IEC  Recovery = 96.61%
Mn 257.610†           429912.7      496.15 ug/L         1.000      496.15 ppb          1.000   0.20%
   QC value within limits for Mn 257.610  Recovery = 99.23%
Mo 202.031†             6512.2      484.34 ug/L         0.981      484.34 ppb          0.981   0.20%
   QC value within limits for Mo 202.031  Recovery = 96.87%
Na 589.592 Radial†     31020.7       10347 ug/L          60.3       10347 ppb           60.3   0.58%
   QC value within limits for Na 589.592 Radial  Recovery = 103.47%
Ni 231.604†            18765.3      480.36 ug/L         6.771      480.36 ppb          6.771   1.41%
   QC value within limits for Ni 231.604  Recovery = 96.07%
P 214.914†              4260.0      2266.2 ug/L        13.39      2266.2 ppb         13.39   0.59%
   QC value within limits for P 214.914  Recovery = 90.65%
Pb 220.353†             3846.7      478.11 ug/L         2.537      478.11 ppb          2.537   0.53%
   QC value within limits for Pb 220.353  Recovery = 95.62%
S 181.975 Axial†         763.5      996.91 ug/L         6.137      996.91 ppb          6.137   0.62%
   QC value within limits for S 181.975 Axial  Recovery = 99.69%
Sb 206.836†             1417.2      496.89 ug/L         3.204      496.89 ppb          3.204   0.64%
   QC value within limits for Sb 206.836  Recovery = 99.38%
Se 196.026†              823.5      498.17 ug/L         2.279      498.17 ppb          2.279   0.46%
   QC value within limits for Se 196.026  Recovery = 99.63%
Si 251.611†            79208.9      2462.4 ug/L        34.29      2462.4 ppb         34.29   1.39%
   QC value within limits for Si 251.611  Recovery = 98.50%
Sn 189.927†             2652.4      476.43 ug/L         1.459      476.43 ppb          1.459   0.31%
   QC value within limits for Sn 189.927  Recovery = 95.29%
Sr 421.552†            64741.2      499.85 ug/L         2.499      499.85 ppb          2.499   0.50%
   QC value within limits for Sr 421.552  Recovery = 99.97%
Ti 334.940†           305122.9      495.79 ug/L         6.404      495.79 ppb          6.404   1.29%
   QC value within limits for Ti 334.940  Recovery = 99.16%
Tl 190.801†             1552.0      493.28 ug/L         1.644      493.28 ppb          1.644   0.33%
   QC value within limits for Tl 190.801  Recovery = 98.66%
U 409.014†             17570.1      497.48 ug/L         4.598      497.48 ppb          4.598   0.92%
   QC value within limits for U 409.014  Recovery = 99.50%
V 292.402†             66314.7      486.76 ug/L         5.764      486.76 ppb          5.764   1.18%
   QC value within limits for V 292.402  Recovery = 97.35%
Zn 213.857†            50362.5      487.04 ug/L         6.287      487.04 ppb          6.287   1.29%
   QC value within limits for Zn 213.857  Recovery = 97.41%
SiO2†                  78590.5      5226.7 ug/L        27.71      5226.7 ppb         27.71   0.53%
   QC value within limits for SiO2  Recovery = 97.74%
All analyte(s) passed QC.
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Sequence No.: 11
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/16/2010 17:49:07
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4186.7	4186.7	98.5	%			17:50:59
1	Y RADIAL	4336.4	4336.4	98.50	%			17:50:59
1	Al 396.153Radial†	-123.0	34.1	34.021	ug/L	34.021	ppb	17:51:19
1	Ca 317.933Radial†	22.6	4.6	8.6430	ug/L	8.6430	ppb	17:51:19
1	Fe 238.204 Radial†	10.4	0.5	5.4827	ug/L	5.4827	ppb	17:51:19
1	K 766.490 Radial†	3424.7	305.5	61.539	ug/L	61.539	ppb	17:50:59
1	Mg 279.077 IEC†	2.1	-0.6	-22.787	ug/L	-22.787	ppb	17:51:19
1	Na 589.592 Radial†	1212.0	1023.5	341.40	ug/L	341.40	ppb	17:50:59
1	Sr 421.552†	97.7	9.4	0.0723	ug/L	0.0723	ppb	17:50:59
1	Sc 361.383	811380.9	811380.9	95.456	%			17:52:16
1	Y 371.029	660963.2	660963.2	94.057	%			17:52:16
1	Ag 328.068†	168.5	-51.2	-0.2444	ug/L	-0.2444	ppb	17:52:16
1	As 188.979†	-32.0	-5.2	-2.1728	ug/L	-2.1728	ppb	17:52:36
1	B 249.677†	211.3	703.3	16.544	ug/L	16.544	ppb	17:52:36
1	Ba 233.527†	34.0	16.8	0.1363	ug/L	0.1363	ppb	17:52:36
1	Be 313.107†	-4234.3	-96.8	-0.0347	ug/L	-0.0347	ppb	17:52:16
1	Cd 226.502†	-192.3	-5.9	-0.0701	ug/L	-0.0701	ppb	17:52:36
1	Co 228.616†	-67.6	8.0	0.1722	ug/L	0.1722	ppb	17:52:36
1	Cr 267.716†	82.4	-63.3	-0.7367	ug/L	-0.7367	ppb	17:52:36
1	Cu 324.752†	7736.3	10.5	0.0321	ug/L	0.0321	ppb	17:52:16
1	Mn 257.610†	681.0	143.7	0.1672	ug/L	0.1672	ppb	17:52:36
1	Mo 202.031†	39.7	31.1	2.3139	ug/L	2.3139	ppb	17:52:36
1	Ni 231.604†	105.0	-3.6	-0.0914	ug/L	-0.0914	ppb	17:52:36
1	P 214.914†	247.8	17.6	9.8001	ug/L	9.8001	ppb	17:52:36
1	Pb 220.353†	-73.0	-2.9	-0.3458	ug/L	-0.3458	ppb	17:52:36
1	S 181.975 Axial†	66.7	26.9	35.180	ug/L	35.180	ppb	17:52:36
1	Sb 206.836†	42.7	9.0	3.1439	ug/L	3.1439	ppb	17:52:36
1	Se 196.026†	-20.0	2.4	1.4004	ug/L	1.4004	ppb	17:52:36
1	Si 251.611†	703.8	125.0	3.8663	ug/L	3.8663	ppb	17:52:36
1	Sn 189.927†	26.4	15.0	2.6975	ug/L	2.6975	ppb	17:52:36
1	Ti 334.940†	-1208.0	227.4	0.3728	ug/L	0.3728	ppb	17:52:16
1	Tl 190.801†	-30.1	7.6	2.3946	ug/L	2.3946	ppb	17:52:36
1	U 409.014†	-3341.8	14.3	0.4071	ug/L	0.4071	ppb	17:52:16
1	V 292.402†	-1601.9	-0.9	0.0256	ug/L	0.0256	ppb	17:52:16
1	Zn 213.857†	690.0	35.1	0.3423	ug/L	0.3423	ppb	17:52:36
1	SiO2†	720.3	135.1	8.9438	ug/L	8.9438	ppb	17:53:32
2	Sc Radial	4192.9	4192.9	98.6	%			17:51:24
2	Y RADIAL	4318.4	4318.4	98.10	%			17:51:24
2	Al 396.153Radial†	-129.0	28.3	28.183	ug/L	28.183	ppb	17:51:44
2	Ca 317.933Radial†	21.5	3.5	6.5283	ug/L	6.5283	ppb	17:51:44
2	Fe 238.204 Radial†	9.6	-0.3	-3.0504	ug/L	-3.0504	ppb	17:51:44
2	K 766.490 Radial†	3425.1	300.9	60.590	ug/L	60.590	ppb	17:51:24
2	Mg 279.077 IEC†	-0.2	-2.9	-111.06	ug/L	-111.06	ppb	17:51:44
2	Na 589.592 Radial†	1318.2	1129.4	376.71	ug/L	376.71	ppb	17:51:24
2	Sr 421.552†	54.2	-34.8	-0.2691	ug/L	-0.2691	ppb	17:51:24
2	Sc 361.383	821459.4	821459.4	96.641	%			17:52:41
2	Y 371.029	670037.3	670037.3	95.348	%			17:52:41
2	Ag 328.068†	254.9	36.1	0.1655	ug/L	0.1655	ppb	17:52:41
2	As 188.979†	-24.5	3.0	1.2475	ug/L	1.2475	ppb	17:53:01
2	B 249.677†	190.0	678.5	15.961	ug/L	15.961	ppb	17:53:01
2	Ba 233.527†	29.4	11.6	0.0953	ug/L	0.0953	ppb	17:53:01
2	Be 313.107†	-4304.6	-115.1	-0.0416	ug/L	-0.0416	ppb	17:52:41
2	Cd 226.502†	-184.6	4.5	0.0544	ug/L	0.0544	ppb	17:53:01
2	Co 228.616†	-50.0	27.1	0.5698	ug/L	0.5698	ppb	17:53:01
2	Cr 267.716†	73.5	-73.7	-0.8607	ug/L	-0.8607	ppb	17:53:01
2	Cu 324.752†	7709.6	-116.6	-0.3630	ug/L	-0.3630	ppb	17:52:41
2	Mn 257.610†	645.2	97.9	0.1171	ug/L	0.1171	ppb	17:53:01
2	Mo 202.031†	32.3	23.0	1.7087	ug/L	1.7087	ppb	17:53:01
2	Ni 231.604†	92.9	-17.4	-0.4455	ug/L	-0.4455	ppb	17:53:01

2	P 214.914†	246.5	13.1	7.3672 ug/L	7.3672 ppb	17:53:01
2	Pb 220.353†	-63.9	7.4	0.9327 ug/L	0.9327 ppb	17:53:01
2	S 181.975 Axial†	66.2	25.6	33.433 ug/L	33.433 ppb	17:53:01
2	Sb 206.836†	42.5	8.3	2.8841 ug/L	2.8841 ppb	17:53:01
2	Se 196.026†	-25.6	-3.2	-1.8631 ug/L	-1.8631 ppb	17:53:01
2	Si 251.611†	692.4	104.2	3.2258 ug/L	3.2258 ppb	17:53:01
2	Sn 189.927†	29.6	18.0	3.2271 ug/L	3.2271 ppb	17:53:01
2	Ti 334.940†	-1255.4	193.9	0.3206 ug/L	0.3206 ppb	17:52:41
2	Tl 190.801†	-38.0	-0.2	-0.0617 ug/L	-0.0617 ppb	17:53:01
2	U 409.014†	-3028.7	381.2	10.832 ug/L	10.832 ppb	17:52:41
2	V 292.402†	-1549.9	73.5	0.5757 ug/L	0.5757 ppb	17:52:41
2	Zn 213.857†	700.5	37.1	0.3661 ug/L	0.3661 ppb	17:53:01
2	SiO2†	725.8	131.5	8.7219 ug/L	8.7219 ppb	17:53:37
3	Sc Radial	4258.0	4258.0	100 %		17:51:49
3	Y RADIAL	4401.6	4401.6	99.99 %		17:51:49
3	Al 396.153Radial†	-113.0	46.3	46.224 ug/L	46.224 ppb	17:52:09
3	Ca 317.933Radial†	22.1	3.8	7.0412 ug/L	7.0412 ppb	17:52:09
3	Fe 238.204 Radial†	10.6	0.5	5.8398 ug/L	5.8398 ppb	17:52:09
3	K 766.490 Radial†	3285.1	108.0	21.651 ug/L	21.651 ppb	17:51:49
3	Mg 279.077 IEC†	2.3	-0.4	-14.351 ug/L	-14.351 ppb	17:52:09
3	Na 589.592 Radial†	1390.8	1181.4	394.06 ug/L	394.06 ppb	17:51:49
3	Sr 421.552†	76.0	-13.9	-0.1075 ug/L	-0.1075 ppb	17:51:49
3	Sc 361.383	820983.8	820983.8	96.585 %		17:53:06
3	Y 371.029	668675.9	668675.9	95.154 %		17:53:06
3	Ag 328.068†	258.8	40.3	0.1956 ug/L	0.1956 ppb	17:53:06
3	As 188.979†	-35.2	-8.1	-3.4017 ug/L	-3.4017 ppb	17:53:26
3	B 249.677†	164.0	651.7	15.330 ug/L	15.330 ppb	17:53:26
3	Ba 233.527†	68.8	52.4	0.4271 ug/L	0.4271 ppb	17:53:26
3	Be 313.107†	-4378.9	-194.6	-0.0710 ug/L	-0.0710 ppb	17:53:06
3	Cd 226.502†	-202.3	-13.9	-0.1630 ug/L	-0.1630 ppb	17:53:26
3	Co 228.616†	-70.4	5.9	0.1262 ug/L	0.1262 ppb	17:53:26
3	Cr 267.716†	103.8	-42.3	-0.4918 ug/L	-0.4918 ppb	17:53:26
3	Cu 324.752†	7665.1	-158.0	-0.4847 ug/L	-0.4847 ppb	17:53:06
3	Mn 257.610†	769.9	227.3	0.2634 ug/L	0.2634 ppb	17:53:26
3	Mo 202.031†	23.5	13.8	1.0284 ug/L	1.0284 ppb	17:53:26
3	Ni 231.604†	104.6	-5.2	-0.1335 ug/L	-0.1335 ppb	17:53:26
3	P 214.914†	247.7	14.5	8.1556 ug/L	8.1556 ppb	17:53:26
3	Pb 220.353†	-68.8	2.4	0.3051 ug/L	0.3051 ppb	17:53:26
3	S 181.975 Axial†	67.5	27.0	35.230 ug/L	35.230 ppb	17:53:26
3	Sb 206.836†	41.6	7.4	2.5564 ug/L	2.5564 ppb	17:53:26
3	Se 196.026†	-19.9	2.8	1.6401 ug/L	1.6401 ppb	17:53:26
3	Si 251.611†	797.5	213.4	6.6377 ug/L	6.6377 ppb	17:53:26
3	Sn 189.927†	21.7	9.9	1.7705 ug/L	1.7705 ppb	17:53:26
3	Ti 334.940†	-1328.1	117.8	0.1927 ug/L	0.1927 ppb	17:53:06
3	Tl 190.801†	-31.5	6.4	2.0368 ug/L	2.0368 ppb	17:53:26
3	U 409.014†	-3310.2	87.9	2.4983 ug/L	2.4983 ppb	17:53:06
3	V 292.402†	-1542.9	79.9	0.5968 ug/L	0.5968 ppb	17:53:06
3	Zn 213.857†	696.0	32.9	0.3216 ug/L	0.3216 ppb	17:53:26
3	SiO2†	737.1	143.7	9.5514 ug/L	9.5514 ppb	17:53:42

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	817941.4	96.227	%	0.6690				0.70%
Sc Radial	4212.5	99.1	%	0.93				0.94%
Y 371.029	666558.8	94.853	%	0.6964				0.73%
Y RADIAL	4352.1	98.86	%	0.994				1.01%
Ag 328.068†	8.4	0.0389	ug/L	0.24582	0.0389	ppb	0.24582	632.22%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	36.2	36.143	ug/L	9.2056	36.143	ppb	9.2056	25.47%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.4	-1.4423	ug/L	2.40912	-1.4423	ppb	2.40912	167.03%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	677.8	15.945	ug/L	0.6070	15.945	ppb	0.6070	3.81%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	26.9	0.2195	ug/L	0.18089	0.2195	ppb	0.18089	82.39%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-135.5	-0.0491	ug/L	0.01930	-0.0491	ppb	0.01930	39.31%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	4.0	7.4042	ug/L	1.10309	7.4042	ppb	1.10309	14.90%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                -5.1     -0.0596 ug/L       0.10906     -0.0596 ppb        0.10906 183.09%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                13.7      0.2894 ug/L       0.24396      0.2894 ppb        0.24396  84.30%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -59.8     -0.6964 ug/L       0.18772     -0.6964 ppb        0.18772  26.96%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -88.0     -0.2719 ug/L       0.27023     -0.2719 ppb        0.27023  99.40%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.3      2.7573 ug/L       5.03282      2.7573 ppb        5.03282 182.52%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         238.2      47.927 ug/L       22.7603      47.927 ppb        22.7603  47.49%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -1.3     -49.401 ug/L       53.5682     -49.401 ppb        53.5682 108.44%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               156.3      0.1826 ug/L       0.07432      0.1826 ppb        0.07432  40.71%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                22.7      1.6837 ug/L       0.64311      1.6837 ppb        0.64311  38.20%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       1111.4      370.72 ug/L        26.836      370.72 ppb         26.836   7.24%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -8.7     -0.2235 ug/L       0.19343     -0.2235 ppb        0.19343  86.55%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 15.1      8.4409 ug/L       1.24132      8.4409 ppb        1.24132  14.71%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 2.3      0.2973 ug/L       0.63925      0.2973 ppb        0.63925 215.00%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           26.5      34.614 ug/L        1.0232      34.614 ppb         1.0232   2.96%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 8.2      2.8615 ug/L       0.29438      2.8615 ppb        0.29438  10.29%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 0.6      0.3925 ug/L       1.95704      0.3925 ppb        1.95704 498.64%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               147.5      4.5766 ug/L       1.81347      4.5766 ppb        1.81347  39.62%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                14.3      2.5650 ug/L       0.73726      2.5650 ppb        0.73726  28.74%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -13.1     -0.1015 ug/L       0.17075     -0.1015 ppb        0.17075 168.31%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               179.7      0.2954 ug/L       0.09265      0.2954 ppb        0.09265  31.37%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 4.6      1.4566 ug/L       1.32694      1.4566 ppb        1.32694  91.10%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                161.2      4.5792 ug/L       5.51537      4.5792 ppb        5.51537 120.44%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                 50.8      0.3994 ug/L       0.32387      0.3994 ppb        0.32387  81.09%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                35.0      0.3433 ug/L       0.02226      0.3433 ppb        0.02226   6.49%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     136.8      9.0724 ug/L       0.42939      9.0724 ppb        0.42939   4.73%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Sequence No.: 19
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/16/2010 18:44:43
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4423.7	4423.7	104	%			18:46:35
1	Y RADIAL	4513.0	4513.0	102.5	%			18:46:35
1	Al 396.153Radial†	4727.0	4701.3	4680.0	ug/L	4680.0	ppb	18:46:35
1	Ca 317.933Radial†	2634.5	2513.3	4688.2	ug/L	4688.2	ppb	18:46:55
1	Fe 238.204 Radial†	492.4	463.1	4935.9	ug/L	4935.9	ppb	18:46:55
1	K 766.490 Radial†	27446.5	23202.6	4677.6	ug/L	4677.6	ppb	18:46:35
1	Mg 279.077 IEC†	127.9	120.2	4643.1	ug/L	4643.1	ppb	18:46:55
1	Na 589.592 Radial†	31156.4	29732.1	9917.4	ug/L	9917.4	ppb	18:46:35
1	Sr 421.552†	64585.8	61972.8	478.47	ug/L	478.47	ppb	18:46:35
1	Sc 361.383	840521.3	840521.3	98.884	%			18:47:52
1	Y 371.029	675506.7	675506.7	96.126	%			18:47:52
1	Ag 328.068†	100445.9	101352.0	489.77	ug/L	489.77	ppb	18:47:58
1	As 188.979†	1085.8	1126.4	478.20	ug/L	478.20	ppb	18:48:18
1	B 249.677†	20236.8	20947.2	490.62	ug/L	490.62	ppb	18:47:58
1	Ba 233.527†	59244.5	59894.4	487.52	ug/L	487.52	ppb	18:47:58
1	Be 313.107†	1307828.8	1326930.1	488.50	ug/L	488.50	ppb	18:47:52
1	Cd 226.502†	39865.2	40510.6	473.63	ug/L	473.63	ppb	18:47:58
1	Co 228.616†	22938.6	23276.4	485.44	ug/L	485.44	ppb	18:47:58
1	Cr 267.716†	40172.0	40475.8	471.47	ug/L	471.47	ppb	18:47:58
1	Cu 324.752†	166882.5	160672.1	491.92	ug/L	491.92	ppb	18:47:58
1	Mn 257.610†	423367.2	427576.2	493.46	ug/L	493.46	ppb	18:47:52
1	Mo 202.031†	6375.1	6436.6	478.72	ug/L	478.72	ppb	18:48:18
1	Ni 231.604†	18538.2	18633.9	477.00	ug/L	477.00	ppb	18:47:58
1	P 214.914†	4413.6	4221.4	2246.2	ug/L	2246.2	ppb	18:48:18
1	Pb 220.353†	3709.8	3825.2	475.39	ug/L	475.39	ppb	18:48:18
1	S 181.975 Axial†	784.3	750.2	979.60	ug/L	979.60	ppb	18:48:18
1	Sb 206.836†	1416.0	1396.3	489.61	ug/L	489.61	ppb	18:48:18
1	Se 196.026†	780.4	812.6	491.51	ug/L	491.51	ppb	18:48:18
1	Si 251.611†	77739.8	78005.0	2424.9	ug/L	2424.9	ppb	18:47:58
1	Sn 189.927†	2601.2	2618.0	470.22	ug/L	470.22	ppb	18:48:18
1	Ti 334.940†	297176.5	302023.8	490.75	ug/L	490.75	ppb	18:47:58
1	Tl 190.801†	1485.9	1541.8	490.03	ug/L	490.03	ppb	18:48:18
1	U 409.014†	13544.9	17212.9	487.35	ug/L	487.35	ppb	18:47:58
1	V 292.402†	63437.4	65830.7	483.17	ug/L	483.17	ppb	18:47:58
1	Zn 213.857†	50043.4	49920.5	482.77	ug/L	482.77	ppb	18:47:58
1	SiO2†	77280.2	77533.0	5156.3	ug/L	5156.3	ppb	18:49:25
2	Sc Radial	4311.3	4311.3	101	%			18:47:00
2	Y RADIAL	4408.3	4408.3	100.1	%			18:47:00
2	Al 396.153Radial†	4858.5	4949.5	4928.2	ug/L	4928.2	ppb	18:47:00
2	Ca 317.933Radial†	2637.7	2582.5	4817.3	ug/L	4817.3	ppb	18:47:20
2	Fe 238.204 Radial†	488.8	471.9	5029.5	ug/L	5029.5	ppb	18:47:20
2	K 766.490 Radial†	27776.7	24216.2	4882.0	ug/L	4882.0	ppb	18:47:00
2	Mg 279.077 IEC†	131.7	127.1	4909.4	ug/L	4909.4	ppb	18:47:20
2	Na 589.592 Radial†	31395.1	30748.4	10256	ug/L	10256	ppb	18:47:00
2	Sr 421.552†	66222.7	65205.6	503.44	ug/L	503.44	ppb	18:47:00
2	Sc 361.383	839711.8	839711.8	98.789	%			18:48:23
2	Y 371.029	674614.5	674614.5	95.999	%			18:48:23
2	Ag 328.068†	100390.7	101394.0	489.99	ug/L	489.99	ppb	18:48:29
2	As 188.979†	1093.6	1135.4	481.98	ug/L	481.98	ppb	18:48:49
2	B 249.677†	20299.3	21030.1	492.56	ug/L	492.56	ppb	18:48:29
2	Ba 233.527†	58826.5	59529.0	484.55	ug/L	484.55	ppb	18:48:29
2	Be 313.107†	1303952.9	1324281.7	487.53	ug/L	487.53	ppb	18:48:23
2	Cd 226.502†	39591.9	40272.9	470.84	ug/L	470.84	ppb	18:48:29
2	Co 228.616†	22844.4	23203.4	483.92	ug/L	483.92	ppb	18:48:29
2	Cr 267.716†	39933.1	40273.1	469.11	ug/L	469.11	ppb	18:48:29
2	Cu 324.752†	166992.8	160946.5	492.77	ug/L	492.77	ppb	18:48:29
2	Mn 257.610†	422025.1	426630.5	492.36	ug/L	492.36	ppb	18:48:23
2	Mo 202.031†	6372.3	6440.0	478.98	ug/L	478.98	ppb	18:48:49
2	Ni 231.604†	18364.8	18476.5	472.97	ug/L	472.97	ppb	18:48:29

2	P 214.914†	4413.1	4225.3	2248.2 ug/L	2248.2 ppb	18:48:49
2	Pb 220.353†	3723.3	3842.5	477.57 ug/L	477.57 ppb	18:48:49
2	S 181.975 Axial†	781.2	747.8	976.48 ug/L	976.48 ppb	18:48:49
2	Sb 206.836†	1411.2	1392.8	488.42 ug/L	488.42 ppb	18:48:49
2	Se 196.026†	790.2	823.2	498.04 ug/L	498.04 ppb	18:48:49
2	Si 251.611†	77687.9	78028.2	2425.7 ug/L	2425.7 ppb	18:48:29
2	Sn 189.927†	2598.8	2618.1	470.26 ug/L	470.26 ppb	18:48:49
2	Ti 334.940†	296136.0	301260.2	489.51 ug/L	489.51 ppb	18:48:29
2	Tl 190.801†	1499.3	1556.8	494.74 ug/L	494.74 ppb	18:48:49
2	U 409.014†	13476.0	17156.4	485.74 ug/L	485.74 ppb	18:48:29
2	V 292.402†	63050.1	65500.6	480.78 ug/L	480.78 ppb	18:48:29
2	Zn 213.857†	49729.4	49651.4	480.16 ug/L	480.16 ppb	18:48:29
2	SiO2†	77417.6	77747.4	5170.6 ug/L	5170.6 ppb	18:49:30
3	Sc Radial	4291.4	4291.4	101 %		18:47:25
3	Y RADIAL	4371.3	4371.3	99.30 %		18:47:25
3	Al 396.153Radial†	4797.9	4911.7	4890.2 ug/L	4890.2 ppb	18:47:25
3	Ca 317.933Radial†	2641.8	2598.5	4847.2 ug/L	4847.2 ppb	18:47:45
3	Fe 238.204 Radial†	496.0	481.3	5129.2 ug/L	5129.2 ppb	18:47:45
3	K 766.490 Radial†	27551.8	24119.9	4862.5 ug/L	4862.5 ppb	18:47:25
3	Mg 279.077 IEC†	129.2	125.3	4839.0 ug/L	4839.0 ppb	18:47:45
3	Na 589.592 Radial†	31649.0	31142.9	10388 ug/L	10388 ppb	18:47:25
3	Sr 421.552†	65026.2	64322.0	496.61 ug/L	496.61 ppb	18:47:25
3	Sc 361.383	834625.9	834625.9	98.190 %		18:48:55
3	Y 371.029	671402.6	671402.6	95.542 %		18:48:55
3	Ag 328.068†	100021.7	101637.5	491.19 ug/L	491.19 ppb	18:49:00
3	As 188.979†	1090.7	1139.1	483.57 ug/L	483.57 ppb	18:49:20
3	B 249.677†	20285.8	21141.6	495.16 ug/L	495.16 ppb	18:49:00
3	Ba 233.527†	58838.5	59904.2	487.61 ug/L	487.61 ppb	18:49:00
3	Be 313.107†	1300745.2	1329058.3	489.29 ug/L	489.29 ppb	18:48:55
3	Cd 226.502†	39448.5	40371.0	471.98 ug/L	471.98 ppb	18:49:00
3	Co 228.616†	22794.8	23293.8	485.81 ug/L	485.81 ppb	18:49:00
3	Cr 267.716†	39887.7	40473.2	471.44 ug/L	471.44 ppb	18:49:00
3	Cu 324.752†	166532.4	161507.7	494.49 ug/L	494.49 ppb	18:49:00
3	Mn 257.610†	420682.4	427866.2	493.80 ug/L	493.80 ppb	18:48:55
3	Mo 202.031†	6379.6	6486.7	482.46 ug/L	482.46 ppb	18:49:20
3	Ni 231.604†	18351.2	18575.9	475.51 ug/L	475.51 ppb	18:49:00
3	P 214.914†	4419.2	4258.7	2266.3 ug/L	2266.3 ppb	18:49:20
3	Pb 220.353†	3705.0	3846.9	478.11 ug/L	478.11 ppb	18:49:20
3	S 181.975 Axial†	772.4	743.8	971.14 ug/L	971.14 ppb	18:49:20
3	Sb 206.836†	1428.0	1418.6	497.29 ug/L	497.29 ppb	18:49:20
3	Se 196.026†	790.1	828.0	501.12 ug/L	501.12 ppb	18:49:20
3	Si 251.611†	77443.1	78258.2	2432.8 ug/L	2432.8 ppb	18:49:00
3	Sn 189.927†	2608.9	2644.4	474.99 ug/L	474.99 ppb	18:49:20
3	Ti 334.940†	295445.4	302383.7	491.34 ug/L	491.34 ppb	18:49:00
3	Tl 190.801†	1495.0	1561.7	496.32 ug/L	496.32 ppb	18:49:20
3	U 409.014†	13600.7	17366.5	491.70 ug/L	491.70 ppb	18:49:00
3	V 292.402†	62855.0	65690.8	482.19 ug/L	482.19 ppb	18:49:00
3	Zn 213.857†	49706.3	49934.7	482.89 ug/L	482.89 ppb	18:49:00
3	SiO2†	78140.6	78961.3	5251.5 ug/L	5251.5 ppb	18:49:35

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	838286.3	98.621	%	0.3760				0.38%
Sc Radial	4342.1	102	%	1.7				1.64%
Y 371.029	673841.3	95.889	%	0.3072				0.32%
Y RADIAL	4430.9	100.7	%	1.67				1.66%
Ag 328.068†	101461.2	490.32	ug/L	0.767	490.32	ppb	0.767	0.16%
QC value within limits for Ag 328.068 Recovery = 98.06%								
Al 396.153Radial†	4854.2	4832.8	ug/L	133.73	4832.8	ppb	133.73	2.77%
QC value within limits for Al 396.153Radial Recovery = 96.66%								
As 188.979†	1133.6	481.25	ug/L	2.759	481.25	ppb	2.759	0.57%
QC value within limits for As 188.979 Recovery = 96.25%								
B 249.677†	21039.6	492.78	ug/L	2.279	492.78	ppb	2.279	0.46%
QC value within limits for B 249.677 Recovery = 98.56%								
Ba 233.527†	59775.9	486.56	ug/L	1.739	486.56	ppb	1.739	0.36%
QC value within limits for Ba 233.527 Recovery = 97.31%								
Be 313.107†	1326756.7	488.44	ug/L	0.881	488.44	ppb	0.881	0.18%
QC value within limits for Be 313.107 Recovery = 97.69%								
Ca 317.933Radial†	2564.8	4784.2	ug/L	84.51	4784.2	ppb	84.51	1.77%

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   QC value within limits for Ca 317.933Radial  Recovery = 95.68%
Cd 226.502†            40384.8      472.15 ug/L         1.404      472.15 ppb          1.404   0.30%
   QC value within limits for Cd 226.502  Recovery = 94.43%
Co 228.616†            23257.9      485.05 ug/L         1.001      485.05 ppb          1.001   0.21%
   QC value within limits for Co 228.616  Recovery = 97.01%
Cr 267.716†            40407.3      470.68 ug/L         1.354      470.68 ppb          1.354   0.29%
   QC value within limits for Cr 267.716  Recovery = 94.14%
Cu 324.752†           161042.1      493.06 ug/L         1.308      493.06 ppb          1.308   0.27%
   QC value within limits for Cu 324.752  Recovery = 98.61%
Fe 238.204 Radial†       472.1      5031.5 ug/L        96.66      5031.5 ppb         96.66   1.92%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.63%
K 766.490 Radial†      23846.2      4807.4 ug/L       112.82      4807.4 ppb        112.82   2.35%
   QC value within limits for K 766.490 Radial  Recovery = 96.15%
Mg 279.077 IEC†          124.2      4797.2 ug/L       138.02      4797.2 ppb        138.02   2.88%
   QC value within limits for Mg 279.077 IEC  Recovery = 95.94%
Mn 257.610†           427357.6      493.21 ug/L         0.751      493.21 ppb          0.751   0.15%
   QC value within limits for Mn 257.610  Recovery = 98.64%
Mo 202.031†             6454.4      480.05 ug/L         2.090      480.05 ppb          2.090   0.44%
   QC value within limits for Mo 202.031  Recovery = 96.01%
Na 589.592 Radial†     30541.1       10187 ug/L       242.8       10187 ppb        242.8   2.38%
   QC value within limits for Na 589.592 Radial  Recovery = 101.87%
Ni 231.604†            18562.1      475.16 ug/L         2.039      475.16 ppb          2.039   0.43%
   QC value within limits for Ni 231.604  Recovery = 95.03%
P 214.914†              4235.1      2253.6 ug/L        11.08      2253.6 ppb         11.08   0.49%
   QC value within limits for P 214.914  Recovery = 90.14%
Pb 220.353†             3838.2      477.02 ug/L         1.441      477.02 ppb          1.441   0.30%
   QC value within limits for Pb 220.353  Recovery = 95.40%
S 181.975 Axial†         747.3      975.74 ug/L         4.276      975.74 ppb          4.276   0.44%
   QC value within limits for S 181.975 Axial  Recovery = 97.57%
Sb 206.836†             1402.6      491.77 ug/L         4.816      491.77 ppb          4.816   0.98%
   QC value within limits for Sb 206.836  Recovery = 98.35%
Se 196.026†              821.3      496.89 ug/L         4.906      496.89 ppb          4.906   0.99%
   QC value within limits for Se 196.026  Recovery = 99.38%
Si 251.611†            78097.1      2427.8 ug/L          4.34      2427.8 ppb           4.34   0.18%
   QC value within limits for Si 251.611  Recovery = 97.11%
Sn 189.927†             2626.8      471.83 ug/L         2.739      471.83 ppb          2.739   0.58%
   QC value within limits for Sn 189.927  Recovery = 94.37%
Sr 421.552†            63833.5      492.84 ug/L        12.901      492.84 ppb         12.901   2.62%
   QC value within limits for Sr 421.552  Recovery = 98.57%
Ti 334.940†           301889.2      490.53 ug/L         0.935      490.53 ppb          0.935   0.19%
   QC value within limits for Ti 334.940  Recovery = 98.11%
Tl 190.801†             1553.4      493.70 ug/L         3.269      493.70 ppb          3.269   0.66%
   QC value within limits for Tl 190.801  Recovery = 98.74%
U 409.014†             17245.3      488.26 ug/L         3.079      488.26 ppb          3.079   0.63%
   QC value within limits for U 409.014  Recovery = 97.65%
V 292.402†             65674.0      482.05 ug/L         1.205      482.05 ppb          1.205   0.25%
   QC value within limits for V 292.402  Recovery = 96.41%
Zn 213.857†            49835.6      481.94 ug/L         1.545      481.94 ppb          1.545   0.32%
   QC value within limits for Zn 213.857  Recovery = 96.39%
SiO2†                  78080.6      5192.8 ug/L        51.30      5192.8 ppb         51.30   0.99%
   QC value within limits for SiO2  Recovery = 97.11%
All analyte(s) passed QC.
```

Sequence No.: 20
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/16/2010 18:51:45
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4404.2	4404.2	104	%			18:53:37
1	Y RADIAL	4505.0	4505.0	102.3	%			18:53:37
1	Al 396.153Radial†	-129.6	33.9	33.937	ug/L	33.937	ppb	18:53:57
1	Ca 317.933Radial†	25.2	6.0	11.266	ug/L	11.266	ppb	18:53:57
1	Fe 238.204 Radial†	7.5	-2.8	-30.036	ug/L	-30.036	ppb	18:53:57
1	K 766.490 Radial†	3285.1	-0.8	-0.3042	ug/L	-0.3042	ppb	18:53:37
1	Mg 279.077 IEC†	4.2	1.4	53.368	ug/L	53.368	ppb	18:53:57
1	Na 589.592 Radial†	1262.3	1011.3	337.32	ug/L	337.32	ppb	18:53:37
1	Sr 421.552†	145.0	50.1	0.3871	ug/L	0.3871	ppb	18:53:37
1	Sc 361.383	819612.9	819612.9	96.424	%			18:54:54
1	Y 371.029	667058.4	667058.4	94.924	%			18:54:54
1	Ag 328.068†	139.6	-82.9	-0.4117	ug/L	-0.4117	ppb	18:54:54
1	As 188.979†	-25.1	2.3	0.9633	ug/L	0.9633	ppb	18:55:14
1	B 249.677†	-59.7	420.0	9.8855	ug/L	9.8855	ppb	18:55:14
1	Ba 233.527†	19.7	1.6	0.0132	ug/L	0.0132	ppb	18:55:14
1	Be 313.107†	-4266.3	-85.4	-0.0305	ug/L	-0.0305	ppb	18:54:54
1	Cd 226.502†	-208.0	-20.2	-0.2317	ug/L	-0.2317	ppb	18:55:14
1	Co 228.616†	-71.1	5.1	0.1073	ug/L	0.1073	ppb	18:55:14
1	Cr 267.716†	89.7	-56.7	-0.6616	ug/L	-0.6616	ppb	18:55:14
1	Cu 324.752†	7652.6	-157.7	-0.4882	ug/L	-0.4882	ppb	18:54:54
1	Mn 257.610†	713.1	169.8	0.1907	ug/L	0.1907	ppb	18:55:14
1	Mo 202.031†	14.0	4.1	0.2992	ug/L	0.2992	ppb	18:55:14
1	Ni 231.604†	101.2	-8.5	-0.2187	ug/L	-0.2187	ppb	18:55:14
1	P 214.914†	223.7	-10.0	-5.4118	ug/L	-5.4118	ppb	18:55:14
1	Pb 220.353†	-62.7	8.5	1.0653	ug/L	1.0653	ppb	18:55:14
1	S 181.975 Axial†	64.7	24.2	31.673	ug/L	31.673	ppb	18:55:14
1	Sb 206.836†	42.8	8.7	2.9975	ug/L	2.9975	ppb	18:55:14
1	Se 196.026†	-15.3	7.4	4.2439	ug/L	4.2439	ppb	18:55:14
1	Si 251.611†	623.9	34.7	1.0774	ug/L	1.0774	ppb	18:55:14
1	Sn 189.927†	27.7	16.1	2.8833	ug/L	2.8833	ppb	18:55:14
1	Ti 334.940†	-1204.6	243.6	0.3903	ug/L	0.3903	ppb	18:54:54
1	Tl 190.801†	-27.5	10.6	3.3517	ug/L	3.3517	ppb	18:55:14
1	U 409.014†	-3151.7	246.6	7.0089	ug/L	7.0089	ppb	18:54:54
1	V 292.402†	-1536.4	83.9	0.6306	ug/L	0.6306	ppb	18:54:54
1	Zn 213.857†	703.2	41.5	0.4120	ug/L	0.4120	ppb	18:55:14
1	SiO2†	613.7	16.9	1.1196	ug/L	1.1196	ppb	18:56:10
2	Sc Radial	4352.1	4352.1	102	%			18:54:02
2	Y RADIAL	4491.6	4491.6	102.0	%			18:54:02
2	Al 396.153Radial†	-126.5	35.5	35.486	ug/L	35.486	ppb	18:54:22
2	Ca 317.933Radial†	20.4	1.6	3.0645	ug/L	3.0645	ppb	18:54:22
2	Fe 238.204 Radial†	12.1	1.8	18.919	ug/L	18.919	ppb	18:54:22
2	K 766.490 Radial†	3343.2	93.9	18.830	ug/L	18.830	ppb	18:54:02
2	Mg 279.077 IEC†	-0.3	-3.1	-118.05	ug/L	-118.05	ppb	18:54:22
2	Na 589.592 Radial†	1133.2	899.8	300.14	ug/L	300.14	ppb	18:54:02
2	Sr 421.552†	75.2	-16.3	-0.1261	ug/L	-0.1261	ppb	18:54:02
2	Sc 361.383	824141.6	824141.6	96.957	%			18:55:19
2	Y 371.029	670121.5	670121.5	95.360	%			18:55:19
2	Ag 328.068†	259.0	39.4	0.1829	ug/L	0.1829	ppb	18:55:19
2	As 188.979†	-28.2	-0.7	-0.3009	ug/L	-0.3009	ppb	18:55:39
2	B 249.677†	-78.7	400.7	9.4234	ug/L	9.4234	ppb	18:55:39
2	Ba 233.527†	16.5	-1.8	-0.0150	ug/L	-0.0150	ppb	18:55:39
2	Be 313.107†	-4403.2	-202.2	-0.0740	ug/L	-0.0740	ppb	18:55:19
2	Cd 226.502†	-203.4	-14.3	-0.1670	ug/L	-0.1670	ppb	18:55:39
2	Co 228.616†	-70.2	6.4	0.1350	ug/L	0.1350	ppb	18:55:39
2	Cr 267.716†	64.6	-83.0	-0.9714	ug/L	-0.9714	ppb	18:55:39
2	Cu 324.752†	7741.9	-109.2	-0.3406	ug/L	-0.3406	ppb	18:55:19
2	Mn 257.610†	818.5	274.4	0.3232	ug/L	0.3232	ppb	18:55:39
2	Mo 202.031†	15.5	5.5	0.4139	ug/L	0.4139	ppb	18:55:39
2	Ni 231.604†	97.8	-12.6	-0.3236	ug/L	-0.3236	ppb	18:55:39

2	P 214.914†	235.6	1.0	0.6399	ug/L	0.6399 ppb	18:55:39
2	Pb 220.353†	-65.9	5.6	0.7015	ug/L	0.7015 ppb	18:55:39
2	S 181.975 Axial†	66.6	25.8	33.722	ug/L	33.722 ppb	18:55:39
2	Sb 206.836†	35.8	1.3	0.4681	ug/L	0.4681 ppb	18:55:39
2	Se 196.026†	-27.9	-5.4	-3.1043	ug/L	-3.1043 ppb	18:55:39
2	Si 251.611†	682.3	91.4	2.8419	ug/L	2.8419 ppb	18:55:39
2	Sn 189.927†	23.1	11.2	2.0075	ug/L	2.0075 ppb	18:55:39
2	Ti 334.940†	-1370.5	79.3	0.1336	ug/L	0.1336 ppb	18:55:19
2	Tl 190.801†	-35.9	2.1	0.6585	ug/L	0.6585 ppb	18:55:39
2	U 409.014†	-2956.4	466.0	13.238	ug/L	13.238 ppb	18:55:19
2	V 292.402†	-1688.1	-63.8	-0.4357	ug/L	-0.4357 ppb	18:55:19
2	Zn 213.857†	709.4	43.9	0.4280	ug/L	0.4280 ppb	18:55:39
2	SiO2†	664.1	65.4	4.3492	ug/L	4.3492 ppb	18:56:15
3	Sc Radial	4247.1	4247.1	99.9	%		18:54:27
3	Y RADIAL	4366.6	4366.6	99.19	%		18:54:27
3	Al 396.153Radial†	-130.6	28.3	28.230	ug/L	28.230 ppb	18:54:47
3	Ca 317.933Radial†	20.7	2.4	4.4279	ug/L	4.4279 ppb	18:54:47
3	Fe 238.204 Radial†	10.0	-0.0	-0.4951	ug/L	-0.4951 ppb	18:54:47
3	K 766.490 Radial†	3309.1	140.4	28.216	ug/L	28.216 ppb	18:54:27
3	Mg 279.077 IEC†	4.1	1.4	52.175	ug/L	52.175 ppb	18:54:47
3	Na 589.592 Radial†	1221.6	1015.6	338.76	ug/L	338.76 ppb	18:54:27
3	Sr 421.552†	92.8	3.1	0.0236	ug/L	0.0236 ppb	18:54:27
3	Sc 361.383	820645.3	820645.3	96.546	%		18:55:44
3	Y 371.029	669123.9	669123.9	95.218	%		18:55:44
3	Ag 328.068†	150.3	-72.0	-0.3496	ug/L	-0.3496 ppb	18:55:44
3	As 188.979†	-30.8	-3.6	-1.5028	ug/L	-1.5028 ppb	18:56:04
3	B 249.677†	-117.1	360.6	8.4842	ug/L	8.4842 ppb	18:56:04
3	Ba 233.527†	5.0	-13.6	-0.1094	ug/L	-0.1094 ppb	18:56:04
3	Be 313.107†	-4275.8	-89.7	-0.0324	ug/L	-0.0324 ppb	18:55:44
3	Cd 226.502†	-196.7	-8.2	-0.0951	ug/L	-0.0951 ppb	18:56:04
3	Co 228.616†	-68.4	8.0	0.1695	ug/L	0.1695 ppb	18:56:04
3	Cr 267.716†	62.0	-85.4	-0.9960	ug/L	-0.9960 ppb	18:56:04
3	Cu 324.752†	7611.0	-210.8	-0.6495	ug/L	-0.6495 ppb	18:55:44
3	Mn 257.610†	648.2	101.6	0.1150	ug/L	0.1150 ppb	18:56:04
3	Mo 202.031†	25.5	15.9	1.1832	ug/L	1.1832 ppb	18:56:04
3	Ni 231.604†	91.0	-19.2	-0.4925	ug/L	-0.4925 ppb	18:56:04
3	P 214.914†	242.7	9.4	5.3734	ug/L	5.3734 ppb	18:56:04
3	Pb 220.353†	-74.0	-3.1	-0.3778	ug/L	-0.3778 ppb	18:56:04
3	S 181.975 Axial†	53.4	12.4	16.232	ug/L	16.232 ppb	18:56:04
3	Sb 206.836†	40.5	6.3	2.1687	ug/L	2.1687 ppb	18:56:04
3	Se 196.026†	-21.5	1.1	0.6376	ug/L	0.6376 ppb	18:56:04
3	Si 251.611†	612.5	22.1	0.6753	ug/L	0.6753 ppb	18:56:04
3	Sn 189.927†	16.4	4.4	0.7898	ug/L	0.7898 ppb	18:56:04
3	Ti 334.940†	-1310.2	135.9	0.2143	ug/L	0.2143 ppb	18:55:44
3	Tl 190.801†	-32.1	5.9	1.8662	ug/L	1.8662 ppb	18:56:04
3	U 409.014†	-3143.1	259.6	7.3781	ug/L	7.3781 ppb	18:55:44
3	V 292.402†	-1539.0	83.3	0.6351	ug/L	0.6351 ppb	18:55:44
3	Zn 213.857†	705.5	43.0	0.4237	ug/L	0.4237 ppb	18:56:04
3	SiO2†	634.5	37.7	2.4814	ug/L	2.4814 ppb	18:56:20

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	821466.6	96.642	%	0.2792				0.29%
Sc Radial	4334.5	102	%	1.9				1.85%
Y 371.029	668767.9	95.167	%	0.2223				0.23%
Y RADIAL	4454.4	101.2	%	1.73				1.71%
Ag 328.068†	-38.5	-0.1928	ug/L	0.32687	-0.1928	ppb	0.32687	169.55%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	32.6	32.551	ug/L	3.8214	32.551	ppb	3.8214	11.74%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.7	-0.2801	ug/L	1.23321	-0.2801	ppb	1.23321	440.20%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	393.8	9.2644	ug/L	0.71407	9.2644	ppb	0.71407	7.71%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-4.6	-0.0371	ug/L	0.06424	-0.0371	ppb	0.06424	173.35%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-125.8	-0.0456	ug/L	0.02458	-0.0456	ppb	0.02458	53.87%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.4	6.2529	ug/L	4.39488	6.2529	ppb	4.39488	70.29%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -14.2     -0.1646 ug/L       0.06832     -0.1646 ppb        0.06832  41.51%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                6.5      0.1373 ug/L       0.03116      0.1373 ppb        0.03116  22.70%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -75.0     -0.8763 ug/L       0.18637     -0.8763 ppb        0.18637  21.27%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -159.2     -0.4927 ug/L       0.15449     -0.4927 ppb        0.15449  31.35%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.4     -3.8707 ug/L      24.65148     -3.8707 ppb       24.65148 636.88%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         77.8      15.581 ug/L       14.5353      15.581 ppb        14.5353  93.29%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.1     -4.1676 ug/L      98.62266     -4.1676 ppb       98.62266 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              181.9      0.2096 ug/L       0.10537      0.2096 ppb        0.10537  50.27%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                8.5      0.6321 ug/L       0.48068      0.6321 ppb        0.48068  76.05%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       975.6      325.41 ug/L        21.895      325.41 ppb         21.895   6.73%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -13.5     -0.3449 ug/L       0.13814     -0.3449 ppb        0.13814  40.05%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 0.1      0.2005 ug/L       5.40605      0.2005 ppb        5.40605 >999.9%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                3.7      0.4630 ug/L       0.75053      0.4630 ppb        0.75053 162.10%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          20.8      27.209 ug/L        9.5613      27.209 ppb         9.5613  35.14%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                5.4      1.8781 ug/L       1.28949      1.8781 ppb        1.28949  68.66%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                1.0      0.5924 ug/L       3.67432      0.5924 ppb        3.67432 620.24%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               49.4      1.5315 ug/L       1.15250      1.5315 ppb        1.15250  75.25%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               10.6      1.8935 ug/L       1.05141      1.8935 ppb        1.05141  55.53%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               12.3      0.0949 ug/L       0.26392      0.0949 ppb        0.26392 278.20%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              152.9      0.2460 ug/L       0.13128      0.2460 ppb        0.13128  53.36%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                6.2      1.9588 ug/L       1.34898      1.9588 ppb        1.34898  68.87%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               324.1      9.2084 ug/L       3.49477      9.2084 ppb        3.49477  37.95%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                34.5      0.2767 ug/L       0.61692      0.2767 ppb        0.61692 223.00%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               42.8      0.4212 ug/L       0.00829      0.4212 ppb        0.00829   1.97%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     40.0      2.6501 ug/L       1.62142      2.6501 ppb        1.62142  61.18%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Sequence No.: 27
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/16/2010 19:41:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4179.5	4179.5	98.3	%			19:43:03
1	Y RADIAL	4288.6	4288.6	97.42	%			19:43:03
1	Al 396.153Radial†	4687.7	4926.8	4905.1	ug/L	4905.1	ppb	19:43:03
1	Ca 317.933Radial†	2655.1	2682.1	5003.1	ug/L	5003.1	ppb	19:43:23
1	Fe 238.204 Radial†	496.7	495.2	5277.2	ug/L	5277.2	ppb	19:43:23
1	K 766.490 Radial†	27083.0	24373.9	4913.7	ug/L	4913.7	ppb	19:43:03
1	Mg 279.077 IEC†	133.2	132.8	5127.7	ug/L	5127.7	ppb	19:43:23
1	Na 589.592 Radial†	30987.2	31309.3	10444	ug/L	10444	ppb	19:43:03
1	Sr 421.552†	64335.8	65344.6	504.51	ug/L	504.51	ppb	19:43:03
1	Sc 361.383	816487.5	816487.5	96.056	%			19:44:21
1	Y 371.029	656358.4	656358.4	93.401	%			19:44:21
1	Ag 328.068†	99919.2	103793.8	501.63	ug/L	501.63	ppb	19:44:26
1	As 188.979†	1073.3	1145.7	486.48	ug/L	486.48	ppb	19:44:46
1	B 249.677†	20138.8	21447.5	502.30	ug/L	502.30	ppb	19:44:26
1	Ba 233.527†	58941.8	61342.9	499.32	ug/L	499.32	ppb	19:44:26
1	Be 313.107†	1280907.8	1337835.2	492.54	ug/L	492.54	ppb	19:44:21
1	Cd 226.502†	39512.5	41330.2	483.19	ug/L	483.19	ppb	19:44:26
1	Co 228.616†	22844.8	23861.5	497.63	ug/L	497.63	ppb	19:44:26
1	Cr 267.716†	39915.6	41404.7	482.30	ug/L	482.30	ppb	19:44:26
1	Cu 324.752†	166450.4	165190.0	505.77	ug/L	505.77	ppb	19:44:26
1	Mn 257.610†	414714.8	431171.4	497.62	ug/L	497.62	ppb	19:44:21
1	Mo 202.031†	6312.9	6561.6	488.03	ug/L	488.03	ppb	19:44:46
1	Ni 231.604†	18414.5	19057.0	487.83	ug/L	487.83	ppb	19:44:26
1	P 214.914†	4384.8	4322.9	2299.6	ug/L	2299.6	ppb	19:44:46
1	Pb 220.353†	3674.4	3898.8	484.53	ug/L	484.53	ppb	19:44:46
1	S 181.975 Axial†	776.4	765.4	999.36	ug/L	999.36	ppb	19:44:46
1	Sb 206.836†	1408.2	1430.3	501.44	ug/L	501.44	ppb	19:44:46
1	Se 196.026†	767.4	822.2	498.28	ug/L	498.28	ppb	19:44:46
1	Si 251.611†	77317.5	79879.5	2483.2	ug/L	2483.2	ppb	19:44:26
1	Sn 189.927†	2574.4	2667.5	479.16	ug/L	479.16	ppb	19:44:46
1	Ti 334.940†	295940.7	309583.5	503.03	ug/L	503.03	ppb	19:44:26
1	Tl 190.801†	1484.8	1584.9	503.66	ug/L	503.66	ppb	19:44:46
1	U 409.014†	13535.8	17606.7	498.48	ug/L	498.48	ppb	19:44:26
1	V 292.402†	62951.6	67213.4	493.28	ug/L	493.28	ppb	19:44:26
1	Zn 213.857†	49794.7	51151.3	494.65	ug/L	494.65	ppb	19:44:26
1	SiO2†	76911.0	79449.1	5283.8	ug/L	5283.8	ppb	19:45:54
2	Sc Radial	4275.0	4275.0	101	%			19:43:28
2	Y RADIAL	4376.7	4376.7	99.42	%			19:43:28
2	Al 396.153Radial†	4814.8	4946.7	4924.9	ug/L	4924.9	ppb	19:43:28
2	Ca 317.933Radial†	2624.0	2590.9	4833.1	ug/L	4833.1	ppb	19:43:48
2	Fe 238.204 Radial†	490.3	477.4	5088.8	ug/L	5088.8	ppb	19:43:48
2	K 766.490 Radial†	27406.8	24080.9	4854.7	ug/L	4854.7	ppb	19:43:28
2	Mg 279.077 IEC†	129.7	126.3	4877.2	ug/L	4877.2	ppb	19:43:48
2	Na 589.592 Radial†	31213.9	30831.1	10284	ug/L	10284	ppb	19:43:28
2	Sr 421.552†	65603.3	65144.1	502.96	ug/L	502.96	ppb	19:43:28
2	Sc 361.383	815668.6	815668.6	95.960	%			19:44:52
2	Y 371.029	656284.8	656284.8	93.391	%			19:44:52
2	Ag 328.068†	99209.0	103158.1	498.51	ug/L	498.51	ppb	19:44:57
2	As 188.979†	1075.8	1149.5	487.98	ug/L	487.98	ppb	19:45:17
2	B 249.677†	19971.0	21293.7	498.73	ug/L	498.73	ppb	19:44:57
2	Ba 233.527†	58438.2	60879.6	495.54	ug/L	495.54	ppb	19:44:57
2	Be 313.107†	1278947.1	1337130.7	492.27	ug/L	492.27	ppb	19:44:52
2	Cd 226.502†	39176.2	41021.0	479.59	ug/L	479.59	ppb	19:44:57
2	Co 228.616†	22562.7	23591.5	492.02	ug/L	492.02	ppb	19:44:57
2	Cr 267.716†	39582.4	41099.1	478.73	ug/L	478.73	ppb	19:44:57
2	Cu 324.752†	165098.3	163955.0	501.98	ug/L	501.98	ppb	19:44:57
2	Mn 257.610†	413683.5	430530.1	496.87	ug/L	496.87	ppb	19:44:52
2	Mo 202.031†	6334.5	6590.7	490.18	ug/L	490.18	ppb	19:45:17
2	Ni 231.604†	18210.4	18863.5	482.88	ug/L	482.88	ppb	19:44:57

2	P 214.914†	4362.2	4303.9	2290.0	ug/L	2290.0 ppb	19:45:17
2	Pb 220.353†	3680.6	3909.1	485.84	ug/L	485.84 ppb	19:45:17
2	S 181.975 Axial†	772.3	761.9	994.90	ug/L	994.90 ppb	19:45:17
2	Sb 206.836†	1398.9	1422.1	498.74	ug/L	498.74 ppb	19:45:17
2	Se 196.026†	772.3	828.1	501.13	ug/L	501.13 ppb	19:45:17
2	Si 251.611†	76726.5	79344.4	2466.5	ug/L	2466.5 ppb	19:44:57
2	Sn 189.927†	2586.5	2682.8	481.88	ug/L	481.88 ppb	19:45:17
2	Ti 334.940†	293328.6	307170.9	499.11	ug/L	499.11 ppb	19:44:57
2	Tl 190.801†	1468.0	1569.0	498.64	ug/L	498.64 ppb	19:45:17
2	U 409.014†	13356.6	17434.1	493.60	ug/L	493.60 ppb	19:44:57
2	V 292.402†	62380.0	66683.6	489.49	ug/L	489.49 ppb	19:44:57
2	Zn 213.857†	49339.8	50729.3	490.59	ug/L	490.59 ppb	19:44:57
2	SiO2†	77165.6	79794.8	5306.8	ug/L	5306.8 ppb	19:45:59
3	Sc Radial	4256.7	4256.7	100	%		19:43:54
3	Y RADIAL	4349.1	4349.1	98.79	%		19:43:54
3	Al 396.153Radial†	4727.8	4880.4	4858.9	ug/L	4858.9 ppb	19:43:54
3	Ca 317.933Radial†	2633.7	2611.8	4872.1	ug/L	4872.1 ppb	19:44:14
3	Fe 238.204 Radial†	489.1	478.4	5098.2	ug/L	5098.2 ppb	19:44:14
3	K 766.490 Radial†	27371.5	24162.7	4871.2	ug/L	4871.2 ppb	19:43:54
3	Mg 279.077 IEC†	127.8	124.9	4824.0	ug/L	4824.0 ppb	19:44:14
3	Na 589.592 Radial†	31166.5	30917.0	10313	ug/L	10313 ppb	19:43:54
3	Sr 421.552†	65058.8	64880.4	500.92	ug/L	500.92 ppb	19:43:54
3	Sc 361.383	829424.6	829424.6	97.578	%		19:45:23
3	Y 371.029	666366.8	666366.8	94.826	%		19:45:23
3	Ag 328.068†	98856.1	101081.8	488.51	ug/L	488.51 ppb	19:45:28
3	As 188.979†	1081.6	1136.8	482.58	ug/L	482.58 ppb	19:45:48
3	B 249.677†	19982.8	20960.7	490.92	ug/L	490.92 ppb	19:45:28
3	Ba 233.527†	58135.4	59559.3	484.80	ug/L	484.80 ppb	19:45:28
3	Be 313.107†	1302246.1	1338903.7	492.90	ug/L	492.90 ppb	19:45:23
3	Cd 226.502†	39048.2	40212.8	470.13	ug/L	470.13 ppb	19:45:28
3	Co 228.616†	22545.7	23184.1	483.52	ug/L	483.52 ppb	19:45:28
3	Cr 267.716†	39506.5	40337.3	469.86	ug/L	469.86 ppb	19:45:28
3	Cu 324.752†	164768.1	160763.1	492.20	ug/L	492.20 ppb	19:45:28
3	Mn 257.610†	420108.2	429964.4	496.22	ug/L	496.22 ppb	19:45:23
3	Mo 202.031†	6340.7	6487.6	482.52	ug/L	482.52 ppb	19:45:48
3	Ni 231.604†	18150.5	18487.5	473.25	ug/L	473.25 ppb	19:45:28
3	P 214.914†	4353.1	4219.1	2244.8	ug/L	2244.8 ppb	19:45:48
3	Pb 220.353†	3700.5	3865.9	480.46	ug/L	480.46 ppb	19:45:48
3	S 181.975 Axial†	771.2	747.4	975.90	ug/L	975.90 ppb	19:45:48
3	Sb 206.836†	1395.6	1394.6	489.17	ug/L	489.17 ppb	19:45:48
3	Se 196.026†	774.6	817.1	494.71	ug/L	494.71 ppb	19:45:48
3	Si 251.611†	76510.2	77796.7	2418.4	ug/L	2418.4 ppb	19:45:28
3	Sn 189.927†	2594.3	2646.1	475.29	ug/L	475.29 ppb	19:45:48
3	Ti 334.940†	292566.0	301319.7	489.61	ug/L	489.61 ppb	19:45:28
3	Tl 190.801†	1477.4	1553.2	493.64	ug/L	493.64 ppb	19:45:48
3	U 409.014†	13600.6	17453.3	494.17	ug/L	494.17 ppb	19:45:28
3	V 292.402†	62278.3	65501.2	480.83	ug/L	480.83 ppb	19:45:28
3	Zn 213.857†	49214.4	49748.1	481.09	ug/L	481.09 ppb	19:45:28
3	SiO2†	77803.7	79115.1	5261.7	ug/L	5261.7 ppb	19:46:04

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	820526.9	96.532	%	0.9078				0.94%
Sc Radial	4237.1	99.7	%	1.19				1.20%
Y 371.029	659670.0	93.873	%	0.8253				0.88%
Y RADIAL	4338.2	98.55	%	1.023				1.04%
Ag 328.068†	102677.9	496.22	ug/L	6.857	496.22	ppb	6.857	1.38%
QC value within limits for Ag 328.068 Recovery = 99.24%								
Al 396.153Radial†	4918.0	4896.3	ug/L	33.85	4896.3	ppb	33.85	0.69%
QC value within limits for Al 396.153Radial Recovery = 97.93%								
As 188.979†	1144.0	485.68	ug/L	2.787	485.68	ppb	2.787	0.57%
QC value within limits for As 188.979 Recovery = 97.14%								
B 249.677†	21233.9	497.32	ug/L	5.822	497.32	ppb	5.822	1.17%
QC value within limits for B 249.677 Recovery = 99.46%								
Ba 233.527†	60593.9	493.22	ug/L	7.530	493.22	ppb	7.530	1.53%
QC value within limits for Ba 233.527 Recovery = 98.64%								
Be 313.107†	1337956.6	492.57	ug/L	0.316	492.57	ppb	0.316	0.06%
QC value within limits for Be 313.107 Recovery = 98.51%								
Ca 317.933Radial†	2628.3	4902.7	ug/L	89.09	4902.7	ppb	89.09	1.82%

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   QC value within limits for Ca 317.933Radial  Recovery = 98.05%
Cd 226.502†            40854.7      477.64 ug/L         6.745      477.64 ppb          6.745   1.41%
   QC value within limits for Cd 226.502  Recovery = 95.53%
Co 228.616†            23545.7      491.06 ug/L         7.104      491.06 ppb          7.104   1.45%
   QC value within limits for Co 228.616  Recovery = 98.21%
Cr 267.716†            40947.0      476.96 ug/L         6.405      476.96 ppb          6.405   1.34%
   QC value within limits for Cr 267.716  Recovery = 95.39%
Cu 324.752†           163302.7      499.98 ug/L         6.997      499.98 ppb          6.997   1.40%
   QC value within limits for Cu 324.752  Recovery = 100.00%
Fe 238.204 Radial†       483.7      5154.7 ug/L        106.13      5154.7 ppb         106.13   2.06%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.09%
K 766.490 Radial†      24205.8      4879.9 ug/L         30.45      4879.9 ppb          30.45   0.62%
   QC value within limits for K 766.490 Radial  Recovery = 97.60%
Mg 279.077 IEC†          128.0      4943.0 ug/L        162.16      4943.0 ppb         162.16   3.28%
   QC value within limits for Mg 279.077 IEC  Recovery = 98.86%
Mn 257.610†           430555.3      496.90 ug/L         0.699      496.90 ppb          0.699   0.14%
   QC value within limits for Mn 257.610  Recovery = 99.38%
Mo 202.031†            6546.6      486.91 ug/L         3.951      486.91 ppb          3.951   0.81%
   QC value within limits for Mo 202.031  Recovery = 97.38%
Na 589.592 Radial†     31019.1       10347 ug/L          85.0       10347 ppb           85.0   0.82%
   QC value within limits for Na 589.592 Radial  Recovery = 103.47%
Ni 231.604†            18802.7      481.32 ug/L         7.414      481.32 ppb          7.414   1.54%
   QC value within limits for Ni 231.604  Recovery = 96.26%
P 214.914†              4282.0      2278.2 ug/L         29.26      2278.2 ppb          29.26   1.28%
   QC value within limits for P 214.914  Recovery = 91.13%
Pb 220.353†             3891.3      483.61 ug/L         2.806      483.61 ppb          2.806   0.58%
   QC value within limits for Pb 220.353  Recovery = 96.72%
S 181.975 Axial†         758.2      990.05 ug/L        12.459      990.05 ppb         12.459   1.26%
   QC value within limits for S 181.975 Axial  Recovery = 99.01%
Sb 206.836†             1415.7      496.45 ug/L         6.445      496.45 ppb          6.445   1.30%
   QC value within limits for Sb 206.836  Recovery = 99.29%
Se 196.026†              822.5      498.04 ug/L         3.215      498.04 ppb          3.215   0.65%
   QC value within limits for Se 196.026  Recovery = 99.61%
Si 251.611†            79006.9      2456.1 ug/L         33.66      2456.1 ppb          33.66   1.37%
   QC value within limits for Si 251.611  Recovery = 98.24%
Sn 189.927†             2665.5      478.78 ug/L         3.308      478.78 ppb          3.308   0.69%
   QC value within limits for Sn 189.927  Recovery = 95.76%
Sr 421.552†            65123.0      502.80 ug/L         1.797      502.80 ppb          1.797   0.36%
   QC value within limits for Sr 421.552  Recovery = 100.56%
Ti 334.940†           306024.7      497.25 ug/L         6.899      497.25 ppb          6.899   1.39%
   QC value within limits for Ti 334.940  Recovery = 99.45%
Tl 190.801†             1569.0      498.65 ug/L         5.009      498.65 ppb          5.009   1.00%
   QC value within limits for Tl 190.801  Recovery = 99.73%
U 409.014†             17498.1      495.42 ug/L         2.666      495.42 ppb          2.666   0.54%
   QC value within limits for U 409.014  Recovery = 99.08%
V 292.402†             66466.1      487.87 ug/L         6.381      487.87 ppb          6.381   1.31%
   QC value within limits for V 292.402  Recovery = 97.57%
Zn 213.857†            50542.9      488.78 ug/L         6.959      488.78 ppb          6.959   1.42%
   QC value within limits for Zn 213.857  Recovery = 97.76%
SiO2†                  79453.0      5284.1 ug/L         22.55      5284.1 ppb          22.55   0.43%
   QC value within limits for SiO2  Recovery = 98.81%
All analyte(s) passed QC.
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Sequence No.: 28
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/16/2010 19:48:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4279.8	4279.8	101	%			19:50:05
1	Y RADIAL	4394.1	4394.1	99.82	%			19:50:05
1	Al 396.153Radial†	-137.5	22.5	22.436	ug/L	22.436	ppb	19:50:25
1	Ca 317.933Radial†	25.1	6.6	12.333	ug/L	12.333	ppb	19:50:25
1	Fe 238.204 Radial†	9.2	-0.9	-10.033	ug/L	-10.033	ppb	19:50:25
1	K 766.490 Radial†	3148.9	-43.9	-8.9717	ug/L	-8.9717	ppb	19:50:05
1	Mg 279.077 IEC†	3.4	0.7	25.156	ug/L	25.156	ppb	19:50:25
1	Na 589.592 Radial†	968.9	755.3	251.94	ug/L	251.94	ppb	19:50:05
1	Sr 421.552†	144.4	53.6	0.4139	ug/L	0.4139	ppb	19:50:05
1	Sc 361.383	813397.8	813397.8	95.693	%			19:51:22
1	Y 371.029	662201.9	662201.9	94.233	%			19:51:22
1	Ag 328.068†	285.6	70.8	0.3333	ug/L	0.3333	ppb	19:51:22
1	As 188.979†	-31.0	-4.1	-1.7321	ug/L	-1.7321	ppb	19:51:42
1	B 249.677†	-218.6	253.5	5.9664	ug/L	5.9664	ppb	19:51:42
1	Ba 233.527†	35.0	17.8	0.1446	ug/L	0.1446	ppb	19:51:42
1	Be 313.107†	-4237.9	-89.6	-0.0324	ug/L	-0.0324	ppb	19:51:22
1	Cd 226.502†	-208.3	-22.2	-0.2580	ug/L	-0.2580	ppb	19:51:42
1	Co 228.616†	-80.6	-5.3	-0.1079	ug/L	-0.1079	ppb	19:51:42
1	Cr 267.716†	79.1	-67.0	-0.7815	ug/L	-0.7815	ppb	19:51:42
1	Cu 324.752†	7574.6	-178.6	-0.5501	ug/L	-0.5501	ppb	19:51:22
1	Mn 257.610†	1009.2	484.8	0.5572	ug/L	0.5572	ppb	19:51:22
1	Mo 202.031†	25.0	15.7	1.1643	ug/L	1.1643	ppb	19:51:42
1	Ni 231.604†	105.3	-3.5	-0.0897	ug/L	-0.0897	ppb	19:51:42
1	P 214.914†	245.9	15.0	8.4741	ug/L	8.4741	ppb	19:51:42
1	Pb 220.353†	-67.1	3.4	0.4334	ug/L	0.4334	ppb	19:51:42
1	S 181.975 Axial†	63.3	23.3	30.383	ug/L	30.383	ppb	19:51:42
1	Sb 206.836†	51.1	17.8	6.0699	ug/L	6.0699	ppb	19:51:42
1	Se 196.026†	-21.2	1.2	0.6617	ug/L	0.6617	ppb	19:51:42
1	Si 251.611†	642.2	58.8	1.8179	ug/L	1.8179	ppb	19:51:42
1	Sn 189.927†	23.5	12.0	2.1507	ug/L	2.1507	ppb	19:51:42
1	Ti 334.940†	-1295.8	138.8	0.2232	ug/L	0.2232	ppb	19:51:22
1	Tl 190.801†	-27.9	9.9	3.1295	ug/L	3.1295	ppb	19:51:42
1	U 409.014†	-3192.3	179.2	5.0937	ug/L	5.0937	ppb	19:51:22
1	V 292.402†	-1573.7	32.8	0.2656	ug/L	0.2656	ppb	19:51:22
1	Zn 213.857†	722.5	67.3	0.6593	ug/L	0.6593	ppb	19:51:42
1	SiO2†	635.7	44.8	2.9576	ug/L	2.9576	ppb	19:52:38
2	Sc Radial	4293.4	4293.4	101	%			19:50:30
2	Y RADIAL	4413.7	4413.7	100.3	%			19:50:30
2	Al 396.153Radial†	-119.1	41.1	41.099	ug/L	41.099	ppb	19:50:50
2	Ca 317.933Radial†	26.9	8.3	15.511	ug/L	15.511	ppb	19:50:50
2	Fe 238.204 Radial†	10.2	0.0	0.2538	ug/L	0.2538	ppb	19:50:50
2	K 766.490 Radial†	3206.5	3.2	0.5470	ug/L	0.5470	ppb	19:50:30
2	Mg 279.077 IEC†	1.3	-1.5	-56.951	ug/L	-56.951	ppb	19:50:50
2	Na 589.592 Radial†	908.1	692.1	230.84	ug/L	230.84	ppb	19:50:30
2	Sr 421.552†	134.6	43.4	0.3354	ug/L	0.3354	ppb	19:50:30
2	Sc 361.383	814897.1	814897.1	95.869	%			19:51:47
2	Y 371.029	664062.0	664062.0	94.498	%			19:51:47
2	Ag 328.068†	296.5	81.6	0.3881	ug/L	0.3881	ppb	19:51:47
2	As 188.979†	-25.8	1.4	0.5951	ug/L	0.5951	ppb	19:52:07
2	B 249.677†	-227.2	244.9	5.7608	ug/L	5.7608	ppb	19:52:07
2	Ba 233.527†	40.1	23.0	0.1863	ug/L	0.1863	ppb	19:52:07
2	Be 313.107†	-4326.2	-173.4	-0.0631	ug/L	-0.0631	ppb	19:51:47
2	Cd 226.502†	-190.6	-3.3	-0.0383	ug/L	-0.0383	ppb	19:52:07
2	Co 228.616†	-72.0	3.8	0.0816	ug/L	0.0816	ppb	19:52:07
2	Cr 267.716†	77.2	-69.1	-0.8058	ug/L	-0.8058	ppb	19:52:07
2	Cu 324.752†	7549.9	-218.9	-0.6722	ug/L	-0.6722	ppb	19:51:47
2	Mn 257.610†	692.1	152.2	0.1779	ug/L	0.1779	ppb	19:51:47
2	Mo 202.031†	26.8	17.5	1.3023	ug/L	1.3023	ppb	19:52:07
2	Ni 231.604†	115.3	6.7	0.1723	ug/L	0.1723	ppb	19:52:07

2	P 214.914†	235.5	3.7	2.2154	ug/L	2.2154 ppb	19:52:07
2	Pb 220.353†	-64.8	5.9	0.7464	ug/L	0.7464 ppb	19:52:07
2	S 181.975 Axial†	61.2	20.9	27.353	ug/L	27.353 ppb	19:52:07
2	Sb 206.836†	43.2	9.4	3.2418	ug/L	3.2418 ppb	19:52:07
2	Se 196.026†	-21.5	0.9	0.5475	ug/L	0.5475 ppb	19:52:07
2	Si 251.611†	634.4	49.4	1.5231	ug/L	1.5231 ppb	19:52:07
2	Sn 189.927†	27.2	15.8	2.8370	ug/L	2.8370 ppb	19:52:07
2	Ti 334.940†	-1283.8	153.8	0.2554	ug/L	0.2554 ppb	19:51:47
2	Tl 190.801†	-32.4	5.3	1.6852	ug/L	1.6852 ppb	19:52:07
2	U 409.014†	-3254.4	120.6	3.4273	ug/L	3.4273 ppb	19:51:47
2	V 292.402†	-1626.5	-19.2	-0.1155	ug/L	-0.1155 ppb	19:51:47
2	Zn 213.857†	719.3	62.6	0.6106	ug/L	0.6106 ppb	19:52:07
2	SiO2†	640.8	48.9	3.2247	ug/L	3.2247 ppb	19:52:43
3	Sc Radial	4264.8	4264.8	100	%		19:50:55
3	Y RADIAL	4387.4	4387.4	99.66	%		19:50:55
3	Al 396.153Radial†	-122.1	37.3	37.275	ug/L	37.275 ppb	19:51:15
3	Ca 317.933Radial†	20.9	2.5	4.6948	ug/L	4.6948 ppb	19:51:15
3	Fe 238.204 Radial†	11.0	1.0	10.132	ug/L	10.132 ppb	19:51:15
3	K 766.490 Radial†	3217.8	35.7	7.1149	ug/L	7.1149 ppb	19:50:55
3	Mg 279.077 IEC†	3.0	0.2	9.4282	ug/L	9.4282 ppb	19:51:15
3	Na 589.592 Radial†	937.9	727.8	242.75	ug/L	242.75 ppb	19:50:55
3	Sr 421.552†	67.0	-23.0	-0.1780	ug/L	-0.1780 ppb	19:50:55
3	Sc 361.383	818748.2	818748.2	96.322	%		19:52:13
3	Y 371.029	667754.1	667754.1	95.023	%		19:52:13
3	Ag 328.068†	161.7	-59.8	-0.2867	ug/L	-0.2867 ppb	19:52:13
3	As 188.979†	-31.4	-4.3	-1.8046	ug/L	-1.8046 ppb	19:52:33
3	B 249.677†	-200.2	274.0	6.4445	ug/L	6.4445 ppb	19:52:33
3	Ba 233.527†	15.1	-3.2	-0.0262	ug/L	-0.0262 ppb	19:52:33
3	Be 313.107†	-4255.4	-78.7	-0.0286	ug/L	-0.0286 ppb	19:52:13
3	Cd 226.502†	-208.5	-21.0	-0.2463	ug/L	-0.2463 ppb	19:52:33
3	Co 228.616†	-62.7	13.7	0.2893	ug/L	0.2893 ppb	19:52:33
3	Cr 267.716†	85.1	-61.3	-0.7146	ug/L	-0.7146 ppb	19:52:33
3	Cu 324.752†	7570.3	-234.8	-0.7191	ug/L	-0.7191 ppb	19:52:13
3	Mn 257.610†	765.4	224.9	0.2600	ug/L	0.2600 ppb	19:52:13
3	Mo 202.031†	26.2	16.7	1.2407	ug/L	1.2407 ppb	19:52:33
3	Ni 231.604†	87.9	-22.3	-0.5714	ug/L	-0.5714 ppb	19:52:33
3	P 214.914†	248.5	16.0	9.0492	ug/L	9.0492 ppb	19:52:33
3	Pb 220.353†	-68.1	2.8	0.3632	ug/L	0.3632 ppb	19:52:33
3	S 181.975 Axial†	57.0	16.2	21.214	ug/L	21.214 ppb	19:52:33
3	Sb 206.836†	45.8	11.9	4.0653	ug/L	4.0653 ppb	19:52:33
3	Se 196.026†	-16.9	5.8	3.4243	ug/L	3.4243 ppb	19:52:33
3	Si 251.611†	624.7	36.2	1.1128	ug/L	1.1128 ppb	19:52:33
3	Sn 189.927†	16.1	4.1	0.7375	ug/L	0.7375 ppb	19:52:33
3	Ti 334.940†	-1348.4	93.0	0.1506	ug/L	0.1506 ppb	19:52:13
3	Tl 190.801†	-32.4	5.5	1.7449	ug/L	1.7449 ppb	19:52:33
3	U 409.014†	-3336.9	50.8	1.4449	ug/L	1.4449 ppb	19:52:13
3	V 292.402†	-1669.8	-56.2	-0.3881	ug/L	-0.3881 ppb	19:52:13
3	Zn 213.857†	695.3	34.1	0.3363	ug/L	0.3363 ppb	19:52:33
3	SiO2†	703.6	111.0	7.3646	ug/L	7.3646 ppb	19:52:48

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	815681.0	95.961	%	0.3247				0.34%
Sc Radial	4279.3	101	%	0.3				0.33%
Y 371.029	664672.7	94.585	%	0.4022				0.43%
Y RADIAL	4398.4	99.91	%	0.310				0.31%
Ag 328.068†	30.9	0.1449	ug/L	0.37478	0.1449	ppb	0.37478	258.63%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	33.7	33.603	ug/L	9.8586	33.603	ppb	9.8586	29.34%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.3	-0.9805	ug/L	1.36499	-0.9805	ppb	1.36499	139.21%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	257.5	6.0572	ug/L	0.35077	6.0572	ppb	0.35077	5.79%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	12.5	0.1015	ug/L	0.11257	0.1015	ppb	0.11257	110.85%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-113.9	-0.0414	ug/L	0.01896	-0.0414	ppb	0.01896	45.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.8	10.846	ug/L	5.5594	10.846	ppb	5.5594	51.26%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -15.5     -0.1809 ug/L       0.12363     -0.1809 ppb        0.12363  68.35%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                4.1      0.0877 ug/L       0.19865      0.0877 ppb        0.19865 226.62%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -65.8     -0.7673 ug/L       0.04725     -0.7673 ppb        0.04725   6.16%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -210.8     -0.6471 ug/L       0.08725     -0.6471 ppb        0.08725  13.48%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         0.0      0.1176 ug/L      10.08321      0.1176 ppb       10.08321 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -1.7     -0.4366 ug/L       8.08827     -0.4366 ppb        8.08827 >999.9%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.2     -7.4557 ug/L      43.57992     -7.4557 ppb       43.57992 584.51%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              287.3      0.3317 ug/L       0.19954      0.3317 ppb        0.19954  60.15%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               16.6      1.2358 ug/L       0.06910      1.2358 ppb        0.06910   5.59%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       725.0      241.85 ug/L        10.581      241.85 ppb         10.581   4.37%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -6.4     -0.1629 ug/L       0.37722     -0.1629 ppb        0.37722 231.56%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                11.6      6.5796 ug/L       3.79043      6.5796 ppb        3.79043  57.61%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                4.1      0.5143 ug/L       0.20400      0.5143 ppb        0.20400  39.66%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          20.1      26.317 ug/L        4.6714      26.317 ppb         4.6714  17.75%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               13.0      4.4590 ug/L       1.45458      4.4590 ppb        1.45458  32.62%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                2.6      1.5445 ug/L       1.62898      1.5445 ppb        1.62898 105.47%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               48.1      1.4846 ug/L       0.35411      1.4846 ppb        0.35411  23.85%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               10.6      1.9084 ug/L       1.07048      1.9084 ppb        1.07048  56.09%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               24.7      0.1904 ug/L       0.32149      0.1904 ppb        0.32149 168.82%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              128.5      0.2097 ug/L       0.05370      0.2097 ppb        0.05370  25.61%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                6.9      2.1865 ug/L       0.81718      2.1865 ppb        0.81718  37.37%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               116.9      3.3220 ug/L       1.82669      3.3220 ppb        1.82669  54.99%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -14.2     -0.0793 ug/L       0.32833     -0.0793 ppb        0.32833 413.93%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               54.7      0.5354 ug/L       0.17416      0.5354 ppb        0.17416  32.53%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     68.2      4.5156 ug/L       2.47087      4.5156 ppb        2.47087  54.72%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 38
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/16/2010 20:57:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4080.6	4080.6	96.0	%			20:59:24
1	Y RADIAL	4224.3	4224.3	95.96	%			20:59:04
1	Al 396.153Radial†	4643.1	4995.9	4974.1	ug/L	4974.1	ppb	20:59:04
1	Ca 317.933Radial†	2617.0	2707.9	5051.3	ug/L	5051.3	ppb	20:59:24
1	Fe 238.204 Radial†	501.3	512.2	5458.2	ug/L	5458.2	ppb	20:59:24
1	K 766.490 Radial†	26808.3	24755.6	4990.7	ug/L	4990.7	ppb	20:59:04
1	Mg 279.077 IEC†	133.2	136.1	5255.4	ug/L	5255.4	ppb	20:59:24
1	Na 589.592 Radial†	30882.0	31963.8	10662	ug/L	10662	ppb	20:59:04
1	Sr 421.552†	63836.2	66410.7	512.74	ug/L	512.74	ppb	20:59:04
1	Sc 361.383	834330.2	834330.2	98.155	%			21:00:23
1	Y 371.029	668805.9	668805.9	95.173	%			21:00:23
1	Ag 328.068†	99625.6	101270.1	489.58	ug/L	489.58	ppb	21:00:23
1	As 188.979†	1110.2	1159.4	492.32	ug/L	492.32	ppb	21:00:43
1	B 249.677†	20143.7	21004.1	491.86	ug/L	491.86	ppb	21:00:23
1	Ba 233.527†	59657.8	60760.1	494.57	ug/L	494.57	ppb	21:00:23
1	Be 313.107†	1322163.7	1351348.6	497.51	ug/L	497.51	ppb	21:00:23
1	Cd 226.502†	39430.6	40367.0	471.90	ug/L	471.90	ppb	21:00:43
1	Co 228.616†	23056.3	23568.4	491.52	ug/L	491.52	ppb	21:00:43
1	Cr 267.716†	40560.2	41172.7	479.61	ug/L	479.61	ppb	21:00:23
1	Cu 324.752†	168349.4	163418.9	500.38	ug/L	500.38	ppb	21:00:23
1	Mn 257.610†	426429.5	433873.1	500.75	ug/L	500.75	ppb	21:00:23
1	Mo 202.031†	6495.4	6607.0	491.42	ug/L	491.42	ppb	21:00:43
1	Ni 231.604†	18594.9	18830.8	482.04	ug/L	482.04	ppb	21:00:43
1	P 214.914†	4555.1	4398.7	2342.7	ug/L	2342.7	ppb	21:00:43
1	Pb 220.353†	3792.9	3937.7	489.37	ug/L	489.37	ppb	21:00:43
1	S 181.975 Axial†	788.4	760.3	992.75	ug/L	992.75	ppb	21:00:43
1	Sb 206.836†	1429.0	1420.2	498.15	ug/L	498.15	ppb	21:00:43
1	Se 196.026†	802.3	840.7	509.67	ug/L	509.67	ppb	21:00:43
1	Si 251.611†	79165.2	80040.6	2488.2	ug/L	2488.2	ppb	21:00:23
1	Sn 189.927†	2670.1	2707.6	486.36	ug/L	486.36	ppb	21:00:43
1	Ti 334.940†	304517.9	311733.3	506.54	ug/L	506.54	ppb	21:00:23
1	Tl 190.801†	1496.2	1563.5	497.00	ug/L	497.00	ppb	21:00:43
1	U 409.014†	12403.3	16151.6	457.13	ug/L	457.13	ppb	21:00:23
1	V 292.402†	63344.4	66212.0	485.97	ug/L	485.97	ppb	21:00:23
1	Zn 213.857†	50074.1	50327.3	486.62	ug/L	486.62	ppb	21:00:23
1	SiO2†	79109.4	79976.4	5318.9	ug/L	5318.9	ppb	21:01:43
2	Sc Radial	4071.5	4071.5	95.8	%			20:59:49
2	Y RADIAL	4228.3	4228.3	96.05	%			20:59:29
2	Al 396.153Radial†	4682.7	5048.1	5026.2	ug/L	5026.2	ppb	20:59:29
2	Ca 317.933Radial†	2622.6	2719.8	5073.5	ug/L	5073.5	ppb	20:59:49
2	Fe 238.204 Radial†	496.4	508.2	5416.1	ug/L	5416.1	ppb	20:59:49
2	K 766.490 Radial†	26877.2	24890.0	5017.8	ug/L	5017.8	ppb	20:59:29
2	Mg 279.077 IEC†	130.7	133.7	5163.4	ug/L	5163.4	ppb	20:59:49
2	Na 589.592 Radial†	30969.6	32127.2	10716	ug/L	10716	ppb	20:59:29
2	Sr 421.552†	64023.8	66755.3	515.40	ug/L	515.40	ppb	20:59:29
2	Sc 361.383	836755.2	836755.2	98.441	%			21:00:50
2	Y 371.029	670519.8	670519.8	95.417	%			21:00:50
2	Ag 328.068†	100018.9	101375.5	490.07	ug/L	490.07	ppb	21:00:50
2	As 188.979†	1131.4	1177.7	500.00	ug/L	500.00	ppb	21:01:10
2	B 249.677†	20276.3	21079.4	493.63	ug/L	493.63	ppb	21:00:50
2	Ba 233.527†	59866.9	60796.3	494.87	ug/L	494.87	ppb	21:00:50
2	Be 313.107†	1327964.9	1353338.0	498.24	ug/L	498.24	ppb	21:00:50
2	Cd 226.502†	39806.5	40632.5	475.01	ug/L	475.01	ppb	21:01:10
2	Co 228.616†	23267.0	23714.4	494.56	ug/L	494.56	ppb	21:01:10
2	Cr 267.716†	40831.9	41328.9	481.42	ug/L	481.42	ppb	21:00:50
2	Cu 324.752†	169178.3	163763.9	501.42	ug/L	501.42	ppb	21:00:50
2	Mn 257.610†	429077.4	435303.9	502.40	ug/L	502.40	ppb	21:00:50
2	Mo 202.031†	6533.2	6626.3	492.85	ug/L	492.85	ppb	21:01:10
2	Ni 231.604†	18777.8	18961.8	485.39	ug/L	485.39	ppb	21:01:10

2	P 214.914†	4605.8	4436.8	2363.7 ug/L	2363.7 ppb	21:01:10
2	Pb 220.353†	3816.4	3950.4	490.96 ug/L	490.96 ppb	21:01:10
2	S 181.975 Axial†	803.1	772.9	1009.2 ug/L	1009.2 ppb	21:01:10
2	Sb 206.836†	1460.2	1447.6	507.55 ug/L	507.55 ppb	21:01:10
2	Se 196.026†	814.5	850.8	515.40 ug/L	515.40 ppb	21:01:10
2	Si 251.611†	79614.6	80263.3	2495.1 ug/L	2495.1 ppb	21:00:50
2	Sn 189.927†	2705.2	2735.5	491.36 ug/L	491.36 ppb	21:01:10
2	Ti 334.940†	306143.2	312485.2	507.77 ug/L	507.77 ppb	21:00:50
2	Tl 190.801†	1520.1	1583.3	503.25 ug/L	503.25 ppb	21:01:10
2	U 409.014†	12814.1	16532.2	467.94 ug/L	467.94 ppb	21:00:50
2	V 292.402†	63707.1	66393.5	487.33 ug/L	487.33 ppb	21:00:50
2	Zn 213.857†	50505.5	50617.7	489.44 ug/L	489.44 ppb	21:00:50
2	SiO2†	79042.4	79674.9	5298.8 ug/L	5298.8 ppb	21:01:48
3	Sc Radial	4107.4	4107.4	96.6 %		21:00:14
3	Y RADIAL	4303.1	4303.1	97.75 %		20:59:54
3	Al 396.153Radial†	4706.9	5030.4	5008.7 ug/L	5008.7 ppb	20:59:54
3	Ca 317.933Radial†	2643.4	2717.5	5069.1 ug/L	5069.1 ppb	21:00:14
3	Fe 238.204 Radial†	504.4	512.0	5455.6 ug/L	5455.6 ppb	21:00:14
3	K 766.490 Radial†	27217.2	24996.5	5039.3 ug/L	5039.3 ppb	20:59:54
3	Mg 279.077 IEC†	136.5	138.5	5349.9 ug/L	5349.9 ppb	21:00:14
3	Na 589.592 Radial†	31365.0	32253.8	10759 ug/L	10759 ppb	20:59:54
3	Sr 421.552†	64856.3	67032.4	517.54 ug/L	517.54 ppb	20:59:54
3	Sc 361.383	836740.7	836740.7	98.439 %		21:01:18
3	Y 371.029	669708.0	669708.0	95.301 %		21:01:18
3	Ag 328.068†	100101.7	101461.4	490.51 ug/L	490.51 ppb	21:01:18
3	As 188.979†	1120.6	1166.7	495.39 ug/L	495.39 ppb	21:01:38
3	B 249.677†	20399.6	21205.0	496.59 ug/L	496.59 ppb	21:01:18
3	Ba 233.527†	60201.4	61137.1	497.64 ug/L	497.64 ppb	21:01:18
3	Be 313.107†	1328638.2	1354045.4	498.50 ug/L	498.50 ppb	21:01:18
3	Cd 226.502†	39435.1	40255.9	470.60 ug/L	470.60 ppb	21:01:38
3	Co 228.616†	23005.5	23449.1	489.02 ug/L	489.02 ppb	21:01:38
3	Cr 267.716†	40889.3	41388.0	482.11 ug/L	482.11 ppb	21:01:18
3	Cu 324.752†	169544.8	164139.1	502.58 ug/L	502.58 ppb	21:01:18
3	Mn 257.610†	430061.8	436311.5	503.55 ug/L	503.55 ppb	21:01:18
3	Mo 202.031†	6480.8	6573.1	488.90 ug/L	488.90 ppb	21:01:38
3	Ni 231.604†	18601.5	18783.0	480.81 ug/L	480.81 ppb	21:01:38
3	P 214.914†	4564.0	4394.4	2339.9 ug/L	2339.9 ppb	21:01:38
3	Pb 220.353†	3800.0	3933.8	488.89 ug/L	488.89 ppb	21:01:38
3	S 181.975 Axial†	789.4	759.0	991.06 ug/L	991.06 ppb	21:01:38
3	Sb 206.836†	1424.2	1411.1	494.98 ug/L	494.98 ppb	21:01:38
3	Se 196.026†	803.3	839.3	508.84 ug/L	508.84 ppb	21:01:38
3	Si 251.611†	79704.8	80356.3	2498.1 ug/L	2498.1 ppb	21:01:18
3	Sn 189.927†	2666.3	2696.0	484.28 ug/L	484.28 ppb	21:01:38
3	Ti 334.940†	306644.0	312999.3	508.59 ug/L	508.59 ppb	21:01:18
3	Tl 190.801†	1506.0	1569.0	498.79 ug/L	498.79 ppb	21:01:38
3	U 409.014†	12624.5	16339.8	462.47 ug/L	462.47 ppb	21:01:18
3	V 292.402†	63917.0	66607.8	488.81 ug/L	488.81 ppb	21:01:18
3	Zn 213.857†	50604.5	50719.2	490.45 ug/L	490.45 ppb	21:01:18
3	SiO2†	78528.4	79154.1	5264.1 ug/L	5264.1 ppb	21:01:53

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	835942.0	98.345	%	0.1642				0.17%
Sc Radial	4086.5	96.1	%	0.44				0.46%
Y 371.029	669677.9	95.297	%	0.1220				0.13%
Y RADIAL	4251.9	96.59	%	1.008				1.04%
Ag 328.068†	101369.0	490.05	ug/L	0.463	490.05	ppb	0.463	0.09%
QC value within limits for Ag 328.068 Recovery = 98.01%								
Al 396.153Radial†	5024.8	5003.0	ug/L	26.53	5003.0	ppb	26.53	0.53%
QC value within limits for Al 396.153Radial Recovery = 100.06%								
As 188.979†	1167.9	495.90	ug/L	3.867	495.90	ppb	3.867	0.78%
QC value within limits for As 188.979 Recovery = 99.18%								
B 249.677†	21096.2	494.03	ug/L	2.392	494.03	ppb	2.392	0.48%
QC value within limits for B 249.677 Recovery = 98.81%								
Ba 233.527†	60897.8	495.70	ug/L	1.692	495.70	ppb	1.692	0.34%
QC value within limits for Ba 233.527 Recovery = 99.14%								
Be 313.107†	1352910.7	498.08	ug/L	0.516	498.08	ppb	0.516	0.10%
QC value within limits for Be 313.107 Recovery = 99.62%								
Ca 317.933Radial†	2715.1	5064.6	ug/L	11.77	5064.6	ppb	11.77	0.23%

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   QC value within limits for Ca 317.933Radial  Recovery = 101.29%
Cd 226.502†            40418.5      472.50 ug/L         2.267      472.50 ppb          2.267   0.48%
   QC value within limits for Cd 226.502  Recovery = 94.50%
Co 228.616†            23577.3      491.70 ug/L         2.776      491.70 ppb          2.776   0.56%
   QC value within limits for Co 228.616  Recovery = 98.34%
Cr 267.716†            41296.5      481.05 ug/L         1.294      481.05 ppb          1.294   0.27%
   QC value within limits for Cr 267.716  Recovery = 96.21%
Cu 324.752†           163774.0      501.46 ug/L         1.101      501.46 ppb          1.101   0.22%
   QC value within limits for Cu 324.752  Recovery = 100.29%
Fe 238.204 Radial†       510.8      5443.3 ug/L        23.58      5443.3 ppb         23.58   0.43%
   QC value within limits for Fe 238.204 Radial  Recovery = 108.87%
K 766.490 Radial†      24880.7      5015.9 ug/L        24.35      5015.9 ppb         24.35   0.49%
   QC value within limits for K 766.490 Radial  Recovery = 100.32%
Mg 279.077 IEC†          136.1      5256.2 ug/L        93.29      5256.2 ppb         93.29   1.77%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.12%
Mn 257.610†           435162.9      502.23 ug/L         1.411      502.23 ppb          1.411   0.28%
   QC value within limits for Mn 257.610  Recovery = 100.45%
Mo 202.031†             6602.1      491.06 ug/L         1.999      491.06 ppb          1.999   0.41%
   QC value within limits for Mo 202.031  Recovery = 98.21%
Na 589.592 Radial†     32114.9       10712 ug/L          48.5       10712 ppb           48.5   0.45%
   QC value within limits for Na 589.592 Radial  Recovery = 107.12%
Ni 231.604†            18858.5      482.75 ug/L         2.369      482.75 ppb          2.369   0.49%
   QC value within limits for Ni 231.604  Recovery = 96.55%
P 214.914†              4410.0      2348.8 ug/L        13.05      2348.8 ppb         13.05   0.56%
   QC value within limits for P 214.914  Recovery = 93.95%
Pb 220.353†             3940.7      489.74 ug/L         1.086      489.74 ppb          1.086   0.22%
   QC value within limits for Pb 220.353  Recovery = 97.95%
S 181.975 Axial†         764.1      997.68 ug/L        10.033      997.68 ppb         10.033   1.01%
   QC value within limits for S 181.975 Axial  Recovery = 99.77%
Sb 206.836†             1426.3      500.23 ug/L         6.533      500.23 ppb          6.533   1.31%
   QC value within limits for Sb 206.836  Recovery = 100.05%
Se 196.026†              843.6      511.30 ug/L         3.572      511.30 ppb          3.572   0.70%
   QC value within limits for Se 196.026  Recovery = 102.26%
Si 251.611†            80220.1      2493.8 ug/L          5.07      2493.8 ppb          5.07   0.20%
   QC value within limits for Si 251.611  Recovery = 99.75%
Sn 189.927†             2713.0      487.33 ug/L         3.636      487.33 ppb          3.636   0.75%
   QC value within limits for Sn 189.927  Recovery = 97.47%
Sr 421.552†            66732.8      515.23 ug/L         2.405      515.23 ppb          2.405   0.47%
   QC value within limits for Sr 421.552  Recovery = 103.05%
Ti 334.940†           312405.9      507.63 ug/L         1.031      507.63 ppb          1.031   0.20%
   QC value within limits for Ti 334.940  Recovery = 101.53%
Tl 190.801†             1571.9      499.68 ug/L         3.219      499.68 ppb          3.219   0.64%
   QC value within limits for Tl 190.801  Recovery = 99.94%
U 409.014†             16341.2      462.51 ug/L         5.407      462.51 ppb          5.407   1.17%
   QC value within limits for U 409.014  Recovery = 92.50%
V 292.402†             66404.5      487.37 ug/L         1.421      487.37 ppb          1.421   0.29%
   QC value within limits for V 292.402  Recovery = 97.47%
Zn 213.857†            50554.7      488.84 ug/L         1.985      488.84 ppb          1.985   0.41%
   QC value within limits for Zn 213.857  Recovery = 97.77%
SiO2†                  79601.8      5293.9 ug/L        27.70      5293.9 ppb         27.70   0.52%
   QC value within limits for SiO2  Recovery = 99.00%
All analyte(s) passed QC.
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Sequence No.: 39
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/16/2010 21:04:03
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4061.0	4061.0	95.5	%			21:06:15
1	Y RADIAL	4228.7	4228.7	96.06	%			21:05:55
1	Al 396.153Radial†	-129.6	23.4	23.329	ug/L	23.329	ppb	21:05:55
1	Ca 317.933Radial†	17.6	0.1	0.2711	ug/L	0.2711	ppb	21:06:15
1	Fe 238.204 Radial†	11.8	2.2	23.859	ug/L	23.859	ppb	21:06:15
1	K 766.490 Radial†	3097.0	70.2	14.165	ug/L	14.165	ppb	21:05:55
1	Mg 279.077 IEC†	2.6	0.0	0.9769	ug/L	0.9769	ppb	21:06:15
1	Na 589.592 Radial†	243.0	47.3	15.777	ug/L	15.777	ppb	21:05:55
1	Sr 421.552†	38.5	-49.5	-0.3821	ug/L	-0.3821	ppb	21:05:55
1	Sc 361.383	826132.3	826132.3	97.191	%			21:07:12
1	Y 371.029	670161.6	670161.6	95.366	%			21:07:12
1	Ag 328.068†	315.3	96.8	0.4698	ug/L	0.4698	ppb	21:07:12
1	As 188.979†	-28.9	-1.4	-0.5999	ug/L	-0.5999	ppb	21:07:32
1	B 249.677†	-223.8	251.7	5.9171	ug/L	5.9171	ppb	21:07:32
1	Ba 233.527†	8.8	-9.8	-0.0786	ug/L	-0.0786	ppb	21:07:32
1	Be 313.107†	-4178.5	39.8	0.0150	ug/L	0.0150	ppb	21:07:12
1	Cd 226.502†	-208.6	-19.1	-0.2254	ug/L	-0.2254	ppb	21:07:32
1	Co 228.616†	-80.0	-3.4	-0.0704	ug/L	-0.0704	ppb	21:07:32
1	Cr 267.716†	72.0	-75.6	-0.8804	ug/L	-0.8804	ppb	21:07:32
1	Cu 324.752†	8199.6	342.5	1.0479	ug/L	1.0479	ppb	21:07:12
1	Mn 257.610†	815.9	269.8	0.3135	ug/L	0.3135	ppb	21:07:32
1	Mo 202.031†	19.7	9.9	0.7341	ug/L	0.7341	ppb	21:07:32
1	Ni 231.604†	103.9	-6.6	-0.1693	ug/L	-0.1693	ppb	21:07:32
1	P 214.914†	233.2	-2.0	-1.3216	ug/L	-1.3216	ppb	21:07:32
1	Pb 220.353†	-78.7	-7.4	-0.9161	ug/L	-0.9161	ppb	21:07:32
1	S 181.975 Axial†	58.3	17.0	22.253	ug/L	22.253	ppb	21:07:32
1	Sb 206.836†	43.0	8.6	2.9312	ug/L	2.9312	ppb	21:07:32
1	Se 196.026†	-23.4	-0.7	-0.3359	ug/L	-0.3359	ppb	21:07:32
1	Si 251.611†	688.2	95.8	2.9751	ug/L	2.9751	ppb	21:07:32
1	Sn 189.927†	20.2	8.1	1.4568	ug/L	1.4568	ppb	21:07:32
1	Ti 334.940†	-1359.9	93.7	0.1509	ug/L	0.1509	ppb	21:07:12
1	Tl 190.801†	-39.7	-1.8	-0.5494	ug/L	-0.5494	ppb	21:07:32
1	U 409.014†	-3289.4	130.7	3.7117	ug/L	3.7117	ppb	21:07:12
1	V 292.402†	-1623.3	7.1	0.0655	ug/L	0.0655	ppb	21:07:12
1	Zn 213.857†	704.3	36.9	0.3558	ug/L	0.3558	ppb	21:07:32
1	SiO2†	653.9	53.2	3.5284	ug/L	3.5284	ppb	21:08:28
2	Sc Radial	4040.2	4040.2	95.0	%			21:06:40
2	Y RADIAL	4190.2	4190.2	95.18	%			21:06:20
2	Al 396.153Radial†	-145.2	6.3	6.2022	ug/L	6.2022	ppb	21:06:20
2	Ca 317.933Radial†	19.7	2.4	4.4430	ug/L	4.4430	ppb	21:06:40
2	Fe 238.204 Radial†	10.6	1.1	11.971	ug/L	11.971	ppb	21:06:40
2	K 766.490 Radial†	3146.7	139.3	28.112	ug/L	28.112	ppb	21:06:20
2	Mg 279.077 IEC†	4.7	2.3	87.332	ug/L	87.332	ppb	21:06:40
2	Na 589.592 Radial†	206.3	10.0	3.3238	ug/L	3.3238	ppb	21:06:20
2	Sr 421.552†	-3.1	-93.1	-0.7186	ug/L	-0.7186	ppb	21:06:20
2	Sc 361.383	826159.0	826159.0	97.194	%			21:07:37
2	Y 371.029	670488.1	670488.1	95.412	%			21:07:37
2	Ag 328.068†	168.6	-54.2	-0.2575	ug/L	-0.2575	ppb	21:07:37
2	As 188.979†	-31.5	-4.1	-1.7338	ug/L	-1.7338	ppb	21:07:57
2	B 249.677†	-249.7	225.0	5.2917	ug/L	5.2917	ppb	21:07:57
2	Ba 233.527†	28.5	10.5	0.0862	ug/L	0.0862	ppb	21:07:57
2	Be 313.107†	-4170.2	48.6	0.0197	ug/L	0.0197	ppb	21:07:37
2	Cd 226.502†	-208.6	-19.1	-0.2249	ug/L	-0.2249	ppb	21:07:57
2	Co 228.616†	-78.1	-1.5	-0.0285	ug/L	-0.0285	ppb	21:07:57
2	Cr 267.716†	98.5	-48.3	-0.5623	ug/L	-0.5623	ppb	21:07:57
2	Cu 324.752†	8231.9	375.4	1.1490	ug/L	1.1490	ppb	21:07:37
2	Mn 257.610†	770.9	223.4	0.2553	ug/L	0.2553	ppb	21:07:57
2	Mo 202.031†	29.1	19.5	1.4469	ug/L	1.4469	ppb	21:07:57
2	Ni 231.604†	92.2	-18.6	-0.4768	ug/L	-0.4768	ppb	21:07:57

2	P 214.914†	244.7	9.8	5.2128	ug/L	5.2128	ppb	21:07:57
2	Pb 220.353†	-75.5	-4.2	-0.5109	ug/L	-0.5109	ppb	21:07:57
2	S 181.975 Axial†	56.8	15.5	20.280	ug/L	20.280	ppb	21:07:57
2	Sb 206.836†	37.1	2.5	0.8999	ug/L	0.8999	ppb	21:07:57
2	Se 196.026†	-18.1	4.7	2.8084	ug/L	2.8084	ppb	21:07:57
2	Si 251.611†	682.7	90.1	2.7908	ug/L	2.7908	ppb	21:07:57
2	Sn 189.927†	22.5	10.6	1.8974	ug/L	1.8974	ppb	21:07:57
2	Ti 334.940†	-964.4	500.7	0.8065	ug/L	0.8065	ppb	21:07:37
2	Tl 190.801†	-47.1	-9.4	-2.9504	ug/L	-2.9504	ppb	21:07:57
2	U 409.014†	-3346.3	72.2	2.0515	ug/L	2.0515	ppb	21:07:37
2	V 292.402†	-1609.3	21.5	0.1793	ug/L	0.1793	ppb	21:07:37
2	Zn 213.857†	698.0	30.4	0.2960	ug/L	0.2960	ppb	21:07:57
2	SiO2†	633.8	32.6	2.1349	ug/L	2.1349	ppb	21:08:33
3	Sc Radial	4010.6	4010.6	94.3	%			21:07:05
3	Y RADIAL	4315.9	4315.9	98.04	%			21:06:45
3	Al 396.153Radial†	-119.2	32.7	32.672	ug/L	32.672	ppb	21:06:45
3	Ca 317.933Radial†	15.9	-1.4	-2.6988	ug/L	-2.6988	ppb	21:07:05
3	Fe 238.204 Radial†	11.3	1.9	20.147	ug/L	20.147	ppb	21:07:05
3	K 766.490 Radial†	3048.7	59.7	12.048	ug/L	12.048	ppb	21:06:45
3	Mg 279.077 IEC†	2.3	-0.3	-11.327	ug/L	-11.327	ppb	21:07:05
3	Na 589.592 Radial†	254.0	62.2	20.733	ug/L	20.733	ppb	21:06:45
3	Sr 421.552†	23.3	-65.1	-0.5029	ug/L	-0.5029	ppb	21:06:45
3	Sc 361.383	823909.0	823909.0	96.929	%			21:08:02
3	Y 371.029	668640.1	668640.1	95.149	%			21:08:02
3	Ag 328.068†	216.9	-4.0	-0.0175	ug/L	-0.0175	ppb	21:08:02
3	As 188.979†	-33.1	-5.8	-2.4351	ug/L	-2.4351	ppb	21:08:22
3	B 249.677†	-249.3	224.7	5.2819	ug/L	5.2819	ppb	21:08:22
3	Ba 233.527†	-0.8	-19.6	-0.1601	ug/L	-0.1601	ppb	21:08:22
3	Be 313.107†	-4143.3	64.6	0.0238	ug/L	0.0238	ppb	21:08:02
3	Cd 226.502†	-191.1	-1.7	-0.0215	ug/L	-0.0215	ppb	21:08:22
3	Co 228.616†	-64.9	12.0	0.2509	ug/L	0.2509	ppb	21:08:22
3	Cr 267.716†	63.0	-84.7	-0.9873	ug/L	-0.9873	ppb	21:08:22
3	Cu 324.752†	8047.1	207.9	0.6358	ug/L	0.6358	ppb	21:08:02
3	Mn 257.610†	696.8	149.1	0.1744	ug/L	0.1744	ppb	21:08:22
3	Mo 202.031†	18.3	8.4	0.6253	ug/L	0.6253	ppb	21:08:22
3	Ni 231.604†	83.9	-27.0	-0.6912	ug/L	-0.6912	ppb	21:08:22
3	P 214.914†	240.8	6.4	3.4326	ug/L	3.4326	ppb	21:08:22
3	Pb 220.353†	-96.0	-25.4	-3.1456	ug/L	-3.1456	ppb	21:08:22
3	S 181.975 Axial†	65.6	24.8	32.402	ug/L	32.402	ppb	21:08:22
3	Sb 206.836†	33.5	-1.1	-0.3375	ug/L	-0.3375	ppb	21:08:22
3	Se 196.026†	-29.5	-7.1	-4.0741	ug/L	-4.0741	ppb	21:08:22
3	Si 251.611†	702.4	112.3	3.4916	ug/L	3.4916	ppb	21:08:22
3	Sn 189.927†	20.8	8.9	1.5922	ug/L	1.5922	ppb	21:08:22
3	Ti 334.940†	-1428.1	19.5	0.0312	ug/L	0.0312	ppb	21:08:02
3	Tl 190.801†	-28.2	10.0	3.1518	ug/L	3.1518	ppb	21:08:22
3	U 409.014†	-3290.4	120.6	3.4250	ug/L	3.4250	ppb	21:08:02
3	V 292.402†	-1711.3	-88.2	-0.6262	ug/L	-0.6262	ppb	21:08:02
3	Zn 213.857†	701.8	36.3	0.3546	ug/L	0.3546	ppb	21:08:22
3	SiO2†	704.0	106.8	7.1035	ug/L	7.1035	ppb	21:08:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	825400.1	97.105	%	0.1519				0.16%
Sc Radial	4037.3	95.0	%	0.60				0.63%
Y 371.029	669763.3	95.309	%	0.1404				0.15%
Y RADIAL	4245.0	96.43	%	1.463				1.52%
Ag 328.068†	12.9	0.0649	ug/L	0.37062	0.0649	ppb	0.37062	570.86%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	20.8	20.735	ug/L	13.4244	20.735	ppb	13.4244	64.74%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.8	-1.5896	ug/L	0.92606	-1.5896	ppb	0.92606	58.26%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	233.8	5.4969	ug/L	0.36396	5.4969	ppb	0.36396	6.62%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-6.3	-0.0508	ug/L	0.12548	-0.0508	ppb	0.12548	246.78%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	51.0	0.0195	ug/L	0.00441	0.0195	ppb	0.00441	22.63%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	0.4	0.6718	ug/L	3.58772	0.6718	ppb	3.58772	534.07%

```
   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -13.3     -0.1572 ug/L       0.11756     -0.1572 ppb        0.11756  74.76%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                2.4      0.0507 ug/L       0.17464      0.0507 ppb        0.17464 344.61%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -69.5     -0.8100 ug/L       0.22110     -0.8100 ppb        0.22110  27.30%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              308.6      0.9442 ug/L       0.27185      0.9442 ppb        0.27185  28.79%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.8     18.659 ug/L        6.0821     18.659 ppb         6.0821  32.60%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         89.7     18.108 ug/L        8.7276     18.108 ppb         8.7276  48.20%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            0.7     25.660 ug/L       53.7619     25.660 ppb        53.7619 209.51%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              214.1      0.2477 ug/L       0.06984      0.2477 ppb        0.06984  28.19%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               12.6      0.9354 ug/L       0.44626      0.9354 ppb        0.44626  47.71%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        39.8     13.278 ug/L        8.9697     13.278 ppb         8.9697  67.55%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -17.4     -0.4457 ug/L       0.26233     -0.4457 ppb        0.26233  58.85%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 4.7      2.4413 ug/L       3.37808      2.4413 ppb        3.37808 138.37%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -12.3     -1.5242 ug/L       1.41873     -1.5242 ppb        1.41873  93.08%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          19.1     24.978 ug/L        6.5040     24.978 ppb         6.5040  26.04%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                3.3      1.1645 ug/L       1.65033      1.1645 ppb        1.65033 141.72%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -1.0     -0.5338 ug/L       3.44550     -0.5338 ppb        3.44550 645.42%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               99.4      3.0858 ug/L       0.36326      3.0858 ppb        0.36326  11.77%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                9.2      1.6488 ug/L       0.22571      1.6488 ppb        0.22571  13.69%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -69.2     -0.5345 ug/L       0.17044     -0.5345 ppb        0.17044  31.89%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              204.6      0.3295 ug/L       0.41741      0.3295 ppb        0.41741 126.67%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -0.4     -0.1160 ug/L       3.07411     -0.1160 ppb        3.07411 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               107.8      3.0627 ug/L       0.88743      3.0627 ppb        0.88743  28.98%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -19.9     -0.1271 ug/L       0.43594     -0.1271 ppb        0.43594 342.93%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               34.5      0.3354 ug/L       0.03420      0.3354 ppb        0.03420  10.19%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     64.2      4.2556 ug/L       2.56287      4.2556 ppb        2.56287  60.22%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 48
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/16/2010 22:07:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4059.7	4059.7	95.5	%			22:09:44
1	Y RADIAL	4222.0	4222.0	95.91	%			22:09:24
1	Al 396.153Radial†	4686.3	5066.0	5044.6	ug/L	5044.6	ppb	22:09:24
1	Ca 317.933Radial†	2617.3	2722.2	5077.9	ug/L	5077.9	ppb	22:09:44
1	Fe 238.204 Radial†	499.5	513.0	5466.8	ug/L	5466.8	ppb	22:09:44
1	K 766.490 Radial†	26902.4	24997.9	5039.5	ug/L	5039.5	ppb	22:09:24
1	Mg 279.077 IEC†	135.1	138.8	5358.3	ug/L	5358.3	ppb	22:09:44
1	Na 589.592 Radial†	31490.7	32766.8	10930	ug/L	10930	ppb	22:09:24
1	Sr 421.552†	64578.4	67530.2	521.38	ug/L	521.38	ppb	22:09:24
1	Sc 361.383	841574.7	841574.7	99.008	%			22:10:42
1	Y 371.029	673588.0	673588.0	95.853	%			22:10:42
1	Ag 328.068†	100691.4	101472.8	490.55	ug/L	490.55	ppb	22:10:47
1	As 188.979†	1109.6	1149.0	487.87	ug/L	487.87	ppb	22:11:07
1	B 249.677†	20235.3	20920.0	489.87	ug/L	489.87	ppb	22:10:47
1	Ba 233.527†	60104.0	60687.5	493.99	ug/L	493.99	ppb	22:10:47
1	Be 313.107†	1339020.5	1356779.1	499.48	ug/L	499.48	ppb	22:10:42
1	Cd 226.502†	40580.7	41182.9	481.44	ug/L	481.44	ppb	22:10:47
1	Co 228.616†	23425.8	23739.4	495.08	ug/L	495.08	ppb	22:10:47
1	Cr 267.716†	40979.3	41240.3	480.39	ug/L	480.39	ppb	22:10:47
1	Cu 324.752†	168824.5	162422.3	497.31	ug/L	497.31	ppb	22:10:47
1	Mn 257.610†	433726.3	437503.3	504.93	ug/L	504.93	ppb	22:10:42
1	Mo 202.031†	6424.5	6478.4	481.87	ug/L	481.87	ppb	22:11:07
1	Ni 231.604†	18941.1	19017.4	486.82	ug/L	486.82	ppb	22:10:47
1	P 214.914†	4531.7	4335.1	2308.0	ug/L	2308.0	ppb	22:11:07
1	Pb 220.353†	3749.9	3861.0	479.86	ug/L	479.86	ppb	22:11:07
1	S 181.975 Axial†	790.0	755.0	985.84	ug/L	985.84	ppb	22:11:07
1	Sb 206.836†	1422.5	1401.0	491.46	ug/L	491.46	ppb	22:11:07
1	Se 196.026†	804.3	835.7	506.72	ug/L	506.72	ppb	22:11:07
1	Si 251.611†	79900.4	80088.8	2489.8	ug/L	2489.8	ppb	22:10:47
1	Sn 189.927†	2671.2	2685.3	482.37	ug/L	482.37	ppb	22:11:07
1	Ti 334.940†	300096.0	304596.5	494.93	ug/L	494.93	ppb	22:10:47
1	Tl 190.801†	1509.7	1564.0	497.06	ug/L	497.06	ppb	22:11:07
1	U 409.014†	13096.9	16743.3	473.93	ug/L	473.93	ppb	22:10:47
1	V 292.402†	64118.4	66438.3	487.52	ug/L	487.52	ppb	22:10:47
1	Zn 213.857†	50696.6	50516.9	488.44	ug/L	488.44	ppb	22:10:47
1	SiO2†	78904.0	79075.2	5259.1	ug/L	5259.1	ppb	22:12:14
2	Sc Radial	4061.7	4061.7	95.5	%			22:10:09
2	Y RADIAL	4303.1	4303.1	97.75	%			22:09:49
2	Al 396.153Radial†	4734.9	5114.5	5093.0	ug/L	5093.0	ppb	22:09:49
2	Ca 317.933Radial†	2612.1	2715.5	5065.4	ug/L	5065.4	ppb	22:10:09
2	Fe 238.204 Radial†	501.0	514.3	5480.4	ug/L	5480.4	ppb	22:10:09
2	K 766.490 Radial†	27203.8	25299.3	5100.3	ug/L	5100.3	ppb	22:09:49
2	Mg 279.077 IEC†	127.9	131.2	5065.7	ug/L	5065.7	ppb	22:10:09
2	Na 589.592 Radial†	31654.7	32922.1	10981	ug/L	10981	ppb	22:09:49
2	Sr 421.552†	65173.3	68119.2	525.93	ug/L	525.93	ppb	22:09:49
2	Sc 361.383	835912.7	835912.7	98.342	%			22:11:13
2	Y 371.029	668417.9	668417.9	95.118	%			22:11:13
2	Ag 328.068†	101090.5	102567.5	495.82	ug/L	495.82	ppb	22:11:18
2	As 188.979†	1118.2	1165.4	494.81	ug/L	494.81	ppb	22:11:38
2	B 249.677†	20459.3	21286.2	498.46	ug/L	498.46	ppb	22:11:18
2	Ba 233.527†	60400.0	61399.7	499.78	ug/L	499.78	ppb	22:11:18
2	Be 313.107†	1326028.9	1352729.0	498.00	ug/L	498.00	ppb	22:11:13
2	Cd 226.502†	40703.1	41585.0	486.15	ug/L	486.15	ppb	22:11:18
2	Co 228.616†	23577.3	24053.8	501.64	ug/L	501.64	ppb	22:11:18
2	Cr 267.716†	41102.8	41646.2	485.11	ug/L	485.11	ppb	22:11:18
2	Cu 324.752†	170139.8	164914.8	504.94	ug/L	504.94	ppb	22:11:18
2	Mn 257.610†	429961.3	436642.0	503.95	ug/L	503.95	ppb	22:11:13
2	Mo 202.031†	6424.5	6522.3	485.13	ug/L	485.13	ppb	22:11:38
2	Ni 231.604†	18922.5	19128.1	489.65	ug/L	489.65	ppb	22:11:18

2	P 214.914†	4531.7	4366.2	2323.8 ug/L	2323.8 ppb	22:11:38
2	Pb 220.353†	3730.0	3866.4	480.54 ug/L	480.54 ppb	22:11:38
2	S 181.975 Axial†	793.1	763.6	997.00 ug/L	997.00 ppb	22:11:38
2	Sb 206.836†	1433.4	1421.9	498.59 ug/L	498.59 ppb	22:11:38
2	Se 196.026†	808.0	845.0	512.19 ug/L	512.19 ppb	22:11:38
2	Si 251.611†	80559.1	81305.3	2527.7 ug/L	2527.7 ppb	22:11:18
2	Sn 189.927†	2662.5	2694.8	484.06 ug/L	484.06 ppb	22:11:38
2	Ti 334.940†	301881.3	308464.9	501.23 ug/L	501.23 ppb	22:11:18
2	Tl 190.801†	1511.3	1575.8	500.82 ug/L	500.82 ppb	22:11:38
2	U 409.014†	13490.6	17233.3	487.84 ug/L	487.84 ppb	22:11:18
2	V 292.402†	64351.2	67113.6	492.47 ug/L	492.47 ppb	22:11:18
2	Zn 213.857†	50842.5	51012.1	493.25 ug/L	493.25 ppb	22:11:18
2	SiO2†	78744.5	79452.9	5284.2 ug/L	5284.2 ppb	22:12:19
3	Sc Radial	4067.0	4067.0	95.7 %		22:10:34
3	Y RADIAL	4274.5	4274.5	97.10 %		22:10:14
3	Al 396.153Radial†	4674.6	5045.0	5023.2 ug/L	5023.2 ppb	22:10:14
3	Ca 317.933Radial†	2618.7	2718.8	5071.6 ug/L	5071.6 ppb	22:10:34
3	Fe 238.204 Radial†	498.8	511.3	5448.6 ug/L	5448.6 ppb	22:10:34
3	K 766.490 Radial†	26943.8	24990.4	5038.0 ug/L	5038.0 ppb	22:10:14
3	Mg 279.077 IEC†	134.7	138.1	5333.9 ug/L	5333.9 ppb	22:10:34
3	Na 589.592 Radial†	31428.1	32642.0	10888 ug/L	10888 ppb	22:10:14
3	Sr 421.552†	64729.8	67566.5	521.66 ug/L	521.66 ppb	22:10:14
3	Sc 361.383	829364.8	829364.8	97.571 %		22:11:44
3	Y 371.029	664180.7	664180.7	94.515 %		22:11:44
3	Ag 328.068†	100021.3	102283.3	494.45 ug/L	494.45 ppb	22:11:49
3	As 188.979†	1119.5	1175.7	499.11 ug/L	499.11 ppb	22:12:09
3	B 249.677†	20131.5	21114.5	494.44 ug/L	494.44 ppb	22:11:49
3	Ba 233.527†	59826.0	61296.3	498.94 ug/L	498.94 ppb	22:11:49
3	Be 313.107†	1316532.6	1353641.9	498.33 ug/L	498.33 ppb	22:11:44
3	Cd 226.502†	40192.0	41387.9	483.85 ug/L	483.85 ppb	22:11:49
3	Co 228.616†	23250.1	23907.7	498.61 ug/L	498.61 ppb	22:11:49
3	Cr 267.716†	40800.5	41666.4	485.35 ug/L	485.35 ppb	22:11:49
3	Cu 324.752†	167825.6	163908.9	501.86 ug/L	501.86 ppb	22:11:49
3	Mn 257.610†	425531.3	435553.6	502.68 ug/L	502.68 ppb	22:11:44
3	Mo 202.031†	6444.4	6594.4	490.49 ug/L	490.49 ppb	22:12:09
3	Ni 231.604†	18785.9	19140.0	489.95 ug/L	489.95 ppb	22:11:49
3	P 214.914†	4548.3	4419.6	2354.1 ug/L	2354.1 ppb	22:12:09
3	Pb 220.353†	3763.2	3930.4	488.47 ug/L	488.47 ppb	22:12:09
3	S 181.975 Axial†	789.0	765.7	999.78 ug/L	999.78 ppb	22:12:09
3	Sb 206.836†	1452.7	1453.2	509.41 ug/L	509.41 ppb	22:12:09
3	Se 196.026†	813.4	857.0	519.11 ug/L	519.11 ppb	22:12:09
3	Si 251.611†	79370.6	80734.0	2509.8 ug/L	2509.8 ppb	22:11:49
3	Sn 189.927†	2676.7	2730.7	490.51 ug/L	490.51 ppb	22:12:09
3	Ti 334.940†	298555.0	307479.4	499.61 ug/L	499.61 ppb	22:11:49
3	Tl 190.801†	1497.4	1573.8	500.17 ug/L	500.17 ppb	22:12:09
3	U 409.014†	13134.7	16976.8	480.56 ug/L	480.56 ppb	22:11:49
3	V 292.402†	63703.0	66966.0	491.47 ug/L	491.47 ppb	22:11:49
3	Zn 213.857†	50326.8	50891.8	492.08 ug/L	492.08 ppb	22:11:49
3	SiO2†	78944.4	80289.9	5339.8 ug/L	5339.8 ppb	22:12:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	835617.4	98.307	%	0.7189				0.73%
Sc Radial	4062.8	95.6	%	0.09				0.09%
Y 371.029	668728.9	95.162	%	0.6704				0.70%
Y RADIAL	4266.5	96.92	%	0.934				0.96%
Ag 328.068†	102107.9	493.61	ug/L	2.733	493.61	ppb	2.733	0.55%
QC value within limits for Ag 328.068 Recovery = 98.72%								
Al 396.153Radial†	5075.2	5053.6	ug/L	35.74	5053.6	ppb	35.74	0.71%
QC value within limits for Al 396.153Radial Recovery = 101.07%								
As 188.979†	1163.4	493.93	ug/L	5.673	493.93	ppb	5.673	1.15%
QC value within limits for As 188.979 Recovery = 98.79%								
B 249.677†	21106.9	494.26	ug/L	4.300	494.26	ppb	4.300	0.87%
QC value within limits for B 249.677 Recovery = 98.85%								
Ba 233.527†	61127.8	497.57	ug/L	3.130	497.57	ppb	3.130	0.63%
QC value within limits for Ba 233.527 Recovery = 99.51%								
Be 313.107†	1354383.3	498.60	ug/L	0.773	498.60	ppb	0.773	0.16%
QC value within limits for Be 313.107 Recovery = 99.72%								
Ca 317.933Radial†	2718.8	5071.6	ug/L	6.29	5071.6	ppb	6.29	0.12%

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   QC value within limits for Ca 317.933Radial  Recovery = 101.43%
Cd 226.502†            41385.3      483.81 ug/L         2.353      483.81 ppb          2.353   0.49%
   QC value within limits for Cd 226.502  Recovery = 96.76%
Co 228.616†            23900.3      498.44 ug/L         3.278      498.44 ppb          3.278   0.66%
   QC value within limits for Co 228.616  Recovery = 99.69%
Cr 267.716†            41517.6      483.62 ug/L         2.798      483.62 ppb          2.798   0.58%
   QC value within limits for Cr 267.716  Recovery = 96.72%
Cu 324.752†           163748.6      501.37 ug/L         3.836      501.37 ppb          3.836   0.77%
   QC value within limits for Cu 324.752  Recovery = 100.27%
Fe 238.204 Radial†       512.9      5465.3 ug/L        15.98      5465.3 ppb         15.98   0.29%
   QC value within limits for Fe 238.204 Radial  Recovery = 109.31%
K 766.490 Radial†      25095.9      5059.3 ug/L        35.56      5059.3 ppb         35.56   0.70%
   QC value within limits for K 766.490 Radial  Recovery = 101.19%
Mg 279.077 IEC†          136.0      5252.6 ug/L       162.35      5252.6 ppb        162.35   3.09%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.05%
Mn 257.610†           436566.3      503.85 ug/L         1.128      503.85 ppb          1.128   0.22%
   QC value within limits for Mn 257.610  Recovery = 100.77%
Mo 202.031†             6531.7      485.83 ug/L         4.350      485.83 ppb          4.350   0.90%
   QC value within limits for Mo 202.031  Recovery = 97.17%
Na 589.592 Radial†     32776.9       10933 ug/L          46.8       10933 ppb           46.8   0.43%
   QC value within limits for Na 589.592 Radial  Recovery = 109.33%
Ni 231.604†            19095.2      488.81 ug/L         1.729      488.81 ppb          1.729   0.35%
   QC value within limits for Ni 231.604  Recovery = 97.76%
P 214.914†              4373.6      2328.6 ug/L        23.40      2328.6 ppb         23.40   1.00%
   QC value within limits for P 214.914  Recovery = 93.14%
Pb 220.353†             3886.0      482.96 ug/L         4.787      482.96 ppb          4.787   0.99%
   QC value within limits for Pb 220.353  Recovery = 96.59%
S 181.975 Axial†         761.4      994.21 ug/L         7.376      994.21 ppb          7.376   0.74%
   QC value within limits for S 181.975 Axial  Recovery = 99.42%
Sb 206.836†             1425.4      499.82 ug/L         9.038      499.82 ppb          9.038   1.81%
   QC value within limits for Sb 206.836  Recovery = 99.96%
Se 196.026†              845.9      512.67 ug/L         6.212      512.67 ppb          6.212   1.21%
   QC value within limits for Se 196.026  Recovery = 102.53%
Si 251.611†            80709.4      2509.1 ug/L        18.94      2509.1 ppb         18.94   0.75%
   QC value within limits for Si 251.611  Recovery = 100.37%
Sn 189.927†             2703.6      485.65 ug/L         4.297      485.65 ppb          4.297   0.88%
   QC value within limits for Sn 189.927  Recovery = 97.13%
Sr 421.552†            67738.6      522.99 ug/L         2.549      522.99 ppb          2.549   0.49%
   QC value within limits for Sr 421.552  Recovery = 104.60%
Ti 334.940†           306846.9      498.59 ug/L         3.273      498.59 ppb          3.273   0.66%
   QC value within limits for Ti 334.940  Recovery = 99.72%
Tl 190.801†             1571.2      499.35 ug/L         2.011      499.35 ppb          2.011   0.40%
   QC value within limits for Tl 190.801  Recovery = 99.87%
U 409.014†             16984.5      480.78 ug/L         6.956      480.78 ppb          6.956   1.45%
   QC value within limits for U 409.014  Recovery = 96.16%
V 292.402†             66839.3      490.49 ug/L         2.617      490.49 ppb          2.617   0.53%
   QC value within limits for V 292.402  Recovery = 98.10%
Zn 213.857†            50806.9      491.26 ug/L         2.505      491.26 ppb          2.505   0.51%
   QC value within limits for Zn 213.857  Recovery = 98.25%
SiO2†                  79606.0      5294.4 ug/L        41.33      5294.4 ppb         41.33   0.78%
   QC value within limits for SiO2  Recovery = 99.01%
All analyte(s) passed QC.
```

Sequence No.: 49
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/16/2010 22:14:34
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3999.0	3999.0	94.1	%			22:16:46
1	Y RADIAL	4234.9	4234.9	96.20	%			22:16:26
1	Al 396.153Radial†	-104.6	47.9	47.844	ug/L	47.844	ppb	22:16:26
1	Ca 317.933Radial†	18.1	0.9	1.6951	ug/L	1.6951	ppb	22:16:46
1	Fe 238.204 Radial†	12.5	3.2	34.027	ug/L	34.027	ppb	22:16:46
1	K 766.490 Radial†	3086.0	108.9	21.998	ug/L	21.998	ppb	22:16:26
1	Mg 279.077 IEC†	-0.3	-3.1	-119.03	ug/L	-119.03	ppb	22:16:46
1	Na 589.592 Radial†	28.6	-176.7	-58.924	ug/L	-58.924	ppb	22:16:26
1	Sr 421.552†	95.2	11.4	0.0878	ug/L	0.0878	ppb	22:16:26
1	Sc 361.383	818463.0	818463.0	96.289	%			22:17:43
1	Y 371.029	664260.0	664260.0	94.526	%			22:17:43
1	Ag 328.068†	327.6	112.6	0.5502	ug/L	0.5502	ppb	22:17:43
1	As 188.979†	-33.3	-6.3	-2.6331	ug/L	-2.6331	ppb	22:18:03
1	B 249.677†	-360.2	107.8	2.5312	ug/L	2.5312	ppb	22:18:03
1	Ba 233.527†	2.5	-16.3	-0.1313	ug/L	-0.1313	ppb	22:18:03
1	Be 313.107†	-4095.7	85.6	0.0321	ug/L	0.0321	ppb	22:17:43
1	Cd 226.502†	-210.4	-23.0	-0.2723	ug/L	-0.2723	ppb	22:18:03
1	Co 228.616†	-71.6	4.5	0.0959	ug/L	0.0959	ppb	22:18:03
1	Cr 267.716†	51.4	-96.3	-1.1202	ug/L	-1.1202	ppb	22:18:03
1	Cu 324.752†	8177.9	399.0	1.2226	ug/L	1.2226	ppb	22:17:43
1	Mn 257.610†	737.7	196.4	0.2347	ug/L	0.2347	ppb	22:18:03
1	Mo 202.031†	29.7	20.4	1.5160	ug/L	1.5160	ppb	22:18:03
1	Ni 231.604†	107.6	-1.7	-0.0446	ug/L	-0.0446	ppb	22:18:03
1	P 214.914†	235.3	2.4	1.0896	ug/L	1.0896	ppb	22:18:03
1	Pb 220.353†	-48.7	23.0	2.8556	ug/L	2.8556	ppb	22:18:03
1	S 181.975 Axial†	57.8	17.1	22.373	ug/L	22.373	ppb	22:18:03
1	Sb 206.836†	45.4	11.5	3.9275	ug/L	3.9275	ppb	22:18:03
1	Se 196.026†	-22.9	-0.4	-0.1238	ug/L	-0.1238	ppb	22:18:03
1	Si 251.611†	688.2	102.4	3.1723	ug/L	3.1723	ppb	22:18:03
1	Sn 189.927†	16.5	4.6	0.8195	ug/L	0.8195	ppb	22:18:03
1	Ti 334.940†	-1263.5	180.7	0.3033	ug/L	0.3033	ppb	22:17:43
1	Tl 190.801†	-42.5	-5.0	-1.5840	ug/L	-1.5840	ppb	22:18:03
1	U 409.014†	-3326.1	60.8	1.7265	ug/L	1.7265	ppb	22:17:43
1	V 292.402†	-1631.4	-17.0	-0.1053	ug/L	-0.1053	ppb	22:17:43
1	Zn 213.857†	697.7	36.8	0.3527	ug/L	0.3527	ppb	22:18:03
1	SiO2†	657.9	63.7	4.2058	ug/L	4.2058	ppb	22:18:59
2	Sc Radial	4045.1	4045.1	95.2	%			22:17:11
2	Y RADIAL	4195.1	4195.1	95.29	%			22:16:51
2	Al 396.153Radial†	-118.5	34.5	34.493	ug/L	34.493	ppb	22:16:51
2	Ca 317.933Radial†	13.7	-3.9	-7.2610	ug/L	-7.2610	ppb	22:17:11
2	Fe 238.204 Radial†	9.0	-0.6	-6.9044	ug/L	-6.9044	ppb	22:17:11
2	K 766.490 Radial†	3123.4	110.7	22.366	ug/L	22.366	ppb	22:16:51
2	Mg 279.077 IEC†	5.3	2.9	110.50	ug/L	110.50	ppb	22:17:11
2	Na 589.592 Radial†	47.3	-157.4	-52.492	ug/L	-52.492	ppb	22:16:51
2	Sr 421.552†	33.7	-54.4	-0.4198	ug/L	-0.4198	ppb	22:16:51
2	Sc 361.383	824608.2	824608.2	97.012	%			22:18:08
2	Y 371.029	668157.7	668157.7	95.081	%			22:18:08
2	Ag 328.068†	145.8	-77.4	-0.3764	ug/L	-0.3764	ppb	22:18:08
2	As 188.979†	-31.3	-3.9	-1.6480	ug/L	-1.6480	ppb	22:18:28
2	B 249.677†	-365.0	105.6	2.4859	ug/L	2.4859	ppb	22:18:28
2	Ba 233.527†	38.6	21.0	0.1695	ug/L	0.1695	ppb	22:18:28
2	Be 313.107†	-4233.3	-24.6	-0.0085	ug/L	-0.0085	ppb	22:18:08
2	Cd 226.502†	-206.4	-17.2	-0.2009	ug/L	-0.2009	ppb	22:18:28
2	Co 228.616†	-75.3	1.3	0.0273	ug/L	0.0273	ppb	22:18:28
2	Cr 267.716†	65.2	-82.5	-0.9614	ug/L	-0.9614	ppb	22:18:28
2	Cu 324.752†	8212.1	371.0	1.1347	ug/L	1.1347	ppb	22:18:08
2	Mn 257.610†	682.2	133.5	0.1488	ug/L	0.1488	ppb	22:18:28
2	Mo 202.031†	12.0	1.9	0.1406	ug/L	0.1406	ppb	22:18:28
2	Ni 231.604†	94.1	-16.5	-0.4226	ug/L	-0.4226	ppb	22:18:28

2	P 214.914†	241.5	6.9	3.6271	ug/L	3.6271 ppb	22:18:28
2	Pb 220.353†	-73.9	-2.6	-0.3176	ug/L	-0.3176 ppb	22:18:28
2	S 181.975 Axial†	53.1	11.8	15.434	ug/L	15.434 ppb	22:18:28
2	Sb 206.836†	47.7	13.5	4.5779	ug/L	4.5779 ppb	22:18:28
2	Se 196.026†	-20.8	1.9	1.0644	ug/L	1.0644 ppb	22:18:28
2	Si 251.611†	651.0	58.7	1.8274	ug/L	1.8274 ppb	22:18:28
2	Sn 189.927†	15.0	2.8	0.5012	ug/L	0.5012 ppb	22:18:28
2	Ti 334.940†	-1314.2	138.2	0.2144	ug/L	0.2144 ppb	22:18:08
2	Tl 190.801†	-35.4	2.6	0.8305	ug/L	0.8305 ppb	22:18:28
2	U 409.014†	-3360.4	51.2	1.4576	ug/L	1.4576 ppb	22:18:08
2	V 292.402†	-1673.5	-47.8	-0.3382	ug/L	-0.3382 ppb	22:18:08
2	Zn 213.857†	676.6	9.7	0.0965	ug/L	0.0965 ppb	22:18:28
2	SiO2†	602.9	1.9	0.1257	ug/L	0.1257 ppb	22:19:04
3	Sc Radial	4013.9	4013.9	94.4	%		22:17:36
3	Y RADIAL	4275.9	4275.9	97.13	%		22:17:16
3	Al 396.153Radial†	-120.8	31.1	31.097	ug/L	31.097 ppb	22:17:16
3	Ca 317.933Radial†	18.6	1.4	2.6490	ug/L	2.6490 ppb	22:17:36
3	Fe 238.204 Radial†	10.7	1.3	13.695	ug/L	13.695 ppb	22:17:36
3	K 766.490 Radial†	3031.0	38.4	7.7754	ug/L	7.7754 ppb	22:17:16
3	Mg 279.077 IEC†	1.4	-1.2	-48.020	ug/L	-48.020 ppb	22:17:36
3	Na 589.592 Radial†	81.9	-120.3	-40.139	ug/L	-40.139 ppb	22:17:16
3	Sr 421.552†	69.5	-16.2	-0.1252	ug/L	-0.1252 ppb	22:17:16
3	Sc 361.383	828879.5	828879.5	97.514	%		22:18:34
3	Y 371.029	672730.1	672730.1	95.731	%		22:18:34
3	Ag 328.068†	289.9	69.6	0.3388	ug/L	0.3388 ppb	22:18:34
3	As 188.979†	-35.2	-7.8	-3.2609	ug/L	-3.2609 ppb	22:18:54
3	B 249.677†	-395.3	76.6	1.7979	ug/L	1.7979 ppb	22:18:54
3	Ba 233.527†	-12.9	-32.0	-0.2602	ug/L	-0.2602 ppb	22:18:54
3	Be 313.107†	-4152.2	81.1	0.0300	ug/L	0.0300 ppb	22:18:34
3	Cd 226.502†	-194.2	-3.7	-0.0445	ug/L	-0.0445 ppb	22:18:54
3	Co 228.616†	-61.6	15.6	0.3273	ug/L	0.3273 ppb	22:18:54
3	Cr 267.716†	81.9	-65.7	-0.7642	ug/L	-0.7642 ppb	22:18:54
3	Cu 324.752†	8219.7	335.2	1.0276	ug/L	1.0276 ppb	22:18:34
3	Mn 257.610†	689.7	137.5	0.1619	ug/L	0.1619 ppb	22:18:54
3	Mo 202.031†	16.8	6.8	0.5060	ug/L	0.5060 ppb	22:18:54
3	Ni 231.604†	115.9	5.3	0.1354	ug/L	0.1354 ppb	22:18:54
3	P 214.914†	230.2	-6.0	-3.5129	ug/L	-3.5129 ppb	22:18:54
3	Pb 220.353†	-85.5	-14.1	-1.7383	ug/L	-1.7383 ppb	22:18:54
3	S 181.975 Axial†	61.1	19.7	25.800	ug/L	25.800 ppb	22:18:54
3	Sb 206.836†	39.2	4.5	1.5367	ug/L	1.5367 ppb	22:18:54
3	Se 196.026†	-22.7	0.1	0.0812	ug/L	0.0812 ppb	22:18:54
3	Si 251.611†	664.5	69.1	2.1475	ug/L	2.1475 ppb	22:18:54
3	Sn 189.927†	13.2	1.0	0.1752	ug/L	0.1752 ppb	22:18:54
3	Ti 334.940†	-1389.1	68.4	0.1162	ug/L	0.1162 ppb	22:18:34
3	Tl 190.801†	-39.6	-1.5	-0.4881	ug/L	-0.4881 ppb	22:18:54
3	U 409.014†	-3468.8	-42.0	-1.1932	ug/L	-1.1932 ppb	22:18:34
3	V 292.402†	-1672.7	-38.0	-0.2732	ug/L	-0.2732 ppb	22:18:34
3	Zn 213.857†	700.2	30.3	0.2912	ug/L	0.2912 ppb	22:18:54
3	SiO2†	658.1	55.3	3.6732	ug/L	3.6732 ppb	22:19:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	823983.6	96.938	%	0.6160				0.64%
Sc Radial	4019.3	94.6	%	0.55				0.59%
Y 371.029	668382.6	95.113	%	0.6033				0.63%
Y RADIAL	4235.3	96.21	%	0.918				0.95%
Ag 328.068†	35.0	0.1709	ug/L	0.48559	0.1709	ppb	0.48559	284.15%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	37.8	37.811	ug/L	8.8527	37.811	ppb	8.8527	23.41%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-6.0	-2.5140	ug/L	0.81299	-2.5140	ppb	0.81299	32.34%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	96.7	2.2716	ug/L	0.41093	2.2716	ppb	0.41093	18.09%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-9.1	-0.0740	ug/L	0.22049	-0.0740	ppb	0.22049	297.90%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	47.3	0.0179	ug/L	0.02289	0.0179	ppb	0.02289	128.11%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-0.5	-0.9723	ug/L	5.46702	-0.9723	ppb	5.46702	562.29%

Mg 279.077 IEC†	5530.0	213580	ug/L	1104.3	213580	ppb	1104.3	0.52%
Mn 257.610†	57222.5	57.324	ug/L	0.1473	57.324	ppb	0.1473	0.26%
Mo 202.031†	664.6	50.225	ug/L	0.5434	50.225	ppb	0.5434	1.08%
Na 589.592 Radial†	5665978.2	1889900	ug/L	31664.3	1889900	ppb	31664.3	1.68%
Ni 231.604†	1950.2	49.923	ug/L	0.5290	49.923	ppb	0.5290	1.06%
P 214.914†	421.7	220.91	ug/L	6.703	220.91	ppb	6.703	3.03%
Pb 220.353†	381.9	48.729	ug/L	1.0166	48.729	ppb	1.0166	2.09%
S 181.975 Axial†	154821.7	202350	ug/L	262.5	202350	ppb	262.5	0.13%
Sb 206.836†	193.2	66.440	ug/L	2.3586	66.440	ppb	2.3586	3.55%
Se 196.026†	88.0	53.349	ug/L	3.2224	53.349	ppb	3.2224	6.04%
Si 251.611†	51955.9	1618.5	ug/L	4.86	1618.5	ppb	4.86	0.30%
Sn 189.927†	17.9	13.373	ug/L	0.8893	13.373	ppb	0.8893	6.65%
Sr 421.552†	178837.6	1380.4	ug/L	8.88	1380.4	ppb	8.88	0.64%
Ti 334.940†	27270.9	35.801	ug/L	0.1514	35.801	ppb	0.1514	0.42%
Tl 190.801†	135.2	43.035	ug/L	3.3217	43.035	ppb	3.3217	7.72%
U 409.014†	1373.1	38.820	ug/L	1.1788	38.820	ppb	1.1788	3.04%
V 292.402†	6167.0	49.413	ug/L	0.6763	49.413	ppb	0.6763	1.37%
Zn 213.857†	5965.5	57.731	ug/L	0.1379	57.731	ppb	0.1379	0.24%
SiO2†	52133.6	3474.6	ug/L	12.76	3474.6	ppb	12.76	0.37%

Sequence No.: 58
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/16/2010 23:16:20
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	4026.5	4026.5	94.7	%			23:18:32
1	Y RADIAL	4210.1	4210.1	95.64	%			23:18:12
1	Al 396.153Radial†	4802.1	5228.8	5206.5	ug/L	5206.5	ppb	23:18:12
1	Ca 317.933Radial†	2668.0	2798.4	5220.0	ug/L	5220.0	ppb	23:18:32
1	Fe 238.204 Radial†	506.2	524.3	5587.5	ug/L	5587.5	ppb	23:18:32
1	K 766.490 Radial†	27422.6	25779.2	5197.1	ug/L	5197.1	ppb	23:18:12
1	Mg 279.077 IEC†	138.7	143.7	5549.7	ug/L	5549.7	ppb	23:18:32
1	Na 589.592 Radial†	31297.4	32834.5	10952	ug/L	10952	ppb	23:18:12
1	Sr 421.552†	65138.0	68678.2	530.25	ug/L	530.25	ppb	23:18:12
1	Sc 361.383	826089.9	826089.9	97.186	%			23:19:29
1	Y 371.029	659245.4	659245.4	93.812	%			23:19:29
1	Ag 328.068†	102050.3	104777.4	506.50	ug/L	506.50	ppb	23:19:34
1	As 188.979†	1127.2	1188.2	504.48	ug/L	504.48	ppb	23:19:54
1	B 249.677†	20754.8	21837.7	511.38	ug/L	511.38	ppb	23:19:34
1	Ba 233.527†	61232.1	62986.2	512.69	ug/L	512.69	ppb	23:19:34
1	Be 313.107†	1346800.1	1390135.0	511.77	ug/L	511.77	ppb	23:19:29
1	Cd 226.502†	41203.0	42591.5	497.92	ug/L	497.92	ppb	23:19:34
1	Co 228.616†	23911.1	24682.3	514.76	ug/L	514.76	ppb	23:19:34
1	Cr 267.716†	41538.0	42591.0	496.12	ug/L	496.12	ppb	23:19:34
1	Cu 324.752†	171354.3	168221.6	515.07	ug/L	515.07	ppb	23:19:34
1	Mn 257.610†	437371.9	449466.0	518.73	ug/L	518.73	ppb	23:19:29
1	Mo 202.031†	6572.5	6752.3	502.23	ug/L	502.23	ppb	23:19:54
1	Ni 231.604†	19199.9	19642.3	502.81	ug/L	502.81	ppb	23:19:34
1	P 214.914†	4651.4	4544.1	2420.6	ug/L	2420.6	ppb	23:19:54
1	Pb 220.353†	3833.9	4018.5	499.43	ug/L	499.43	ppb	23:19:54
1	S 181.975 Axial†	806.5	787.0	1027.5	ug/L	1027.5	ppb	23:19:54
1	Sb 206.836†	1471.2	1478.1	518.25	ug/L	518.25	ppb	23:19:54
1	Se 196.026†	831.1	878.5	532.16	ug/L	532.16	ppb	23:19:54
1	Si 251.611†	80975.4	82707.7	2571.2	ug/L	2571.2	ppb	23:19:34
1	Sn 189.927†	2732.3	2798.8	502.74	ug/L	502.74	ppb	23:19:54
1	Ti 334.940†	305188.6	315518.0	512.67	ug/L	512.67	ppb	23:19:34
1	Tl 190.801†	1545.1	1629.0	517.68	ug/L	517.68	ppb	23:19:54
1	U 409.014†	13345.2	17246.8	488.19	ug/L	488.19	ppb	23:19:34
1	V 292.402†	64883.6	68439.5	502.29	ug/L	502.29	ppb	23:19:34
1	Zn 213.857†	51509.1	52312.7	505.83	ug/L	505.83	ppb	23:19:34
1	SiO2†	81260.7	82994.0	5519.8	ug/L	5519.8	ppb	23:21:02
2	Sc Radial	3990.1	3990.1	93.9	%			23:18:57
2	Y RADIAL	4181.1	4181.1	94.98	%			23:18:37
2	Al 396.153Radial†	4715.4	5182.6	5160.2	ug/L	5160.2	ppb	23:18:37
2	Ca 317.933Radial†	2650.7	2805.6	5233.5	ug/L	5233.5	ppb	23:18:57
2	Fe 238.204 Radial†	498.1	520.5	5547.5	ug/L	5547.5	ppb	23:18:57
2	K 766.490 Radial†	27107.0	25706.8	5182.5	ug/L	5182.5	ppb	23:18:37
2	Mg 279.077 IEC†	132.0	137.9	5326.0	ug/L	5326.0	ppb	23:18:57
2	Na 589.592 Radial†	30722.3	32522.9	10848	ug/L	10848	ppb	23:18:37
2	Sr 421.552†	64346.4	68461.5	528.57	ug/L	528.57	ppb	23:18:37
2	Sc 361.383	827941.4	827941.4	97.404	%			23:20:00
2	Y 371.029	660456.5	660456.5	93.985	%			23:20:00
2	Ag 328.068†	101795.1	104280.6	504.10	ug/L	504.10	ppb	23:20:05
2	As 188.979†	1141.7	1200.4	509.60	ug/L	509.60	ppb	23:20:25
2	B 249.677†	20640.0	21672.0	507.50	ug/L	507.50	ppb	23:20:05
2	Ba 233.527†	61096.2	62705.7	510.41	ug/L	510.41	ppb	23:20:05
2	Be 313.107†	1351704.7	1392071.2	512.48	ug/L	512.48	ppb	23:20:00
2	Cd 226.502†	41014.6	42303.2	494.55	ug/L	494.55	ppb	23:20:05
2	Co 228.616†	23898.6	24614.5	513.35	ug/L	513.35	ppb	23:20:05
2	Cr 267.716†	41511.0	42467.7	494.68	ug/L	494.68	ppb	23:20:05
2	Cu 324.752†	171338.3	167811.0	513.81	ug/L	513.81	ppb	23:20:05
2	Mn 257.610†	438079.7	449186.3	518.41	ug/L	518.41	ppb	23:20:00
2	Mo 202.031†	6598.5	6763.9	503.09	ug/L	503.09	ppb	23:20:25
2	Ni 231.604†	19090.7	19486.0	498.81	ug/L	498.81	ppb	23:20:05

2	P 214.914†	4639.1	4520.8	2407.9 ug/L	2407.9 ppb	23:20:25
2	Pb 220.353†	3832.6	4008.3	498.17 ug/L	498.17 ppb	23:20:25
2	S 181.975 Axial†	806.9	785.5	1025.6 ug/L	1025.6 ppb	23:20:25
2	Sb 206.836†	1463.7	1467.0	514.51 ug/L	514.51 ppb	23:20:25
2	Se 196.026†	821.4	866.6	525.10 ug/L	525.10 ppb	23:20:25
2	Si 251.611†	80835.7	82377.9	2560.9 ug/L	2560.9 ppb	23:20:05
2	Sn 189.927†	2736.2	2796.6	502.34 ug/L	502.34 ppb	23:20:25
2	Ti 334.940†	305012.9	314635.4	511.26 ug/L	511.26 ppb	23:20:05
2	Tl 190.801†	1529.5	1609.4	511.49 ug/L	511.49 ppb	23:20:25
2	U 409.014†	13323.1	17193.4	486.68 ug/L	486.68 ppb	23:20:05
2	V 292.402†	64823.2	68228.2	500.77 ug/L	500.77 ppb	23:20:05
2	Zn 213.857†	51402.5	52084.8	503.64 ug/L	503.64 ppb	23:20:05
2	SiO2†	80195.1	81713.0	5434.4 ug/L	5434.4 ppb	23:21:07
3	Sc Radial	4003.7	4003.7	94.2 %		23:19:22
3	Y RADIAL	4165.1	4165.1	94.61 %		23:19:02
3	Al 396.153Radial†	4737.1	5188.6	5166.4 ug/L	5166.4 ppb	23:19:02
3	Ca 317.933Radial†	2658.1	2803.9	5230.3 ug/L	5230.3 ppb	23:19:22
3	Fe 238.204 Radial†	506.9	528.1	5628.4 ug/L	5628.4 ppb	23:19:22
3	K 766.490 Radial†	27081.7	25582.2	5157.4 ug/L	5157.4 ppb	23:19:02
3	Mg 279.077 IEC†	133.9	139.5	5386.8 ug/L	5386.8 ppb	23:19:22
3	Na 589.592 Radial†	30535.2	32213.5	10745 ug/L	10745 ppb	23:19:02
3	Sr 421.552†	63984.3	67845.0	523.81 ug/L	523.81 ppb	23:19:02
3	Sc 361.383	826567.4	826567.4	97.242 %		23:20:31
3	Y 371.029	660565.5	660565.5	94.000 %		23:20:31
3	Ag 328.068†	102708.1	105393.2	509.49 ug/L	509.49 ppb	23:20:36
3	As 188.979†	1144.9	1205.7	511.91 ug/L	511.91 ppb	23:20:56
3	B 249.677†	21070.6	22150.0	518.72 ug/L	518.72 ppb	23:20:36
3	Ba 233.527†	61699.3	63430.3	516.31 ug/L	516.31 ppb	23:20:36
3	Be 313.107†	1352295.4	1394985.4	513.56 ug/L	513.56 ppb	23:20:31
3	Cd 226.502†	41520.5	42893.5	501.45 ug/L	501.45 ppb	23:20:36
3	Co 228.616†	24062.5	24823.8	517.69 ug/L	517.69 ppb	23:20:36
3	Cr 267.716†	41872.5	42910.3	499.84 ug/L	499.84 ppb	23:20:36
3	Cu 324.752†	173029.8	169842.8	520.03 ug/L	520.03 ppb	23:20:36
3	Mn 257.610†	437537.5	449376.2	518.64 ug/L	518.64 ppb	23:20:31
3	Mo 202.031†	6551.2	6726.5	500.32 ug/L	500.32 ppb	23:20:56
3	Ni 231.604†	19315.9	19750.2	505.57 ug/L	505.57 ppb	23:20:36
3	P 214.914†	4607.1	4495.8	2392.8 ug/L	2392.8 ppb	23:20:56
3	Pb 220.353†	3808.7	3990.2	495.91 ug/L	495.91 ppb	23:20:56
3	S 181.975 Axial†	797.8	777.5	1015.2 ug/L	1015.2 ppb	23:20:56
3	Sb 206.836†	1460.1	1465.9	514.08 ug/L	514.08 ppb	23:20:56
3	Se 196.026†	819.5	866.1	525.05 ug/L	525.05 ppb	23:20:56
3	Si 251.611†	81620.4	83322.9	2590.4 ug/L	2590.4 ppb	23:20:36
3	Sn 189.927†	2734.5	2799.4	502.85 ug/L	502.85 ppb	23:20:56
3	Ti 334.940†	307982.1	318209.3	517.06 ug/L	517.06 ppb	23:20:36
3	Tl 190.801†	1541.1	1624.0	516.11 ug/L	516.11 ppb	23:20:56
3	U 409.014†	13547.0	17446.4	493.84 ug/L	493.84 ppb	23:20:36
3	V 292.402†	65589.3	69126.7	507.24 ug/L	507.24 ppb	23:20:36
3	Zn 213.857†	51947.6	52733.1	509.90 ug/L	509.90 ppb	23:20:36
3	SiO2†	80187.6	81842.2	5443.1 ug/L	5443.1 ppb	23:21:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	826866.2	97.277	%	0.1131				0.12%
Sc Radial	4006.8	94.3	%	0.43				0.46%
Y 371.029	660089.1	93.932	%	0.1043				0.11%
Y RADIAL	4185.4	95.08	%	0.518				0.54%
Ag 328.068†	104817.1	506.70	ug/L	2.700	506.70	ppb	2.700	0.53%
QC value within limits for Ag 328.068 Recovery = 101.34%								
Al 396.153Radial†	5200.0	5177.7	ug/L	25.13	5177.7	ppb	25.13	0.49%
QC value within limits for Al 396.153Radial Recovery = 103.55%								
As 188.979†	1198.1	508.66	ug/L	3.804	508.66	ppb	3.804	0.75%
QC value within limits for As 188.979 Recovery = 101.73%								
B 249.677†	21886.6	512.53	ug/L	5.698	512.53	ppb	5.698	1.11%
QC value within limits for B 249.677 Recovery = 102.51%								
Ba 233.527†	63040.7	513.13	ug/L	2.975	513.13	ppb	2.975	0.58%
QC value within limits for Ba 233.527 Recovery = 102.63%								
Be 313.107†	1392397.2	512.60	ug/L	0.902	512.60	ppb	0.902	0.18%
QC value within limits for Be 313.107 Recovery = 102.52%								
Ca 317.933Radial†	2802.6	5227.9	ug/L	7.03	5227.9	ppb	7.03	0.13%

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   QC value within limits for Ca 317.933Radial  Recovery = 104.56%
Cd 226.502†          42596.1      497.97 ug/L        3.450      497.97 ppb        3.450   0.69%
   QC value within limits for Cd 226.502  Recovery = 99.59%
Co 228.616†          24706.8      515.27 ug/L        2.217      515.27 ppb        2.217   0.43%
   QC value within limits for Co 228.616  Recovery = 103.05%
Cr 267.716†          42656.3      496.88 ug/L        2.661      496.88 ppb        2.661   0.54%
   QC value within limits for Cr 267.716  Recovery = 99.38%
Cu 324.752†         168625.1      516.30 ug/L        3.289      516.30 ppb        3.289   0.64%
   QC value within limits for Cu 324.752  Recovery = 103.26%
Fe 238.204 Radial†     524.3      5587.8 ug/L       40.42      5587.8 ppb        40.42   0.72%
   QC value greater than the upper limit for Fe 238.204 Radial  Recovery = 111.76%
K 766.490 Radial†    25689.4      5179.0 ug/L       20.07      5179.0 ppb        20.07   0.39%
   QC value within limits for K 766.490 Radial  Recovery = 103.58%
Mg 279.077 IEC†        140.4      5420.8 ug/L      115.66      5420.8 ppb       115.66   2.13%
   QC value within limits for Mg 279.077 IEC  Recovery = 108.42%
Mn 257.610†         449342.8      518.59 ug/L       0.163      518.59 ppb        0.163   0.03%
   QC value within limits for Mn 257.610  Recovery = 103.72%
Mo 202.031†          6747.6      501.88 ug/L       1.420      501.88 ppb        1.420   0.28%
   QC value within limits for Mo 202.031  Recovery = 100.38%
Na 589.592 Radial†  32523.6       10849 ug/L       103.6       10849 ppb        103.6   0.95%
   QC value within limits for Na 589.592 Radial  Recovery = 108.49%
Ni 231.604†          19626.2      502.40 ug/L       3.400      502.40 ppb        3.400   0.68%
   QC value within limits for Ni 231.604  Recovery = 100.48%
P 214.914†            4520.2      2407.1 ug/L       13.93      2407.1 ppb        13.93   0.58%
   QC value within limits for P 214.914  Recovery = 96.28%
Pb 220.353†           4005.7      497.84 ug/L       1.781      497.84 ppb        1.781   0.36%
   QC value within limits for Pb 220.353  Recovery = 99.57%
S 181.975 Axial†       783.3      1022.8 ug/L        6.65      1022.8 ppb         6.65   0.65%
   QC value within limits for S 181.975 Axial  Recovery = 102.28%
Sb 206.836†           1470.3      515.62 ug/L       2.292      515.62 ppb        2.292   0.44%
   QC value within limits for Sb 206.836  Recovery = 103.12%
Se 196.026†            870.4      527.44 ug/L       4.090      527.44 ppb        4.090   0.78%
   QC value within limits for Se 196.026  Recovery = 105.49%
Si 251.611†          82802.8      2574.2 ug/L       14.96      2574.2 ppb        14.96   0.58%
   QC value within limits for Si 251.611  Recovery = 102.97%
Sn 189.927†           2798.3      502.65 ug/L       0.270      502.65 ppb        0.270   0.05%
   QC value within limits for Sn 189.927  Recovery = 100.53%
Sr 421.552†          68328.3      527.54 ug/L       3.338      527.54 ppb        3.338   0.63%
   QC value within limits for Sr 421.552  Recovery = 105.51%
Ti 334.940†         316120.9      513.66 ug/L       3.023      513.66 ppb        3.023   0.59%
   QC value within limits for Ti 334.940  Recovery = 102.73%
Tl 190.801†           1620.8      515.09 ug/L       3.220      515.09 ppb        3.220   0.63%
   QC value within limits for Tl 190.801  Recovery = 103.02%
U 409.014†           17295.5      489.57 ug/L       3.778      489.57 ppb        3.778   0.77%
   QC value within limits for U 409.014  Recovery = 97.91%
V 292.402†           68598.1      503.43 ug/L       3.380      503.43 ppb        3.380   0.67%
   QC value within limits for V 292.402  Recovery = 100.69%
Zn 213.857†          52376.9      506.45 ug/L       3.179      506.45 ppb        3.179   0.63%
   QC value within limits for Zn 213.857  Recovery = 101.29%
SiO2†                82183.1      5465.7 ug/L       47.02      5465.7 ppb        47.02   0.86%
   QC value within limits for SiO2  Recovery = 102.21%
QC Failed.  Continue with analysis.
```

Sequence No.: 59
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/16/2010 23:23:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4045.8	4045.8	95.2	%			23:25:35
1	Y RADIAL	4226.5	4226.5	96.01	%			23:25:15
1	Al 396.153Radial†	-142.7	9.1	9.0750	ug/L	9.0750	ppb	23:25:15
1	Ca 317.933Radial†	38.1	21.7	40.537	ug/L	40.537	ppb	23:25:35
1	Fe 238.204 Radial†	11.8	2.3	24.586	ug/L	24.586	ppb	23:25:35
1	K 766.490 Radial†	3155.2	143.6	28.996	ug/L	28.996	ppb	23:25:15
1	Mg 279.077 IEC†	4.3	1.8	70.604	ug/L	70.604	ppb	23:25:35
1	Na 589.592 Radial†	25.5	-180.3	-60.142	ug/L	-60.142	ppb	23:25:15
1	Sr 421.552†	100.8	16.1	0.1237	ug/L	0.1237	ppb	23:25:15
1	Sc 361.383	816044.7	816044.7	96.004	%			23:26:32
1	Y 371.029	659933.4	659933.4	93.910	%			23:26:32
1	Ag 328.068†	232.6	14.6	0.0727	ug/L	0.0727	ppb	23:26:32
1	As 188.979†	-30.1	-3.0	-1.2732	ug/L	-1.2732	ppb	23:26:52
1	B 249.677†	-330.3	137.9	3.2400	ug/L	3.2400	ppb	23:26:52
1	Ba 233.527†	-7.6	-26.8	-0.2174	ug/L	-0.2174	ppb	23:26:52
1	Be 313.107†	-4032.9	138.3	0.0511	ug/L	0.0511	ppb	23:26:32
1	Cd 226.502†	-217.8	-31.4	-0.3687	ug/L	-0.3687	ppb	23:26:52
1	Co 228.616†	-68.5	7.5	0.1577	ug/L	0.1577	ppb	23:26:52
1	Cr 267.716†	100.6	-44.9	-0.5242	ug/L	-0.5242	ppb	23:26:52
1	Cu 324.752†	8202.2	449.5	1.3754	ug/L	1.3754	ppb	23:26:32
1	Mn 257.610†	655.8	113.4	0.1303	ug/L	0.1303	ppb	23:26:52
1	Mo 202.031†	21.1	11.6	0.8611	ug/L	0.8611	ppb	23:26:52
1	Ni 231.604†	96.0	-13.6	-0.3475	ug/L	-0.3475	ppb	23:26:52
1	P 214.914†	227.2	-5.3	-3.2314	ug/L	-3.2314	ppb	23:26:52
1	Pb 220.353†	-66.9	3.8	0.4756	ug/L	0.4756	ppb	23:26:52
1	S 181.975 Axial†	55.4	14.8	19.286	ug/L	19.286	ppb	23:26:52
1	Sb 206.836†	47.5	13.8	4.7058	ug/L	4.7058	ppb	23:26:52
1	Se 196.026†	-22.5	-0.1	0.0004	ug/L	0.0004	ppb	23:26:52
1	Si 251.611†	632.4	46.4	1.4364	ug/L	1.4364	ppb	23:26:52
1	Sn 189.927†	16.7	4.8	0.8662	ug/L	0.8662	ppb	23:26:52
1	Ti 334.940†	-1358.5	77.9	0.1247	ug/L	0.1247	ppb	23:26:32
1	Tl 190.801†	-41.5	-4.1	-1.2976	ug/L	-1.2976	ppb	23:26:52
1	U 409.014†	-3241.4	138.8	3.9421	ug/L	3.9421	ppb	23:26:32
1	V 292.402†	-1668.9	-61.0	-0.4246	ug/L	-0.4246	ppb	23:26:32
1	Zn 213.857†	771.4	115.8	1.1267	ug/L	1.1267	ppb	23:26:52
1	SiO2†	723.6	134.2	8.9220	ug/L	8.9220	ppb	23:27:48
2	Sc Radial	4048.6	4048.6	95.2	%			23:26:00
2	Y RADIAL	4218.5	4218.5	95.83	%			23:25:40
2	Al 396.153Radial†	-126.3	26.4	26.338	ug/L	26.338	ppb	23:25:40
2	Ca 317.933Radial†	34.1	17.5	32.687	ug/L	32.687	ppb	23:26:00
2	Fe 238.204 Radial†	15.0	5.7	60.062	ug/L	60.062	ppb	23:26:00
2	K 766.490 Radial†	3094.7	77.8	15.706	ug/L	15.706	ppb	23:25:40
2	Mg 279.077 IEC†	3.6	1.1	42.166	ug/L	42.166	ppb	23:26:00
2	Na 589.592 Radial†	30.9	-174.6	-58.237	ug/L	-58.237	ppb	23:25:40
2	Sr 421.552†	83.5	-2.1	-0.0164	ug/L	-0.0164	ppb	23:25:40
2	Sc 361.383	814948.0	814948.0	95.875	%			23:26:57
2	Y 371.029	659239.3	659239.3	93.811	%			23:26:57
2	Ag 328.068†	307.6	93.1	0.4658	ug/L	0.4658	ppb	23:26:57
2	As 188.979†	-26.3	0.9	0.3888	ug/L	0.3888	ppb	23:27:17
2	B 249.677†	-299.0	170.1	3.9912	ug/L	3.9912	ppb	23:27:17
2	Ba 233.527†	22.9	5.0	0.0425	ug/L	0.0425	ppb	23:27:17
2	Be 313.107†	-4013.0	153.5	0.0566	ug/L	0.0566	ppb	23:26:57
2	Cd 226.502†	-202.5	-15.8	-0.1907	ug/L	-0.1907	ppb	23:27:17
2	Co 228.616†	-74.5	1.1	0.0251	ug/L	0.0251	ppb	23:27:17
2	Cr 267.716†	98.1	-47.4	-0.5510	ug/L	-0.5510	ppb	23:27:17
2	Cu 324.752†	8106.5	361.2	1.1084	ug/L	1.1084	ppb	23:26:57
2	Mn 257.610†	749.1	211.6	0.2482	ug/L	0.2482	ppb	23:27:17
2	Mo 202.031†	23.4	13.9	1.0375	ug/L	1.0375	ppb	23:27:17
2	Ni 231.604†	89.3	-20.4	-0.5224	ug/L	-0.5224	ppb	23:27:17

2	P 214.914†	232.4	0.5	-0.0009	ug/L	-0.0009	ppb	23:27:17
2	Pb 220.353†	-60.4	10.5	1.3080	ug/L	1.3080	ppb	23:27:17
2	S 181.975 Axial†	60.4	20.0	26.183	ug/L	26.183	ppb	23:27:17
2	Sb 206.836†	38.7	4.7	1.6286	ug/L	1.6286	ppb	23:27:17
2	Se 196.026†	-22.0	0.4	0.4285	ug/L	0.4285	ppb	23:27:17
2	Si 251.611†	664.5	80.7	2.5033	ug/L	2.5033	ppb	23:27:17
2	Sn 189.927†	17.8	5.9	1.0697	ug/L	1.0697	ppb	23:27:17
2	Ti 334.940†	-1379.4	54.2	0.0887	ug/L	0.0887	ppb	23:26:57
2	Tl 190.801†	-30.8	6.9	2.1910	ug/L	2.1910	ppb	23:27:17
2	U 409.014†	-3329.5	42.5	1.2006	ug/L	1.2006	ppb	23:26:57
2	V 292.402†	-1615.1	-7.3	-0.0437	ug/L	-0.0437	ppb	23:26:57
2	Zn 213.857†	772.4	117.9	1.1437	ug/L	1.1437	ppb	23:27:17
2	SiO2†	686.5	96.5	6.4033	ug/L	6.4033	ppb	23:27:53
3	Sc Radial	3925.5	3925.5	92.3	%			23:26:25
3	Y RADIAL	4140.8	4140.8	94.06	%			23:26:05
3	Al 396.153Radial†	-134.1	13.8	13.738	ug/L	13.738	ppb	23:26:05
3	Ca 317.933Radial†	27.2	11.2	20.801	ug/L	20.801	ppb	23:26:25
3	Fe 238.204 Radial†	10.7	1.5	15.786	ug/L	15.786	ppb	23:26:25
3	K 766.490 Radial†	3064.5	146.9	29.669	ug/L	29.669	ppb	23:26:05
3	Mg 279.077 IEC†	1.9	-0.6	-23.507	ug/L	-23.507	ppb	23:26:25
3	Na 589.592 Radial†	85.9	-114.1	-38.047	ug/L	-38.047	ppb	23:26:05
3	Sr 421.552†	19.7	-68.5	-0.5287	ug/L	-0.5287	ppb	23:26:05
3	Sc 361.383	825003.4	825003.4	97.058	%			23:27:22
3	Y 371.029	667181.1	667181.1	94.942	%			23:27:22
3	Ag 328.068†	211.9	-9.3	-0.0421	ug/L	-0.0421	ppb	23:27:22
3	As 188.979†	-27.1	0.4	0.1550	ug/L	0.1550	ppb	23:27:42
3	B 249.677†	-303.8	168.9	3.9699	ug/L	3.9699	ppb	23:27:42
3	Ba 233.527†	10.3	-8.2	-0.0673	ug/L	-0.0673	ppb	23:27:42
3	Be 313.107†	-4082.6	132.8	0.0487	ug/L	0.0487	ppb	23:27:22
3	Cd 226.502†	-220.0	-31.2	-0.3661	ug/L	-0.3661	ppb	23:27:42
3	Co 228.616†	-63.0	14.0	0.2939	ug/L	0.2939	ppb	23:27:42
3	Cr 267.716†	113.7	-32.5	-0.3790	ug/L	-0.3790	ppb	23:27:42
3	Cu 324.752†	8177.9	331.7	1.0161	ug/L	1.0161	ppb	23:27:22
3	Mn 257.610†	712.0	163.8	0.1915	ug/L	0.1915	ppb	23:27:42
3	Mo 202.031†	21.6	11.8	0.8768	ug/L	0.8768	ppb	23:27:42
3	Ni 231.604†	99.2	-11.3	-0.2893	ug/L	-0.2893	ppb	23:27:42
3	P 214.914†	219.6	-15.7	-8.9148	ug/L	-8.9148	ppb	23:27:42
3	Pb 220.353†	-74.2	-2.9	-0.3615	ug/L	-0.3615	ppb	23:27:42
3	S 181.975 Axial†	59.5	18.4	24.091	ug/L	24.091	ppb	23:27:42
3	Sb 206.836†	37.6	3.1	1.0611	ug/L	1.0611	ppb	23:27:42
3	Se 196.026†	-18.9	3.9	2.3285	ug/L	2.3285	ppb	23:27:42
3	Si 251.611†	662.2	70.0	2.1699	ug/L	2.1699	ppb	23:27:42
3	Sn 189.927†	11.4	-0.9	-0.1521	ug/L	-0.1521	ppb	23:27:42
3	Ti 334.940†	-1470.0	-21.7	-0.0306	ug/L	-0.0306	ppb	23:27:22
3	Tl 190.801†	-27.3	10.9	3.4545	ug/L	3.4545	ppb	23:27:42
3	U 409.014†	-3394.3	18.0	0.5112	ug/L	0.5112	ppb	23:27:22
3	V 292.402†	-1695.0	-69.0	-0.4893	ug/L	-0.4893	ppb	23:27:22
3	Zn 213.857†	776.4	112.2	1.0932	ug/L	1.0932	ppb	23:27:42
3	SiO2†	749.0	152.2	10.122	ug/L	10.122	ppb	23:27:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	818665.4	96.313	%	0.6490				0.67%
Sc Radial	4006.6	94.3	%	1.65				1.75%
Y 371.029	662117.9	94.221	%	0.6259				0.66%
Y RADIAL	4195.3	95.30	%	1.075				1.13%
Ag 328.068†	32.8	0.1655	ug/L	0.26634	0.1655	ppb	0.26634	160.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	16.4	16.384	ug/L	8.9302	16.384	ppb	8.9302	54.51%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.6	-0.2431	ug/L	0.89968	-0.2431	ppb	0.89968	370.06%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	159.0	3.7337	ug/L	0.42772	3.7337	ppb	0.42772	11.46%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-10.0	-0.0807	ug/L	0.13051	-0.0807	ppb	0.13051	161.69%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	141.5	0.0521	ug/L	0.00403	0.0521	ppb	0.00403	7.73%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	16.8	31.342	ug/L	9.9364	31.342	ppb	9.9364	31.70%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -26.1     -0.3085 ug/L       0.10206     -0.3085 ppb        0.10206  33.08%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                7.5      0.1589 ug/L       0.13439      0.1589 ppb        0.13439  84.57%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -41.6     -0.4847 ug/L       0.09253     -0.4847 ppb        0.09253  19.09%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              380.8      1.1667 ug/L       0.18661      1.1667 ppb        0.18661  16.00%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         3.1      33.478 ug/L       23.4392      33.478 ppb        23.4392  70.01%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        122.8      24.790 ug/L        7.8745      24.790 ppb         7.8745  31.76%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            0.8      29.754 ug/L       48.2676      29.754 ppb        48.2676 162.22%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              162.9      0.1900 ug/L       0.05898      0.1900 ppb        0.05898  31.04%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               12.4      0.9251 ug/L       0.09758      0.9251 ppb        0.09758  10.55%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      -156.3     -52.142 ug/L       12.2434     -52.142 ppb        12.2434  23.48%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -15.1     -0.3864 ug/L       0.12128     -0.3864 ppb        0.12128  31.39%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -6.8     -4.0490 ug/L       4.51284     -4.0490 ppb        4.51284 111.45%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                3.8      0.4740 ug/L       0.83475      0.4740 ppb        0.83475 176.11%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          17.7      23.186 ug/L        3.5360      23.186 ppb         3.5360  15.25%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                7.2      2.4652 ug/L       1.96110      2.4652 ppb        1.96110  79.55%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                1.4      0.9192 ug/L       1.23918      0.9192 ppb        1.23918 134.82%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               65.7      2.0365 ug/L       0.54578      2.0365 ppb        0.54578  26.80%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                3.3      0.5946 ug/L       0.65462      0.5946 ppb        0.65462 110.10%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -18.2     -0.1405 ug/L       0.34342     -0.1405 ppb        0.34342 244.47%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               36.8      0.0609 ug/L       0.08130      0.0609 ppb        0.08130 133.43%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                4.6      1.4493 ug/L       2.46136      1.4493 ppb        2.46136 169.83%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                66.4      1.8846 ug/L       1.81487      1.8846 ppb        1.81487  96.30%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -45.8     -0.3192 ug/L       0.24081     -0.3192 ppb        0.24081  75.44%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              115.3      1.1212 ug/L       0.02568      1.1212 ppb        0.02568   2.29%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    127.6      8.4825 ug/L       1.89806      8.4825 ppb        1.89806  22.38%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 67
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/17/2010 00:18:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3995.1	3995.1	94.0	%			00:20:24
1	Y RADIAL	4215.5	4215.5	95.76	%			00:20:04
1	Al 396.153Radial†	4811.3	5278.3	5255.9	ug/L	5255.9	ppb	00:20:04
1	Ca 317.933Radial†	2668.6	2821.1	5262.4	ug/L	5262.4	ppb	00:20:24
1	Fe 238.204 Radial†	493.2	514.8	5485.8	ug/L	5485.8	ppb	00:20:24
1	K 766.490 Radial†	27364.2	25944.5	5230.7	ug/L	5230.7	ppb	00:20:04
1	Mg 279.077 IEC†	132.4	138.2	5337.2	ug/L	5337.2	ppb	00:20:24
1	Na 589.592 Radial†	29200.7	30863.2	10295	ug/L	10295	ppb	00:20:04
1	Sr 421.552†	63330.5	67295.2	519.57	ug/L	519.57	ppb	00:20:04
1	Sc 361.383	827950.3	827950.3	97.405	%			00:21:23
1	Y 371.029	659553.9	659553.9	93.856	%			00:21:23
1	Ag 328.068†	101594.8	104073.8	503.10	ug/L	503.10	ppb	00:21:23
1	As 188.979†	1143.5	1202.3	510.49	ug/L	510.49	ppb	00:21:43
1	B 249.677†	20826.4	21863.2	512.02	ug/L	512.02	ppb	00:21:23
1	Ba 233.527†	61430.8	63048.6	513.19	ug/L	513.19	ppb	00:21:23
1	Be 313.107†	1358623.9	1399159.9	515.11	ug/L	515.11	ppb	00:21:23
1	Cd 226.502†	40364.6	41635.5	486.74	ug/L	486.74	ppb	00:21:43
1	Co 228.616†	23628.3	24336.7	507.54	ug/L	507.54	ppb	00:21:43
1	Cr 267.716†	41595.7	42554.2	495.70	ug/L	495.70	ppb	00:21:23
1	Cu 324.752†	172463.1	168963.8	517.35	ug/L	517.35	ppb	00:21:23
1	Mn 257.610†	440111.7	451267.6	520.81	ug/L	520.81	ppb	00:21:23
1	Mo 202.031†	6629.2	6795.3	505.42	ug/L	505.42	ppb	00:21:43
1	Ni 231.604†	19035.4	19429.0	497.35	ug/L	497.35	ppb	00:21:43
1	P 214.914†	4677.2	4559.8	2428.9	ug/L	2428.9	ppb	00:21:43
1	Pb 220.353†	3880.9	4057.8	504.34	ug/L	504.34	ppb	00:21:43
1	S 181.975 Axial†	805.0	783.5	1023.0	ug/L	1023.0	ppb	00:21:43
1	Sb 206.836†	1455.4	1458.5	511.65	ug/L	511.65	ppb	00:21:43
1	Se 196.026†	826.0	871.3	527.64	ug/L	527.64	ppb	00:21:43
1	Si 251.611†	81301.7	82855.5	2575.8	ug/L	2575.8	ppb	00:21:23
1	Sn 189.927†	2745.4	2806.0	504.03	ug/L	504.03	ppb	00:21:43
1	Ti 334.940†	312529.1	322348.5	523.81	ug/L	523.81	ppb	00:21:23
1	Tl 190.801†	1554.5	1635.0	519.71	ug/L	519.71	ppb	00:21:43
1	U 409.014†	12654.1	16506.4	467.17	ug/L	467.17	ppb	00:21:23
1	V 292.402†	64834.7	68239.3	500.85	ug/L	500.85	ppb	00:21:23
1	Zn 213.857†	51642.1	52330.2	506.04	ug/L	506.04	ppb	00:21:23
1	SiO2†	80429.1	81952.4	5450.3	ug/L	5450.3	ppb	00:22:43
2	Sc Radial	3993.4	3993.4	93.9	%			00:20:49
2	Y RADIAL	4145.7	4145.7	94.17	%			00:20:29
2	Al 396.153Radial†	4753.5	5219.1	5196.5	ug/L	5196.5	ppb	00:20:29
2	Ca 317.933Radial†	2660.0	2813.3	5247.8	ug/L	5247.8	ppb	00:20:49
2	Fe 238.204 Radial†	495.1	517.0	5509.2	ug/L	5509.2	ppb	00:20:49
2	K 766.490 Radial†	27113.8	25690.7	5179.5	ug/L	5179.5	ppb	00:20:29
2	Mg 279.077 IEC†	132.1	137.9	5324.5	ug/L	5324.5	ppb	00:20:49
2	Na 589.592 Radial†	28828.8	30480.9	10167	ug/L	10167	ppb	00:20:29
2	Sr 421.552†	62538.2	66481.3	513.28	ug/L	513.28	ppb	00:20:29
2	Sc 361.383	823663.2	823663.2	96.901	%			00:21:51
2	Y 371.029	656546.3	656546.3	93.428	%			00:21:51
2	Ag 328.068†	101053.8	104058.4	503.04	ug/L	503.04	ppb	00:21:51
2	As 188.979†	1147.2	1212.2	514.64	ug/L	514.64	ppb	00:22:11
2	B 249.677†	20692.0	21835.8	511.36	ug/L	511.36	ppb	00:21:51
2	Ba 233.527†	61016.6	62949.5	512.39	ug/L	512.39	ppb	00:21:51
2	Be 313.107†	1349502.7	1397006.8	514.32	ug/L	514.32	ppb	00:21:51
2	Cd 226.502†	40430.0	41918.7	490.05	ug/L	490.05	ppb	00:22:11
2	Co 228.616†	23648.9	24484.2	510.62	ug/L	510.62	ppb	00:22:11
2	Cr 267.716†	41369.1	42542.6	495.56	ug/L	495.56	ppb	00:21:51
2	Cu 324.752†	171171.8	168552.8	516.09	ug/L	516.09	ppb	00:21:51
2	Mn 257.610†	436813.5	450215.6	519.60	ug/L	519.60	ppb	00:21:51
2	Mo 202.031†	6628.6	6830.1	508.01	ug/L	508.01	ppb	00:22:11
2	Ni 231.604†	19043.3	19538.9	500.17	ug/L	500.17	ppb	00:22:11

2	P 214.914†	4670.1	4577.5	2439.0	ug/L	2439.0 ppb	00:22:11
2	Pb 220.353†	3895.8	4094.0	508.80	ug/L	508.80 ppb	00:22:11
2	S 181.975 Axial†	804.7	787.6	1028.3	ug/L	1028.3 ppb	00:22:11
2	Sb 206.836†	1460.2	1471.2	516.07	ug/L	516.07 ppb	00:22:11
2	Se 196.026†	823.7	873.3	528.91	ug/L	528.91 ppb	00:22:11
2	Si 251.611†	80718.3	82687.9	2570.5	ug/L	2570.5 ppb	00:21:51
2	Sn 189.927†	2745.0	2820.2	506.58	ug/L	506.58 ppb	00:22:11
2	Ti 334.940†	310631.4	322060.1	523.34	ug/L	523.34 ppb	00:21:51
2	Tl 190.801†	1541.9	1630.4	518.23	ug/L	518.23 ppb	00:22:11
2	U 409.014†	12601.6	16519.9	467.55	ug/L	467.55 ppb	00:21:51
2	V 292.402†	64525.3	68266.5	501.08	ug/L	501.08 ppb	00:21:51
2	Zn 213.857†	51308.4	52261.8	505.36	ug/L	505.36 ppb	00:21:51
2	SiO2†	80822.5	82788.2	5505.9	ug/L	5505.9 ppb	00:22:49
3	Sc Radial	3987.1	3987.1	93.8	%		00:21:15
3	Y RADIAL	4106.6	4106.6	93.28	%		00:20:54
3	Al 396.153Radial†	4732.0	5204.1	5181.6	ug/L	5181.6 ppb	00:20:54
3	Ca 317.933Radial†	2652.5	2809.7	5241.2	ug/L	5241.2 ppb	00:21:15
3	Fe 238.204 Radial†	498.0	520.8	5550.6	ug/L	5550.6 ppb	00:21:15
3	K 766.490 Radial†	26990.2	25604.4	5162.1	ug/L	5162.1 ppb	00:20:54
3	Mg 279.077 IEC†	134.1	140.2	5415.5	ug/L	5415.5 ppb	00:21:15
3	Na 589.592 Radial†	28953.3	30661.9	10228	ug/L	10228 ppb	00:20:54
3	Sr 421.552†	62429.7	66470.5	513.20	ug/L	513.20 ppb	00:20:54
3	Sc 361.383	824066.7	824066.7	96.948	%		00:22:18
3	Y 371.029	656417.9	656417.9	93.410	%		00:22:18
3	Ag 328.068†	101173.6	104131.0	503.40	ug/L	503.40 ppb	00:22:18
3	As 188.979†	1141.7	1206.0	512.06	ug/L	512.06 ppb	00:22:38
3	B 249.677†	20848.9	21987.2	514.92	ug/L	514.92 ppb	00:22:18
3	Ba 233.527†	61176.3	63083.4	513.47	ug/L	513.47 ppb	00:22:18
3	Be 313.107†	1353297.1	1400238.8	515.51	ug/L	515.51 ppb	00:22:18
3	Cd 226.502†	40371.9	41838.3	489.11	ug/L	489.11 ppb	00:22:38
3	Co 228.616†	23665.2	24489.0	510.72	ug/L	510.72 ppb	00:22:38
3	Cr 267.716†	41441.6	42596.6	496.19	ug/L	496.19 ppb	00:22:18
3	Cu 324.752†	171498.3	168803.1	516.86	ug/L	516.86 ppb	00:22:18
3	Mn 257.610†	437726.1	450936.3	520.43	ug/L	520.43 ppb	00:22:18
3	Mo 202.031†	6615.1	6812.9	506.73	ug/L	506.73 ppb	00:22:38
3	Ni 231.604†	19034.3	19520.0	499.68	ug/L	499.68 ppb	00:22:38
3	P 214.914†	4649.6	4554.0	2425.8	ug/L	2425.8 ppb	00:22:38
3	Pb 220.353†	3874.3	4069.8	505.80	ug/L	505.80 ppb	00:22:38
3	S 181.975 Axial†	810.2	792.8	1035.1	ug/L	1035.1 ppb	00:22:38
3	Sb 206.836†	1462.6	1473.0	516.63	ug/L	516.63 ppb	00:22:38
3	Se 196.026†	829.7	879.1	532.42	ug/L	532.42 ppb	00:22:38
3	Si 251.611†	80902.5	82837.1	2575.2	ug/L	2575.2 ppb	00:22:18
3	Sn 189.927†	2746.9	2820.8	506.68	ug/L	506.68 ppb	00:22:38
3	Ti 334.940†	311132.5	322420.0	523.92	ug/L	523.92 ppb	00:22:18
3	Tl 190.801†	1565.3	1653.7	525.61	ug/L	525.61 ppb	00:22:38
3	U 409.014†	12418.0	16324.1	461.98	ug/L	461.98 ppb	00:22:18
3	V 292.402†	64541.9	68251.0	500.93	ug/L	500.93 ppb	00:22:18
3	Zn 213.857†	51429.5	52360.8	506.32	ug/L	506.32 ppb	00:22:18
3	SiO2†	79567.4	81452.7	5416.9	ug/L	5416.9 ppb	00:22:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	825226.7	97.084	%	0.2785				0.29%
Sc Radial	3991.9	93.9	%	0.10				0.11%
Y 371.029	657506.1	93.565	%	0.2525				0.27%
Y RADIAL	4155.9	94.40	%	1.253				1.33%
Ag 328.068†	104087.7	503.18	ug/L	0.195	503.18	ppb	0.195	0.04%
QC value within limits for Ag 328.068 Recovery = 100.64%								
Al 396.153Radial†	5233.9	5211.3	ug/L	39.32	5211.3	ppb	39.32	0.75%
QC value within limits for Al 396.153Radial Recovery = 104.23%								
As 188.979†	1206.8	512.40	ug/L	2.098	512.40	ppb	2.098	0.41%
QC value within limits for As 188.979 Recovery = 102.48%								
B 249.677†	21895.4	512.77	ug/L	1.892	512.77	ppb	1.892	0.37%
QC value within limits for B 249.677 Recovery = 102.55%								
Ba 233.527†	63027.1	513.02	ug/L	0.564	513.02	ppb	0.564	0.11%
QC value within limits for Ba 233.527 Recovery = 102.60%								
Be 313.107†	1398801.9	514.98	ug/L	0.605	514.98	ppb	0.605	0.12%
QC value within limits for Be 313.107 Recovery = 103.00%								
Ca 317.933Radial†	2814.7	5250.5	ug/L	10.84	5250.5	ppb	10.84	0.21%

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   QC value within limits for Ca 317.933Radial  Recovery = 105.01%
Cd 226.502†            41797.5      488.63 ug/L        1.706      488.63 ppb          1.706   0.35%
   QC value within limits for Cd 226.502  Recovery = 97.73%
Co 228.616†            24436.6      509.62 ug/L        1.808      509.62 ppb          1.808   0.35%
   QC value within limits for Co 228.616  Recovery = 101.92%
Cr 267.716†            42564.5      495.82 ug/L        0.332      495.82 ppb          0.332   0.07%
   QC value within limits for Cr 267.716  Recovery = 99.16%
Cu 324.752†           168773.2      516.77 ug/L        0.634      516.77 ppb          0.634   0.12%
   QC value within limits for Cu 324.752  Recovery = 103.35%
Fe 238.204 Radial†       517.5      5515.2 ug/L       32.80      5515.2 ppb          32.80   0.59%
   QC value greater than the upper limit for Fe 238.204 Radial  Recovery = 110.30%
K 766.490 Radial†      25746.5      5190.8 ug/L       35.67      5190.8 ppb          35.67   0.69%
   QC value within limits for K 766.490 Radial  Recovery = 103.82%
Mg 279.077 IEC†          138.8      5359.1 ug/L       49.25      5359.1 ppb          49.25   0.92%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.18%
Mn 257.610†           450806.5      520.28 ug/L        0.619      520.28 ppb          0.619   0.12%
   QC value within limits for Mn 257.610  Recovery = 104.06%
Mo 202.031†            6812.8       506.72 ug/L        1.294      506.72 ppb          1.294   0.26%
   QC value within limits for Mo 202.031  Recovery = 101.34%
Na 589.592 Radial†     30668.7       10230 ug/L         63.8       10230 ppb           63.8   0.62%
   QC value within limits for Na 589.592 Radial  Recovery = 102.30%
Ni 231.604†            19496.0      499.07 ug/L        1.504      499.07 ppb          1.504   0.30%
   QC value within limits for Ni 231.604  Recovery = 99.81%
P 214.914†              4563.8      2431.3 ug/L        6.91      2431.3 ppb           6.91   0.28%
   QC value within limits for P 214.914  Recovery = 97.25%
Pb 220.353†             4073.9      506.31 ug/L        2.278      506.31 ppb          2.278   0.45%
   QC value within limits for Pb 220.353  Recovery = 101.26%
S 181.975 Axial†         787.9      1028.8 ug/L        6.07      1028.8 ppb           6.07   0.59%
   QC value within limits for S 181.975 Axial  Recovery = 102.88%
Sb 206.836†            1467.5       514.78 ug/L        2.725      514.78 ppb          2.725   0.53%
   QC value within limits for Sb 206.836  Recovery = 102.96%
Se 196.026†             874.6       529.65 ug/L        2.479      529.65 ppb          2.479   0.47%
   QC value within limits for Se 196.026  Recovery = 105.93%
Si 251.611†            82793.5      2573.8 ug/L        2.88      2573.8 ppb           2.88   0.11%
   QC value within limits for Si 251.611  Recovery = 102.95%
Sn 189.927†            2815.7       505.77 ug/L        1.502      505.77 ppb          1.502   0.30%
   QC value within limits for Sn 189.927  Recovery = 101.15%
Sr 421.552†            66749.0      515.35 ug/L        3.653      515.35 ppb          3.653   0.71%
   QC value within limits for Sr 421.552  Recovery = 103.07%
Ti 334.940†           322276.2      523.69 ug/L        0.308      523.69 ppb          0.308   0.06%
   QC value within limits for Ti 334.940  Recovery = 104.74%
Tl 190.801†            1639.7       521.18 ug/L        3.904      521.18 ppb          3.904   0.75%
   QC value within limits for Tl 190.801  Recovery = 104.24%
U 409.014†             16450.1      465.56 ug/L        3.111      465.56 ppb          3.111   0.67%
   QC value within limits for U 409.014  Recovery = 93.11%
V 292.402†             68252.3      500.95 ug/L        0.117      500.95 ppb          0.117   0.02%
   QC value within limits for V 292.402  Recovery = 100.19%
Zn 213.857†            52317.6      505.91 ug/L        0.496      505.91 ppb          0.496   0.10%
   QC value within limits for Zn 213.857  Recovery = 101.18%
SiO2†                  82064.4      5457.7 ug/L       44.96      5457.7 ppb          44.96   0.82%
   QC value within limits for SiO2  Recovery = 102.06%
QC Failed.  Continue with analysis.
```

Sequence No.: 68
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/17/2010 00:25:03
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3986.3	3986.3	93.8	%			00:27:16
1	Y RADIAL	4277.4	4277.4	97.16	%			00:26:56
1	Al 396.153Radial†	-129.9	20.5	20.477	ug/L	20.477	ppb	00:26:56
1	Ca 317.933Radial†	33.4	17.3	32.187	ug/L	32.187	ppb	00:27:16
1	Fe 238.204 Radial†	9.6	0.2	2.1581	ug/L	2.1581	ppb	00:27:16
1	K 766.490 Radial†	3074.5	107.0	21.602	ug/L	21.602	ppb	00:26:56
1	Mg 279.077 IEC†	4.7	2.3	90.317	ug/L	90.317	ppb	00:27:16
1	Na 589.592 Radial†	12.4	-193.8	-64.653	ug/L	-64.653	ppb	00:26:56
1	Sr 421.552†	71.3	-13.8	-0.1066	ug/L	-0.1066	ppb	00:26:56
1	Sc 361.383	773428.2	773428.2	90.991	%			00:28:13
1	Y 371.029	624409.3	624409.3	88.855	%			00:28:13
1	Ag 328.068†	277.5	77.3	0.3776	ug/L	0.3776	ppb	00:28:13
1	As 188.979†	-29.3	-3.9	-1.6343	ug/L	-1.6343	ppb	00:28:33
1	B 249.677†	-174.1	290.6	6.8357	ug/L	6.8357	ppb	00:28:33
1	Ba 233.527†	10.3	-7.5	-0.0620	ug/L	-0.0620	ppb	00:28:33
1	Be 313.107†	-4114.1	-182.3	-0.0667	ug/L	-0.0667	ppb	00:28:13
1	Cd 226.502†	-205.5	-30.4	-0.3575	ug/L	-0.3575	ppb	00:28:33
1	Co 228.616†	-71.9	-0.2	0.0004	ug/L	0.0004	ppb	00:28:33
1	Cr 267.716†	84.5	-56.8	-0.6580	ug/L	-0.6580	ppb	00:28:33
1	Cu 324.752†	8165.9	880.4	2.7010	ug/L	2.7010	ppb	00:28:13
1	Mn 257.610†	748.9	253.4	0.2887	ug/L	0.2887	ppb	00:28:33
1	Mo 202.031†	29.2	21.6	1.6086	ug/L	1.6086	ppb	00:28:33
1	Ni 231.604†	105.3	2.2	0.0557	ug/L	0.0557	ppb	00:28:33
1	P 214.914†	225.2	5.5	2.5264	ug/L	2.5264	ppb	00:28:33
1	Pb 220.353†	-89.7	-25.0	-3.0895	ug/L	-3.0895	ppb	00:28:33
1	S 181.975 Axial†	51.9	14.2	18.498	ug/L	18.498	ppb	00:28:33
1	Sb 206.836†	23.8	-9.5	-3.1467	ug/L	-3.1467	ppb	00:28:33
1	Se 196.026†	-28.5	-8.0	-4.6501	ug/L	-4.6501	ppb	00:28:33
1	Si 251.611†	703.8	161.2	5.0042	ug/L	5.0042	ppb	00:28:33
1	Sn 189.927†	20.8	10.3	1.8440	ug/L	1.8440	ppb	00:28:33
1	Ti 334.940†	-1304.2	59.6	0.0983	ug/L	0.0983	ppb	00:28:13
1	Tl 190.801†	-23.9	12.9	4.0616	ug/L	4.0616	ppb	00:28:33
1	U 409.014†	-3511.5	-344.0	-9.7721	ug/L	-9.7721	ppb	00:28:13
1	V 292.402†	-1582.3	-61.6	-0.4409	ug/L	-0.4409	ppb	00:28:13
1	Zn 213.857†	768.9	157.3	1.5310	ug/L	1.5310	ppb	00:28:33
1	SiO2†	709.8	160.6	10.664	ug/L	10.664	ppb	00:29:29
2	Sc Radial	4026.1	4026.1	94.7	%			00:27:41
2	Y RADIAL	4273.4	4273.4	97.07	%			00:27:21
2	Al 396.153Radial†	-138.5	12.8	12.769	ug/L	12.769	ppb	00:27:21
2	Ca 317.933Radial†	61.6	46.7	87.062	ug/L	87.062	ppb	00:27:41
2	Fe 238.204 Radial†	11.0	1.5	16.108	ug/L	16.108	ppb	00:27:41
2	K 766.490 Radial†	3017.2	14.1	2.8390	ug/L	2.8390	ppb	00:27:21
2	Mg 279.077 IEC†	3.3	0.7	28.251	ug/L	28.251	ppb	00:27:41
2	Na 589.592 Radial†	-26.8	-235.4	-78.525	ug/L	-78.525	ppb	00:27:21
2	Sr 421.552†	45.6	-41.7	-0.3227	ug/L	-0.3227	ppb	00:27:21
2	Sc 361.383	836831.2	836831.2	98.450	%			00:28:38
2	Y 371.029	675397.9	675397.9	96.111	%			00:28:38
2	Ag 328.068†	165.4	-59.7	-0.2846	ug/L	-0.2846	ppb	00:28:38
2	As 188.979†	-37.3	-9.6	-4.0280	ug/L	-4.0280	ppb	00:28:58
2	B 249.677†	-204.3	274.3	6.4514	ug/L	6.4514	ppb	00:28:58
2	Ba 233.527†	9.8	-8.9	-0.0718	ug/L	-0.0718	ppb	00:28:58
2	Be 313.107†	-4188.9	84.2	0.0312	ug/L	0.0312	ppb	00:28:38
2	Cd 226.502†	-189.6	2.9	0.0327	ug/L	0.0327	ppb	00:28:58
2	Co 228.616†	-71.1	6.7	0.1420	ug/L	0.1420	ppb	00:28:58
2	Cr 267.716†	104.6	-43.4	-0.5062	ug/L	-0.5062	ppb	00:28:58
2	Cu 324.752†	8110.7	144.3	0.4412	ug/L	0.4412	ppb	00:28:38
2	Mn 257.610†	701.3	142.6	0.1649	ug/L	0.1649	ppb	00:28:58
2	Mo 202.031†	27.0	16.9	1.2615	ug/L	1.2615	ppb	00:28:58
2	Ni 231.604†	115.9	4.2	0.1067	ug/L	0.1067	ppb	00:28:58

2	P 214.914†	230.7	-7.6	-4.3169	ug/L	-4.3169 ppb	00:28:58
2	Pb 220.353†	-76.4	-4.1	-0.4976	ug/L	-0.4976 ppb	00:28:58
2	S 181.975 Axial†	57.7	15.7	20.541	ug/L	20.541 ppb	00:28:58
2	Sb 206.836†	31.2	-4.0	-1.3054	ug/L	-1.3054 ppb	00:28:58
2	Se 196.026†	-33.8	-11.0	-6.3367	ug/L	-6.3367 ppb	00:28:58
2	Si 251.611†	710.2	109.0	3.3819	ug/L	3.3819 ppb	00:28:58
2	Sn 189.927†	19.4	7.1	1.2780	ug/L	1.2780 ppb	00:28:58
2	Ti 334.940†	-1408.8	61.9	0.1091	ug/L	0.1091 ppb	00:28:38
2	Tl 190.801†	-31.4	7.3	2.2922	ug/L	2.2922 ppb	00:28:58
2	U 409.014†	-3374.9	87.1	2.4749	ug/L	2.4749 ppb	00:28:38
2	V 292.402†	-1661.1	-9.9	-0.0512	ug/L	-0.0512 ppb	00:28:38
2	Zn 213.857†	787.6	112.3	1.0921	ug/L	1.0921 ppb	00:28:58
2	SiO2†	742.9	135.1	8.9712	ug/L	8.9712 ppb	00:29:34
3	Sc Radial	3877.8	3877.8	91.2	%		00:28:06
3	Y RADIAL	4258.6	4258.6	96.74	%		00:27:46
3	Al 396.153Radial†	-141.0	4.4	4.3742	ug/L	4.3742 ppb	00:27:46
3	Ca 317.933Radial†	34.1	19.0	35.528	ug/L	35.528 ppb	00:28:06
3	Fe 238.204 Radial†	12.5	3.6	38.510	ug/L	38.510 ppb	00:28:06
3	K 766.490 Radial†	3032.1	152.2	30.726	ug/L	30.726 ppb	00:27:46
3	Mg 279.077 IEC†	3.9	1.5	58.870	ug/L	58.870 ppb	00:28:06
3	Na 589.592 Radial†	15.2	-190.4	-63.504	ug/L	-63.504 ppb	00:27:46
3	Sr 421.552†	52.3	-32.5	-0.2513	ug/L	-0.2513 ppb	00:27:46
3	Sc 361.383	813500.9	813500.9	95.705	%		00:29:03
3	Y 371.029	658175.5	658175.5	93.660	%		00:29:03
3	Ag 328.068†	282.9	67.9	0.3391	ug/L	0.3391 ppb	00:29:03
3	As 188.979†	-36.2	-9.5	-3.9960	ug/L	-3.9960 ppb	00:29:23
3	B 249.677†	-233.2	238.2	5.5984	ug/L	5.5984 ppb	00:29:23
3	Ba 233.527†	8.6	-9.8	-0.0798	ug/L	-0.0798 ppb	00:29:23
3	Be 313.107†	-4107.1	47.7	0.0175	ug/L	0.0175 ppb	00:29:03
3	Cd 226.502†	-207.2	-21.0	-0.2504	ug/L	-0.2504 ppb	00:29:23
3	Co 228.616†	-73.8	1.8	0.0407	ug/L	0.0407 ppb	00:29:23
3	Cr 267.716†	105.1	-39.8	-0.4623	ug/L	-0.4623 ppb	00:29:23
3	Cu 324.752†	8226.3	501.4	1.5391	ug/L	1.5391 ppb	00:29:03
3	Mn 257.610†	782.0	247.3	0.2867	ug/L	0.2867 ppb	00:29:23
3	Mo 202.031†	30.2	21.1	1.5738	ug/L	1.5738 ppb	00:29:23
3	Ni 231.604†	82.7	-27.2	-0.6955	ug/L	-0.6955 ppb	00:29:23
3	P 214.914†	227.1	-4.7	-2.9136	ug/L	-2.9136 ppb	00:29:23
3	Pb 220.353†	-82.7	-12.9	-1.5960	ug/L	-1.5960 ppb	00:29:23
3	S 181.975 Axial†	50.4	9.7	12.691	ug/L	12.691 ppb	00:29:23
3	Sb 206.836†	32.7	-1.5	-0.4468	ug/L	-0.4468 ppb	00:29:23
3	Se 196.026†	-14.5	8.2	4.9136	ug/L	4.9136 ppb	00:29:23
3	Si 251.611†	704.3	123.6	3.8335	ug/L	3.8335 ppb	00:29:23
3	Sn 189.927†	24.8	13.3	2.3890	ug/L	2.3890 ppb	00:29:23
3	Ti 334.940†	-1444.2	-16.1	-0.0246	ug/L	-0.0246 ppb	00:29:03
3	Tl 190.801†	-30.2	7.6	2.3913	ug/L	2.3913 ppb	00:29:23
3	U 409.014†	-3478.5	-119.4	-3.3962	ug/L	-3.3962 ppb	00:29:03
3	V 292.402†	-1677.9	-75.9	-0.5386	ug/L	-0.5386 ppb	00:29:03
3	Zn 213.857†	798.3	146.4	1.4255	ug/L	1.4255 ppb	00:29:23
3	SiO2†	741.6	155.3	10.314	ug/L	10.314 ppb	00:29:39

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	807920.1	95.048	%	3.7726				3.97%
Sc Radial	3963.4	93.2	%	1.80				1.94%
Y 371.029	652660.9	92.875	%	3.6910				3.97%
Y RADIAL	4269.8	96.99	%	0.225				0.23%
Ag 328.068†	28.5	0.1440	ug/L	0.37171	0.1440	ppb	0.37171	258.05%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	12.6	12.540	ug/L	8.0540	12.540	ppb	8.0540	64.23%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-7.7	-3.2194	ug/L	1.37288	-3.2194	ppb	1.37288	42.64%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	267.7	6.2952	ug/L	0.63329	6.2952	ppb	0.63329	10.06%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-8.7	-0.0712	ug/L	0.00887	-0.0712	ppb	0.00887	12.46%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-16.8	-0.0060	ug/L	0.05302	-0.0060	ppb	0.05302	878.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	27.7	51.592	ug/L	30.7630	51.592	ppb	30.7630	59.63%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -16.2     -0.1917 ug/L       0.20158     -0.1917 ppb        0.20158 105.14%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                2.8      0.0610 ug/L       0.07297      0.0610 ppb        0.07297 119.56%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -46.7     -0.5422 ug/L       0.10272     -0.5422 ppb        0.10272  18.95%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              508.7      1.5604 ug/L       1.13004      1.5604 ppb        1.13004  72.42%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.8     18.925 ug/L       18.3389     18.925 ppb        18.3389  96.90%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         91.1     18.389 ug/L       14.2182     18.389 ppb        14.2182  77.32%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            1.5     59.146 ug/L       31.0340     59.146 ppb        31.0340  52.47%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              214.4      0.2468 ug/L       0.07093      0.2468 ppb        0.07093  28.75%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               19.9      1.4813 ug/L       0.19115      1.4813 ppb        0.19115  12.90%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      -206.5     -68.894 ug/L        8.3602     -68.894 ppb         8.3602  12.13%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -6.9     -0.1777 ug/L       0.44915     -0.1777 ppb        0.44915 252.74%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -2.3     -1.5681 ug/L       3.61461     -1.5681 ppb        3.61461 230.52%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -14.0     -1.7277 ug/L       1.30096     -1.7277 ppb        1.30096  75.30%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          13.2     17.243 ug/L        4.0726     17.243 ppb         4.0726  23.62%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -5.0     -1.6329 ug/L       1.37940     -1.6329 ppb        1.37940  84.47%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -3.6     -2.0244 ug/L       6.06738     -2.0244 ppb        6.06738 299.71%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              131.3      4.0732 ug/L       0.83727      4.0732 ppb        0.83727  20.56%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               10.2      1.8370 ug/L       0.55550      1.8370 ppb        0.55550  30.24%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -29.3     -0.2268 ug/L       0.11010     -0.2268 ppb        0.11010  48.53%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               35.1      0.0609 ug/L       0.07427      0.0609 ppb        0.07427 121.92%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                9.2      2.9150 ug/L       0.99423      2.9150 ppb        0.99423  34.11%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              -125.4     -3.5645 ug/L       6.12524     -3.5645 ppb        6.12524 171.84%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†              -49.2     -0.3436 ug/L       0.25786     -0.3436 ppb        0.25786  75.05%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              138.7      1.3495 ug/L       0.22909      1.3495 ppb        0.22909  16.98%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    150.3      9.9832 ug/L       0.89368      9.9832 ppb        0.89368   8.95%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 76
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/17/2010 01:21:39
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4179.7	4179.7	98.3	%			01:23:31
1	Y RADIAL	4267.1	4267.1	96.93	%			01:23:31
1	Al 396.153Radial†	4846.1	5087.8	5065.3	ug/L	5065.3	ppb	01:23:31
1	Ca 317.933Radial†	2696.6	2724.2	5081.7	ug/L	5081.7	ppb	01:23:51
1	Fe 238.204 Radial†	499.4	497.8	5305.9	ug/L	5305.9	ppb	01:23:51
1	K 766.490 Radial†	27663.7	24963.5	5032.9	ug/L	5032.9	ppb	01:23:31
1	Mg 279.077 IEC†	140.1	139.8	5398.2	ug/L	5398.2	ppb	01:23:51
1	Na 589.592 Radial†	29385.7	29679.4	9899.9	ug/L	9899.9	ppb	01:23:31
1	Sr 421.552†	63741.4	64737.8	499.82	ug/L	499.82	ppb	01:23:31
1	Sc 361.383	828006.2	828006.2	97.411	%			01:24:49
1	Y 371.029	660648.9	660648.9	94.012	%			01:24:49
1	Ag 328.068†	102467.3	104962.5	507.30	ug/L	507.30	ppb	01:24:54
1	As 188.979†	1140.9	1199.5	509.19	ug/L	509.19	ppb	01:25:14
1	B 249.677†	20859.8	21896.0	512.80	ug/L	512.80	ppb	01:24:54
1	Ba 233.527†	61626.9	63245.6	514.79	ug/L	514.79	ppb	01:24:54
1	Be 313.107†	1356435.9	1396819.5	514.23	ug/L	514.23	ppb	01:24:49
1	Cd 226.502†	41506.9	42805.4	500.45	ug/L	500.45	ppb	01:24:54
1	Co 228.616†	24054.3	24772.4	516.64	ug/L	516.64	ppb	01:24:54
1	Cr 267.716†	41824.5	42786.2	498.39	ug/L	498.39	ppb	01:24:54
1	Cu 324.752†	172444.9	168933.2	517.23	ug/L	517.23	ppb	01:24:54
1	Mn 257.610†	438932.5	450026.5	519.36	ug/L	519.36	ppb	01:24:49
1	Mo 202.031†	6609.0	6774.2	503.84	ug/L	503.84	ppb	01:25:14
1	Ni 231.604†	19309.2	19708.8	504.51	ug/L	504.51	ppb	01:24:54
1	P 214.914†	4689.8	4572.4	2436.1	ug/L	2436.1	ppb	01:25:14
1	Pb 220.353†	3883.8	4060.6	504.64	ug/L	504.64	ppb	01:25:14
1	S 181.975 Axial†	813.0	791.7	1033.8	ug/L	1033.8	ppb	01:25:14
1	Sb 206.836†	1482.3	1486.1	521.03	ug/L	521.03	ppb	01:25:14
1	Se 196.026†	832.6	878.0	530.98	ug/L	530.98	ppb	01:25:14
1	Si 251.611†	81744.8	83304.6	2589.8	ug/L	2589.8	ppb	01:24:54
1	Sn 189.927†	2750.7	2811.1	504.93	ug/L	504.93	ppb	01:25:14
1	Ti 334.940†	307550.6	317216.0	515.42	ug/L	515.42	ppb	01:24:54
1	Tl 190.801†	1549.4	1629.7	517.91	ug/L	517.91	ppb	01:25:14
1	U 409.014†	13568.6	17444.3	493.83	ug/L	493.83	ppb	01:24:54
1	V 292.402†	65367.6	68781.9	504.84	ug/L	504.84	ppb	01:24:54
1	Zn 213.857†	51905.5	52597.1	508.63	ug/L	508.63	ppb	01:24:54
1	SiO2†	79807.7	81308.9	5407.4	ug/L	5407.4	ppb	01:26:21
2	Sc Radial	4179.7	4179.7	98.3	%			01:23:56
2	Y RADIAL	4236.6	4236.6	96.24	%			01:23:56
2	Al 396.153Radial†	4860.8	5102.7	5080.3	ug/L	5080.3	ppb	01:23:56
2	Ca 317.933Radial†	2677.1	2704.4	5044.7	ug/L	5044.7	ppb	01:24:16
2	Fe 238.204 Radial†	497.6	496.0	5286.8	ug/L	5286.8	ppb	01:24:16
2	K 766.490 Radial†	27663.5	24963.3	5032.9	ug/L	5032.9	ppb	01:23:56
2	Mg 279.077 IEC†	136.9	136.5	5272.6	ug/L	5272.6	ppb	01:24:16
2	Na 589.592 Radial†	29437.9	29732.4	9917.6	ug/L	9917.6	ppb	01:23:56
2	Sr 421.552†	63810.1	64807.5	500.36	ug/L	500.36	ppb	01:23:56
2	Sc 361.383	830895.1	830895.1	97.751	%			01:25:20
2	Y 371.029	661530.7	661530.7	94.137	%			01:25:20
2	Ag 328.068†	102695.6	104830.3	506.67	ug/L	506.67	ppb	01:25:25
2	As 188.979†	1140.9	1195.5	507.48	ug/L	507.48	ppb	01:25:45
2	B 249.677†	20861.2	21823.0	511.08	ug/L	511.08	ppb	01:25:25
2	Ba 233.527†	61818.9	63222.2	514.60	ug/L	514.60	ppb	01:25:25
2	Be 313.107†	1358559.4	1394150.5	513.25	ug/L	513.25	ppb	01:25:20
2	Cd 226.502†	41621.1	42774.0	500.08	ug/L	500.08	ppb	01:25:25
2	Co 228.616†	24160.7	24795.4	517.12	ug/L	517.12	ppb	01:25:25
2	Cr 267.716†	41899.7	42713.8	497.55	ug/L	497.55	ppb	01:25:25
2	Cu 324.752†	172482.0	168355.6	515.46	ug/L	515.46	ppb	01:25:25
2	Mn 257.610†	440394.8	449955.8	519.28	ug/L	519.28	ppb	01:25:20
2	Mo 202.031†	6617.0	6758.8	502.69	ug/L	502.69	ppb	01:25:45
2	Ni 231.604†	19348.0	19679.6	503.76	ug/L	503.76	ppb	01:25:25

2	P 214.914†	4665.4	4530.8	2413.3 ug/L	2413.3 ppb	01:25:45
2	Pb 220.353†	3869.8	4032.4	501.16 ug/L	501.16 ppb	01:25:45
2	S 181.975 Axial†	814.2	790.1	1031.6 ug/L	1031.6 ppb	01:25:45
2	Sb 206.836†	1477.8	1476.1	517.59 ug/L	517.59 ppb	01:25:45
2	Se 196.026†	844.3	887.1	536.19 ug/L	536.19 ppb	01:25:45
2	Si 251.611†	81586.0	82850.5	2575.6 ug/L	2575.6 ppb	01:25:25
2	Sn 189.927†	2741.9	2792.3	501.55 ug/L	501.55 ppb	01:25:45
2	Ti 334.940†	307864.4	316439.3	514.17 ug/L	514.17 ppb	01:25:25
2	Tl 190.801†	1544.2	1618.8	514.47 ug/L	514.47 ppb	01:25:45
2	U 409.014†	13399.3	17222.8	487.54 ug/L	487.54 ppb	01:25:25
2	V 292.402†	65533.5	68718.4	504.35 ug/L	504.35 ppb	01:25:25
2	Zn 213.857†	52023.4	52532.4	508.01 ug/L	508.01 ppb	01:25:25
2	SiO2†	81504.0	82759.4	5504.1 ug/L	5504.1 ppb	01:26:26
3	Sc Radial	3778.4	3778.4	88.9 %		01:24:21
3	Y RADIAL	3840.4	3840.4	87.24 %		01:24:21
3	Al 396.153Radial†	4961.1	5740.5	5718.1 ug/L	5718.1 ppb	01:24:21
3	Ca 317.933Radial†	2692.5	3010.9	5616.4 ug/L	5616.4 ppb	01:24:41
3	Fe 238.204 Radial†	503.0	555.8	5922.5 ug/L	5922.5 ppb	01:24:41
3	K 766.490 Radial†	27931.4	28252.3	5696.1 ug/L	5696.1 ppb	01:24:21
3	Mg 279.077 IEC†	137.3	151.8	5861.1 ug/L	5861.1 ppb	01:24:41
3	Na 589.592 Radial†	30100.3	33656.9	11227 ug/L	11227 ppb	01:24:21
3	Sr 421.552†	65459.5	73554.7	567.90 ug/L	567.90 ppb	01:24:21
3	Sc 361.383	819546.3	819546.3	96.416 %		01:25:51
3	Y 371.029	653321.1	653321.1	92.969 %		01:25:51
3	Ag 328.068†	102649.6	106237.4	513.64 ug/L	513.64 ppb	01:25:56
3	As 188.979†	1154.6	1225.8	520.47 ug/L	520.47 ppb	01:26:16
3	B 249.677†	20885.4	22143.6	518.50 ug/L	518.50 ppb	01:25:56
3	Ba 233.527†	61653.6	63926.5	520.35 ug/L	520.35 ppb	01:25:56
3	Be 313.107†	1338661.5	1392758.7	512.75 ug/L	512.75 ppb	01:25:51
3	Cd 226.502†	41645.3	43388.8	507.21 ug/L	507.21 ppb	01:25:56
3	Co 228.616†	24136.7	25112.8	523.72 ug/L	523.72 ppb	01:25:56
3	Cr 267.716†	41970.9	43381.3	505.33 ug/L	505.33 ppb	01:25:56
3	Cu 324.752†	172327.0	170638.3	522.48 ug/L	522.48 ppb	01:25:56
3	Mn 257.610†	434221.0	449791.2	519.13 ug/L	519.13 ppb	01:25:51
3	Mo 202.031†	6589.9	6824.4	507.62 ug/L	507.62 ppb	01:26:16
3	Ni 231.604†	19379.1	19985.9	511.61 ug/L	511.61 ppb	01:25:56
3	P 214.914†	4668.6	4600.1	2450.1 ug/L	2450.1 ppb	01:26:16
3	Pb 220.353†	3877.6	4095.3	509.04 ug/L	509.04 ppb	01:26:16
3	S 181.975 Axial†	797.4	784.2	1023.8 ug/L	1023.8 ppb	01:26:16
3	Sb 206.836†	1467.6	1486.5	521.32 ug/L	521.32 ppb	01:26:16
3	Se 196.026†	817.8	871.5	529.20 ug/L	529.20 ppb	01:26:16
3	Si 251.611†	81710.8	84135.6	2615.6 ug/L	2615.6 ppb	01:25:56
3	Sn 189.927†	2755.2	2845.0	511.10 ug/L	511.10 ppb	01:26:16
3	Ti 334.940†	307813.0	320747.3	521.19 ug/L	521.19 ppb	01:25:56
3	Tl 190.801†	1555.6	1652.6	525.14 ug/L	525.14 ppb	01:26:16
3	U 409.014†	13692.6	17716.7	501.48 ug/L	501.48 ppb	01:25:56
3	V 292.402†	65498.1	69610.0	510.81 ug/L	510.81 ppb	01:25:56
3	Zn 213.857†	52024.8	53270.8	515.06 ug/L	515.06 ppb	01:25:56
3	SiO2†	80287.1	82651.8	5496.8 ug/L	5496.8 ppb	01:26:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	826149.2	97.193	%	0.6939				0.71%
Sc Radial	4045.9	95.2	%	5.45				5.73%
Y 371.029	658500.2	93.706	%	0.6413				0.68%
Y RADIAL	4114.7	93.47	%	5.407				5.79%
Ag 328.068†	105343.4	509.20	ug/L	3.858	509.20	ppb	3.858	0.76%
QC value within limits for Ag 328.068 Recovery = 101.84%								
Al 396.153Radial†	5310.3	5287.9	ug/L	372.65	5287.9	ppb	372.65	7.05%
QC value within limits for Al 396.153Radial Recovery = 105.76%								
As 188.979†	1206.9	512.38	ug/L	7.054	512.38	ppb	7.054	1.38%
QC value within limits for As 188.979 Recovery = 102.48%								
B 249.677†	21954.2	514.12	ug/L	3.884	514.12	ppb	3.884	0.76%
QC value within limits for B 249.677 Recovery = 102.82%								
Ba 233.527†	63464.8	516.58	ug/L	3.267	516.58	ppb	3.267	0.63%
QC value within limits for Ba 233.527 Recovery = 103.32%								
Be 313.107†	1394576.2	513.41	ug/L	0.753	513.41	ppb	0.753	0.15%
QC value within limits for Be 313.107 Recovery = 102.68%								
Ca 317.933Radial†	2813.2	5247.6	ug/L	319.93	5247.6	ppb	319.93	6.10%

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   QC value within limits for Ca 317.933Radial  Recovery = 104.95%
Cd 226.502†            42989.4      502.58 ug/L        4.016      502.58 ppb        4.016   0.80%
   QC value within limits for Cd 226.502  Recovery = 100.52%
Co 228.616†            24893.5      519.16 ug/L        3.960      519.16 ppb        3.960   0.76%
   QC value within limits for Co 228.616  Recovery = 103.83%
Cr 267.716†            42960.4      500.42 ug/L        4.271      500.42 ppb        4.271   0.85%
   QC value within limits for Cr 267.716  Recovery = 100.08%
Cu 324.752†           169309.0      518.39 ug/L        3.649      518.39 ppb        3.649   0.70%
   QC value within limits for Cu 324.752  Recovery = 103.68%
Fe 238.204 Radial†       516.5      5505.1 ug/L       361.65      5505.1 ppb       361.65   6.57%
   QC value greater than the upper limit for Fe 238.204 Radial  Recovery = 110.10%
K 766.490 Radial†      26059.7      5254.0 ug/L       382.91      5254.0 ppb       382.91   7.29%
   QC value within limits for K 766.490 Radial  Recovery = 105.08%
Mg 279.077 IEC†          142.7      5510.6 ug/L       309.94      5510.6 ppb       309.94   5.62%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 110.21%
Mn 257.610†           449924.5      519.25 ug/L        0.117      519.25 ppb        0.117   0.02%
   QC value within limits for Mn 257.610  Recovery = 103.85%
Mo 202.031†             6785.8      504.72 ug/L        2.582      504.72 ppb        2.582   0.51%
   QC value within limits for Mo 202.031  Recovery = 100.94%
Na 589.592 Radial†     31022.9       10348 ug/L        760.9       10348 ppb        760.9   7.35%
   QC value within limits for Na 589.592 Radial  Recovery = 103.48%
Ni 231.604†            19791.4      506.63 ug/L        4.329      506.63 ppb        4.329   0.85%
   QC value within limits for Ni 231.604  Recovery = 101.33%
P 214.914†              4567.8      2433.2 ug/L       18.59      2433.2 ppb       18.59   0.76%
   QC value within limits for P 214.914  Recovery = 97.33%
Pb 220.353†             4062.7      504.95 ug/L        3.949      504.95 ppb        3.949   0.78%
   QC value within limits for Pb 220.353  Recovery = 100.99%
S 181.975 Axial†         788.6      1029.7 ug/L         5.26      1029.7 ppb         5.26   0.51%
   QC value within limits for S 181.975 Axial  Recovery = 102.97%
Sb 206.836†             1482.9      519.98 ug/L        2.076      519.98 ppb        2.076   0.40%
   QC value within limits for Sb 206.836  Recovery = 104.00%
Se 196.026†              878.9      532.12 ug/L        3.634      532.12 ppb        3.634   0.68%
   QC value within limits for Se 196.026  Recovery = 106.42%
Si 251.611†            83430.3      2593.7 ug/L       20.28      2593.7 ppb       20.28   0.78%
   QC value within limits for Si 251.611  Recovery = 103.75%
Sn 189.927†             2816.2      505.86 ug/L        4.843      505.86 ppb        4.843   0.96%
   QC value within limits for Sn 189.927  Recovery = 101.17%
Sr 421.552†            67700.0      522.69 ug/L       39.148      522.69 ppb       39.148   7.49%
   QC value within limits for Sr 421.552  Recovery = 104.54%
Ti 334.940†           318134.2      516.93 ug/L        3.745      516.93 ppb        3.745   0.72%
   QC value within limits for Ti 334.940  Recovery = 103.39%
Tl 190.801†             1633.7      519.17 ug/L        5.449      519.17 ppb        5.449   1.05%
   QC value within limits for Tl 190.801  Recovery = 103.83%
U 409.014†             17461.3      494.28 ug/L        6.982      494.28 ppb        6.982   1.41%
   QC value within limits for U 409.014  Recovery = 98.86%
V 292.402†             69036.7      506.67 ug/L        3.599      506.67 ppb        3.599   0.71%
   QC value within limits for V 292.402  Recovery = 101.33%
Zn 213.857†            52800.1      510.57 ug/L        3.905      510.57 ppb        3.905   0.76%
   QC value within limits for Zn 213.857  Recovery = 102.11%
SiO2†                  82240.0      5469.5 ug/L       53.87      5469.5 ppb       53.87   0.98%
   QC value within limits for SiO2  Recovery = 102.28%
QC Failed.  Continue with analysis.
```

Sequence No.: 77
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/17/2010 01:28:41
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4057.5	4057.5	95.5	%			01:30:54
1	Y RADIAL	4266.1	4266.1	96.91	%			01:30:34
1	Al 396.153Radial†	-122.4	30.8	30.713	ug/L	30.713	ppb	01:30:34
1	Ca 317.933Radial†	30.4	13.6	25.287	ug/L	25.287	ppb	01:30:54
1	Fe 238.204 Radial†	11.0	1.4	15.352	ug/L	15.352	ppb	01:30:54
1	K 766.490 Radial†	2995.2	-33.7	-6.7830	ug/L	-6.7830	ppb	01:30:34
1	Mg 279.077 IEC†	0.2	-2.6	-98.819	ug/L	-98.819	ppb	01:30:54
1	Na 589.592 Radial†	-15.3	-223.1	-74.425	ug/L	-74.425	ppb	01:30:34
1	Sr 421.552†	81.2	-4.8	-0.0371	ug/L	-0.0371	ppb	01:30:34
1	Sc 361.383	821359.7	821359.7	96.630	%			01:31:51
1	Y 371.029	663885.8	663885.8	94.473	%			01:31:51
1	Ag 328.068†	249.6	30.6	0.1417	ug/L	0.1417	ppb	01:31:51
1	As 188.979†	-29.2	-1.9	-0.7807	ug/L	-0.7807	ppb	01:32:11
1	B 249.677†	-379.9	88.7	2.0847	ug/L	2.0847	ppb	01:32:11
1	Ba 233.527†	13.6	-4.8	-0.0391	ug/L	-0.0391	ppb	01:32:11
1	Be 313.107†	-4018.0	181.0	0.0667	ug/L	0.0667	ppb	01:31:51
1	Cd 226.502†	-194.5	-5.8	-0.0674	ug/L	-0.0674	ppb	01:32:11
1	Co 228.616†	-66.1	10.5	0.2209	ug/L	0.2209	ppb	01:32:11
1	Cr 267.716†	110.9	-34.9	-0.4104	ug/L	-0.4104	ppb	01:32:11
1	Cu 324.752†	8169.4	360.3	1.0980	ug/L	1.0980	ppb	01:31:51
1	Mn 257.610†	784.6	242.2	0.2849	ug/L	0.2849	ppb	01:32:11
1	Mo 202.031†	25.0	15.4	1.1433	ug/L	1.1433	ppb	01:32:11
1	Ni 231.604†	110.4	0.7	0.0179	ug/L	0.0179	ppb	01:32:11
1	P 214.914†	243.2	9.7	5.1603	ug/L	5.1603	ppb	01:32:11
1	Pb 220.353†	-69.2	1.9	0.2418	ug/L	0.2418	ppb	01:32:11
1	S 181.975 Axial†	53.7	12.7	16.589	ug/L	16.589	ppb	01:32:11
1	Sb 206.836†	49.7	15.8	5.3716	ug/L	5.3716	ppb	01:32:11
1	Se 196.026†	-12.6	10.3	6.0791	ug/L	6.0791	ppb	01:32:11
1	Si 251.611†	645.9	56.1	1.7338	ug/L	1.7338	ppb	01:32:11
1	Sn 189.927†	14.4	2.3	0.4161	ug/L	0.4161	ppb	01:32:11
1	Ti 334.940†	-1373.6	71.4	0.1230	ug/L	0.1230	ppb	01:31:51
1	Tl 190.801†	-31.1	6.9	2.1859	ug/L	2.1859	ppb	01:32:11
1	U 409.014†	-3040.1	369.1	10.483	ug/L	10.483	ppb	01:31:51
1	V 292.402†	-1674.4	-55.5	-0.3700	ug/L	-0.3700	ppb	01:31:51
1	Zn 213.857†	750.0	88.4	0.8593	ug/L	0.8593	ppb	01:32:11
1	SiO2†	683.7	88.1	5.8398	ug/L	5.8398	ppb	01:33:07
2	Sc Radial	4071.2	4071.2	95.8	%			01:31:19
2	Y RADIAL	4191.4	4191.4	95.21	%			01:30:59
2	Al 396.153Radial†	-122.6	31.0	30.971	ug/L	30.971	ppb	01:30:59
2	Ca 317.933Radial†	30.5	13.5	25.224	ug/L	25.224	ppb	01:31:19
2	Fe 238.204 Radial†	10.7	1.1	11.981	ug/L	11.981	ppb	01:31:19
2	K 766.490 Radial†	3084.0	48.6	9.8107	ug/L	9.8107	ppb	01:30:59
2	Mg 279.077 IEC†	2.1	-0.5	-19.858	ug/L	-19.858	ppb	01:31:19
2	Na 589.592 Radial†	57.4	-147.1	-49.072	ug/L	-49.072	ppb	01:30:59
2	Sr 421.552†	46.8	-41.0	-0.3167	ug/L	-0.3167	ppb	01:30:59
2	Sc 361.383	815276.1	815276.1	95.914	%			01:32:16
2	Y 371.029	658947.7	658947.7	93.770	%			01:32:16
2	Ag 328.068†	273.8	57.8	0.2769	ug/L	0.2769	ppb	01:32:16
2	As 188.979†	-29.9	-2.9	-1.2063	ug/L	-1.2063	ppb	01:32:36
2	B 249.677†	-355.6	111.2	2.6135	ug/L	2.6135	ppb	01:32:36
2	Ba 233.527†	14.3	-4.0	-0.0338	ug/L	-0.0338	ppb	01:32:36
2	Be 313.107†	-4088.8	76.1	0.0280	ug/L	0.0280	ppb	01:32:16
2	Cd 226.502†	-226.5	-40.6	-0.4761	ug/L	-0.4761	ppb	01:32:36
2	Co 228.616†	-70.2	5.6	0.1198	ug/L	0.1198	ppb	01:32:36
2	Cr 267.716†	81.3	-64.9	-0.7568	ug/L	-0.7568	ppb	01:32:36
2	Cu 324.752†	8091.7	342.3	1.0482	ug/L	1.0482	ppb	01:32:16
2	Mn 257.610†	795.5	259.7	0.3015	ug/L	0.3015	ppb	01:32:36
2	Mo 202.031†	22.2	12.7	0.9429	ug/L	0.9429	ppb	01:32:36
2	Ni 231.604†	101.1	-8.1	-0.2085	ug/L	-0.2085	ppb	01:32:36

2	P 214.914†	249.3	17.9	9.7440	ug/L	9.7440 ppb	01:32:36
2	Pb 220.353†	-72.8	-2.3	-0.2812	ug/L	-0.2812 ppb	01:32:36
2	S 181.975 Axial†	54.3	13.7	17.933	ug/L	17.933 ppb	01:32:36
2	Sb 206.836†	43.8	10.0	3.4314	ug/L	3.4314 ppb	01:32:36
2	Se 196.026†	-34.2	-12.3	-7.1586	ug/L	-7.1586 ppb	01:32:36
2	Si 251.611†	649.5	64.8	2.0092	ug/L	2.0092 ppb	01:32:36
2	Sn 189.927†	24.0	12.4	2.2364	ug/L	2.2364 ppb	01:32:36
2	Ti 334.940†	-1410.0	22.8	0.0419	ug/L	0.0419 ppb	01:32:16
2	Tl 190.801†	-40.4	-3.1	-0.9620	ug/L	-0.9620 ppb	01:32:36
2	U 409.014†	-3340.9	31.9	0.9076	ug/L	0.9076 ppb	01:32:16
2	V 292.402†	-1727.1	-123.3	-0.8802	ug/L	-0.8802 ppb	01:32:16
2	Zn 213.857†	756.2	100.7	0.9805	ug/L	0.9805 ppb	01:32:36
2	SiO2†	655.7	64.1	4.2468	ug/L	4.2468 ppb	01:33:12
3	Sc Radial	4042.1	4042.1	95.1	%		01:31:44
3	Y RADIAL	4261.9	4261.9	96.81	%		01:31:24
3	Al 396.153Radial†	-137.3	14.6	14.567	ug/L	14.567 ppb	01:31:24
3	Ca 317.933Radial†	26.9	10.0	18.564	ug/L	18.564 ppb	01:31:44
3	Fe 238.204 Radial†	11.2	1.7	18.277	ug/L	18.277 ppb	01:31:44
3	K 766.490 Radial†	3031.5	16.5	3.3555	ug/L	3.3555 ppb	01:31:24
3	Mg 279.077 IEC†	6.9	4.6	175.90	ug/L	175.90 ppb	01:31:44
3	Na 589.592 Radial†	19.9	-186.1	-62.080	ug/L	-62.080 ppb	01:31:24
3	Sr 421.552†	76.4	-9.4	-0.0729	ug/L	-0.0729 ppb	01:31:24
3	Sc 361.383	823297.1	823297.1	96.857	%		01:32:41
3	Y 371.029	663829.7	663829.7	94.465	%		01:32:41
3	Ag 328.068†	263.5	44.4	0.2154	ug/L	0.2154 ppb	01:32:41
3	As 188.979†	-25.1	2.4	1.0223	ug/L	1.0223 ppb	01:33:01
3	B 249.677†	-325.7	145.6	3.4230	ug/L	3.4230 ppb	01:33:01
3	Ba 233.527†	38.1	20.5	0.1675	ug/L	0.1675 ppb	01:33:01
3	Be 313.107†	-4094.5	111.8	0.0414	ug/L	0.0414 ppb	01:32:41
3	Cd 226.502†	-228.9	-40.8	-0.4782	ug/L	-0.4782 ppb	01:33:01
3	Co 228.616†	-73.7	2.8	0.0627	ug/L	0.0627 ppb	01:33:01
3	Cr 267.716†	105.5	-40.7	-0.4753	ug/L	-0.4753 ppb	01:33:01
3	Cu 324.752†	8161.9	332.6	1.0168	ug/L	1.0168 ppb	01:32:41
3	Mn 257.610†	788.2	244.0	0.2761	ug/L	0.2761 ppb	01:33:01
3	Mo 202.031†	33.1	23.7	1.7663	ug/L	1.7663 ppb	01:33:01
3	Ni 231.604†	98.9	-11.4	-0.2929	ug/L	-0.2929 ppb	01:33:01
3	P 214.914†	235.7	1.4	0.5456	ug/L	0.5456 ppb	01:33:01
3	Pb 220.353†	-56.0	15.8	1.9582	ug/L	1.9582 ppb	01:33:01
3	S 181.975 Axial†	53.8	12.7	16.537	ug/L	16.537 ppb	01:33:01
3	Sb 206.836†	42.9	8.6	2.9671	ug/L	2.9671 ppb	01:33:01
3	Se 196.026†	-18.6	4.1	2.4508	ug/L	2.4508 ppb	01:33:01
3	Si 251.611†	653.0	61.9	1.9070	ug/L	1.9070 ppb	01:33:01
3	Sn 189.927†	15.4	3.3	0.5944	ug/L	0.5944 ppb	01:33:01
3	Ti 334.940†	-1356.0	92.9	0.1372	ug/L	0.1372 ppb	01:32:41
3	Tl 190.801†	-44.0	-6.3	-1.9976	ug/L	-1.9976 ppb	01:33:01
3	U 409.014†	-3243.3	166.6	4.7330	ug/L	4.7330 ppb	01:32:41
3	V 292.402†	-1620.1	4.6	0.0680	ug/L	0.0680 ppb	01:32:41
3	Zn 213.857†	776.0	113.4	1.1043	ug/L	1.1043 ppb	01:33:01
3	SiO2†	693.8	96.8	6.4063	ug/L	6.4063 ppb	01:33:17

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	819977.6	96.467	%	0.4924				0.51%
Sc Radial	4056.9	95.4	%	0.34				0.36%
Y 371.029	662221.1	94.236	%	0.4034				0.43%
Y RADIAL	4239.8	96.31	%	0.954				0.99%
Ag 328.068†	44.3	0.2113	ug/L	0.06767	0.2113	ppb	0.06767	32.02%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	25.5	25.417	ug/L	9.3972	25.417	ppb	9.3972	36.97%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.8	-0.3216	ug/L	1.18308	-0.3216	ppb	1.18308	367.91%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	115.2	2.7071	ug/L	0.67405	2.7071	ppb	0.67405	24.90%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	3.9	0.0315	ug/L	0.11774	0.0315	ppb	0.11774	373.35%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	122.9	0.0454	ug/L	0.01965	0.0454	ppb	0.01965	43.30%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	12.3	23.025	ug/L	3.8637	23.025	ppb	3.8637	16.78%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -29.1     -0.3406 ug/L       0.23658     -0.3406 ppb        0.23658  69.47%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                6.3      0.1345 ug/L       0.08015      0.1345 ppb        0.08015  59.61%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -46.9     -0.5475 ug/L       0.18412     -0.5475 ppb        0.18412  33.63%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              345.1      1.0543 ug/L       0.04098      1.0543 ppb        0.04098   3.89%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.4     15.203 ug/L        3.1507     15.203 ppb         3.1507  20.72%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         10.5      2.1277 ug/L       8.36468      2.1277 ppb        8.36468 393.13%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            0.5     19.075 ug/L      141.4385     19.075 ppb       141.4385 741.48%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              248.6      0.2875 ug/L       0.01289      0.2875 ppb        0.01289   4.49%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               17.3      1.2842 ug/L       0.42936      1.2842 ppb        0.42936  33.43%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      -185.5     -61.859 ug/L      12.6778     -61.859 ppb       12.6778  20.49%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -6.3     -0.1612 ug/L       0.16068     -0.1612 ppb        0.16068  99.70%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 9.7      5.1500 ug/L       4.59923      5.1500 ppb        4.59923  89.31%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                5.1      0.6396 ug/L       1.17151      0.6396 ppb        1.17151 183.15%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          13.0     17.020 ug/L        0.7911     17.020 ppb         0.7911   4.65%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               11.5      3.9234 ug/L       1.27552      3.9234 ppb        1.27552  32.51%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.7      0.4571 ug/L       6.84033      0.4571 ppb        6.84033 >999.9%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               60.9      1.8833 ug/L       0.13925      1.8833 ppb        0.13925   7.39%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                6.0      1.0823 ug/L       1.00345      1.0823 ppb        1.00345  92.71%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -18.4     -0.1422 ug/L       0.15218     -0.1422 ppb        0.15218 106.99%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               62.4      0.1007 ug/L       0.05141      0.1007 ppb        0.05141  51.04%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -0.8     -0.2579 ug/L       2.17885     -0.2579 ppb        2.17885 844.87%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               189.2      5.3746 ug/L       4.81984      5.3746 ppb        4.81984  89.68%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -58.1     -0.3941 ug/L       0.47454     -0.3941 ppb        0.47454 120.41%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              100.8      0.9814 ug/L       0.12248      0.9814 ppb        0.12248  12.48%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     83.0      5.4976 ug/L       1.11968      5.4976 ppb        1.11968  20.37%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 84
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/17/2010 02:18:19
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4209.1	4209.1	99.0	%			02:20:12
1	Y RADIAL	4271.3	4271.3	97.03	%			02:20:12
1	Al 396.153Radial†	4942.0	5150.1	5127.5	ug/L	5127.5	ppb	02:20:12
1	Ca 317.933Radial†	2699.3	2707.8	5051.0	ug/L	5051.0	ppb	02:20:32
1	Fe 238.204 Radial†	504.7	499.6	5325.3	ug/L	5325.3	ppb	02:20:32
1	K 766.490 Radial†	27702.3	24805.7	5001.0	ug/L	5001.0	ppb	02:20:12
1	Mg 279.077 IEC†	136.6	135.3	5223.9	ug/L	5223.9	ppb	02:20:32
1	Na 589.592 Radial†	29781.0	29869.6	9963.3	ug/L	9963.3	ppb	02:20:12
1	Sr 421.552†	64847.0	65401.0	504.94	ug/L	504.94	ppb	02:20:12
1	Sc 361.383	823589.6	823589.6	96.892	%			02:21:29
1	Y 371.029	656355.7	656355.7	93.401	%			02:21:29
1	Ag 328.068†	102350.7	105406.2	509.45	ug/L	509.45	ppb	02:21:34
1	As 188.979†	1154.6	1220.0	517.83	ug/L	517.83	ppb	02:21:54
1	B 249.677†	20734.7	21881.7	512.46	ug/L	512.46	ppb	02:21:34
1	Ba 233.527†	61527.9	63482.7	516.72	ug/L	516.72	ppb	02:21:34
1	Be 313.107†	1352245.2	1399961.8	515.39	ug/L	515.39	ppb	02:21:29
1	Cd 226.502†	41367.4	42889.9	501.44	ug/L	501.44	ppb	02:21:34
1	Co 228.616†	23941.9	24788.8	516.98	ug/L	516.98	ppb	02:21:34
1	Cr 267.716†	41737.1	42926.2	500.02	ug/L	500.02	ppb	02:21:34
1	Cu 324.752†	172385.9	169821.6	519.95	ug/L	519.95	ppb	02:21:34
1	Mn 257.610†	439602.5	453134.4	522.95	ug/L	522.95	ppb	02:21:29
1	Mo 202.031†	6621.6	6823.5	507.50	ug/L	507.50	ppb	02:21:54
1	Ni 231.604†	19256.5	19760.7	505.84	ug/L	505.84	ppb	02:21:34
1	P 214.914†	4686.1	4594.4	2447.8	ug/L	2447.8	ppb	02:21:54
1	Pb 220.353†	3864.0	4061.5	504.77	ug/L	504.77	ppb	02:21:54
1	S 181.975 Axial†	811.5	794.6	1037.6	ug/L	1037.6	ppb	02:21:54
1	Sb 206.836†	1483.4	1495.3	524.26	ug/L	524.26	ppb	02:21:54
1	Se 196.026†	830.0	880.0	532.18	ug/L	532.18	ppb	02:21:54
1	Si 251.611†	81433.7	83433.6	2593.8	ug/L	2593.8	ppb	02:21:34
1	Sn 189.927†	2744.7	2820.2	506.54	ug/L	506.54	ppb	02:21:54
1	Ti 334.940†	307158.8	318504.8	517.53	ug/L	517.53	ppb	02:21:34
1	Tl 190.801†	1565.4	1654.8	525.86	ug/L	525.86	ppb	02:21:54
1	U 409.014†	13418.8	17364.4	491.55	ug/L	491.55	ppb	02:21:34
1	V 292.402†	65231.7	69001.6	506.47	ug/L	506.47	ppb	02:21:34
1	Zn 213.857†	51754.1	52726.6	509.88	ug/L	509.88	ppb	02:21:34
1	SiO2†	81108.1	83090.3	5526.1	ug/L	5526.1	ppb	02:23:02
2	Sc Radial	4145.3	4145.3	97.5	%			02:20:37
2	Y RADIAL	4198.1	4198.1	95.36	%			02:20:37
2	Al 396.153Radial†	4841.8	5124.2	5101.8	ug/L	5101.8	ppb	02:20:37
2	Ca 317.933Radial†	2686.7	2736.8	5105.3	ug/L	5105.3	ppb	02:20:57
2	Fe 238.204 Radial†	498.8	501.5	5344.7	ug/L	5344.7	ppb	02:20:57
2	K 766.490 Radial†	27523.8	25053.6	5051.1	ug/L	5051.1	ppb	02:20:37
2	Mg 279.077 IEC†	136.3	137.1	5293.3	ug/L	5293.3	ppb	02:20:57
2	Na 589.592 Radial†	29398.2	29940.3	9986.9	ug/L	9986.9	ppb	02:20:37
2	Sr 421.552†	63858.4	65395.9	504.90	ug/L	504.90	ppb	02:20:37
2	Sc 361.383	830303.8	830303.8	97.682	%			02:22:00
2	Y 371.029	660417.4	660417.4	93.979	%			02:22:00
2	Ag 328.068†	102730.0	104940.4	507.21	ug/L	507.21	ppb	02:22:05
2	As 188.979†	1159.0	1214.8	515.66	ug/L	515.66	ppb	02:22:25
2	B 249.677†	20839.8	21816.3	510.92	ug/L	510.92	ppb	02:22:05
2	Ba 233.527†	61576.0	63018.5	512.95	ug/L	512.95	ppb	02:22:05
2	Be 313.107†	1366388.9	1403155.5	516.56	ug/L	516.56	ppb	02:22:00
2	Cd 226.502†	41440.9	42619.9	498.27	ug/L	498.27	ppb	02:22:05
2	Co 228.616†	24069.6	24719.7	515.54	ug/L	515.54	ppb	02:22:05
2	Cr 267.716†	41878.0	42722.2	497.64	ug/L	497.64	ppb	02:22:05
2	Cu 324.752†	172970.1	168981.0	517.38	ug/L	517.38	ppb	02:22:05
2	Mn 257.610†	443352.1	453304.1	523.14	ug/L	523.14	ppb	02:22:00
2	Mo 202.031†	6630.7	6777.6	504.09	ug/L	504.09	ppb	02:22:25
2	Ni 231.604†	19322.9	19668.0	503.47	ug/L	503.47	ppb	02:22:05

2	P 214.914†	4679.7	4548.8	2422.9 ug/L	2422.9 ppb	02:22:25
2	Pb 220.353†	3850.6	4015.6	499.07 ug/L	499.07 ppb	02:22:25
2	S 181.975 Axial†	813.5	789.9	1031.4 ug/L	1031.4 ppb	02:22:25
2	Sb 206.836†	1473.7	1473.0	516.59 ug/L	516.59 ppb	02:22:25
2	Se 196.026†	835.4	878.5	531.40 ug/L	531.40 ppb	02:22:25
2	Si 251.611†	81654.4	82979.9	2579.7 ug/L	2579.7 ppb	02:22:05
2	Sn 189.927†	2746.6	2799.2	502.79 ug/L	502.79 ppb	02:22:25
2	Ti 334.940†	308061.5	316865.4	514.87 ug/L	514.87 ppb	02:22:05
2	Tl 190.801†	1555.4	1631.4	518.48 ug/L	518.48 ppb	02:22:25
2	U 409.014†	13400.7	17233.9	487.84 ug/L	487.84 ppb	02:22:05
2	V 292.402†	65430.1	68660.2	503.94 ug/L	503.94 ppb	02:22:05
2	Zn 213.857†	51943.1	52488.1	507.57 ug/L	507.57 ppb	02:22:05
2	SiO2†	81106.8	82412.2	5481.0 ug/L	5481.0 ppb	02:23:07
3	Sc Radial	4098.0	4098.0	96.4 %		02:21:02
3	Y RADIAL	4191.5	4191.5	95.21 %		02:21:02
3	Al 396.153Radial†	4786.2	5123.8	5101.4 ug/L	5101.4 ppb	02:21:02
3	Ca 317.933Radial†	2724.1	2807.4	5236.8 ug/L	5236.8 ppb	02:21:22
3	Fe 238.204 Radial†	507.7	516.6	5505.3 ug/L	5505.3 ppb	02:21:22
3	K 766.490 Radial†	27251.7	25096.6	5059.7 ug/L	5059.7 ppb	02:21:02
3	Mg 279.077 IEC†	135.9	138.2	5338.3 ug/L	5338.3 ppb	02:21:22
3	Na 589.592 Radial†	28872.9	29742.7	9921.0 ug/L	9921.0 ppb	02:21:02
3	Sr 421.552†	63250.3	65519.6	505.86 ug/L	505.86 ppb	02:21:02
3	Sc 361.383	834062.9	834062.9	98.124 %		02:22:31
3	Y 371.029	664806.2	664806.2	94.604 %		02:22:31
3	Ag 328.068†	102288.7	104016.6	502.81 ug/L	502.81 ppb	02:22:36
3	As 188.979†	1148.2	1198.5	508.77 ug/L	508.77 ppb	02:22:57
3	B 249.677†	20693.5	21571.1	505.14 ug/L	505.14 ppb	02:22:36
3	Ba 233.527†	61328.5	62482.2	508.59 ug/L	508.59 ppb	02:22:36
3	Be 313.107†	1374092.1	1404701.6	517.11 ug/L	517.11 ppb	02:22:31
3	Cd 226.502†	41216.3	42199.8	493.34 ug/L	493.34 ppb	02:22:36
3	Co 228.616†	23905.3	24441.2	509.74 ug/L	509.74 ppb	02:22:36
3	Cr 267.716†	41656.8	42303.5	492.77 ug/L	492.77 ppb	02:22:36
3	Cu 324.752†	172200.5	167398.6	512.54 ug/L	512.54 ppb	02:22:36
3	Mn 257.610†	443865.8	451782.1	521.40 ug/L	521.40 ppb	02:22:31
3	Mo 202.031†	6648.1	6764.8	503.15 ug/L	503.15 ppb	02:22:57
3	Ni 231.604†	19270.7	19525.6	499.82 ug/L	499.82 ppb	02:22:36
3	P 214.914†	4670.1	4517.4	2406.3 ug/L	2406.3 ppb	02:22:57
3	Pb 220.353†	3867.1	4014.6	498.94 ug/L	498.94 ppb	02:22:57
3	S 181.975 Axial†	810.8	783.4	1023.0 ug/L	1023.0 ppb	02:22:57
3	Sb 206.836†	1484.1	1476.8	517.79 ug/L	517.79 ppb	02:22:57
3	Se 196.026†	832.1	871.4	527.72 ug/L	527.72 ppb	02:22:57
3	Si 251.611†	81318.6	82260.9	2557.3 ug/L	2557.3 ppb	02:22:36
3	Sn 189.927†	2738.0	2777.8	498.97 ug/L	498.97 ppb	02:22:57
3	Ti 334.940†	306394.9	313745.5	509.81 ug/L	509.81 ppb	02:22:36
3	Tl 190.801†	1563.3	1632.3	518.74 ug/L	518.74 ppb	02:22:57
3	U 409.014†	13573.1	17347.8	491.07 ug/L	491.07 ppb	02:22:36
3	V 292.402†	65117.2	68039.5	499.42 ug/L	499.42 ppb	02:22:36
3	Zn 213.857†	51661.7	51961.6	502.44 ug/L	502.44 ppb	02:22:36
3	SiO2†	81640.3	82581.6	5492.3 ug/L	5492.3 ppb	02:23:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	829318.8	97.566	%	0.6242				0.64%
Sc Radial	4150.8	97.6	%	1.31				1.34%
Y 371.029	660526.4	93.995	%	0.6014				0.64%
Y RADIAL	4220.3	95.87	%	1.006				1.05%
Ag 328.068†	104787.7	506.49	ug/L	3.379	506.49	ppb	3.379	0.67%
QC value within limits for Ag 328.068 Recovery = 101.30%								
Al 396.153Radial†	5132.7	5110.2	ug/L	14.98	5110.2	ppb	14.98	0.29%
QC value within limits for Al 396.153Radial Recovery = 102.20%								
As 188.979†	1211.1	514.09	ug/L	4.732	514.09	ppb	4.732	0.92%
QC value within limits for As 188.979 Recovery = 102.82%								
B 249.677†	21756.4	509.50	ug/L	3.858	509.50	ppb	3.858	0.76%
QC value within limits for B 249.677 Recovery = 101.90%								
Ba 233.527†	62994.5	512.75	ug/L	4.071	512.75	ppb	4.071	0.79%
QC value within limits for Ba 233.527 Recovery = 102.55%								
Be 313.107†	1402606.3	516.35	ug/L	0.880	516.35	ppb	0.880	0.17%
QC value within limits for Be 313.107 Recovery = 103.27%								
Ca 317.933Radial†	2750.7	5131.0	ug/L	95.53	5131.0	ppb	95.53	1.86%

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   QC value within limits for Ca 317.933Radial  Recovery = 102.62%
Cd 226.502†            42569.9      497.68 ug/L        4.078      497.68 ppb          4.078   0.82%
   QC value within limits for Cd 226.502  Recovery = 99.54%
Co 228.616†            24649.9      514.09 ug/L        3.836      514.09 ppb          3.836   0.75%
   QC value within limits for Co 228.616  Recovery = 102.82%
Cr 267.716†            42650.6      496.81 ug/L        3.696      496.81 ppb          3.696   0.74%
   QC value within limits for Cr 267.716  Recovery = 99.36%
Cu 324.752†           168733.7      516.63 ug/L        3.762      516.63 ppb          3.762   0.73%
   QC value within limits for Cu 324.752  Recovery = 103.33%
Fe 238.204 Radial†       505.9      5391.8 ug/L       98.77     5391.8 ppb         98.77   1.83%
   QC value within limits for Fe 238.204 Radial  Recovery = 107.84%
K 766.490 Radial†      24985.3      5037.3 ug/L       31.67     5037.3 ppb         31.67   0.63%
   QC value within limits for K 766.490 Radial  Recovery = 100.75%
Mg 279.077 IEC†          136.9      5285.2 ug/L       57.63     5285.2 ppb         57.63   1.09%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.70%
Mn 257.610†           452740.2      522.50 ug/L        0.954      522.50 ppb          0.954   0.18%
   QC value within limits for Mn 257.610  Recovery = 104.50%
Mo 202.031†             6788.6      504.91 ug/L        2.288      504.91 ppb          2.288   0.45%
   QC value within limits for Mo 202.031  Recovery = 100.98%
Na 589.592 Radial†     29850.9      9957.1 ug/L       33.40     9957.1 ppb         33.40   0.34%
   QC value within limits for Na 589.592 Radial  Recovery = 99.57%
Ni 231.604†            19651.4      503.04 ug/L        3.031      503.04 ppb          3.031   0.60%
   QC value within limits for Ni 231.604  Recovery = 100.61%
P 214.914†              4553.5      2425.6 ug/L       20.88     2425.6 ppb         20.88   0.86%
   QC value within limits for P 214.914  Recovery = 97.03%
Pb 220.353†             4030.6      500.93 ug/L        3.328      500.93 ppb          3.328   0.66%
   QC value within limits for Pb 220.353  Recovery = 100.19%
S 181.975 Axial†         789.3      1030.7 ug/L        7.35     1030.7 ppb          7.35   0.71%
   QC value within limits for S 181.975 Axial  Recovery = 103.07%
Sb 206.836†             1481.7      519.55 ug/L        4.126      519.55 ppb          4.126   0.79%
   QC value within limits for Sb 206.836  Recovery = 103.91%
Se 196.026†              876.6      530.43 ug/L        2.379      530.43 ppb          2.379   0.45%
   QC value within limits for Se 196.026  Recovery = 106.09%
Si 251.611†            82891.5      2576.9 ug/L       18.40     2576.9 ppb         18.40   0.71%
   QC value within limits for Si 251.611  Recovery = 103.08%
Sn 189.927†             2799.0      502.77 ug/L        3.788      502.77 ppb          3.788   0.75%
   QC value within limits for Sn 189.927  Recovery = 100.55%
Sr 421.552†            65438.8      505.23 ug/L        0.540      505.23 ppb          0.540   0.11%
   QC value within limits for Sr 421.552  Recovery = 101.05%
Ti 334.940†           316371.9      514.07 ug/L        3.920      514.07 ppb          3.920   0.76%
   QC value within limits for Ti 334.940  Recovery = 102.81%
Tl 190.801†             1639.5      521.02 ug/L        4.187      521.02 ppb          4.187   0.80%
   QC value within limits for Tl 190.801  Recovery = 104.20%
U 409.014†             17315.4      490.16 ug/L        2.016      490.16 ppb          2.016   0.41%
   QC value within limits for U 409.014  Recovery = 98.03%
V 292.402†             68567.1      503.28 ug/L        3.569      503.28 ppb          3.569   0.71%
   QC value within limits for V 292.402  Recovery = 100.66%
Zn 213.857†            52392.1      506.63 ug/L        3.810      506.63 ppb          3.810   0.75%
   QC value within limits for Zn 213.857  Recovery = 101.33%
SiO2†                  82694.7      5499.8 ug/L       23.48     5499.8 ppb         23.48   0.43%
   QC value within limits for SiO2  Recovery = 102.85%
All analyte(s) passed QC.
```

Sequence No.: 85
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/17/2010 02:25:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4048.7	4048.7	95.2	%			02:27:35
1	Y RADIAL	4198.9	4198.9	95.38	%			02:27:15
1	Al 396.153Radial†	-143.8	8.0	7.9666	ug/L	7.9666	ppb	02:27:15
1	Ca 317.933Radial†	36.2	19.7	36.732	ug/L	36.732	ppb	02:27:35
1	Fe 238.204 Radial†	19.7	10.6	112.65	ug/L	112.65	ppb	02:27:35
1	K 766.490 Radial†	3129.9	114.6	22.918	ug/L	22.918	ppb	02:27:15
1	Mg 279.077 IEC†	-1.9	-4.8	-183.78	ug/L	-183.78	ppb	02:27:35
1	Na 589.592 Radial†	1657.1	1532.8	511.28	ug/L	511.28	ppb	02:27:15
1	Sr 421.552†	109.3	25.0	0.1926	ug/L	0.1926	ppb	02:27:15
1	Sc 361.383	826600.4	826600.4	97.246	%			02:28:32
1	Y 371.029	669344.2	669344.2	95.249	%			02:28:32
1	Ag 328.068†	305.6	86.6	0.4524	ug/L	0.4524	ppb	02:28:32
1	As 188.979†	-30.2	-2.7	-1.1158	ug/L	-1.1158	ppb	02:28:52
1	B 249.677†	-405.9	64.6	1.4997	ug/L	1.4997	ppb	02:28:52
1	Ba 233.527†	61.4	44.3	0.3613	ug/L	0.3613	ppb	02:28:52
1	Be 313.107†	-4123.6	98.8	0.0372	ug/L	0.0372	ppb	02:28:32
1	Cd 226.502†	-216.6	-27.2	-0.3303	ug/L	-0.3303	ppb	02:28:52
1	Co 228.616†	-62.6	14.5	0.3031	ug/L	0.3031	ppb	02:28:52
1	Cr 267.716†	139.4	-6.3	-0.0710	ug/L	-0.0710	ppb	02:28:52
1	Cu 324.752†	8389.8	533.2	1.6404	ug/L	1.6404	ppb	02:28:32
1	Mn 257.610†	1711.7	1190.4	1.3916	ug/L	1.3916	ppb	02:28:52
1	Mo 202.031†	21.6	11.8	0.8844	ug/L	0.8844	ppb	02:28:52
1	Ni 231.604†	106.4	-4.1	-0.1050	ug/L	-0.1050	ppb	02:28:52
1	P 214.914†	234.1	-1.3	-1.1071	ug/L	-1.1071	ppb	02:28:52
1	Pb 220.353†	-78.3	-6.9	-0.8675	ug/L	-0.8675	ppb	02:28:52
1	S 181.975 Axial†	56.4	15.1	19.753	ug/L	19.753	ppb	02:28:52
1	Sb 206.836†	35.9	1.3	0.4720	ug/L	0.4720	ppb	02:28:52
1	Se 196.026†	-27.3	-4.7	-2.3874	ug/L	-2.3874	ppb	02:28:52
1	Si 251.611†	691.5	98.8	3.0677	ug/L	3.0677	ppb	02:28:52
1	Sn 189.927†	20.6	8.5	1.5382	ug/L	1.5382	ppb	02:28:52
1	Ti 334.940†	-1214.1	244.4	0.4187	ug/L	0.4187	ppb	02:28:32
1	Tl 190.801†	-30.6	7.6	2.4212	ug/L	2.4212	ppb	02:28:52
1	U 409.014†	-3532.8	-117.6	-3.3547	ug/L	-3.3547	ppb	02:28:32
1	V 292.402†	-1747.6	-119.8	-0.8823	ug/L	-0.8823	ppb	02:28:32
1	Zn 213.857†	797.2	132.1	1.2706	ug/L	1.2706	ppb	02:28:52
1	SiO2†	742.9	144.4	9.6040	ug/L	9.6040	ppb	02:29:48
2	Sc Radial	4067.2	4067.2	95.7	%			02:28:00
2	Y RADIAL	4193.0	4193.0	95.25	%			02:27:40
2	Al 396.153Radial†	-131.3	21.8	21.726	ug/L	21.726	ppb	02:27:40
2	Ca 317.933Radial†	33.0	16.1	30.107	ug/L	30.107	ppb	02:28:00
2	Fe 238.204 Radial†	18.5	9.3	98.894	ug/L	98.894	ppb	02:28:00
2	K 766.490 Radial†	3181.1	153.1	30.939	ug/L	30.939	ppb	02:27:40
2	Mg 279.077 IEC†	4.8	2.3	89.104	ug/L	89.104	ppb	02:28:00
2	Na 589.592 Radial†	-63.7	-273.7	-91.285	ug/L	-91.285	ppb	02:27:40
2	Sr 421.552†	116.2	31.7	0.2442	ug/L	0.2442	ppb	02:27:40
2	Sc 361.383	824221.6	824221.6	96.966	%			02:28:57
2	Y 371.029	666667.3	666667.3	94.868	%			02:28:57
2	Ag 328.068†	231.1	10.7	0.0789	ug/L	0.0789	ppb	02:28:57
2	As 188.979†	-32.8	-5.6	-2.3157	ug/L	-2.3157	ppb	02:29:17
2	B 249.677†	-424.1	44.6	1.0317	ug/L	1.0317	ppb	02:29:17
2	Ba 233.527†	60.9	43.9	0.3593	ug/L	0.3593	ppb	02:29:17
2	Be 313.107†	-4301.1	-96.5	-0.0351	ug/L	-0.0351	ppb	02:28:57
2	Cd 226.502†	-208.4	-19.4	-0.2366	ug/L	-0.2366	ppb	02:29:17
2	Co 228.616†	-61.7	15.2	0.3178	ug/L	0.3178	ppb	02:29:17
2	Cr 267.716†	146.3	1.2	0.0131	ug/L	0.0131	ppb	02:29:17
2	Cu 324.752†	8373.1	540.9	1.6584	ug/L	1.6584	ppb	02:28:57
2	Mn 257.610†	1434.5	909.7	1.0553	ug/L	1.0553	ppb	02:29:17
2	Mo 202.031†	20.9	11.0	0.8288	ug/L	0.8288	ppb	02:29:17
2	Ni 231.604†	98.9	-11.5	-0.2957	ug/L	-0.2957	ppb	02:29:17

2	P 214.914†	235.2	0.6	-0.0461	ug/L	-0.0461 ppb	02:29:17
2	Pb 220.353†	-76.8	-5.7	-0.7036	ug/L	-0.7036 ppb	02:29:17
2	S 181.975 Axial†	53.9	12.6	16.521	ug/L	16.521 ppb	02:29:17
2	Sb 206.836†	36.9	2.3	0.8261	ug/L	0.8261 ppb	02:29:17
2	Se 196.026†	-21.5	1.1	0.9891	ug/L	0.9891 ppb	02:29:17
2	Si 251.611†	737.2	148.0	4.6005	ug/L	4.6005 ppb	02:29:17
2	Sn 189.927†	19.8	7.8	1.4109	ug/L	1.4109 ppb	02:29:17
2	Ti 334.940†	-1366.0	84.1	0.1310	ug/L	0.1310 ppb	02:28:57
2	Tl 190.801†	-33.9	4.2	1.3283	ug/L	1.3283 ppb	02:29:17
2	U 409.014†	-3219.4	195.0	5.5280	ug/L	5.5280 ppb	02:28:57
2	V 292.402†	-1655.6	-30.1	-0.2084	ug/L	-0.2084 ppb	02:28:57
2	Zn 213.857†	791.6	128.6	1.2399	ug/L	1.2399 ppb	02:29:17
2	SiO2†	677.6	79.3	5.2640	ug/L	5.2640 ppb	02:29:53
3	Sc Radial	4092.6	4092.6	96.3	%		02:28:25
3	Y RADIAL	4295.9	4295.9	97.59	%		02:28:05
3	Al 396.153Radial†	-127.2	26.9	26.893	ug/L	26.893 ppb	02:28:05
3	Ca 317.933Radial†	37.1	20.2	37.719	ug/L	37.719 ppb	02:28:25
3	Fe 238.204 Radial†	15.0	5.5	58.973	ug/L	58.973 ppb	02:28:25
3	K 766.490 Radial†	3183.6	135.1	27.294	ug/L	27.294 ppb	02:28:05
3	Mg 279.077 IEC†	1.3	-1.3	-51.650	ug/L	-51.650 ppb	02:28:25
3	Na 589.592 Radial†	-40.6	-249.3	-83.149	ug/L	-83.149 ppb	02:28:05
3	Sr 421.552†	89.3	2.9	0.0223	ug/L	0.0223 ppb	02:28:05
3	Sc 361.383	832342.1	832342.1	97.922	%		02:29:22
3	Y 371.029	673352.1	673352.1	95.820	%		02:29:22
3	Ag 328.068†	256.7	34.5	0.1849	ug/L	0.1849 ppb	02:29:22
3	As 188.979†	-31.3	-3.6	-1.5168	ug/L	-1.5168 ppb	02:29:43
3	B 249.677†	-426.5	46.4	1.0813	ug/L	1.0813 ppb	02:29:43
3	Ba 233.527†	42.5	24.6	0.2013	ug/L	0.2013 ppb	02:29:43
3	Be 313.107†	-4236.3	12.9	0.0055	ug/L	0.0055 ppb	02:29:22
3	Cd 226.502†	-206.9	-15.8	-0.1913	ug/L	-0.1913 ppb	02:29:43
3	Co 228.616†	-65.8	11.7	0.2436	ug/L	0.2436 ppb	02:29:43
3	Cr 267.716†	127.1	-19.9	-0.2303	ug/L	-0.2303 ppb	02:29:43
3	Cu 324.752†	8505.3	591.8	1.8154	ug/L	1.8154 ppb	02:29:22
3	Mn 257.610†	1738.5	1205.6	1.3985	ug/L	1.3985 ppb	02:29:43
3	Mo 202.031†	18.6	8.5	0.6365	ug/L	0.6365 ppb	02:29:43
3	Ni 231.604†	122.8	11.9	0.3038	ug/L	0.3038 ppb	02:29:43
3	P 214.914†	229.5	-7.6	-4.6437	ug/L	-4.6437 ppb	02:29:43
3	Pb 220.353†	-67.7	4.5	0.5547	ug/L	0.5547 ppb	02:29:43
3	S 181.975 Axial†	54.0	12.2	15.922	ug/L	15.922 ppb	02:29:43
3	Sb 206.836†	38.7	3.8	1.3112	ug/L	1.3112 ppb	02:29:43
3	Se 196.026†	-27.5	-4.7	-2.5739	ug/L	-2.5739 ppb	02:29:43
3	Si 251.611†	686.4	88.7	2.7558	ug/L	2.7558 ppb	02:29:43
3	Sn 189.927†	12.2	-0.1	-0.0178	ug/L	-0.0178 ppb	02:29:43
3	Ti 334.940†	-1271.8	194.1	0.3252	ug/L	0.3252 ppb	02:29:22
3	Tl 190.801†	-29.2	9.2	2.9261	ug/L	2.9261 ppb	02:29:43
3	U 409.014†	-3469.0	-27.5	-0.7860	ug/L	-0.7860 ppb	02:29:22
3	V 292.402†	-1662.9	-20.9	-0.1536	ug/L	-0.1536 ppb	02:29:22
3	Zn 213.857†	785.2	114.2	1.1009	ug/L	1.1009 ppb	02:29:43
3	SiO2†	744.5	140.8	9.3696	ug/L	9.3696 ppb	02:29:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	827721.4	97.378	%	0.4911				0.50%
Sc Radial	4069.5	95.7	%	0.52				0.54%
Y 371.029	669787.9	95.312	%	0.4788				0.50%
Y RADIAL	4229.3	96.07	%	1.313				1.37%
Ag 328.068†	43.9	0.2388	ug/L	0.19250	0.2388	ppb	0.19250	80.63%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	18.9	18.862	ug/L	9.7827	18.862	ppb	9.7827	51.87%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-4.0	-1.6495	ug/L	0.61085	-1.6495	ppb	0.61085	37.03%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	51.8	1.2042	ug/L	0.25711	1.2042	ppb	0.25711	21.35%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	37.6	0.3073	ug/L	0.09181	0.3073	ppb	0.09181	29.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	5.1	0.0025	ug/L	0.03625	0.0025	ppb	0.03625	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	18.7	34.853	ug/L	4.1398	34.853	ppb	4.1398	11.88%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -20.8     -0.2527 ug/L       0.07092     -0.2527 ppb        0.07092  28.06%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               13.8      0.2882 ug/L       0.03932      0.2882 ppb        0.03932  13.64%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -8.3     -0.0960 ug/L       0.12363     -0.0960 ppb        0.12363 128.74%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              555.3      1.7047 ug/L       0.09625      1.7047 ppb        0.09625   5.65%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         8.5     90.173 ug/L       27.8815     90.173 ppb        27.8815  30.92%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        134.3     27.051 ug/L        4.0159     27.051 ppb         4.0159  14.85%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.3    -48.776 ug/L      136.4657    -48.776 ppb       136.4657 279.78%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†             1101.9      1.2818 ug/L       0.19617      1.2818 ppb        0.19617  15.30%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               10.4      0.7832 ug/L       0.13007      0.7832 ppb        0.13007  16.61%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       336.6     112.28 ug/L       345.566     112.28 ppb       345.566 307.77%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -1.3     -0.0323 ug/L       0.30631     -0.0323 ppb        0.30631 948.27%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -2.8     -1.9323 ug/L       2.40731     -1.9323 ppb        2.40731 124.58%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -2.7     -0.3388 ug/L       0.77811     -0.3388 ppb        0.77811 229.68%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          13.3     17.399 ug/L        2.0608     17.399 ppb         2.0608  11.84%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                2.5      0.8698 ug/L       0.42127      0.8698 ppb        0.42127  48.44%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -2.8     -1.3241 ug/L       2.00543     -1.3241 ppb        2.00543 151.46%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              111.8      3.4746 ug/L       0.98740      3.4746 ppb        0.98740  28.42%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                5.4      0.9771 ug/L       0.86397      0.9771 ppb        0.86397  88.42%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               19.8      0.1530 ug/L       0.11612      0.1530 ppb        0.11612  75.89%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              174.2      0.2916 ug/L       0.14672      0.2916 ppb        0.14672  50.31%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                7.0      2.2252 ug/L       0.81676      2.2252 ppb        0.81676  36.70%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                16.6      0.4624 ug/L       4.57105      0.4624 ppb        4.57105 988.53%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -56.9     -0.4148 ug/L       0.40580     -0.4148 ppb        0.40580  97.84%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              124.9      1.2038 ug/L       0.09039      1.2038 ppb        0.09039   7.51%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    121.5      8.0792 ug/L       2.44085      8.0792 ppb        2.44085  30.21%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 86
Sample ID: 1202030969|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 2/17/2010 02:32:09
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030969|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4040.4	4040.4	95.0	%			02:34:22
1	Y RADIAL	4188.7	4188.7	95.15	%			02:34:02
1	Al 396.153Radial†	-150.3	0.9	0.8387	ug/L	0.8387	ppb	02:34:02
1	Ca 317.933Radial†	36.0	19.6	36.505	ug/L	36.505	ppb	02:34:22
1	Fe 238.204 Radial†	23.8	15.0	159.70	ug/L	159.70	ppb	02:34:22
1	K 766.490 Radial†	2985.3	-30.7	-6.1685	ug/L	-6.1685	ppb	02:34:02
1	Mg 279.077 IEC†	2.9	0.3	12.616	ug/L	12.616	ppb	02:34:22
1	Na 589.592 Radial†	-166.5	-382.3	-127.52	ug/L	-127.52	ppb	02:34:02
1	Sr 421.552†	153.2	71.4	0.5511	ug/L	0.5511	ppb	02:34:02
1	Sc 361.383	832765.3	832765.3	97.971	%			02:35:19
1	Y 371.029	672955.6	672955.6	95.763	%			02:35:19
1	Ag 328.068†	211.1	-12.2	-0.0097	ug/L	-0.0097	ppb	02:35:19
1	As 188.979†	-25.5	2.3	1.0111	ug/L	1.0111	ppb	02:35:39
1	B 249.677†	-454.6	17.9	0.3955	ug/L	0.3955	ppb	02:35:39
1	Ba 233.527†	49.8	32.0	0.2641	ug/L	0.2641	ppb	02:35:39
1	Be 313.107†	-4204.8	47.3	0.0187	ug/L	0.0187	ppb	02:35:19
1	Cd 226.502†	-195.3	-3.9	-0.0611	ug/L	-0.0611	ppb	02:35:39
1	Co 228.616†	-64.6	12.9	0.2687	ug/L	0.2687	ppb	02:35:39
1	Cr 267.716†	175.1	29.0	0.3387	ug/L	0.3387	ppb	02:35:39
1	Cu 324.752†	8517.7	600.0	1.8432	ug/L	1.8432	ppb	02:35:19
1	Mn 257.610†	1973.1	1444.2	1.6809	ug/L	1.6809	ppb	02:35:39
1	Mo 202.031†	23.3	13.3	1.0015	ug/L	1.0015	ppb	02:35:39
1	Ni 231.604†	104.5	-6.9	-0.1763	ug/L	-0.1763	ppb	02:35:39
1	P 214.914†	251.3	14.6	7.6076	ug/L	7.6076	ppb	02:35:39
1	Pb 220.353†	-80.2	-8.3	-1.0427	ug/L	-1.0427	ppb	02:35:39
1	S 181.975 Axial†	63.5	21.9	28.582	ug/L	28.582	ppb	02:35:39
1	Sb 206.836†	37.9	3.0	1.0654	ug/L	1.0654	ppb	02:35:39
1	Se 196.026†	-23.9	-1.0	-0.0763	ug/L	-0.0763	ppb	02:35:39
1	Si 251.611†	1063.3	473.0	14.728	ug/L	14.728	ppb	02:35:39
1	Sn 189.927†	25.1	13.0	2.3406	ug/L	2.3406	ppb	02:35:39
1	Ti 334.940†	-1107.4	362.6	0.5912	ug/L	0.5912	ppb	02:35:19
1	Tl 190.801†	-31.5	7.0	2.2085	ug/L	2.2085	ppb	02:35:39
1	U 409.014†	-3301.7	145.1	4.1016	ug/L	4.1016	ppb	02:35:19
1	V 292.402†	-1681.8	-39.3	-0.2867	ug/L	-0.2867	ppb	02:35:19
1	Zn 213.857†	911.8	242.9	2.3457	ug/L	2.3457	ppb	02:35:39
1	SiO2†	1145.1	549.3	36.597	ug/L	36.597	ppb	02:36:35
2	Sc Radial	4070.3	4070.3	95.8	%			02:34:48
2	Y RADIAL	4248.2	4248.2	96.50	%			02:34:27
2	Al 396.153Radial†	-116.7	37.2	37.126	ug/L	37.126	ppb	02:34:27
2	Ca 317.933Radial†	33.3	16.5	30.713	ug/L	30.713	ppb	02:34:48
2	Fe 238.204 Radial†	26.2	17.3	184.18	ug/L	184.18	ppb	02:34:48
2	K 766.490 Radial†	2961.1	-79.1	-15.930	ug/L	-15.930	ppb	02:34:27
2	Mg 279.077 IEC†	0.5	-2.2	-85.247	ug/L	-85.247	ppb	02:34:48
2	Na 589.592 Radial†	-232.5	-449.9	-150.07	ug/L	-150.07	ppb	02:34:27
2	Sr 421.552†	115.1	30.4	0.2344	ug/L	0.2344	ppb	02:34:27
2	Sc 361.383	819839.7	819839.7	96.451	%			02:35:45
2	Y 371.029	662997.0	662997.0	94.346	%			02:35:45
2	Ag 328.068†	224.1	4.7	0.0830	ug/L	0.0830	ppb	02:35:45
2	As 188.979†	-31.3	-4.2	-1.7089	ug/L	-1.7089	ppb	02:36:05
2	B 249.677†	-431.9	34.1	0.7731	ug/L	0.7731	ppb	02:36:05
2	Ba 233.527†	79.2	63.3	0.5200	ug/L	0.5200	ppb	02:36:05
2	Be 313.107†	-4253.5	-70.9	-0.0240	ug/L	-0.0240	ppb	02:35:45
2	Cd 226.502†	-211.6	-23.9	-0.2976	ug/L	-0.2976	ppb	02:36:05
2	Co 228.616†	-69.0	7.3	0.1524	ug/L	0.1524	ppb	02:36:05
2	Cr 267.716†	167.4	23.8	0.2803	ug/L	0.2803	ppb	02:36:05
2	Cu 324.752†	8391.9	606.6	1.8653	ug/L	1.8653	ppb	02:35:45
2	Mn 257.610†	2052.2	1558.0	1.8186	ug/L	1.8186	ppb	02:36:05
2	Mo 202.031†	33.1	23.9	1.7889	ug/L	1.7889	ppb	02:36:05
2	Ni 231.604†	99.3	-10.6	-0.2704	ug/L	-0.2704	ppb	02:36:05

2	P 214.914†	263.9	31.6	17.035 ug/L	17.035 ppb	02:36:05
2	Pb 220.353†	-66.2	5.0	0.6076 ug/L	0.6076 ppb	02:36:05
2	S 181.975 Axial†	55.0	14.1	18.420 ug/L	18.420 ppb	02:36:05
2	Sb 206.836†	33.0	-1.5	-0.4800 ug/L	-0.4800 ppb	02:36:05
2	Se 196.026†	-22.9	-0.4	0.3643 ug/L	0.3643 ppb	02:36:05
2	Si 251.611†	1008.5	433.3	13.481 ug/L	13.481 ppb	02:36:05
2	Sn 189.927†	8.1	-4.2	-0.7541 ug/L	-0.7541 ppb	02:36:05
2	Ti 334.940†	-895.0	564.9	0.9279 ug/L	0.9279 ppb	02:35:45
2	Tl 190.801†	-28.1	10.0	3.1724 ug/L	3.1724 ppb	02:36:05
2	U 409.014†	-3294.2	99.7	2.8120 ug/L	2.8120 ppb	02:35:45
2	V 292.402†	-1586.6	32.3	0.2347 ug/L	0.2347 ppb	02:35:45
2	Zn 213.857†	924.0	270.2	2.6090 ug/L	2.6090 ppb	02:36:05
2	SiO2†	1061.8	481.3	32.043 ug/L	32.043 ppb	02:36:40
3	Sc Radial	4057.5	4057.5	95.5 %		02:35:13
3	Y RADIAL	4173.6	4173.6	94.81 %		02:34:53
3	Al 396.153Radial†	-126.1	26.9	26.817 ug/L	26.817 ppb	02:34:53
3	Ca 317.933Radial†	38.2	21.7	40.440 ug/L	40.440 ppb	02:35:13
3	Fe 238.204 Radial†	21.8	12.8	136.42 ug/L	136.42 ppb	02:35:13
3	K 766.490 Radial†	3062.8	37.2	7.5473 ug/L	7.5473 ppb	02:34:53
3	Mg 279.077 IEC†	2.3	-0.3	-12.305 ug/L	-12.305 ppb	02:35:13
3	Na 589.592 Radial†	-193.1	-409.4	-136.56 ug/L	-136.56 ppb	02:34:53
3	Sr 421.552†	81.1	-4.8	-0.0374 ug/L	-0.0374 ppb	02:34:53
3	Sc 361.383	824973.9	824973.9	97.055 %		02:36:10
3	Y 371.029	667986.1	667986.1	95.056 %		02:36:10
3	Ag 328.068†	229.6	8.9	0.0855 ug/L	0.0855 ppb	02:36:10
3	As 188.979†	-29.8	-2.4	-0.9716 ug/L	-0.9716 ppb	02:36:30
3	B 249.677†	-424.1	45.0	1.0354 ug/L	1.0354 ppb	02:36:30
3	Ba 233.527†	88.5	72.3	0.5934 ug/L	0.5934 ppb	02:36:30
3	Be 313.107†	-4147.9	65.4	0.0256 ug/L	0.0256 ppb	02:36:10
3	Cd 226.502†	-215.0	-26.1	-0.3176 ug/L	-0.3176 ppb	02:36:30
3	Co 228.616†	-63.6	13.3	0.2778 ug/L	0.2778 ppb	02:36:30
3	Cr 267.716†	156.7	11.8	0.1378 ug/L	0.1378 ppb	02:36:30
3	Cu 324.752†	8416.0	577.3	1.7705 ug/L	1.7705 ppb	02:36:10
3	Mn 257.610†	1969.3	1459.3	1.6972 ug/L	1.6972 ppb	02:36:30
3	Mo 202.031†	30.7	21.1	1.5810 ug/L	1.5810 ppb	02:36:30
3	Ni 231.604†	111.9	1.8	0.0450 ug/L	0.0450 ppb	02:36:30
3	P 214.914†	245.9	11.3	5.8514 ug/L	5.8514 ppb	02:36:30
3	Pb 220.353†	-58.4	13.4	1.6587 ug/L	1.6587 ppb	02:36:30
3	S 181.975 Axial†	61.5	20.5	26.772 ug/L	26.772 ppb	02:36:30
3	Sb 206.836†	41.8	7.4	2.5581 ug/L	2.5581 ppb	02:36:30
3	Se 196.026†	-19.2	3.6	2.5269 ug/L	2.5269 ppb	02:36:30
3	Si 251.611†	1025.9	444.7	13.838 ug/L	13.838 ppb	02:36:30
3	Sn 189.927†	22.3	10.3	1.8629 ug/L	1.8629 ppb	02:36:30
3	Ti 334.940†	-1039.6	421.8	0.6885 ug/L	0.6885 ppb	02:36:10
3	Tl 190.801†	-36.0	2.0	0.6342 ug/L	0.6342 ppb	02:36:30
3	U 409.014†	-3150.3	269.2	7.6326 ug/L	7.6326 ppb	02:36:10
3	V 292.402†	-1507.5	124.0	0.9141 ug/L	0.9141 ppb	02:36:10
3	Zn 213.857†	925.0	265.3	2.5666 ug/L	2.5666 ppb	02:36:30
3	SiO2†	1012.6	423.8	28.212 ug/L	28.212 ppb	02:36:45

Mean Data: 1202030969|948071|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	825859.6	97.159	%	0.7657				0.79%
Sc Radial	4056.1	95.4	%	0.35				0.37%
Y 371.029	667979.6	95.055	%	0.7086				0.75%
Y RADIAL	4203.5	95.49	%	0.896				0.94%
Ag 328.068†	0.5	0.0529	ug/L	0.05429	0.0529	ppb	0.05429	102.56%
Al 396.153Radial†	21.7	21.594	ug/L	18.6990	21.594	ppb	18.6990	86.59%
As 188.979†	-1.4	-0.5564	ug/L	1.40673	-0.5564	ppb	1.40673	252.81%
B 249.677†	32.4	0.7347	ug/L	0.32164	0.7347	ppb	0.32164	43.78%
Ba 233.527†	55.9	0.4592	ug/L	0.17286	0.4592	ppb	0.17286	37.65%
Be 313.107†	13.9	0.0068	ug/L	0.02683	0.0068	ppb	0.02683	396.49%
Ca 317.933Radial†	19.2	35.886	ug/L	4.8929	35.886	ppb	4.8929	13.63%
Cd 226.502†	-17.9	-0.2254	ug/L	0.14265	-0.2254	ppb	0.14265	63.29%
Co 228.616†	11.2	0.2330	ug/L	0.06993	0.2330	ppb	0.06993	30.02%
Cr 267.716†	21.5	0.2522	ug/L	0.10332	0.2522	ppb	0.10332	40.96%
Cu 324.752†	594.6	1.8263	ug/L	0.04960	1.8263	ppb	0.04960	2.72%
Fe 238.204 Radial†	15.1	160.10	ug/L	23.884	160.10	ppb	23.884	14.92%
K 766.490 Radial†	-24.2	-4.8503	ug/L	11.79389	-4.8503	ppb	11.79389	243.16%

Mg 279.077 IEC†	-0.7	-28.312 ug/L	50.8575	-28.312 ppb	50.8575	179.63%
Mn 257.610†	1487.2	1.7322 ug/L	0.07526	1.7322 ppb	0.07526	4.34%
Mo 202.031†	19.4	1.4571 ug/L	0.40804	1.4571 ppb	0.40804	28.00%
Na 589.592 Radial†	-413.9	-138.05 ug/L	11.351	-138.05 ppb	11.351	8.22%
Ni 231.604†	-5.2	-0.1339 ug/L	0.16189	-0.1339 ppb	0.16189	120.91%
P 214.914†	19.2	10.165 ug/L	6.0144	10.165 ppb	6.0144	59.17%
Pb 220.353†	3.4	0.4079 ug/L	1.36175	0.4079 ppb	1.36175	333.87%
S 181.975 Axial†	18.8	24.591 ug/L	5.4208	24.591 ppb	5.4208	22.04%
Sb 206.836†	3.0	1.0478 ug/L	1.51918	1.0478 ppb	1.51918	144.98%
Se 196.026†	0.7	0.9383 ug/L	1.39329	0.9383 ppb	1.39329	148.49%
Si 251.611†	450.3	14.016 ug/L	0.6420	14.016 ppb	0.6420	4.58%
Sn 189.927†	6.4	1.1498 ug/L	1.66601	1.1498 ppb	1.66601	144.90%
Sr 421.552†	32.3	0.2494 ug/L	0.29455	0.2494 ppb	0.29455	118.11%
Ti 334.940†	449.8	0.7359 ug/L	0.17329	0.7359 ppb	0.17329	23.55%
Tl 190.801†	6.3	2.0050 ug/L	1.28126	2.0050 ppb	1.28126	63.90%
U 409.014†	171.3	4.8487 ug/L	2.49567	4.8487 ppb	2.49567	51.47%
V 292.402†	39.0	0.2874 ug/L	0.60212	0.2874 ppb	0.60212	209.53%
Zn 213.857†	259.5	2.5071 ug/L	0.14139	2.5071 ppb	0.14139	5.64%
SiO2†	484.8	32.284 ug/L	4.1977	32.284 ppb	4.1977	13.00%

Sequence No.: 87
Sample ID: 1202030974|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 2/17/2010 02:38:57
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030974|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4266.5	4266.5	100	%			02:41:11
1	Y RADIAL	4807.1	4807.1	109.2	%			02:41:11
1	Al 396.153Radial†	83517.0	83371.6	83382	ug/L	83382	ppb	02:40:51
1	Ca 317.933Radial†	52133.0	51924.6	96859	ug/L	96859	ppb	02:40:51
1	Fe 238.204 Radial†	17802.4	17727.4	188430	ug/L	188430	ppb	02:40:51
1	K 766.490 Radial†	199287.3	195389.1	39404	ug/L	39404	ppb	02:40:51
1	Mg 279.077 IEC†	954.2	948.0	36421	ug/L	36421	ppb	02:41:11
1	Na 589.592 Radial†	29032.4	28719.5	9579.7	ug/L	9579.7	ppb	02:40:51
1	Sr 421.552†	280262.9	279151.2	2154.7	ug/L	2154.7	ppb	02:40:51
1	Sc 361.383	847863.3	847863.3	99.748	%			02:42:13
1	Y 371.029	746467.2	746467.2	106.22	%			02:42:13
1	Ag 328.068†	50483.9	50384.0	309.05	ug/L	309.05	ppb	02:42:13
1	As 188.979†	2284.4	2318.5	1067.2	ug/L	1067.2	ppb	02:42:18
1	B 249.677†	61172.1	61808.8	1421.0	ug/L	1421.0	ppb	02:42:13
1	Ba 233.527†	224145.9	224694.3	1832.7	ug/L	1832.7	ppb	02:42:13
1	Be 313.107†	2017880.0	2027325.4	757.40	ug/L	757.40	ppb	02:42:13
1	Cd 226.502†	47813.7	48130.2	544.15	ug/L	544.15	ppb	02:42:18
1	Co 228.616†	42186.5	42372.1	870.10	ug/L	870.10	ppb	02:42:18
1	Cr 267.716†	187503.1	187827.8	2190.6	ug/L	2190.6	ppb	02:42:13
1	Cu 324.752†	593695.2	587103.5	1807.6	ug/L	1807.6	ppb	02:42:13
1	Mn 257.610†	4426162.0	4436792.7	5134.4	ug/L	5134.4	ppb	02:42:13
1	Mo 202.031†	6164.1	6169.2	474.19	ug/L	474.19	ppb	02:42:18
1	Ni 231.604†	48433.4	48442.5	1240.3	ug/L	1240.3	ppb	02:42:18
1	P 214.914†	14720.4	14515.7	7575.3	ug/L	7575.3	ppb	02:42:18
1	Pb 220.353†	6151.3	6240.4	774.79	ug/L	774.79	ppb	02:42:18
1	S 181.975 Axial†	3048.8	3013.7	3923.1	ug/L	3923.1	ppb	02:42:18
1	Sb 206.836†	3970.0	3944.4	1340.8	ug/L	1340.8	ppb	02:42:18
1	Se 196.026†	4091.1	4124.8	3017.5	ug/L	3017.5	ppb	02:42:18
1	Si 251.611†	966465.4	968298.7	30169	ug/L	30169	ppb	02:42:13
1	Sn 189.927†	5383.8	5384.8	983.44	ug/L	983.44	ppb	02:42:18
1	Ti 334.940†	3445942.5	3456155.3	5626.7	ug/L	5626.7	ppb	02:42:13
1	Tl 190.801†	3520.2	3568.3	1191.2	ug/L	1191.2	ppb	02:42:18
1	U 409.014†	-9015.8	-5523.5	-183.27	ug/L	-183.27	ppb	02:42:13
1	V 292.402†	158907.3	160986.7	1138.7	ug/L	1138.7	ppb	02:42:13
1	Zn 213.857†	581590.3	582374.2	5645.3	ug/L	5645.3	ppb	02:42:13
1	SiO2†	953265.4	955058.1	63664	ug/L	63664	ppb	02:42:53
2	Sc Radial	4274.9	4274.9	101	%			02:41:37
2	Y RADIAL	4821.4	4821.4	109.5	%			02:41:37
2	Al 396.153Radial†	83424.6	83115.2	83125	ug/L	83125	ppb	02:41:17
2	Ca 317.933Radial†	52002.8	51692.4	96426	ug/L	96426	ppb	02:41:17
2	Fe 238.204 Radial†	17721.8	17612.3	187200	ug/L	187200	ppb	02:41:17
2	K 766.490 Radial†	199060.5	194771.0	39279	ug/L	39279	ppb	02:41:17
2	Mg 279.077 IEC†	959.0	950.9	36536	ug/L	36536	ppb	02:41:37
2	Na 589.592 Radial†	28635.0	28267.1	9428.8	ug/L	9428.8	ppb	02:41:17
2	Sr 421.552†	278861.1	277205.1	2139.7	ug/L	2139.7	ppb	02:41:17
2	Sc 361.383	841725.0	841725.0	99.025	%			02:42:27
2	Y 371.029	741504.4	741504.4	105.52	%			02:42:27
2	Ag 328.068†	50106.5	50372.0	308.58	ug/L	308.58	ppb	02:42:27
2	As 188.979†	2254.6	2305.1	1061.2	ug/L	1061.2	ppb	02:42:32
2	B 249.677†	60638.7	61717.3	1419.0	ug/L	1419.0	ppb	02:42:27
2	Ba 233.527†	222433.0	224603.2	1832.0	ug/L	1832.0	ppb	02:42:27
2	Be 313.107†	1998813.8	2022824.1	755.73	ug/L	755.73	ppb	02:42:27
2	Cd 226.502†	47946.7	48614.0	549.94	ug/L	549.94	ppb	02:42:32
2	Co 228.616†	42386.6	42882.6	880.79	ug/L	880.79	ppb	02:42:32
2	Cr 267.716†	186101.7	187783.5	2190.0	ug/L	2190.0	ppb	02:42:27
2	Cu 324.752†	587354.6	585041.0	1801.2	ug/L	1801.2	ppb	02:42:27
2	Mn 257.610†	4388567.5	4431187.5	5127.8	ug/L	5127.8	ppb	02:42:27
2	Mo 202.031†	6194.0	6244.5	479.68	ug/L	479.68	ppb	02:42:32
2	Ni 231.604†	48597.8	48962.6	1253.6	ug/L	1253.6	ppb	02:42:32

2	P 214.914†	14818.2	14722.0	7692.1 ug/L	7692.1 ppb	02:42:32
2	Pb 220.353†	6228.2	6363.1	790.06 ug/L	790.06 ppb	02:42:32
2	S 181.975 Axial†	3055.0	3042.1	3960.3 ug/L	3960.3 ppb	02:42:32
2	Sb 206.836†	3965.6	3969.0	1349.5 ug/L	1349.5 ppb	02:42:32
2	Se 196.026†	4115.5	4179.3	3045.3 ug/L	3045.3 ppb	02:42:32
2	Si 251.611†	957667.2	966479.7	30112 ug/L	30112 ppb	02:42:27
2	Sn 189.927†	5417.7	5458.4	996.55 ug/L	996.55 ppb	02:42:32
2	Ti 334.940†	3416693.2	3451811.2	5619.5 ug/L	5619.5 ppb	02:42:27
2	Tl 190.801†	3531.7	3605.6	1202.8 ug/L	1202.8 ppb	02:42:32
2	U 409.014†	-8980.9	-5554.1	-184.00 ug/L	-184.00 ppb	02:42:27
2	V 292.402†	157554.7	160782.6	1137.5 ug/L	1137.5 ppb	02:42:27
2	Zn 213.857†	576219.4	581202.4	5634.0 ug/L	5634.0 ppb	02:42:27
2	SiO2†	956134.2	964924.4	64322 ug/L	64322 ppb	02:42:59
3	Sc Radial	4287.5	4287.5	101 %		02:42:02
3	Y RADIAL	4835.2	4835.2	109.8 %		02:42:02
3	Al 396.153Radial†	82669.4	82122.3	82132 ug/L	82132 ppb	02:41:42
3	Ca 317.933Radial†	51334.3	50877.4	94906 ug/L	94906 ppb	02:41:42
3	Fe 238.204 Radial†	17545.6	17385.6	184790 ug/L	184790 ppb	02:41:42
3	K 766.490 Radial†	196547.5	191697.0	38659 ug/L	38659 ppb	02:41:42
3	Mg 279.077 IEC†	962.6	951.7	36569 ug/L	36569 ppb	02:42:02
3	Na 589.592 Radial†	28447.1	27997.1	9338.7 ug/L	9338.7 ppb	02:41:42
3	Sr 421.552†	275935.5	273488.5	2111.0 ug/L	2111.0 ppb	02:41:42
3	Sc 361.383	850104.7	850104.7	100.01 %		02:42:41
3	Y 371.029	748693.1	748693.1	106.54 %		02:42:41
3	Ag 328.068†	50588.0	50354.6	307.70 ug/L	307.70 ppb	02:42:41
3	As 188.979†	2245.1	2273.2	1047.3 ug/L	1047.3 ppb	02:42:46
3	B 249.677†	61468.3	61943.3	1424.8 ug/L	1424.8 ppb	02:42:41
3	Ba 233.527†	224281.1	224236.9	1828.9 ug/L	1828.9 ppb	02:42:41
3	Be 313.107†	2021496.7	2025607.8	756.76 ug/L	756.76 ppb	02:42:41
3	Cd 226.502†	47492.8	47683.0	539.28 ug/L	539.28 ppb	02:42:46
3	Co 228.616†	41894.8	41969.0	861.75 ug/L	861.75 ppb	02:42:46
3	Cr 267.716†	187544.1	187373.3	2185.2 ug/L	2185.2 ppb	02:42:41
3	Cu 324.752†	595504.2	587342.9	1808.1 ug/L	1808.1 ppb	02:42:41
3	Mn 257.610†	4427110.7	4426041.6	5121.7 ug/L	5121.7 ppb	02:42:41
3	Mo 202.031†	6130.1	6119.0	470.15 ug/L	470.15 ppb	02:42:46
3	Ni 231.604†	48091.8	47972.8	1228.3 ug/L	1228.3 ppb	02:42:46
3	P 214.914†	14599.1	14355.4	7488.7 ug/L	7488.7 ppb	02:42:46
3	Pb 220.353†	6121.1	6194.0	769.07 ug/L	769.07 ppb	02:42:46
3	S 181.975 Axial†	3027.4	2984.1	3884.7 ug/L	3884.7 ppb	02:42:46
3	Sb 206.836†	3962.0	3925.8	1334.2 ug/L	1334.2 ppb	02:42:46
3	Se 196.026†	4098.0	4120.9	3003.4 ug/L	3003.4 ppb	02:42:46
3	Si 251.611†	966727.8	966006.5	30098 ug/L	30098 ppb	02:42:41
3	Sn 189.927†	5300.7	5287.5	965.64 ug/L	965.64 ppb	02:42:46
3	Ti 334.940†	3451362.2	3452465.8	5620.4 ug/L	5620.4 ppb	02:42:41
3	Tl 190.801†	3443.2	3481.9	1163.9 ug/L	1163.9 ppb	02:42:46
3	U 409.014†	-8831.8	-5315.7	-176.94 ug/L	-176.94 ppb	02:42:41
3	V 292.402†	159300.8	160960.1	1139.0 ug/L	1139.0 ppb	02:42:41
3	Zn 213.857†	582032.6	581279.2	5635.3 ug/L	5635.3 ppb	02:42:41
3	SiO2†	956687.7	955960.2	63724 ug/L	63724 ppb	02:43:05

Mean Data: 1202030974|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	846564.3	99.595	%	0.5104				0.51%
Sc Radial	4276.3	101	%	0.2				0.25%
Y 371.029	745554.9	106.09	%	0.524				0.49%
Y RADIAL	4821.2	109.5	%	0.32				0.29%
Ag 328.068†	50370.2	308.44	ug/L	0.683	308.44	ppb	0.683	0.22%
Al 396.153Radial†	82869.7	82880	ug/L	659.9	82880	ppb	659.9	0.80%
As 188.979†	2298.9	1058.6	ug/L	10.24	1058.6	ppb	10.24	0.97%
B 249.677†	61823.1	1421.6	ug/L	2.93	1421.6	ppb	2.93	0.21%
Ba 233.527†	224511.5	1831.2	ug/L	2.02	1831.2	ppb	2.02	0.11%
Be 313.107†	2025252.4	756.63	ug/L	0.842	756.63	ppb	0.842	0.11%
Ca 317.933Radial†	51498.2	96064	ug/L	1025.9	96064	ppb	1025.9	1.07%
Cd 226.502†	48142.4	544.46	ug/L	5.334	544.46	ppb	5.334	0.98%
Co 228.616†	42407.9	870.88	ug/L	9.545	870.88	ppb	9.545	1.10%
Cr 267.716†	187661.5	2188.6	ug/L	2.95	2188.6	ppb	2.95	0.13%
Cu 324.752†	586495.8	1805.7	ug/L	3.85	1805.7	ppb	3.85	0.21%
Fe 238.204 Radial†	17575.1	186810	ug/L	1848.2	186810	ppb	1848.2	0.99%
K 766.490 Radial†	193952.4	39114	ug/L	398.8	39114	ppb	398.8	1.02%

Mg 279.077 IEC†	950.2	36509	ug/L	77.6	36509	ppb	77.6	0.21%
Mn 257.610†	4431340.6	5128.0	ug/L	6.38	5128.0	ppb	6.38	0.12%
Mo 202.031†	6177.6	474.67	ug/L	4.785	474.67	ppb	4.785	1.01%
Na 589.592 Radial†	28327.9	9449.1	ug/L	121.75	9449.1	ppb	121.75	1.29%
Ni 231.604†	48459.3	1240.7	ug/L	12.68	1240.7	ppb	12.68	1.02%
P 214.914†	14531.0	7585.4	ug/L	102.07	7585.4	ppb	102.07	1.35%
Pb 220.353†	6265.8	777.98	ug/L	10.851	777.98	ppb	10.851	1.39%
S 181.975 Axial†	3013.3	3922.7	ug/L	37.80	3922.7	ppb	37.80	0.96%
Sb 206.836†	3946.4	1341.5	ug/L	7.64	1341.5	ppb	7.64	0.57%
Se 196.026†	4141.7	3022.1	ug/L	21.33	3022.1	ppb	21.33	0.71%
Si 251.611†	966928.3	30126	ug/L	37.7	30126	ppb	37.7	0.13%
Sn 189.927†	5376.9	981.88	ug/L	15.517	981.88	ppb	15.517	1.58%
Sr 421.552†	276615.0	2135.1	ug/L	22.21	2135.1	ppb	22.21	1.04%
Ti 334.940†	3453477.4	5622.2	ug/L	3.89	5622.2	ppb	3.89	0.07%
Tl 190.801†	3551.9	1186.0	ug/L	20.00	1186.0	ppb	20.00	1.69%
U 409.014†	-5464.4	-181.41	ug/L	3.882	-181.41	ppb	3.882	2.14%
V 292.402†	160909.8	1138.4	ug/L	0.80	1138.4	ppb	0.80	0.07%
Zn 213.857†	581618.6	5638.2	ug/L	6.21	5638.2	ppb	6.21	0.11%
SiO2†	958647.6	63904	ug/L	363.6	63904	ppb	363.6	0.57%

Sequence No.: 88
Sample ID: 245806001|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 105
Date Collected: 2/17/2010 02:45:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806001|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4128.5	4128.5	97.1	%			02:47:29
1	Y RADIAL	5187.6	5187.6	117.8	%			02:47:09
1	Al 396.153Radial†	32691.1	33819.6	33833	ug/L	33833	ppb	02:47:09
1	Ca 317.933Radial†	5783.8	5937.0	11075	ug/L	11075	ppb	02:47:09
1	Fe 238.204 Radial†	8824.3	9075.9	96456	ug/L	96456	ppb	02:47:09
1	K 766.490 Radial†	25580.8	23167.8	4672.0	ug/L	4672.0	ppb	02:47:09
1	Mg 279.077 IEC†	170.8	173.1	6585.5	ug/L	6585.5	ppb	02:47:29
1	Na 589.592 Radial†	2709.7	2583.0	861.59	ug/L	861.59	ppb	02:47:09
1	Sr 421.552†	10136.3	10347.1	79.810	ug/L	79.810	ppb	02:47:09
1	Sc 361.383	861304.8	861304.8	101.33	%			02:48:27
1	Y 371.029	815455.8	815455.8	116.04	%			02:48:27
1	Ag 328.068†	-4873.2	-5037.0	8.1165	ug/L	8.1165	ppb	02:48:32
1	As 188.979†	-15.9	12.6	42.883	ug/L	42.883	ppb	02:48:52
1	B 249.677†	705.3	1177.9	11.948	ug/L	11.948	ppb	02:48:32
1	Ba 233.527†	59581.3	58781.0	480.42	ug/L	480.42	ppb	02:48:32
1	Be 313.107†	15354.8	19492.6	11.090	ug/L	11.090	ppb	02:48:32
1	Cd 226.502†	547.1	735.4	-1.1945	ug/L	-1.1945	ppb	02:48:52
1	Co 228.616†	1632.7	1690.2	30.402	ug/L	30.402	ppb	02:48:52
1	Cr 267.716†	11516.2	11215.5	132.25	ug/L	132.25	ppb	02:48:32
1	Cu 324.752†	381548.1	368450.0	1132.9	ug/L	1132.9	ppb	02:48:32
1	Mn 257.610†	1680985.8	1658369.9	1922.0	ug/L	1922.0	ppb	02:48:27
1	Mo 202.031†	30.1	19.2	9.0462	ug/L	9.0462	ppb	02:48:52
1	Ni 231.604†	3387.3	3229.4	82.697	ug/L	82.697	ppb	02:48:52
1	P 214.914†	1320.8	1061.5	295.65	ug/L	295.65	ppb	02:48:52
1	Pb 220.353†	44186.5	43680.5	5408.6	ug/L	5408.6	ppb	02:48:32
1	S 181.975 Axial†	159.2	114.2	142.93	ug/L	142.93	ppb	02:48:52
1	Sb 206.836†	206.2	167.8	49.447	ug/L	49.447	ppb	02:48:52
1	Se 196.026†	-436.7	-407.6	74.110	ug/L	74.110	ppb	02:48:52
1	Si 251.611†	699667.0	689878.5	21498	ug/L	21498	ppb	02:48:27
1	Sn 189.927†	6.6	-6.1	2.2187	ug/L	2.2187	ppb	02:48:52
1	Ti 334.940†	1077733.4	1065091.8	1731.8	ug/L	1731.8	ppb	02:48:27
1	Tl 190.801†	-102.8	-62.4	3.4910	ug/L	3.4910	ppb	02:48:52
1	U 409.014†	17759.9	21042.1	586.46	ug/L	586.46	ppb	02:48:27
1	V 292.402†	11396.3	12924.1	78.970	ug/L	78.970	ppb	02:48:32
1	Zn 213.857†	39759.8	38550.6	359.76	ug/L	359.76	ppb	02:48:32
1	SiO2†	691574.8	681885.3	45463	ug/L	45463	ppb	02:50:00
2	Sc Radial	4172.1	4172.1	98.1	%			02:47:54
2	Y RADIAL	5114.8	5114.8	116.2	%			02:47:34
2	Al 396.153Radial†	32182.4	32949.1	32962	ug/L	32962	ppb	02:47:34
2	Ca 317.933Radial†	5695.4	5784.6	10790	ug/L	10790	ppb	02:47:34
2	Fe 238.204 Radial†	8701.4	8855.7	94115	ug/L	94115	ppb	02:47:34
2	K 766.490 Radial†	25030.0	22331.0	4503.2	ug/L	4503.2	ppb	02:47:34
2	Mg 279.077 IEC†	169.4	169.9	6462.0	ug/L	6462.0	ppb	02:47:54
2	Na 589.592 Radial†	2692.7	2536.5	846.07	ug/L	846.07	ppb	02:47:34
2	Sr 421.552†	10028.4	10127.9	78.120	ug/L	78.120	ppb	02:47:34
2	Sc 361.383	846618.8	846618.8	99.601	%			02:48:58
2	Y 371.029	801810.5	801810.5	114.10	%			02:48:58
2	Ag 328.068†	-4825.6	-5072.6	7.1617	ug/L	7.1617	ppb	02:49:03
2	As 188.979†	0.4	28.7	49.111	ug/L	49.111	ppb	02:49:23
2	B 249.677†	728.9	1213.7	13.167	ug/L	13.167	ppb	02:49:03
2	Ba 233.527†	60051.1	60272.7	492.47	ug/L	492.47	ppb	02:49:03
2	Be 313.107†	15564.0	19965.5	11.262	ug/L	11.262	ppb	02:49:03
2	Cd 226.502†	555.3	753.0	-0.7446	ug/L	-0.7446	ppb	02:49:23
2	Co 228.616†	1641.4	1726.9	31.207	ug/L	31.207	ppb	02:49:23
2	Cr 267.716†	11579.9	11476.6	135.24	ug/L	135.24	ppb	02:49:03
2	Cu 324.752†	382579.6	376017.4	1155.9	ug/L	1155.9	ppb	02:49:03
2	Mn 257.610†	1650402.1	1656440.8	1919.5	ug/L	1919.5	ppb	02:48:58
2	Mo 202.031†	31.1	20.7	8.9738	ug/L	8.9738	ppb	02:49:23
2	Ni 231.604†	3384.7	3284.7	84.114	ug/L	84.114	ppb	02:49:23

2	P 214.914†	1333.3	1096.7	312.24	ug/L	312.24 ppb	02:49:23
2	Pb 220.353†	44357.5	44608.7	5523.6	ug/L	5523.6 ppb	02:49:03
2	S 181.975 Axial†	169.6	127.4	160.31	ug/L	160.31 ppb	02:49:23
2	Sb 206.836†	213.7	178.8	53.219	ug/L	53.219 ppb	02:49:23
2	Se 196.026†	-434.2	-412.6	63.627	ug/L	63.627 ppb	02:49:23
2	Si 251.611†	687124.3	689263.4	21479	ug/L	21479 ppb	02:48:58
2	Sn 189.927†	2.5	-10.1	1.4118	ug/L	1.4118 ppb	02:49:23
2	Ti 334.940†	1058822.3	1064554.8	1730.8	ug/L	1730.8 ppb	02:48:58
2	Tl 190.801†	-121.2	-82.6	-2.9065	ug/L	-2.9065 ppb	02:49:23
2	U 409.014†	17685.0	21271.0	593.22	ug/L	593.22 ppb	02:48:58
2	V 292.402†	11483.3	13206.6	81.368	ug/L	81.368 ppb	02:49:03
2	Zn 213.857†	40042.0	39514.6	369.48	ug/L	369.48 ppb	02:49:03
2	SiO2†	693764.9	695923.3	46399	ug/L	46399 ppb	02:50:06
3	Sc Radial	4123.1	4123.1	97.0	%		02:48:20
3	Y RADIAL	5193.9	5193.9	118.0	%		02:48:00
3	Al 396.153Radial†	33006.8	34189.2	34202	ug/L	34202 ppb	02:48:00
3	Ca 317.933Radial†	5789.8	5950.9	11101	ug/L	11101 ppb	02:48:00
3	Fe 238.204 Radial†	8857.9	9122.5	96951	ug/L	96951 ppb	02:48:00
3	K 766.490 Radial†	25500.8	23119.8	4662.3	ug/L	4662.3 ppb	02:48:00
3	Mg 279.077 IEC†	171.6	174.2	6626.8	ug/L	6626.8 ppb	02:48:20
3	Na 589.592 Radial†	2667.6	2543.3	848.33	ug/L	848.33 ppb	02:48:00
3	Sr 421.552†	10187.4	10413.4	80.322	ug/L	80.322 ppb	02:48:00
3	Sc 361.383	848006.1	848006.1	99.764	%		02:49:29
3	Y 371.029	803773.5	803773.5	114.38	%		02:49:29
3	Ag 328.068†	-4910.3	-5149.5	7.7509	ug/L	7.7509 ppb	02:49:34
3	As 188.979†	-9.2	19.1	45.757	ug/L	45.757 ppb	02:49:54
3	B 249.677†	729.4	1213.1	12.692	ug/L	12.692 ppb	02:49:34
3	Ba 233.527†	60408.3	60532.1	494.66	ug/L	494.66 ppb	02:49:34
3	Be 313.107†	15537.3	19913.2	11.246	ug/L	11.246 ppb	02:49:34
3	Cd 226.502†	550.4	747.2	-1.1061	ug/L	-1.1061 ppb	02:49:54
3	Co 228.616†	1642.1	1724.8	31.119	ug/L	31.119 ppb	02:49:54
3	Cr 267.716†	11682.2	11560.1	136.27	ug/L	136.27 ppb	02:49:34
3	Cu 324.752†	385769.1	378586.0	1163.9	ug/L	1163.9 ppb	02:49:34
3	Mn 257.610†	1656357.2	1659699.1	1923.6	ug/L	1923.6 ppb	02:49:29
3	Mo 202.031†	19.0	8.6	8.2979	ug/L	8.2979 ppb	02:49:54
3	Ni 231.604†	3369.2	3263.6	83.573	ug/L	83.573 ppb	02:49:54
3	P 214.914†	1319.3	1080.4	299.69	ug/L	299.69 ppb	02:49:54
3	Pb 220.353†	44836.1	45015.6	5574.0	ug/L	5574.0 ppb	02:49:34
3	S 181.975 Axial†	156.6	114.1	142.70	ug/L	142.70 ppb	02:49:54
3	Sb 206.836†	201.0	165.8	48.718	ug/L	48.718 ppb	02:49:54
3	Se 196.026†	-434.6	-412.3	72.990	ug/L	72.990 ppb	02:49:54
3	Si 251.611†	688399.1	689412.5	21484	ug/L	21484 ppb	02:49:29
3	Sn 189.927†	2.3	-10.3	1.4739	ug/L	1.4739 ppb	02:49:54
3	Ti 334.940†	1061425.5	1065425.0	1732.3	ug/L	1732.3 ppb	02:49:29
3	Tl 190.801†	-115.6	-76.7	-1.0397	ug/L	-1.0397 ppb	02:49:54
3	U 409.014†	17538.5	21095.1	587.90	ug/L	587.90 ppb	02:49:29
3	V 292.402†	11549.0	13253.6	81.275	ug/L	81.275 ppb	02:49:34
3	Zn 213.857†	40227.6	39634.9	370.22	ug/L	370.22 ppb	02:49:34
3	SiO2†	694036.9	695056.4	46342	ug/L	46342 ppb	02:50:11

Mean Data: 245806001|948071|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	851976.6	100.23	%	0.954				0.95%
Sc Radial	4141.2	97.4	%	0.63				0.65%
Y 371.029	807013.3	114.84	%	1.050				0.91%
Y RADIAL	5165.4	117.3	%	1.00				0.85%
Ag 328.068†	-5086.4	7.6764	ug/L	0.48174	7.6764	ppb	0.48174	6.28%
Al 396.153Radial†	33652.6	33666	ug/L	636.9	33666	ppb	636.9	1.89%
As 188.979†	20.1	45.917	ug/L	3.1170	45.917	ppb	3.1170	6.79%
B 249.677†	1201.6	12.602	ug/L	0.6146	12.602	ppb	0.6146	4.88%
Ba 233.527†	59861.9	489.19	ug/L	7.666	489.19	ppb	7.666	1.57%
Be 313.107†	19790.4	11.199	ug/L	0.0949	11.199	ppb	0.0949	0.85%
Ca 317.933Radial†	5890.8	10989	ug/L	172.1	10989	ppb	172.1	1.57%
Cd 226.502†	745.2	-1.0151	ug/L	0.23833	-1.0151	ppb	0.23833	23.48%
Co 228.616†	1714.0	30.909	ug/L	0.4418	30.909	ppb	0.4418	1.43%
Cr 267.716†	11417.4	134.59	ug/L	2.089	134.59	ppb	2.089	1.55%
Cu 324.752†	374351.1	1150.9	ug/L	16.12	1150.9	ppb	16.12	1.40%
Fe 238.204 Radial†	9018.0	95841	ug/L	1514.6	95841	ppb	1514.6	1.58%
K 766.490 Radial†	22872.9	4612.5	ug/L	94.79	4612.5	ppb	94.79	2.06%

Mg 279.077 IEC†	172.4	6558.1	ug/L	85.78	6558.1	ppb	85.78	1.31%
Mn 257.610†	1658169.9	1921.7	ug/L	2.03	1921.7	ppb	2.03	0.11%
Mo 202.031†	16.2	8.7726	ug/L	0.41269	8.7726	ppb	0.41269	4.70%
Na 589.592 Radial†	2554.2	852.00	ug/L	8.381	852.00	ppb	8.381	0.98%
Ni 231.604†	3259.3	83.462	ug/L	0.7153	83.462	ppb	0.7153	0.86%
P 214.914†	1079.5	302.53	ug/L	8.652	302.53	ppb	8.652	2.86%
Pb 220.353†	44434.9	5502.0	ug/L	84.77	5502.0	ppb	84.77	1.54%
S 181.975 Axial†	118.6	148.65	ug/L	10.098	148.65	ppb	10.098	6.79%
Sb 206.836†	170.8	50.461	ug/L	2.4162	50.461	ppb	2.4162	4.79%
Se 196.026†	-410.8	70.243	ug/L	5.7568	70.243	ppb	5.7568	8.20%
Si 251.611†	689518.1	21487	ug/L	10.0	21487	ppb	10.0	0.05%
Sn 189.927†	-8.8	1.7015	ug/L	0.44903	1.7015	ppb	0.44903	26.39%
Sr 421.552†	10296.1	79.417	ug/L	1.1522	79.417	ppb	1.1522	1.45%
Ti 334.940†	1065023.9	1731.6	ug/L	0.73	1731.6	ppb	0.73	0.04%
Tl 190.801†	-73.9	-0.1518	ug/L	3.28991	-0.1518	ppb	3.28991	>999.9%
U 409.014†	21136.1	589.19	ug/L	3.561	589.19	ppb	3.561	0.60%
V 292.402†	13128.1	80.538	ug/L	1.3584	80.538	ppb	1.3584	1.69%
Zn 213.857†	39233.4	366.49	ug/L	5.837	366.49	ppb	5.837	1.59%
SiO2†	690955.0	46068	ug/L	524.5	46068	ppb	524.5	1.14%

Sequence No.: 89
Sample ID: 1202030970|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 2/17/2010 02:52:23
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030970|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4115.2	4115.2	96.8	%			02:54:36
1	Y RADIAL	5070.3	5070.3	115.2	%			02:54:16
1	Al 396.153Radial†	30815.7	31990.9	32003	ug/L	32003	ppb	02:54:16
1	Ca 317.933Radial†	5448.7	5610.1	10465	ug/L	10465	ppb	02:54:16
1	Fe 238.204 Radial†	8740.6	9018.7	95848	ug/L	95848	ppb	02:54:16
1	K 766.490 Radial†	24852.8	22500.7	4537.5	ug/L	4537.5	ppb	02:54:16
1	Mg 279.077 IEC†	161.7	164.3	6246.4	ug/L	6246.4	ppb	02:54:36
1	Na 589.592 Radial†	2652.2	2532.6	844.77	ug/L	844.77	ppb	02:54:16
1	Sr 421.552†	9454.3	9676.2	74.635	ug/L	74.635	ppb	02:54:16
1	Sc 361.383	855411.4	855411.4	100.64	%			02:55:34
1	Y 371.029	808085.1	808085.1	114.99	%			02:55:34
1	Ag 328.068†	-5068.0	-5263.6	7.0113	ug/L	7.0113	ppb	02:55:39
1	As 188.979†	-47.1	-18.5	29.468	ug/L	29.468	ppb	02:55:59
1	B 249.677†	588.2	1066.4	9.4379	ug/L	9.4379	ppb	02:55:39
1	Ba 233.527†	55572.4	55202.6	451.34	ug/L	451.34	ppb	02:55:39
1	Be 313.107†	11494.4	15761.0	9.6678	ug/L	9.6678	ppb	02:55:39
1	Cd 226.502†	522.5	714.7	-1.4345	ug/L	-1.4345	ppb	02:55:59
1	Co 228.616†	1345.4	1415.8	24.741	ug/L	24.741	ppb	02:55:59
1	Cr 267.716†	7604.3	7406.6	88.017	ug/L	88.017	ppb	02:55:39
1	Cu 324.752†	114923.8	106103.8	329.74	ug/L	329.74	ppb	02:55:39
1	Mn 257.610†	1825522.0	1813422.6	2100.8	ug/L	2100.8	ppb	02:55:34
1	Mo 202.031†	24.0	13.4	8.5607	ug/L	8.5607	ppb	02:55:59
1	Ni 231.604†	2564.8	2435.1	62.355	ug/L	62.355	ppb	02:55:59
1	P 214.914†	988.2	739.9	276.78	ug/L	276.78	ppb	02:55:59
1	Pb 220.353†	2323.1	2382.0	292.77	ug/L	292.77	ppb	02:55:59
1	S 181.975 Axial†	151.5	107.6	134.69	ug/L	134.69	ppb	02:55:59
1	Sb 206.836†	87.3	51.1	9.9777	ug/L	9.9777	ppb	02:55:59
1	Se 196.026†	-446.2	-420.1	64.833	ug/L	64.833	ppb	02:55:59
1	Si 251.611†	698245.0	693222.7	21603	ug/L	21603	ppb	02:55:34
1	Sn 189.927†	-8.8	-21.3	-0.6243	ug/L	-0.6243	ppb	02:55:59
1	Ti 334.940†	1056337.3	1051158.6	1709.2	ug/L	1709.2	ppb	02:55:34
1	Tl 190.801†	-119.3	-79.5	-1.2113	ug/L	-1.2113	ppb	02:55:59
1	U 409.014†	8996.9	12455.3	342.70	ug/L	342.70	ppb	02:55:34
1	V 292.402†	10665.3	12275.3	73.920	ug/L	73.920	ppb	02:55:39
1	Zn 213.857†	38028.6	37100.7	346.92	ug/L	346.92	ppb	02:55:39
1	SiO2†	683862.6	678924.0	45266	ug/L	45266	ppb	02:57:07
2	Sc Radial	4116.4	4116.4	96.8	%			02:55:01
2	Y RADIAL	4987.5	4987.5	113.3	%			02:54:41
2	Al 396.153Radial†	30214.2	31360.8	31373	ug/L	31373	ppb	02:54:41
2	Ca 317.933Radial†	5332.0	5488.0	10237	ug/L	10237	ppb	02:54:41
2	Fe 238.204 Radial†	8588.6	8859.3	94154	ug/L	94154	ppb	02:54:41
2	K 766.490 Radial†	24220.2	21840.3	4404.2	ug/L	4404.2	ppb	02:54:41
2	Mg 279.077 IEC†	162.7	165.3	6286.4	ug/L	6286.4	ppb	02:55:01
2	Na 589.592 Radial†	2469.1	2342.7	781.42	ug/L	781.42	ppb	02:54:41
2	Sr 421.552†	9219.5	9431.0	72.743	ug/L	72.743	ppb	02:54:41
2	Sc 361.383	846340.2	846340.2	99.568	%			02:56:05
2	Y 371.029	798334.4	798334.4	113.60	%			02:56:05
2	Ag 328.068†	-5033.6	-5283.1	6.3544	ug/L	6.3544	ppb	02:56:10
2	As 188.979†	-42.9	-14.7	30.665	ug/L	30.665	ppb	02:56:30
2	B 249.677†	639.9	1124.6	11.083	ug/L	11.083	ppb	02:56:10
2	Ba 233.527†	55601.4	55823.5	456.33	ug/L	456.33	ppb	02:56:10
2	Be 313.107†	11551.5	15940.6	9.7385	ug/L	9.7385	ppb	02:56:10
2	Cd 226.502†	544.3	742.2	-0.9380	ug/L	-0.9380	ppb	02:56:30
2	Co 228.616†	1342.5	1427.2	25.000	ug/L	25.000	ppb	02:56:30
2	Cr 267.716†	7551.4	7434.4	88.310	ug/L	88.310	ppb	02:56:10
2	Cu 324.752†	114704.1	107107.2	332.72	ug/L	332.72	ppb	02:56:10
2	Mn 257.610†	1806806.2	1814068.2	2101.4	ug/L	2101.4	ppb	02:56:05
2	Mo 202.031†	25.4	15.0	8.5478	ug/L	8.5478	ppb	02:56:30
2	Ni 231.604†	2535.9	2433.4	62.311	ug/L	62.311	ppb	02:56:30

2	P 214.914†	985.1	747.3	281.46 ug/L	281.46 ppb	02:56:30
2	Pb 220.353†	2308.1	2391.7	293.98 ug/L	293.98 ppb	02:56:30
2	S 181.975 Axial†	143.5	101.2	126.39 ug/L	126.39 ppb	02:56:30
2	Sb 206.836†	89.1	53.9	10.903 ug/L	10.903 ppb	02:56:30
2	Se 196.026†	-433.9	-412.4	63.796 ug/L	63.796 ppb	02:56:30
2	Si 251.611†	690560.7	692941.6	21594 ug/L	21594 ppb	02:56:05
2	Sn 189.927†	-25.1	-37.8	-3.6373 ug/L	-3.6373 ppb	02:56:30
2	Ti 334.940†	1046420.9	1052449.6	1711.2 ug/L	1711.2 ppb	02:56:05
2	Tl 190.801†	-111.5	-72.8	0.9076 ug/L	0.9076 ppb	02:56:30
2	U 409.014†	8877.6	12431.3	342.21 ug/L	342.21 ppb	02:56:05
2	V 292.402†	10716.9	12440.7	75.363 ug/L	75.363 ppb	02:56:10
2	Zn 213.857†	37924.4	37401.0	350.10 ug/L	350.10 ppb	02:56:10
2	SiO2†	700092.4	702507.5	46838 ug/L	46838 ppb	02:57:13
3	Sc Radial	4125.7	4125.7	97.1 %		02:55:27
3	Y RADIAL	5162.3	5162.3	117.3 %		02:55:07
3	Al 396.153Radial†	31012.2	32112.5	32125 ug/L	32125 ppb	02:55:07
3	Ca 317.933Radial†	5464.8	5612.4	10469 ug/L	10469 ppb	02:55:07
3	Fe 238.204 Radial†	8776.6	9032.9	95999 ug/L	95999 ppb	02:55:07
3	K 766.490 Radial†	24865.4	22448.5	4526.9 ug/L	4526.9 ppb	02:55:07
3	Mg 279.077 IEC†	160.2	162.3	6168.8 ug/L	6168.8 ppb	02:55:27
3	Na 589.592 Radial†	2608.8	2480.9	827.53 ug/L	827.53 ppb	02:55:07
3	Sr 421.552†	9453.4	9650.5	74.436 ug/L	74.436 ppb	02:55:07
3	Sc 361.383	853718.2	853718.2	100.44 %		02:56:36
3	Y 371.029	807069.0	807069.0	114.85 %		02:56:36
3	Ag 328.068†	-5056.3	-5262.0	7.0672 ug/L	7.0672 ppb	02:56:41
3	As 188.979†	-34.4	-5.9	34.772 ug/L	34.772 ppb	02:57:01
3	B 249.677†	567.3	1046.8	8.9517 ug/L	8.9517 ppb	02:56:41
3	Ba 233.527†	55278.4	55019.4	449.86 ug/L	449.86 ppb	02:56:41
3	Be 313.107†	11427.4	15716.9	9.6480 ug/L	9.6480 ppb	02:56:41
3	Cd 226.502†	534.0	727.1	-1.3032 ug/L	-1.3032 ppb	02:57:01
3	Co 228.616†	1364.1	1437.1	25.187 ug/L	25.187 ppb	02:57:01
3	Cr 267.716†	7580.5	7397.9	87.917 ug/L	87.917 ppb	02:56:41
3	Cu 324.752†	114119.3	105529.3	327.98 ug/L	327.98 ppb	02:56:41
3	Mn 257.610†	1816225.8	1807764.5	2094.3 ug/L	2094.3 ppb	02:56:36
3	Mo 202.031†	31.4	20.8	9.1250 ug/L	9.1250 ppb	02:57:01
3	Ni 231.604†	2572.9	2448.2	62.691 ug/L	62.691 ppb	02:57:01
3	P 214.914†	977.0	730.8	271.98 ug/L	271.98 ppb	02:57:01
3	Pb 220.353†	2360.0	2423.3	297.90 ug/L	297.90 ppb	02:57:01
3	S 181.975 Axial†	142.0	98.4	122.65 ug/L	122.65 ppb	02:57:01
3	Sb 206.836†	83.9	47.9	8.9207 ug/L	8.9207 ppb	02:57:01
3	Se 196.026†	-447.1	-421.8	64.290 ug/L	64.290 ppb	02:57:01
3	Si 251.611†	694262.3	690633.4	21522 ug/L	21522 ppb	02:56:36
3	Sn 189.927†	-1.3	-13.9	0.7105 ug/L	0.7105 ppb	02:57:01
3	Ti 334.940†	1053256.8	1050173.2	1707.6 ug/L	1707.6 ppb	02:56:36
3	Tl 190.801†	-117.0	-77.3	-0.5828 ug/L	-0.5828 ppb	02:57:01
3	U 409.014†	9092.8	12568.4	345.90 ug/L	345.90 ppb	02:56:36
3	V 292.402†	10635.3	12266.4	73.848 ug/L	73.848 ppb	02:56:41
3	Zn 213.857†	37703.6	36852.1	344.47 ug/L	344.47 ppb	02:56:41
3	SiO2†	694057.7	690422.4	46033 ug/L	46033 ppb	02:57:18

Mean Data: 1202030970|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	851823.3	100.21	%	0.567				0.57%
Sc Radial	4119.1	96.9	%	0.14				0.14%
Y 371.029	804496.2	114.48	%	0.763				0.67%
Y RADIAL	5073.3	115.2	%	1.99				1.72%
Ag 328.068†	-5269.6	6.8110	ug/L	0.39637	6.8110	ppb	0.39637	5.82%
Al 396.153Radial†	31821.4	31834	ug/L	403.7	31834	ppb	403.7	1.27%
As 188.979†	-13.1	31.635	ug/L	2.7818	31.635	ppb	2.7818	8.79%
B 249.677†	1079.3	9.8243	ug/L	1.11705	9.8243	ppb	1.11705	11.37%
Ba 233.527†	55348.5	452.51	ug/L	3.393	452.51	ppb	3.393	0.75%
Be 313.107†	15806.2	9.6848	ug/L	0.04762	9.6848	ppb	0.04762	0.49%
Ca 317.933Radial†	5570.1	10390	ug/L	132.8	10390	ppb	132.8	1.28%
Cd 226.502†	728.0	-1.2252	ug/L	0.25727	-1.2252	ppb	0.25727	21.00%
Co 228.616†	1426.7	24.976	ug/L	0.2240	24.976	ppb	0.2240	0.90%
Cr 267.716†	7413.0	88.081	ug/L	0.2041	88.081	ppb	0.2041	0.23%
Cu 324.752†	106246.8	330.15	ug/L	2.394	330.15	ppb	2.394	0.73%
Fe 238.204 Radial†	8970.3	95334	ug/L	1024.5	95334	ppb	1024.5	1.07%
K 766.490 Radial†	22263.2	4489.5	ug/L	74.06	4489.5	ppb	74.06	1.65%

Mg 279.077 IEC†	164.0	6233.9	ug/L	59.79	6233.9	ppb	59.79	0.96%
Mn 257.610†	1811751.8	2098.8	ug/L	3.93	2098.8	ppb	3.93	0.19%
Mo 202.031†	16.4	8.7445	ug/L	0.32958	8.7445	ppb	0.32958	3.77%
Na 589.592 Radial†	2452.1	817.91	ug/L	32.750	817.91	ppb	32.750	4.00%
Ni 231.604†	2438.9	62.452	ug/L	0.2076	62.452	ppb	0.2076	0.33%
P 214.914†	739.4	276.74	ug/L	4.740	276.74	ppb	4.740	1.71%
Pb 220.353†	2399.0	294.88	ug/L	2.680	294.88	ppb	2.680	0.91%
S 181.975 Axial†	102.4	127.91	ug/L	6.166	127.91	ppb	6.166	4.82%
Sb 206.836†	50.9	9.9338	ug/L	0.99192	9.9338	ppb	0.99192	9.99%
Se 196.026†	-418.1	64.307	ug/L	0.5186	64.307	ppb	0.5186	0.81%
Si 251.611†	692265.9	21573	ug/L	44.3	21573	ppb	44.3	0.21%
Sn 189.927†	-24.4	-1.1837	ug/L	2.22724	-1.1837	ppb	2.22724	188.16%
Sr 421.552†	9585.9	73.938	ug/L	1.0398	73.938	ppb	1.0398	1.41%
Ti 334.940†	1051260.5	1709.3	ug/L	1.84	1709.3	ppb	1.84	0.11%
Tl 190.801†	-76.6	-0.2955	ug/L	1.08825	-0.2955	ppb	1.08825	368.28%
U 409.014†	12485.0	343.60	ug/L	2.003	343.60	ppb	2.003	0.58%
V 292.402†	12327.5	74.377	ug/L	0.8549	74.377	ppb	0.8549	1.15%
Zn 213.857†	37117.9	347.16	ug/L	2.823	347.16	ppb	2.823	0.81%
SiO2†	690618.0	46046	ug/L	786.3	46046	ppb	786.3	1.71%

Sequence No.: 90
Sample ID: 1202030972|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 107
Date Collected: 2/17/2010 02:59:30
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030972|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4220.9	4220.9	99.3	%			03:01:44
1	Y RADIAL	5196.2	5196.2	118.0	%			03:01:44
1	Al 396.153Radial†	73554.3	74236.8	74244	ug/L	74244	ppb	03:01:24
1	Ca 317.933Radial†	8417.0	8458.6	15778	ug/L	15778	ppb	03:01:24
1	Fe 238.204 Radial†	9909.5	9969.9	105970	ug/L	105970	ppb	03:01:24
1	K 766.490 Radial†	59771.8	57025.6	11503	ug/L	11503	ppb	03:01:24
1	Mg 279.077 IEC†	390.7	390.8	14986	ug/L	14986	ppb	03:01:44
1	Na 589.592 Radial†	15787.2	15692.5	5234.4	ug/L	5234.4	ppb	03:01:24
1	Sr 421.552†	70565.4	70977.7	547.92	ug/L	547.92	ppb	03:01:24
1	Sc 361.383	849326.2	849326.2	99.920	%			03:02:43
1	Y 371.029	827087.8	827087.8	117.70	%			03:02:43
1	Ag 328.068†	94728.1	94576.6	491.23	ug/L	491.23	ppb	03:02:43
1	As 188.979†	1094.9	1124.1	520.54	ug/L	520.54	ppb	03:03:03
1	B 249.677†	21136.1	21635.0	490.37	ug/L	490.37	ppb	03:02:43
1	Ba 233.527†	132846.4	132934.3	1083.9	ug/L	1083.9	ppb	03:02:43
1	Be 313.107†	1355020.6	1360448.7	505.95	ug/L	505.95	ppb	03:02:43
1	Cd 226.502†	39361.4	39588.6	452.53	ug/L	452.53	ppb	03:03:03
1	Co 228.616†	23636.3	23734.2	488.98	ug/L	488.98	ppb	03:03:03
1	Cr 267.716†	48479.2	48368.4	565.23	ug/L	565.23	ppb	03:02:43
1	Cu 324.752†	2179094.8	2172751.9	6657.4	ug/L	6657.4	ppb	03:02:43
1	Mn 257.610†	2190660.6	2191851.5	2537.9	ug/L	2537.9	ppb	03:02:43
1	Mo 202.031†	6146.2	6140.7	464.71	ug/L	464.71	ppb	03:03:03
1	Ni 231.604†	20778.8	20682.0	529.45	ug/L	529.45	ppb	03:03:03
1	P 214.914†	3831.4	3592.5	610.10	ug/L	610.10	ppb	03:03:03
1	Pb 220.353†	6397.9	6476.6	805.64	ug/L	805.64	ppb	03:03:03
1	S 181.975 Axial†	3980.9	3941.2	5137.1	ug/L	5137.1	ppb	03:03:03
1	Sb 206.836†	1339.3	1304.7	448.78	ug/L	448.78	ppb	03:03:03
1	Se 196.026†	357.9	381.6	567.84	ug/L	567.84	ppb	03:03:03
1	Si 251.611†	910909.9	911029.7	28384	ug/L	28384	ppb	03:02:43
1	Sn 189.927†	2908.1	2897.8	523.79	ug/L	523.79	ppb	03:03:03
1	Ti 334.940†	1690474.2	1693325.6	2752.5	ug/L	2752.5	ppb	03:02:43
1	Tl 190.801†	1377.4	1417.6	479.11	ug/L	479.11	ppb	03:03:03
1	U 409.014†	28411.2	31949.2	894.25	ug/L	894.25	ppb	03:02:43
1	V 292.402†	76934.5	78673.6	559.74	ug/L	559.74	ppb	03:02:43
1	Zn 213.857†	90916.0	90301.3	853.10	ug/L	853.10	ppb	03:02:43
1	SiO2†	902681.6	902787.5	60179	ug/L	60179	ppb	03:04:04
2	Sc Radial	4185.8	4185.8	98.5	%			03:02:09
2	Y RADIAL	5167.3	5167.3	117.4	%			03:02:09
2	Al 396.153Radial†	73910.5	75218.9	75226	ug/L	75226	ppb	03:01:49
2	Ca 317.933Radial†	8453.1	8566.2	15979	ug/L	15979	ppb	03:01:49
2	Fe 238.204 Radial†	9909.1	10053.1	106860	ug/L	106860	ppb	03:01:49
2	K 766.490 Radial†	60090.1	57852.8	11670	ug/L	11670	ppb	03:01:49
2	Mg 279.077 IEC†	384.2	387.4	14856	ug/L	14856	ppb	03:02:09
2	Na 589.592 Radial†	15821.4	15860.3	5290.4	ug/L	5290.4	ppb	03:01:49
2	Sr 421.552†	70796.5	71807.5	554.33	ug/L	554.33	ppb	03:01:49
2	Sc 361.383	845219.4	845219.4	99.437	%			03:03:10
2	Y 371.029	823193.8	823193.8	117.14	%			03:03:10
2	Ag 328.068†	94270.8	94577.3	491.53	ug/L	491.53	ppb	03:03:10
2	As 188.979†	1105.1	1139.7	527.32	ug/L	527.32	ppb	03:03:30
2	B 249.677†	21004.3	21605.2	489.52	ug/L	489.52	ppb	03:03:10
2	Ba 233.527†	132157.7	132887.7	1083.5	ug/L	1083.5	ppb	03:03:10
2	Be 313.107†	1345912.7	1357878.4	505.01	ug/L	505.01	ppb	03:03:10
2	Cd 226.502†	39416.9	39835.8	455.33	ug/L	455.33	ppb	03:03:30
2	Co 228.616†	23643.8	23856.6	491.52	ug/L	491.52	ppb	03:03:30
2	Cr 267.716†	48101.5	48224.4	563.57	ug/L	563.57	ppb	03:03:10
2	Cu 324.752†	2167606.7	2171795.2	6654.6	ug/L	6654.6	ppb	03:03:10
2	Mn 257.610†	2178284.9	2190058.3	2535.9	ug/L	2535.9	ppb	03:03:10
2	Mo 202.031†	6117.2	6141.4	464.83	ug/L	464.83	ppb	03:03:30
2	Ni 231.604†	20799.8	20804.2	532.58	ug/L	532.58	ppb	03:03:30

2	P 214.914†	3791.8	3571.3	598.46	ug/L	598.46 ppb	03:03:30
2	Pb 220.353†	6405.4	6515.2	810.56	ug/L	810.56 ppb	03:03:30
2	S 181.975 Axial†	3968.8	3948.4	5146.2	ug/L	5146.2 ppb	03:03:30
2	Sb 206.836†	1339.6	1311.5	451.09	ug/L	451.09 ppb	03:03:30
2	Se 196.026†	378.0	403.4	583.50	ug/L	583.50 ppb	03:03:30
2	Si 251.611†	905825.7	910346.2	28363	ug/L	28363 ppb	03:03:10
2	Sn 189.927†	2911.1	2915.0	526.91	ug/L	526.91 ppb	03:03:30
2	Ti 334.940†	1682492.3	1693519.0	2752.8	ug/L	2752.8 ppb	03:03:10
2	Tl 190.801†	1382.3	1429.3	482.76	ug/L	482.76 ppb	03:03:30
2	U 409.014†	28145.3	31820.0	890.48	ug/L	890.48 ppb	03:03:10
2	V 292.402†	76467.4	78578.0	558.91	ug/L	558.91 ppb	03:03:10
2	Zn 213.857†	90336.7	90160.8	851.58	ug/L	851.58 ppb	03:03:10
2	SiO2†	916206.6	920778.7	61379	ug/L	61379 ppb	03:04:10
3	Sc Radial	4186.0	4186.0	98.5	%		03:02:34
3	Y RADIAL	5169.6	5169.6	117.4	%		03:02:34
3	Al 396.153Radial†	73824.4	75128.7	75136	ug/L	75136 ppb	03:02:14
3	Ca 317.933Radial†	8454.7	8567.6	15982	ug/L	15982 ppb	03:02:14
3	Fe 238.204 Radial†	9916.3	10060.1	106930	ug/L	106930 ppb	03:02:14
3	K 766.490 Radial†	59941.6	57699.9	11639	ug/L	11639 ppb	03:02:14
3	Mg 279.077 IEC†	388.2	391.5	15013	ug/L	15013 ppb	03:02:34
3	Na 589.592 Radial†	15793.8	15831.8	5280.8	ug/L	5280.8 ppb	03:02:14
3	Sr 421.552†	70580.5	71585.6	552.61	ug/L	552.61 ppb	03:02:14
3	Sc 361.383	844483.4	844483.4	99.350	%		03:03:38
3	Y 371.029	823693.7	823693.7	117.21	%		03:03:38
3	Ag 328.068†	93863.9	94250.4	489.99	ug/L	489.99 ppb	03:03:38
3	As 188.979†	1102.3	1137.9	526.51	ug/L	526.51 ppb	03:03:58
3	B 249.677†	20907.6	21526.3	487.64	ug/L	487.64 ppb	03:03:38
3	Ba 233.527†	131970.5	132815.2	1082.9	ug/L	1082.9 ppb	03:03:38
3	Be 313.107†	1346748.3	1359899.2	505.73	ug/L	505.73 ppb	03:03:38
3	Cd 226.502†	39597.8	40052.4	457.85	ug/L	457.85 ppb	03:03:58
3	Co 228.616†	23716.0	23950.0	493.49	ug/L	493.49 ppb	03:03:58
3	Cr 267.716†	48187.5	48353.1	565.07	ug/L	565.07 ppb	03:03:38
3	Cu 324.752†	2159087.9	2165120.6	6634.1	ug/L	6634.1 ppb	03:03:38
3	Mn 257.610†	2173816.9	2187470.3	2532.9	ug/L	2532.9 ppb	03:03:38
3	Mo 202.031†	6148.4	6178.2	467.57	ug/L	467.57 ppb	03:03:58
3	Ni 231.604†	20833.6	20856.4	533.92	ug/L	533.92 ppb	03:03:58
3	P 214.914†	3819.1	3602.1	619.55	ug/L	619.55 ppb	03:03:58
3	Pb 220.353†	6454.7	6570.5	817.39	ug/L	817.39 ppb	03:03:58
3	S 181.975 Axial†	3984.0	3967.1	5170.8	ug/L	5170.8 ppb	03:03:58
3	Sb 206.836†	1348.7	1321.8	454.66	ug/L	454.66 ppb	03:03:58
3	Se 196.026†	355.1	380.8	570.51	ug/L	570.51 ppb	03:03:58
3	Si 251.611†	903439.9	908738.7	28313	ug/L	28313 ppb	03:03:38
3	Sn 189.927†	2912.3	2918.8	527.59	ug/L	527.59 ppb	03:03:58
3	Ti 334.940†	1677338.2	1689805.8	2746.8	ug/L	2746.8 ppb	03:03:38
3	Tl 190.801†	1363.0	1411.1	476.94	ug/L	476.94 ppb	03:03:58
3	U 409.014†	27862.7	31560.2	883.09	ug/L	883.09 ppb	03:03:38
3	V 292.402†	76369.7	78546.7	558.70	ug/L	558.70 ppb	03:03:38
3	Zn 213.857†	90170.5	90072.8	850.72	ug/L	850.72 ppb	03:03:38
3	SiO2†	901084.4	906360.6	60417	ug/L	60417 ppb	03:04:16

Mean Data: 1202030972|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	846343.0	99.569	%	0.3070				0.31%
Sc Radial	4197.5	98.7	%	0.48				0.48%
Y 371.029	824658.4	117.35	%	0.301				0.26%
Y RADIAL	5177.7	117.6	%	0.36				0.31%
Ag 328.068†	94468.1	490.91	ug/L	0.816	490.91	ppb	0.816	0.17%
Al 396.153Radial†	74861.5	74868	ug/L	543.0	74868	ppb	543.0	0.73%
As 188.979†	1133.9	524.79	ug/L	3.702	524.79	ppb	3.702	0.71%
B 249.677†	21588.8	489.18	ug/L	1.394	489.18	ppb	1.394	0.29%
Ba 233.527†	132879.1	1083.4	ug/L	0.47	1083.4	ppb	0.47	0.04%
Be 313.107†	1359408.8	505.56	ug/L	0.494	505.56	ppb	0.494	0.10%
Ca 317.933Radial†	8530.8	15913	ug/L	116.7	15913	ppb	116.7	0.73%
Cd 226.502†	39825.6	455.24	ug/L	2.664	455.24	ppb	2.664	0.59%
Co 228.616†	23846.9	491.33	ug/L	2.258	491.33	ppb	2.258	0.46%
Cr 267.716†	48315.3	564.62	ug/L	0.915	564.62	ppb	0.915	0.16%
Cu 324.752†	2169889.2	6648.7	ug/L	12.71	6648.7	ppb	12.71	0.19%
Fe 238.204 Radial†	10027.7	106590	ug/L	533.1	106590	ppb	533.1	0.50%
K 766.490 Radial†	57526.1	11604	ug/L	88.8	11604	ppb	88.8	0.77%

Mg 279.077 IEC†	389.9	14952	ug/L	84.1	14952	ppb	84.1	0.56%
Mn 257.610†	2189793.3	2535.6	ug/L	2.50	2535.6	ppb	2.50	0.10%
Mo 202.031†	6153.4	465.70	ug/L	1.619	465.70	ppb	1.619	0.35%
Na 589.592 Radial†	15794.9	5268.5	ug/L	29.96	5268.5	ppb	29.96	0.57%
Ni 231.604†	20780.8	531.98	ug/L	2.291	531.98	ppb	2.291	0.43%
P 214.914†	3588.6	609.37	ug/L	10.564	609.37	ppb	10.564	1.73%
Pb 220.353†	6520.8	811.20	ug/L	5.901	811.20	ppb	5.901	0.73%
S 181.975 Axial†	3952.2	5151.4	ug/L	17.44	5151.4	ppb	17.44	0.34%
Sb 206.836†	1312.7	451.51	ug/L	2.965	451.51	ppb	2.965	0.66%
Se 196.026†	388.6	573.95	ug/L	8.374	573.95	ppb	8.374	1.46%
Si 251.611†	910038.2	28353	ug/L	36.7	28353	ppb	36.7	0.13%
Sn 189.927†	2910.5	526.10	ug/L	2.026	526.10	ppb	2.026	0.39%
Sr 421.552†	71456.9	551.62	ug/L	3.316	551.62	ppb	3.316	0.60%
Ti 334.940†	1692216.8	2750.7	ug/L	3.39	2750.7	ppb	3.39	0.12%
Tl 190.801†	1419.3	479.61	ug/L	2.939	479.61	ppb	2.939	0.61%
U 409.014†	31776.5	889.27	ug/L	5.677	889.27	ppb	5.677	0.64%
V 292.402†	78599.4	559.12	ug/L	0.548	559.12	ppb	0.548	0.10%
Zn 213.857†	90178.3	851.80	ug/L	1.201	851.80	ppb	1.201	0.14%
SiO2†	909975.6	60658	ug/L	635.1	60658	ppb	635.1	1.05%

Sequence No.: 91
Sample ID: 1202030973|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 108
Date Collected: 2/17/2010 03:06:28
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030973|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4088.5	4088.5	96.2	%			03:08:42
1	Y RADIAL	5133.1	5133.1	116.6	%			03:08:22
1	Al 396.153Radial†	66758.3	69569.0	69574	ug/L	69574	ppb	03:08:22
1	Ca 317.933Radial†	7939.3	8236.4	15364	ug/L	15364	ppb	03:08:22
1	Fe 238.204 Radial†	9194.6	9549.7	101510	ug/L	101510	ppb	03:08:22
1	K 766.490 Radial†	56859.9	55946.8	11285	ug/L	11285	ppb	03:08:22
1	Mg 279.077 IEC†	354.4	365.8	14026	ug/L	14026	ppb	03:08:42
1	Na 589.592 Radial†	16213.8	16650.7	5554.0	ug/L	5554.0	ppb	03:08:22
1	Sr 421.552†	70953.0	73681.5	568.80	ug/L	568.80	ppb	03:08:22
1	Sc 361.383	846903.4	846903.4	99.635	%			03:09:41
1	Y 371.029	806845.0	806845.0	114.82	%			03:09:41
1	Ag 328.068†	95405.9	95528.0	494.34	ug/L	494.34	ppb	03:09:41
1	As 188.979†	1095.7	1128.0	518.52	ug/L	518.52	ppb	03:10:01
1	B 249.677†	21107.4	21666.7	491.83	ug/L	491.83	ppb	03:09:41
1	Ba 233.527†	114585.4	114986.7	937.98	ug/L	937.98	ppb	03:09:41
1	Be 313.107†	1354132.7	1363437.1	506.37	ug/L	506.37	ppb	03:09:41
1	Cd 226.502†	39449.2	39789.3	455.33	ug/L	455.33	ppb	03:10:01
1	Co 228.616†	23753.2	23919.2	493.46	ug/L	493.46	ppb	03:10:01
1	Cr 267.716†	51727.5	51767.4	604.71	ug/L	604.71	ppb	03:09:41
1	Cu 324.752†	369828.8	363090.7	1116.6	ug/L	1116.6	ppb	03:09:41
1	Mn 257.610†	1970880.0	1977536.9	2290.3	ug/L	2290.3	ppb	03:09:41
1	Mo 202.031†	6220.6	6233.0	471.21	ug/L	471.21	ppb	03:10:01
1	Ni 231.604†	21433.9	21399.0	547.82	ug/L	547.82	ppb	03:10:01
1	P 214.914†	2086.4	1852.1	747.05	ug/L	747.05	ppb	03:10:01
1	Pb 220.353†	6599.1	6696.9	835.56	ug/L	835.56	ppb	03:10:01
1	S 181.975 Axial†	3917.1	3888.5	5069.1	ug/L	5069.1	ppb	03:10:01
1	Sb 206.836†	1374.3	1343.6	462.76	ug/L	462.76	ppb	03:10:01
1	Se 196.026†	393.1	417.9	574.51	ug/L	574.51	ppb	03:10:01
1	Si 251.611†	920651.9	923415.4	28770	ug/L	28770	ppb	03:09:41
1	Sn 189.927†	2724.3	2721.7	492.07	ug/L	492.07	ppb	03:10:01
1	Ti 334.940†	1502036.1	1509036.5	2453.0	ug/L	2453.0	ppb	03:09:41
1	Tl 190.801†	1398.5	1442.7	483.35	ug/L	483.35	ppb	03:10:01
1	U 409.014†	25412.1	29020.4	811.47	ug/L	811.47	ppb	03:09:41
1	V 292.402†	75841.7	77797.1	554.26	ug/L	554.26	ppb	03:09:41
1	Zn 213.857†	85557.5	85183.4	811.19	ug/L	811.19	ppb	03:09:41
1	SiO2†	921177.2	923935.3	61589	ug/L	61589	ppb	03:11:02
2	Sc Radial	4109.8	4109.8	96.7	%			03:09:07
2	Y RADIAL	5100.4	5100.4	115.9	%			03:08:47
2	Al 396.153Radial†	66587.3	69032.4	69037	ug/L	69037	ppb	03:08:47
2	Ca 317.933Radial†	7924.1	8177.9	15255	ug/L	15255	ppb	03:08:47
2	Fe 238.204 Radial†	9139.0	9442.7	100370	ug/L	100370	ppb	03:08:47
2	K 766.490 Radial†	56780.2	55558.0	11207	ug/L	11207	ppb	03:08:47
2	Mg 279.077 IEC†	358.1	367.7	14101	ug/L	14101	ppb	03:09:07
2	Na 589.592 Radial†	16138.1	16485.1	5498.8	ug/L	5498.8	ppb	03:08:47
2	Sr 421.552†	70494.2	72824.6	562.19	ug/L	562.19	ppb	03:08:47
2	Sc 361.383	846722.6	846722.6	99.613	%			03:10:08
2	Y 371.029	808420.9	808420.9	115.04	%			03:10:08
2	Ag 328.068†	95426.5	95569.2	494.15	ug/L	494.15	ppb	03:10:08
2	As 188.979†	1110.3	1142.9	524.51	ug/L	524.51	ppb	03:10:28
2	B 249.677†	21165.4	21729.4	493.49	ug/L	493.49	ppb	03:10:08
2	Ba 233.527†	114246.8	114671.4	935.39	ug/L	935.39	ppb	03:10:08
2	Be 313.107†	1355912.3	1365513.8	507.12	ug/L	507.12	ppb	03:10:08
2	Cd 226.502†	39472.6	39821.3	455.83	ug/L	455.83	ppb	03:10:28
2	Co 228.616†	23752.7	23923.8	493.58	ug/L	493.58	ppb	03:10:28
2	Cr 267.716†	51612.1	51662.7	603.47	ug/L	603.47	ppb	03:10:08
2	Cu 324.752†	369486.8	362826.7	1115.7	ug/L	1115.7	ppb	03:10:08
2	Mn 257.610†	1965490.7	1972549.1	2284.4	ug/L	2284.4	ppb	03:10:08
2	Mo 202.031†	6215.5	6229.1	470.83	ug/L	470.83	ppb	03:10:28
2	Ni 231.604†	21413.3	21382.9	547.40	ug/L	547.40	ppb	03:10:28

2	P 214.914†	2078.6	1844.6	743.78	ug/L	743.78 ppb	03:10:28
2	Pb 220.353†	6592.1	6691.3	834.86	ug/L	834.86 ppb	03:10:28
2	S 181.975 Axial†	3911.8	3884.1	5063.4	ug/L	5063.4 ppb	03:10:28
2	Sb 206.836†	1368.7	1338.3	460.88	ug/L	460.88 ppb	03:10:28
2	Se 196.026†	393.9	418.7	571.32	ug/L	571.32 ppb	03:10:28
2	Si 251.611†	918432.9	921385.1	28707	ug/L	28707 ppb	03:10:08
2	Sn 189.927†	2684.0	2681.8	484.88	ug/L	484.88 ppb	03:10:28
2	Ti 334.940†	1498842.4	1506152.4	2448.3	ug/L	2448.3 ppb	03:10:08
2	Tl 190.801†	1391.7	1436.2	481.22	ug/L	481.22 ppb	03:10:28
2	U 409.014†	25598.9	29213.4	817.08	ug/L	817.08 ppb	03:10:08
2	V 292.402†	75934.3	77906.3	555.23	ug/L	555.23 ppb	03:10:08
2	Zn 213.857†	85243.7	84886.8	808.47	ug/L	808.47 ppb	03:10:08
2	SiO2†	917849.1	920791.8	61379	ug/L	61379 ppb	03:11:08
3	Sc Radial	4106.1	4106.1	96.6	%		03:09:32
3	Y RADIAL	5148.7	5148.7	117.0	%		03:09:12
3	Al 396.153Radial†	66851.3	69367.5	69372	ug/L	69372 ppb	03:09:12
3	Ca 317.933Radial†	7927.9	8189.1	15276	ug/L	15276 ppb	03:09:12
3	Fe 238.204 Radial†	9221.1	9536.2	101360	ug/L	101360 ppb	03:09:12
3	K 766.490 Radial†	56936.1	55772.1	11250	ug/L	11250 ppb	03:09:12
3	Mg 279.077 IEC†	362.8	372.9	14300	ug/L	14300 ppb	03:09:32
3	Na 589.592 Radial†	16265.3	16631.7	5547.7	ug/L	5547.7 ppb	03:09:12
3	Sr 421.552†	70932.9	73344.3	566.20	ug/L	566.20 ppb	03:09:12
3	Sc 361.383	853380.0	853380.0	100.40	%		03:10:36
3	Y 371.029	813695.2	813695.2	115.79	%		03:10:36
3	Ag 328.068†	95980.7	95373.8	493.55	ug/L	493.55 ppb	03:10:36
3	As 188.979†	1096.1	1120.1	515.16	ug/L	515.16 ppb	03:10:56
3	B 249.677†	21456.1	21853.2	496.24	ug/L	496.24 ppb	03:10:36
3	Ba 233.527†	115245.2	114771.1	936.23	ug/L	936.23 ppb	03:10:36
3	Be 313.107†	1367318.1	1366255.7	507.39	ug/L	507.39 ppb	03:10:36
3	Cd 226.502†	39620.4	39659.3	453.83	ug/L	453.83 ppb	03:10:56
3	Co 228.616†	23875.6	23860.1	492.23	ug/L	492.23 ppb	03:10:56
3	Cr 267.716†	52050.2	51694.9	603.86	ug/L	603.86 ppb	03:10:36
3	Cu 324.752†	372967.7	363400.2	1117.5	ug/L	1117.5 ppb	03:10:36
3	Mn 257.610†	1982081.8	1973681.9	2285.8	ug/L	2285.8 ppb	03:10:36
3	Mo 202.031†	6255.8	6220.6	470.28	ug/L	470.28 ppb	03:10:56
3	Ni 231.604†	21542.7	21344.1	546.41	ug/L	546.41 ppb	03:10:56
3	P 214.914†	2080.4	1830.2	734.72	ug/L	734.72 ppb	03:10:56
3	Pb 220.353†	6646.1	6693.4	835.09	ug/L	835.09 ppb	03:10:56
3	S 181.975 Axial†	3934.9	3876.4	5053.3	ug/L	5053.3 ppb	03:10:56
3	Sb 206.836†	1350.3	1309.3	451.04	ug/L	451.04 ppb	03:10:56
3	Se 196.026†	389.6	411.4	570.27	ug/L	570.27 ppb	03:10:56
3	Si 251.611†	926262.1	921990.6	28726	ug/L	28726 ppb	03:10:36
3	Sn 189.927†	2713.2	2689.9	486.35	ug/L	486.35 ppb	03:10:56
3	Ti 334.940†	1511581.7	1507103.2	2449.8	ug/L	2449.8 ppb	03:10:36
3	Tl 190.801†	1405.0	1438.5	481.99	ug/L	481.99 ppb	03:10:56
3	U 409.014†	25469.1	28883.6	807.60	ug/L	807.60 ppb	03:10:36
3	V 292.402†	76276.4	77652.3	553.22	ug/L	553.22 ppb	03:10:36
3	Zn 213.857†	85876.0	84849.0	807.96	ug/L	807.96 ppb	03:10:36
3	SiO2†	924741.1	920468.4	61358	ug/L	61358 ppb	03:11:14

Mean Data: 1202030973|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	849002.0	99.882	%	0.4462				0.45%
Sc Radial	4101.5	96.5	%	0.27				0.28%
Y 371.029	809653.7	115.22	%	0.511				0.44%
Y RADIAL	5127.4	116.5	%	0.56				0.48%
Ag 328.068†	95490.4	494.01	ug/L	0.412	494.01	ppb	0.412	0.08%
Al 396.153Radial†	69323.0	69328	ug/L	271.2	69328	ppb	271.2	0.39%
As 188.979†	1130.4	519.40	ug/L	4.737	519.40	ppb	4.737	0.91%
B 249.677†	21749.8	493.85	ug/L	2.230	493.85	ppb	2.230	0.45%
Ba 233.527†	114809.7	936.53	ug/L	1.324	936.53	ppb	1.324	0.14%
Be 313.107†	1365068.9	506.96	ug/L	0.532	506.96	ppb	0.532	0.10%
Ca 317.933Radial†	8201.1	15298	ug/L	57.9	15298	ppb	57.9	0.38%
Cd 226.502†	39756.6	454.99	ug/L	1.041	454.99	ppb	1.041	0.23%
Co 228.616†	23901.0	493.09	ug/L	0.745	493.09	ppb	0.745	0.15%
Cr 267.716†	51708.3	604.01	ug/L	0.634	604.01	ppb	0.634	0.11%
Cu 324.752†	363105.9	1116.6	ug/L	0.91	1116.6	ppb	0.91	0.08%
Fe 238.204 Radial†	9509.6	101080	ug/L	619.3	101080	ppb	619.3	0.61%
K 766.490 Radial†	55759.0	11247	ug/L	39.3	11247	ppb	39.3	0.35%

Mg 279.077 IEC†	368.8	14142	ug/L	141.6	14142	ppb	141.6	1.00%
Mn 257.610†	1974589.3	2286.9	ug/L	3.07	2286.9	ppb	3.07	0.13%
Mo 202.031†	6227.6	470.78	ug/L	0.469	470.78	ppb	0.469	0.10%
Na 589.592 Radial†	16589.2	5533.5	ug/L	30.24	5533.5	ppb	30.24	0.55%
Ni 231.604†	21375.3	547.21	ug/L	0.723	547.21	ppb	0.723	0.13%
P 214.914†	1842.3	741.85	ug/L	6.388	741.85	ppb	6.388	0.86%
Pb 220.353†	6693.9	835.17	ug/L	0.358	835.17	ppb	0.358	0.04%
S 181.975 Axial†	3883.0	5061.9	ug/L	8.00	5061.9	ppb	8.00	0.16%
Sb 206.836†	1330.4	458.23	ug/L	6.293	458.23	ppb	6.293	1.37%
Se 196.026†	416.0	572.03	ug/L	2.209	572.03	ppb	2.209	0.39%
Si 251.611†	922263.7	28734	ug/L	32.5	28734	ppb	32.5	0.11%
Sn 189.927†	2697.8	487.76	ug/L	3.797	487.76	ppb	3.797	0.78%
Sr 421.552†	73283.5	565.73	ug/L	3.333	565.73	ppb	3.333	0.59%
Ti 334.940†	1507430.7	2450.4	ug/L	2.40	2450.4	ppb	2.40	0.10%
Tl 190.801†	1439.1	482.19	ug/L	1.078	482.19	ppb	1.078	0.22%
U 409.014†	29039.2	812.05	ug/L	4.768	812.05	ppb	4.768	0.59%
V 292.402†	77785.3	554.24	ug/L	1.005	554.24	ppb	1.005	0.18%
Zn 213.857†	84973.1	809.21	ug/L	1.738	809.21	ppb	1.738	0.21%
SiO2†	921731.9	61442	ug/L	127.7	61442	ppb	127.7	0.21%

Sequence No.: 92
Sample ID: 1202030971|948071|5
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 2/17/2010 03:13:26
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030971|948071|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4202.6	4202.6	98.9	%			03:15:19
1	Y RADIAL	4425.4	4425.4	100.5	%			03:15:19
1	Al 396.153Radial†	6265.7	6496.7	6499.2	ug/L	6499.2	ppb	03:15:19
1	Ca 317.933Radial†	1185.6	1180.9	2202.8	ug/L	2202.8	ppb	03:15:39
1	Fe 238.204 Radial†	1785.3	1795.8	19085	ug/L	19085	ppb	03:15:39
1	K 766.490 Radial†	7331.4	4244.0	855.79	ug/L	855.79	ppb	03:15:19
1	Mg 279.077 IEC†	35.1	32.8	1245.3	ug/L	1245.3	ppb	03:15:39
1	Na 589.592 Radial†	489.2	287.8	95.988	ug/L	95.988	ppb	03:15:19
1	Sr 421.552†	2073.2	2007.2	15.482	ug/L	15.482	ppb	03:15:19
1	Sc 361.383	830375.2	830375.2	97.690	%			03:16:36
1	Y 371.029	693269.9	693269.9	98.654	%			03:16:36
1	Ag 328.068†	-747.8	-993.2	1.6112	ug/L	1.6112	ppb	03:16:36
1	As 188.979†	-28.7	-1.1	7.0941	ug/L	7.0941	ppb	03:16:57
1	B 249.677†	-65.1	415.3	6.6493	ug/L	6.6493	ppb	03:16:36
1	Ba 233.527†	12132.7	12400.7	101.31	ug/L	101.31	ppb	03:16:36
1	Be 313.107†	-456.3	3872.0	2.2259	ug/L	2.2259	ppb	03:16:36
1	Cd 226.502†	-38.4	156.2	-0.1080	ug/L	-0.1080	ppb	03:16:57
1	Co 228.616†	270.8	356.1	6.4463	ug/L	6.4463	ppb	03:16:57
1	Cr 267.716†	2378.5	2285.1	26.929	ug/L	26.929	ppb	03:16:36
1	Cu 324.752†	82392.3	76246.3	234.38	ug/L	234.38	ppb	03:16:36
1	Mn 257.610†	339792.6	347257.0	402.35	ug/L	402.35	ppb	03:16:36
1	Mo 202.031†	15.2	5.1	1.8852	ug/L	1.8852	ppb	03:16:57
1	Ni 231.604†	767.0	671.6	17.198	ug/L	17.198	ppb	03:16:57
1	P 214.914†	464.5	233.5	69.429	ug/L	69.429	ppb	03:16:57
1	Pb 220.353†	9024.5	9311.4	1152.9	ug/L	1152.9	ppb	03:16:36
1	S 181.975 Axial†	76.3	35.2	44.784	ug/L	44.784	ppb	03:16:57
1	Sb 206.836†	70.0	36.0	10.707	ug/L	10.707	ppb	03:16:57
1	Se 196.026†	-110.4	-89.6	9.4202	ug/L	9.4202	ppb	03:16:57
1	Si 251.611†	138895.3	141567.1	4411.6	ug/L	4411.6	ppb	03:16:36
1	Sn 189.927†	15.5	3.2	1.2342	ug/L	1.2342	ppb	03:16:57
1	Ti 334.940†	211325.6	217815.1	354.14	ug/L	354.14	ppb	03:16:36
1	Tl 190.801†	-49.8	-11.9	1.0274	ug/L	1.0274	ppb	03:16:57
1	U 409.014†	1122.7	4664.4	130.27	ug/L	130.27	ppb	03:16:36
1	V 292.402†	877.6	2575.6	15.773	ug/L	15.773	ppb	03:16:36
1	Zn 213.857†	8634.9	8151.3	76.274	ug/L	76.274	ppb	03:16:36
1	SiO2†	140858.2	143569.1	9572.2	ug/L	9572.2	ppb	03:17:53
2	Sc Radial	4221.2	4221.2	99.3	%			03:15:44
2	Y RADIAL	4428.3	4428.3	100.6	%			03:15:44
2	Al 396.153Radial†	6245.9	6448.9	6451.4	ug/L	6451.4	ppb	03:15:44
2	Ca 317.933Radial†	1181.6	1171.6	2185.6	ug/L	2185.6	ppb	03:16:05
2	Fe 238.204 Radial†	1787.8	1790.3	19027	ug/L	19027	ppb	03:16:05
2	K 766.490 Radial†	7335.8	4215.9	850.12	ug/L	850.12	ppb	03:15:44
2	Mg 279.077 IEC†	35.5	33.0	1256.3	ug/L	1256.3	ppb	03:16:05
2	Na 589.592 Radial†	508.2	304.7	101.64	ug/L	101.64	ppb	03:15:44
2	Sr 421.552†	2024.9	1949.4	15.035	ug/L	15.035	ppb	03:15:44
2	Sc 361.383	832291.8	832291.8	97.916	%			03:17:02
2	Y 371.029	695961.7	695961.7	99.037	%			03:17:02
2	Ag 328.068†	-825.2	-1070.5	1.2172	ug/L	1.2172	ppb	03:17:02
2	As 188.979†	-21.9	6.0	10.037	ug/L	10.037	ppb	03:17:22
2	B 249.677†	-173.6	304.6	4.0541	ug/L	4.0541	ppb	03:17:02
2	Ba 233.527†	12101.2	12339.9	100.82	ug/L	100.82	ppb	03:17:02
2	Be 313.107†	-369.3	3962.0	2.2588	ug/L	2.2588	ppb	03:17:02
2	Cd 226.502†	-44.3	150.2	-0.1710	ug/L	-0.1710	ppb	03:17:22
2	Co 228.616†	284.9	369.8	6.7325	ug/L	6.7325	ppb	03:17:22
2	Cr 267.716†	2388.1	2289.3	26.975	ug/L	26.975	ppb	03:17:02
2	Cu 324.752†	82723.0	76389.8	234.81	ug/L	234.81	ppb	03:17:02
2	Mn 257.610†	339447.3	346103.4	401.02	ug/L	401.02	ppb	03:17:02
2	Mo 202.031†	11.4	1.2	1.5903	ug/L	1.5903	ppb	03:17:22
2	Ni 231.604†	752.1	654.6	16.763	ug/L	16.763	ppb	03:17:22

2	P 214.914†	467.7	235.6	70.570 ug/L	70.570 ppb	03:17:22
2	Pb 220.353†	9032.9	9298.8	1151.4 ug/L	1151.4 ppb	03:17:02
2	S 181.975 Axial†	68.7	27.2	34.389 ug/L	34.389 ppb	03:17:22
2	Sb 206.836†	62.7	28.4	8.0915 ug/L	8.0915 ppb	03:17:22
2	Se 196.026†	-96.2	-74.9	17.817 ug/L	17.817 ppb	03:17:22
2	Si 251.611†	138893.4	141237.7	4401.3 ug/L	4401.3 ppb	03:17:02
2	Sn 189.927†	5.3	-7.2	-0.6397 ug/L	-0.6397 ppb	03:17:22
2	Ti 334.940†	211761.5	217762.2	354.05 ug/L	354.05 ppb	03:17:02
2	Tl 190.801†	-50.1	-12.1	0.9650 ug/L	0.9650 ppb	03:17:22
2	U 409.014†	1328.8	4872.3	136.18 ug/L	136.18 ppb	03:17:02
2	V 292.402†	915.9	2612.7	16.058 ug/L	16.058 ppb	03:17:02
2	Zn 213.857†	8627.4	8123.3	76.012 ug/L	76.012 ppb	03:17:02
2	SiO2†	137246.7	139548.7	9304.1 ug/L	9304.1 ppb	03:17:58
3	Sc Radial	4216.0	4216.0	99.2 %		03:16:10
3	Y RADIAL	4468.1	4468.1	101.5 %		03:16:10
3	Al 396.153Radial†	6282.3	6493.4	6495.9 ug/L	6495.9 ppb	03:16:10
3	Ca 317.933Radial†	1174.8	1166.2	2175.4 ug/L	2175.4 ppb	03:16:30
3	Fe 238.204 Radial†	1788.0	1792.8	19053 ug/L	19053 ppb	03:16:30
3	K 766.490 Radial†	7431.8	4321.8	871.51 ug/L	871.51 ppb	03:16:10
3	Mg 279.077 IEC†	35.3	32.8	1248.3 ug/L	1248.3 ppb	03:16:30
3	Na 589.592 Radial†	494.2	291.2	97.144 ug/L	97.144 ppb	03:16:10
3	Sr 421.552†	2024.5	1951.4	15.051 ug/L	15.051 ppb	03:16:10
3	Sc 361.383	834145.5	834145.5	98.134 %		03:17:28
3	Y 371.029	696751.1	696751.1	99.149 %		03:17:28
3	Ag 328.068†	-739.5	-981.3	1.6593 ug/L	1.6593 ppb	03:17:28
3	As 188.979†	-18.3	9.7	11.603 ug/L	11.603 ppb	03:17:48
3	B 249.677†	-108.4	371.4	5.6233 ug/L	5.6233 ppb	03:17:28
3	Ba 233.527†	12141.2	12353.3	100.93 ug/L	100.93 ppb	03:17:28
3	Be 313.107†	-496.1	3833.6	2.2127 ug/L	2.2127 ppb	03:17:28
3	Cd 226.502†	-39.7	155.0	-0.1189 ug/L	-0.1189 ppb	03:17:48
3	Co 228.616†	272.0	356.0	6.4455 ug/L	6.4455 ppb	03:17:48
3	Cr 267.716†	2413.6	2309.8	27.218 ug/L	27.218 ppb	03:17:28
3	Cu 324.752†	82949.1	76432.5	234.95 ug/L	234.95 ppb	03:17:28
3	Mn 257.610†	340470.6	346375.8	401.33 ug/L	401.33 ppb	03:17:28
3	Mo 202.031†	24.1	14.1	2.5507 ug/L	2.5507 ppb	03:17:48
3	Ni 231.604†	771.1	672.2	17.214 ug/L	17.214 ppb	03:17:48
3	P 214.914†	447.0	213.6	58.289 ug/L	58.289 ppb	03:17:48
3	Pb 220.353†	9070.4	9316.5	1153.6 ug/L	1153.6 ppb	03:17:28
3	S 181.975 Axial†	70.8	29.2	36.980 ug/L	36.980 ppb	03:17:48
3	Sb 206.836†	84.7	50.6	15.659 ug/L	15.659 ppb	03:17:48
3	Se 196.026†	-107.0	-85.7	11.603 ug/L	11.603 ppb	03:17:48
3	Si 251.611†	139632.2	141675.3	4414.9 ug/L	4414.9 ppb	03:17:28
3	Sn 189.927†	12.1	-0.3	0.5957 ug/L	0.5957 ppb	03:17:48
3	Ti 334.940†	212520.4	218054.9	354.53 ug/L	354.53 ppb	03:17:28
3	Tl 190.801†	-51.1	-13.0	0.6813 ug/L	0.6813 ppb	03:17:48
3	U 409.014†	1047.8	4582.9	127.96 ug/L	127.96 ppb	03:17:28
3	V 292.402†	861.7	2555.4	15.636 ug/L	15.636 ppb	03:17:28
3	Zn 213.857†	8620.8	8097.0	75.748 ug/L	75.748 ppb	03:17:28
3	SiO2†	139390.8	141422.1	9429.0 ug/L	9429.0 ppb	03:18:03

Mean Data: 1202030971|948071|5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	832270.8	97.913	%	0.2218				0.23%
Sc Radial	4213.2	99.1	%	0.23				0.23%
Y 371.029	695327.6	98.947	%	0.2597				0.26%
Y RADIAL	4440.6	100.9	%	0.54				0.54%
Ag 328.068†	-1015.0	1.4959	ug/L	0.24255	1.4959	ppb	0.24255	16.21%
Al 396.153Radial†	6479.7	6482.2	ug/L	26.69	6482.2	ppb	26.69	0.41%
As 188.979†	4.9	9.5779	ug/L	2.28920	9.5779	ppb	2.28920	23.90%
B 249.677†	363.8	5.4422	ug/L	1.30702	5.4422	ppb	1.30702	24.02%
Ba 233.527†	12364.6	101.02	ug/L	0.260	101.02	ppb	0.260	0.26%
Be 313.107†	3889.2	2.2325	ug/L	0.02372	2.2325	ppb	0.02372	1.06%
Ca 317.933Radial†	1172.9	2187.9	ug/L	13.84	2187.9	ppb	13.84	0.63%
Cd 226.502†	153.8	-0.1326	ug/L	0.03365	-0.1326	ppb	0.03365	25.38%
Co 228.616†	360.7	6.5414	ug/L	0.16551	6.5414	ppb	0.16551	2.53%
Cr 267.716†	2294.7	27.041	ug/L	0.1551	27.041	ppb	0.1551	0.57%
Cu 324.752†	76356.2	234.71	ug/L	0.297	234.71	ppb	0.297	0.13%
Fe 238.204 Radial†	1793.0	19055	ug/L	29.0	19055	ppb	29.0	0.15%
K 766.490 Radial†	4260.6	859.14	ug/L	11.081	859.14	ppb	11.081	1.29%

Mg 279.077 IEC†	32.9	1250.0 ug/L	5.73	1250.0 ppb	5.73	0.46%
Mn 257.610†	346578.7	401.57 ug/L	0.698	401.57 ppb	0.698	0.17%
Mo 202.031†	6.8	2.0087 ug/L	0.49200	2.0087 ppb	0.49200	24.49%
Na 589.592 Radial†	294.6	98.257 ug/L	2.9844	98.257 ppb	2.9844	3.04%
Ni 231.604†	666.1	17.058 ug/L	0.2559	17.058 ppb	0.2559	1.50%
P 214.914†	227.6	66.096 ug/L	6.7852	66.096 ppb	6.7852	10.27%
Pb 220.353†	9308.9	1152.6 ug/L	1.13	1152.6 ppb	1.13	0.10%
S 181.975 Axial†	30.6	38.718 ug/L	5.4111	38.718 ppb	5.4111	13.98%
Sb 206.836†	38.3	11.486 ug/L	3.8437	11.486 ppb	3.8437	33.46%
Se 196.026†	-83.4	12.947 ug/L	4.3569	12.947 ppb	4.3569	33.65%
Si 251.611†	141493.4	4409.3 ug/L	7.10	4409.3 ppb	7.10	0.16%
Sn 189.927†	-1.4	0.3967 ug/L	0.95265	0.3967 ppb	0.95265	240.12%
Sr 421.552†	1969.3	15.189 ug/L	0.2533	15.189 ppb	0.2533	1.67%
Ti 334.940†	217877.4	354.24 ug/L	0.254	354.24 ppb	0.254	0.07%
Tl 190.801†	-12.3	0.8913 ug/L	0.18446	0.8913 ppb	0.18446	20.70%
U 409.014†	4706.5	131.47 ug/L	4.241	131.47 ppb	4.241	3.23%
V 292.402†	2581.2	15.823 ug/L	0.2153	15.823 ppb	0.2153	1.36%
Zn 213.857†	8123.9	76.011 ug/L	0.2628	76.011 ppb	0.2628	0.35%
SiO2†	141513.3	9435.1 ug/L	134.13	9435.1 ppb	134.13	1.42%

Sequence No.: 93
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/17/2010 03:20:15
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3988.3	3988.3	93.8	%			03:22:27
1	Y RADIAL	4204.7	4204.7	95.51	%			03:22:07
1	Al 396.153Radial†	4902.5	5384.4	5361.8	ug/L	5361.8	ppb	03:22:07
1	Ca 317.933Radial†	2689.4	2848.2	5312.9	ug/L	5312.9	ppb	03:22:27
1	Fe 238.204 Radial†	496.4	519.0	5530.9	ug/L	5530.9	ppb	03:22:27
1	K 766.490 Radial†	27473.3	26110.6	5264.3	ug/L	5264.3	ppb	03:22:07
1	Mg 279.077 IEC†	137.3	143.6	5545.9	ug/L	5545.9	ppb	03:22:27
1	Na 589.592 Radial†	28566.5	30240.2	10087	ug/L	10087	ppb	03:22:07
1	Sr 421.552†	63423.4	67509.3	521.22	ug/L	521.22	ppb	03:22:07
1	Sc 361.383	838414.7	838414.7	98.636	%			03:23:26
1	Y 371.029	670452.7	670452.7	95.407	%			03:23:26
1	Ag 328.068†	103612.3	104817.5	506.69	ug/L	506.69	ppb	03:23:26
1	As 188.979†	1179.7	1224.3	519.77	ug/L	519.77	ppb	03:23:46
1	B 249.677†	20944.8	21716.3	508.55	ug/L	508.55	ppb	03:23:26
1	Ba 233.527†	62010.0	62848.7	511.58	ug/L	511.58	ppb	03:23:26
1	Be 313.107†	1380805.6	1404239.4	516.98	ug/L	516.98	ppb	03:23:26
1	Cd 226.502†	41179.1	41944.1	490.35	ug/L	490.35	ppb	03:23:46
1	Co 228.616†	24027.6	24438.8	509.67	ug/L	509.67	ppb	03:23:46
1	Cr 267.716†	42536.6	42975.1	500.60	ug/L	500.60	ppb	03:23:26
1	Cu 324.752†	175942.4	170281.4	521.38	ug/L	521.38	ppb	03:23:26
1	Mn 257.610†	446023.0	451621.2	521.21	ug/L	521.21	ppb	03:23:26
1	Mo 202.031†	6767.0	6850.1	509.50	ug/L	509.50	ppb	03:23:46
1	Ni 231.604†	19440.4	19595.7	501.62	ug/L	501.62	ppb	03:23:46
1	P 214.914†	4813.0	4637.6	2471.3	ug/L	2471.3	ppb	03:23:46
1	Pb 220.353†	3958.2	4086.5	507.91	ug/L	507.91	ppb	03:23:46
1	S 181.975 Axial†	827.8	796.4	1039.8	ug/L	1039.8	ppb	03:23:46
1	Sb 206.836†	1499.7	1484.8	520.66	ug/L	520.66	ppb	03:23:46
1	Se 196.026†	864.9	900.2	544.68	ug/L	544.68	ppb	03:23:46
1	Si 251.611†	83052.0	83588.2	2598.5	ug/L	2598.5	ppb	03:23:26
1	Sn 189.927†	2784.4	2810.3	504.81	ug/L	504.81	ppb	03:23:46
1	Ti 334.940†	317830.5	323718.6	526.02	ug/L	526.02	ppb	03:23:26
1	Tl 190.801†	1580.4	1641.4	521.74	ug/L	521.74	ppb	03:23:46
1	U 409.014†	13218.5	16916.5	478.80	ug/L	478.80	ppb	03:23:26
1	V 292.402†	66241.1	68834.4	505.23	ug/L	505.23	ppb	03:23:26
1	Zn 213.857†	52367.6	52404.0	506.73	ug/L	506.73	ppb	03:23:26
1	SiO2†	83185.8	83716.6	5567.8	ug/L	5567.8	ppb	03:24:46
2	Sc Radial	3976.1	3976.1	93.5	%			03:22:52
2	Y RADIAL	4141.5	4141.5	94.08	%			03:22:32
2	Al 396.153Radial†	4820.8	5313.0	5290.3	ug/L	5290.3	ppb	03:22:32
2	Ca 317.933Radial†	2681.5	2848.5	5313.6	ug/L	5313.6	ppb	03:22:52
2	Fe 238.204 Radial†	494.8	518.9	5530.0	ug/L	5530.0	ppb	03:22:52
2	K 766.490 Radial†	27140.3	25844.5	5210.6	ug/L	5210.6	ppb	03:22:32
2	Mg 279.077 IEC†	136.6	143.3	5534.8	ug/L	5534.8	ppb	03:22:52
2	Na 589.592 Radial†	28223.2	29966.8	9995.7	ug/L	9995.7	ppb	03:22:32
2	Sr 421.552†	62430.9	66655.9	514.63	ug/L	514.63	ppb	03:22:32
2	Sc 361.383	830162.5	830162.5	97.665	%			03:23:53
2	Y 371.029	664864.0	664864.0	94.612	%			03:23:53
2	Ag 328.068†	102408.6	104629.1	505.79	ug/L	505.79	ppb	03:23:53
2	As 188.979†	1171.4	1227.7	521.20	ug/L	521.20	ppb	03:24:13
2	B 249.677†	20660.8	21636.6	506.67	ug/L	506.67	ppb	03:23:53
2	Ba 233.527†	61495.0	62946.3	512.37	ug/L	512.37	ppb	03:23:53
2	Be 313.107†	1369299.9	1406374.2	517.76	ug/L	517.76	ppb	03:23:53
2	Cd 226.502†	40981.4	42156.6	492.83	ug/L	492.83	ppb	03:24:13
2	Co 228.616†	23880.2	24530.0	511.58	ug/L	511.58	ppb	03:24:13
2	Cr 267.716†	42269.3	43130.2	502.40	ug/L	502.40	ppb	03:23:53
2	Cu 324.752†	173635.3	169692.3	519.58	ug/L	519.58	ppb	03:23:53
2	Mn 257.610†	441545.6	451531.7	521.11	ug/L	521.11	ppb	03:23:53
2	Mo 202.031†	6736.2	6886.8	512.22	ug/L	512.22	ppb	03:24:13
2	Ni 231.604†	19319.7	19668.1	503.47	ug/L	503.47	ppb	03:24:13

2	P 214.914†	4786.8	4659.2	2483.7 ug/L	2483.7 ppb	03:24:13
2	Pb 220.353†	3949.9	4117.9	511.79 ug/L	511.79 ppb	03:24:13
2	S 181.975 Axial†	818.2	794.9	1037.9 ug/L	1037.9 ppb	03:24:13
2	Sb 206.836†	1486.0	1485.8	521.09 ug/L	521.09 ppb	03:24:13
2	Se 196.026†	849.5	893.1	540.55 ug/L	540.55 ppb	03:24:13
2	Si 251.611†	82326.8	83682.7	2601.5 ug/L	2601.5 ppb	03:23:53
2	Sn 189.927†	2762.1	2815.5	505.76 ug/L	505.76 ppb	03:24:13
2	Ti 334.940†	314113.7	323115.9	525.04 ug/L	525.04 ppb	03:23:53
2	Tl 190.801†	1563.8	1640.3	521.38 ug/L	521.38 ppb	03:24:13
2	U 409.014†	13004.0	16830.1	476.34 ug/L	476.34 ppb	03:23:53
2	V 292.402†	65638.0	68884.5	505.62 ug/L	505.62 ppb	03:23:53
2	Zn 213.857†	51872.9	52425.2	506.92 ug/L	506.92 ppb	03:23:53
2	SiO2†	82968.8	84332.7	5608.8 ug/L	5608.8 ppb	03:24:51
3	Sc Radial	4031.1	4031.1	94.8 %		03:23:17
3	Y RADIAL	4215.4	4215.4	95.76 %		03:22:57
3	Al 396.153Radial†	4907.9	5334.5	5312.1 ug/L	5312.1 ppb	03:22:57
3	Ca 317.933Radial†	2708.4	2837.8	5293.5 ug/L	5293.5 ppb	03:23:17
3	Fe 238.204 Radial†	504.3	521.8	5560.2 ug/L	5560.2 ppb	03:23:17
3	K 766.490 Radial†	27468.4	25794.5	5200.5 ug/L	5200.5 ppb	03:22:57
3	Mg 279.077 IEC†	138.9	143.8	5552.6 ug/L	5552.6 ppb	03:23:17
3	Na 589.592 Radial†	28742.1	30102.1	10041 ug/L	10041 ppb	03:22:57
3	Sr 421.552†	63476.4	66847.4	516.11 ug/L	516.11 ppb	03:22:57
3	Sc 361.383	844064.4	844064.4	99.301 %		03:24:21
3	Y 371.029	675288.2	675288.2	96.095 %		03:24:21
3	Ag 328.068†	103931.6	104435.9	504.88 ug/L	504.88 ppb	03:24:21
3	As 188.979†	1175.9	1212.5	514.78 ug/L	514.78 ppb	03:24:41
3	B 249.677†	21127.4	21758.1	509.54 ug/L	509.54 ppb	03:24:21
3	Ba 233.527†	62384.2	62804.7	511.22 ug/L	511.22 ppb	03:24:21
3	Be 313.107†	1389819.8	1403946.9	516.87 ug/L	516.87 ppb	03:24:21
3	Cd 226.502†	41222.1	41707.9	487.58 ug/L	487.58 ppb	03:24:41
3	Co 228.616†	24004.4	24252.3	505.77 ug/L	505.77 ppb	03:24:41
3	Cr 267.716†	42747.9	42899.2	499.72 ug/L	499.72 ppb	03:24:21
3	Cu 324.752†	176557.1	169706.4	519.62 ug/L	519.62 ppb	03:24:21
3	Mn 257.610†	447801.6	450385.6	519.79 ug/L	519.79 ppb	03:24:21
3	Mo 202.031†	6758.9	6796.0	505.48 ug/L	505.48 ppb	03:24:41
3	Ni 231.604†	19446.1	19469.5	498.39 ug/L	498.39 ppb	03:24:41
3	P 214.914†	4825.6	4617.6	2460.5 ug/L	2460.5 ppb	03:24:41
3	Pb 220.353†	3991.4	4093.1	508.70 ug/L	508.70 ppb	03:24:41
3	S 181.975 Axial†	821.7	784.5	1024.3 ug/L	1024.3 ppb	03:24:41
3	Sb 206.836†	1490.3	1465.1	513.85 ug/L	513.85 ppb	03:24:41
3	Se 196.026†	866.0	895.5	541.99 ug/L	541.99 ppb	03:24:41
3	Si 251.611†	83395.9	83371.0	2591.8 ug/L	2591.8 ppb	03:24:21
3	Sn 189.927†	2777.4	2784.4	500.16 ug/L	500.16 ppb	03:24:41
3	Ti 334.940†	318891.2	322629.9	524.25 ug/L	524.25 ppb	03:24:21
3	Tl 190.801†	1576.7	1626.9	517.16 ug/L	517.16 ppb	03:24:41
3	U 409.014†	13136.9	16744.6	473.92 ug/L	473.92 ppb	03:24:21
3	V 292.402†	66735.8	68883.1	505.51 ug/L	505.51 ppb	03:24:21
3	Zn 213.857†	52667.6	52350.7	506.22 ug/L	506.22 ppb	03:24:21
3	SiO2†	83624.3	83593.7	5559.7 ug/L	5559.7 ppb	03:24:56

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	837547.2	98.534	%	0.8225				0.83%
Sc Radial	3998.5	94.1	%	0.68				0.72%
Y 371.029	670201.6	95.371	%	0.7423				0.78%
Y RADIAL	4187.2	95.12	%	0.906				0.95%
Ag 328.068†	104627.5	505.79	ug/L	0.908	505.79	ppb	0.908	0.18%
QC value within limits for Ag 328.068 Recovery = 101.16%								
Al 396.153Radial†	5344.0	5321.4	ug/L	36.64	5321.4	ppb	36.64	0.69%
QC value within limits for Al 396.153Radial Recovery = 106.43%								
As 188.979†	1221.5	518.58	ug/L	3.368	518.58	ppb	3.368	0.65%
QC value within limits for As 188.979 Recovery = 103.72%								
B 249.677†	21703.7	508.25	ug/L	1.458	508.25	ppb	1.458	0.29%
QC value within limits for B 249.677 Recovery = 101.65%								
Ba 233.527†	62866.6	511.72	ug/L	0.588	511.72	ppb	0.588	0.11%
QC value within limits for Ba 233.527 Recovery = 102.34%								
Be 313.107†	1404853.5	517.20	ug/L	0.487	517.20	ppb	0.487	0.09%
QC value within limits for Be 313.107 Recovery = 103.44%								
Ca 317.933Radial†	2844.8	5306.7	ug/L	11.41	5306.7	ppb	11.41	0.21%

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   QC value within limits for Ca 317.933Radial  Recovery = 106.13%
Cd 226.502†            41936.2      490.25 ug/L        2.628      490.25 ppb        2.628   0.54%
   QC value within limits for Cd 226.502  Recovery = 98.05%
Co 228.616†            24407.0      509.01 ug/L        2.958      509.01 ppb        2.958   0.58%
   QC value within limits for Co 228.616  Recovery = 101.80%
Cr 267.716†            43001.5      500.90 ug/L        1.369      500.90 ppb        1.369   0.27%
   QC value within limits for Cr 267.716  Recovery = 100.18%
Cu 324.752†           169893.3      520.19 ug/L        1.027      520.19 ppb        1.027   0.20%
   QC value within limits for Cu 324.752  Recovery = 104.04%
Fe 238.204 Radial†       519.9      5540.4 ug/L        17.21      5540.4 ppb        17.21   0.31%
   QC value greater than the upper limit for Fe 238.204 Radial  Recovery = 110.81%
K 766.490 Radial†      25916.5      5225.2 ug/L        34.28      5225.2 ppb        34.28   0.66%
   QC value within limits for K 766.490 Radial  Recovery = 104.50%
Mg 279.077 IEC†          143.6      5544.4 ug/L         8.99      5544.4 ppb         8.99   0.16%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 110.89%
Mn 257.610†           451179.5      520.70 ug/L        0.793      520.70 ppb        0.793   0.15%
   QC value within limits for Mn 257.610  Recovery = 104.14%
Mo 202.031†             6844.3      509.07 ug/L        3.392      509.07 ppb        3.392   0.67%
   QC value within limits for Mo 202.031  Recovery = 101.81%
Na 589.592 Radial†     30103.0       10041 ug/L         45.6       10041 ppb         45.6   0.45%
   QC value within limits for Na 589.592 Radial  Recovery = 100.41%
Ni 231.604†            19577.8      501.16 ug/L        2.573      501.16 ppb        2.573   0.51%
   QC value within limits for Ni 231.604  Recovery = 100.23%
P 214.914†              4638.1      2471.8 ug/L        11.60      2471.8 ppb        11.60   0.47%
   QC value within limits for P 214.914  Recovery = 98.87%
Pb 220.353†             4099.1      509.47 ug/L        2.052      509.47 ppb        2.052   0.40%
   QC value within limits for Pb 220.353  Recovery = 101.89%
S 181.975 Axial†         791.9      1034.0 ug/L         8.42      1034.0 ppb         8.42   0.81%
   QC value within limits for S 181.975 Axial  Recovery = 103.40%
Sb 206.836†             1478.6      518.53 ug/L        4.062      518.53 ppb        4.062   0.78%
   QC value within limits for Sb 206.836  Recovery = 103.71%
Se 196.026†              896.3      542.41 ug/L        2.100      542.41 ppb        2.100   0.39%
   QC value within limits for Se 196.026  Recovery = 108.48%
Si 251.611†            83547.3      2597.3 ug/L         4.94      2597.3 ppb         4.94   0.19%
   QC value within limits for Si 251.611  Recovery = 103.89%
Sn 189.927†             2803.4      503.58 ug/L        2.995      503.58 ppb        2.995   0.59%
   QC value within limits for Sn 189.927  Recovery = 100.72%
Sr 421.552†            67004.2      517.32 ug/L        3.458      517.32 ppb        3.458   0.67%
   QC value within limits for Sr 421.552  Recovery = 103.46%
Ti 334.940†           323154.8      525.10 ug/L        0.887      525.10 ppb        0.887   0.17%
   QC value within limits for Ti 334.940  Recovery = 105.02%
Tl 190.801†             1636.2      520.09 ug/L        2.544      520.09 ppb        2.544   0.49%
   QC value within limits for Tl 190.801  Recovery = 104.02%
U 409.014†             16830.4      476.35 ug/L        2.442      476.35 ppb        2.442   0.51%
   QC value within limits for U 409.014  Recovery = 95.27%
V 292.402†             68867.3      505.46 ug/L        0.204      505.46 ppb        0.204   0.04%
   QC value within limits for V 292.402  Recovery = 101.09%
Zn 213.857†            52393.3      506.62 ug/L        0.360      506.62 ppb        0.360   0.07%
   QC value within limits for Zn 213.857  Recovery = 101.32%
SiO2†                  83881.0      5578.8 ug/L        26.32      5578.8 ppb        26.32   0.47%
   QC value within limits for SiO2  Recovery = 104.32%
QC Failed.  Continue with analysis.
```

Sequence No.: 94
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/17/2010 03:27:07
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4036.7	4036.7	95.0	%			03:29:19
1	Y RADIAL	4207.0	4207.0	95.56	%			03:28:59
1	Al 396.153Radial†	-133.4	18.5	18.495	ug/L	18.495	ppb	03:28:59
1	Ca 317.933Radial†	33.7	17.2	32.061	ug/L	32.061	ppb	03:29:19
1	Fe 238.204 Radial†	11.6	2.2	23.391	ug/L	23.391	ppb	03:29:19
1	K 766.490 Radial†	2911.1	-106.0	-21.371	ug/L	-21.371	ppb	03:28:59
1	Mg 279.077 IEC†	3.2	0.7	25.290	ug/L	25.290	ppb	03:29:19
1	Na 589.592 Radial†	-117.7	-331.0	-110.41	ug/L	-110.41	ppb	03:28:59
1	Sr 421.552†	167.5	86.6	0.6680	ug/L	0.6680	ppb	03:28:59
1	Sc 361.383	823497.3	823497.3	96.881	%			03:30:16
1	Y 371.029	666160.4	666160.4	94.796	%			03:30:16
1	Ag 328.068†	285.5	67.0	0.3271	ug/L	0.3271	ppb	03:30:16
1	As 188.979†	-30.3	-3.0	-1.2561	ug/L	-1.2561	ppb	03:30:36
1	B 249.677†	-275.1	198.0	4.6526	ug/L	4.6526	ppb	03:30:36
1	Ba 233.527†	33.8	16.0	0.1324	ug/L	0.1324	ppb	03:30:36
1	Be 313.107†	-4179.3	25.3	0.0098	ug/L	0.0098	ppb	03:30:16
1	Cd 226.502†	-203.5	-14.5	-0.1710	ug/L	-0.1710	ppb	03:30:36
1	Co 228.616†	-59.0	17.9	0.3746	ug/L	0.3746	ppb	03:30:36
1	Cr 267.716†	138.1	-7.1	-0.0838	ug/L	-0.0838	ppb	03:30:36
1	Cu 324.752†	8516.2	696.2	2.1294	ug/L	2.1294	ppb	03:30:16
1	Mn 257.610†	1065.0	529.6	0.6121	ug/L	0.6121	ppb	03:30:36
1	Mo 202.031†	17.9	8.0	0.5956	ug/L	0.5956	ppb	03:30:36
1	Ni 231.604†	104.9	-5.3	-0.1357	ug/L	-0.1357	ppb	03:30:36
1	P 214.914†	237.0	2.6	1.0116	ug/L	1.0116	ppb	03:30:36
1	Pb 220.353†	-71.0	0.3	0.0412	ug/L	0.0412	ppb	03:30:36
1	S 181.975 Axial†	57.0	15.9	20.810	ug/L	20.810	ppb	03:30:36
1	Sb 206.836†	38.1	3.6	1.2383	ug/L	1.2383	ppb	03:30:36
1	Se 196.026†	-25.8	-3.3	-1.8748	ug/L	-1.8748	ppb	03:30:36
1	Si 251.611†	751.4	163.3	5.0805	ug/L	5.0805	ppb	03:30:36
1	Sn 189.927†	11.8	-0.5	-0.0803	ug/L	-0.0803	ppb	03:30:36
1	Ti 334.940†	-1315.7	134.8	0.2187	ug/L	0.2187	ppb	03:30:16
1	Tl 190.801†	-31.1	7.0	2.2158	ug/L	2.2158	ppb	03:30:36
1	U 409.014†	-3193.9	218.4	6.2022	ug/L	6.2022	ppb	03:30:16
1	V 292.402†	-1533.0	95.0	0.7051	ug/L	0.7051	ppb	03:30:16
1	Zn 213.857†	804.9	143.0	1.3905	ug/L	1.3905	ppb	03:30:36
1	SiO2†	766.6	171.8	11.436	ug/L	11.436	ppb	03:31:32
2	Sc Radial	4034.8	4034.8	94.9	%			03:29:44
2	Y RADIAL	4269.2	4269.2	96.98	%			03:29:24
2	Al 396.153Radial†	-121.8	30.7	30.584	ug/L	30.584	ppb	03:29:24
2	Ca 317.933Radial†	35.4	18.9	35.313	ug/L	35.313	ppb	03:29:44
2	Fe 238.204 Radial†	10.4	0.9	9.4646	ug/L	9.4646	ppb	03:29:44
2	K 766.490 Radial†	3018.9	9.0	1.8431	ug/L	1.8431	ppb	03:29:24
2	Mg 279.077 IEC†	2.1	-0.5	-20.250	ug/L	-20.250	ppb	03:29:44
2	Na 589.592 Radial†	-147.4	-362.3	-120.86	ug/L	-120.86	ppb	03:29:24
2	Sr 421.552†	58.3	-28.4	-0.2195	ug/L	-0.2195	ppb	03:29:24
2	Sc 361.383	825709.2	825709.2	97.141	%			03:30:42
2	Y 371.029	669492.8	669492.8	95.271	%			03:30:42
2	Ag 328.068†	278.3	58.9	0.2771	ug/L	0.2771	ppb	03:30:42
2	As 188.979†	-34.4	-7.1	-2.9730	ug/L	-2.9730	ppb	03:31:02
2	B 249.677†	-289.7	183.7	4.3199	ug/L	4.3199	ppb	03:31:02
2	Ba 233.527†	23.5	5.4	0.0426	ug/L	0.0426	ppb	03:31:02
2	Be 313.107†	-4179.2	36.9	0.0140	ug/L	0.0140	ppb	03:30:42
2	Cd 226.502†	-207.6	-18.2	-0.2123	ug/L	-0.2123	ppb	03:31:02
2	Co 228.616†	-81.4	-4.9	-0.0985	ug/L	-0.0985	ppb	03:31:02
2	Cr 267.716†	105.0	-41.6	-0.4875	ug/L	-0.4875	ppb	03:31:02
2	Cu 324.752†	8514.8	671.3	2.0519	ug/L	2.0519	ppb	03:30:42
2	Mn 257.610†	992.5	451.9	0.5230	ug/L	0.5230	ppb	03:31:02
2	Mo 202.031†	36.5	27.1	2.0157	ug/L	2.0157	ppb	03:31:02
2	Ni 231.604†	109.7	-0.5	-0.0138	ug/L	-0.0138	ppb	03:31:02

2	P 214.914†	228.0	-7.3	-4.4536 ug/L	-4.4536 ppb	03:31:02
2	Pb 220.353†	-75.6	-4.3	-0.5199 ug/L	-0.5199 ppb	03:31:02
2	S 181.975 Axial†	58.9	17.7	23.163 ug/L	23.163 ppb	03:31:02
2	Sb 206.836†	42.5	8.1	2.8048 ug/L	2.8048 ppb	03:31:02
2	Se 196.026†	-29.3	-6.8	-3.9217 ug/L	-3.9217 ppb	03:31:02
2	Si 251.611†	683.5	91.3	2.8217 ug/L	2.8217 ppb	03:31:02
2	Sn 189.927†	20.7	8.7	1.5697 ug/L	1.5697 ppb	03:31:02
2	Ti 334.940†	-1342.0	111.4	0.1846 ug/L	0.1846 ppb	03:30:42
2	Tl 190.801†	-36.4	1.6	0.5067 ug/L	0.5067 ppb	03:31:02
2	U 409.014†	-3182.3	239.2	6.7958 ug/L	6.7958 ppb	03:30:42
2	V 292.402†	-1716.5	-89.7	-0.6103 ug/L	-0.6103 ppb	03:30:42
2	Zn 213.857†	798.8	134.6	1.3093 ug/L	1.3093 ppb	03:31:02
2	SiO2†	726.0	127.9	8.4718 ug/L	8.4718 ppb	03:31:37
3	Sc Radial	4024.1	4024.1	94.7 %		03:30:10
3	Y RADIAL	4241.2	4241.2	96.34 %		03:29:50
3	Al 396.153Radial†	-141.0	10.1	10.086 ug/L	10.086 ppb	03:29:50
3	Ca 317.933Radial†	42.6	26.7	49.751 ug/L	49.751 ppb	03:30:10
3	Fe 238.204 Radial†	13.2	3.9	40.985 ug/L	40.985 ppb	03:30:10
3	K 766.490 Radial†	2907.4	-100.3	-20.229 ug/L	-20.229 ppb	03:29:50
3	Mg 279.077 IEC†	0.5	-2.2	-84.462 ug/L	-84.462 ppb	03:30:10
3	Na 589.592 Radial†	-55.7	-265.9	-88.696 ug/L	-88.696 ppb	03:29:50
3	Sr 421.552†	61.6	-24.7	-0.1912 ug/L	-0.1912 ppb	03:29:50
3	Sc 361.383	829211.3	829211.3	97.553 %		03:31:07
3	Y 371.029	671228.1	671228.1	95.517 %		03:31:07
3	Ag 328.068†	241.7	20.1	0.1084 ug/L	0.1084 ppb	03:31:07
3	As 188.979†	-33.0	-5.5	-2.3084 ug/L	-2.3084 ppb	03:31:27
3	B 249.677†	-307.3	166.9	3.9202 ug/L	3.9202 ppb	03:31:27
3	Ba 233.527†	20.5	2.2	0.0201 ug/L	0.0201 ppb	03:31:27
3	Be 313.107†	-3969.5	270.0	0.1036 ug/L	0.1036 ppb	03:31:07
3	Cd 226.502†	-204.4	-14.0	-0.1678 ug/L	-0.1678 ppb	03:31:27
3	Co 228.616†	-69.2	7.9	0.1613 ug/L	0.1613 ppb	03:31:27
3	Cr 267.716†	149.0	3.0	0.0350 ug/L	0.0350 ppb	03:31:27
3	Cu 324.752†	8561.3	682.0	2.0881 ug/L	2.0881 ppb	03:31:07
3	Mn 257.610†	991.1	446.2	0.5222 ug/L	0.5222 ppb	03:31:27
3	Mo 202.031†	14.0	3.8	0.2898 ug/L	0.2898 ppb	03:31:27
3	Ni 231.604†	84.4	-27.0	-0.6913 ug/L	-0.6913 ppb	03:31:27
3	P 214.914†	242.2	6.3	3.0438 ug/L	3.0438 ppb	03:31:27
3	Pb 220.353†	-72.8	-1.1	-0.1350 ug/L	-0.1350 ppb	03:31:27
3	S 181.975 Axial†	54.0	12.4	16.236 ug/L	16.236 ppb	03:31:27
3	Sb 206.836†	29.2	-5.8	-1.9542 ug/L	-1.9542 ppb	03:31:27
3	Se 196.026†	-23.3	-0.5	-0.1782 ug/L	-0.1782 ppb	03:31:27
3	Si 251.611†	703.0	108.3	3.3711 ug/L	3.3711 ppb	03:31:27
3	Sn 189.927†	10.8	-1.6	-0.2762 ug/L	-0.2762 ppb	03:31:27
3	Ti 334.940†	-300.8	1184.6	1.9372 ug/L	1.9372 ppb	03:31:07
3	Tl 190.801†	-32.4	5.9	1.8699 ug/L	1.8699 ppb	03:31:27
3	U 409.014†	-3299.4	133.1	3.7750 ug/L	3.7750 ppb	03:31:07
3	V 292.402†	-1567.8	70.2	0.5102 ug/L	0.5102 ppb	03:31:07
3	Zn 213.857†	783.4	115.3	1.1207 ug/L	1.1207 ppb	03:31:27
3	SiO2†	746.2	145.4	9.6835 ug/L	9.6835 ppb	03:31:42

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	826139.3	97.192	%	0.3390				0.35%
Sc Radial	4031.9	94.8	%	0.16				0.17%
Y 371.029	668960.5	95.195	%	0.3665				0.38%
Y RADIAL	4239.1	96.29	%	0.708				0.73%
Ag 328.068†	48.7	0.2376	ug/L	0.11459	0.2376	ppb	0.11459	48.24%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	19.8	19.722	ug/L	10.3041	19.722	ppb	10.3041	52.25%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-5.2	-2.1792	ug/L	0.86573	-2.1792	ppb	0.86573	39.73%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	182.9	4.2976	ug/L	0.36671	4.2976	ppb	0.36671	8.53%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	7.9	0.0650	ug/L	0.05938	0.0650	ppb	0.05938	91.29%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	110.7	0.0424	ug/L	0.05297	0.0424	ppb	0.05297	124.85%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	20.9	39.042	ug/L	9.4156	39.042	ppb	9.4156	24.12%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -15.6     -0.1837 ug/L       0.02484     -0.1837 ppb        0.02484  13.52%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                7.0      0.1458 ug/L       0.23693      0.1458 ppb        0.23693 162.46%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -15.2     -0.1788 ug/L       0.27390     -0.1788 ppb        0.27390 153.21%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              683.1      2.0898 ug/L       0.03878      2.0898 ppb        0.03878   1.86%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         2.3     24.614 ug/L       15.7957     24.614 ppb        15.7957  64.17%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -65.8    -13.252 ug/L       13.0855    -13.252 ppb        13.0855  98.74%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.7    -26.474 ug/L       55.1400    -26.474 ppb        55.1400 208.28%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              475.9      0.5524 ug/L       0.05166      0.5524 ppb        0.05166   9.35%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               13.0      0.9671 ug/L       0.92094      0.9671 ppb        0.92094  95.23%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      -319.8    -106.66 ug/L        16.409    -106.66 ppb         16.409  15.39%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -10.9     -0.2803 ug/L       0.36116     -0.2803 ppb        0.36116 128.86%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 0.5     -0.1327 ug/L       3.87750     -0.1327 ppb        3.87750 >999.9%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -1.7     -0.2046 ug/L       0.28696     -0.2046 ppb        0.28696 140.28%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          15.4     20.070 ug/L        3.5222     20.070 ppb         3.5222  17.55%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                2.0      0.6963 ug/L       2.42535      0.6963 ppb        2.42535 348.34%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -3.6     -1.9916 ug/L       1.87449     -1.9916 ppb        1.87449  94.12%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              121.0      3.7578 ug/L       1.17802      3.7578 ppb        1.17802  31.35%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                2.2      0.4044 ug/L       1.01393      0.4044 ppb        1.01393 250.71%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               11.1      0.0858 ug/L       0.50447      0.0858 ppb        0.50447 588.26%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              476.9      0.7802 ug/L       1.00219      0.7802 ppb        1.00219 128.46%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                4.8      1.5308 ug/L       0.90362      1.5308 ppb        0.90362  59.03%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               196.9      5.5910 ug/L       1.60047      5.5910 ppb        1.60047  28.63%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                25.2      0.2017 ug/L       0.70989      0.2017 ppb        0.70989 351.98%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              131.0      1.2735 ug/L       0.13845      1.2735 ppb        0.13845  10.87%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    148.3      9.8638 ug/L       1.49032      9.8638 ppb        1.49032  15.11%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 95
Sample ID: 245806002|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 110
Date Collected: 2/17/2010 03:33:53
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806002|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4195.2	4195.2	98.7	%			03:36:07
1	Y RADIAL	5172.4	5172.4	117.5	%			03:35:47
1	Al 396.153Radial†	45387.6	46149.0	46167	ug/L	46167	ppb	03:35:47
1	Ca 317.933Radial†	11663.0	11799.5	22011	ug/L	22011	ppb	03:35:47
1	Fe 238.204 Radial†	8339.0	8439.6	89694	ug/L	89694	ppb	03:35:47
1	K 766.490 Radial†	34896.0	32187.5	6489.2	ug/L	6489.2	ppb	03:35:47
1	Mg 279.077 IEC†	244.6	245.1	9373.6	ug/L	9373.6	ppb	03:36:07
1	Na 589.592 Radial†	2033.2	1853.1	618.12	ug/L	618.12	ppb	03:35:47
1	Sr 421.552†	20803.3	20989.5	161.90	ug/L	161.90	ppb	03:35:47
1	Sc 361.383	854811.0	854811.0	100.56	%			03:37:05
1	Y 371.029	812734.8	812734.8	115.65	%			03:37:05
1	Ag 328.068†	-4833.7	-5034.2	6.0143	ug/L	6.0143	ppb	03:37:10
1	As 188.979†	-21.5	6.9	38.370	ug/L	38.370	ppb	03:37:30
1	B 249.677†	1659.2	2131.8	35.516	ug/L	35.516	ppb	03:37:10
1	Ba 233.527†	66046.6	65656.7	536.12	ug/L	536.12	ppb	03:37:10
1	Be 313.107†	11343.8	15619.2	9.5232	ug/L	9.5232	ppb	03:37:10
1	Cd 226.502†	541.7	734.2	-0.5639	ug/L	-0.5639	ppb	03:37:30
1	Co 228.616†	1104.8	1177.5	19.984	ug/L	19.984	ppb	03:37:30
1	Cr 267.716†	9514.2	9311.0	110.10	ug/L	110.10	ppb	03:37:10
1	Cu 324.752†	244782.3	235313.0	725.00	ug/L	725.00	ppb	03:37:10
1	Mn 257.610†	1577654.4	1568221.5	1817.2	ug/L	1817.2	ppb	03:37:05
1	Mo 202.031†	67.8	57.0	11.460	ug/L	11.460	ppb	03:37:30
1	Ni 231.604†	2751.9	2622.9	67.169	ug/L	67.169	ppb	03:37:30
1	P 214.914†	1658.6	1407.3	576.98	ug/L	576.98	ppb	03:37:30
1	Pb 220.353†	1711.6	1775.5	221.25	ug/L	221.25	ppb	03:37:30
1	S 181.975 Axial†	320.9	276.2	352.37	ug/L	352.37	ppb	03:37:30
1	Sb 206.836†	77.7	41.6	6.7728	ug/L	6.7728	ppb	03:37:30
1	Se 196.026†	-427.5	-401.7	56.186	ug/L	56.186	ppb	03:37:30
1	Si 251.611†	803726.8	798599.2	24886	ug/L	24886	ppb	03:37:05
1	Sn 189.927†	-6.0	-18.5	1.5296	ug/L	1.5296	ppb	03:37:30
1	Ti 334.940†	1030379.4	1026083.7	1669.7	ug/L	1669.7	ppb	03:37:05
1	Tl 190.801†	-113.0	-73.3	-0.9922	ug/L	-0.9922	ppb	03:37:30
1	U 409.014†	9574.3	13035.7	359.84	ug/L	359.84	ppb	03:37:05
1	V 292.402†	15788.4	17377.0	111.94	ug/L	111.94	ppb	03:37:10
1	Zn 213.857†	34772.8	33889.7	315.93	ug/L	315.93	ppb	03:37:10
1	SiO2†	806534.4	801383.8	53431	ug/L	53431	ppb	03:38:39
2	Sc Radial	4109.1	4109.1	96.7	%			03:36:33
2	Y RADIAL	5077.9	5077.9	115.3	%			03:36:13
2	Al 396.153Radial†	46209.1	47962.5	47981	ug/L	47981	ppb	03:36:13
2	Ca 317.933Radial†	11883.3	12275.0	22897	ug/L	22897	ppb	03:36:13
2	Fe 238.204 Radial†	8498.8	8782.0	93332	ug/L	93332	ppb	03:36:13
2	K 766.490 Radial†	35444.5	33495.8	6753.0	ug/L	6753.0	ppb	03:36:13
2	Mg 279.077 IEC†	243.6	249.2	9528.8	ug/L	9528.8	ppb	03:36:33
2	Na 589.592 Radial†	2017.7	1880.2	627.18	ug/L	627.18	ppb	03:36:13
2	Sr 421.552†	20962.0	21595.4	166.57	ug/L	166.57	ppb	03:36:13
2	Sc 361.383	850591.4	850591.4	100.07	%			03:37:36
2	Y 371.029	809251.6	809251.6	115.16	%			03:37:36
2	Ag 328.068†	-4664.6	-4889.1	7.9224	ug/L	7.9224	ppb	03:37:41
2	As 188.979†	-15.7	12.6	41.639	ug/L	41.639	ppb	03:38:01
2	B 249.677†	1714.2	2194.9	36.409	ug/L	36.409	ppb	03:37:41
2	Ba 233.527†	65290.3	65226.7	532.73	ug/L	532.73	ppb	03:37:41
2	Be 313.107†	11152.1	15483.5	9.4778	ug/L	9.4778	ppb	03:37:41
2	Cd 226.502†	550.5	745.6	-0.8064	ug/L	-0.8064	ppb	03:38:01
2	Co 228.616†	1120.6	1198.7	20.367	ug/L	20.367	ppb	03:38:01
2	Cr 267.716†	9450.0	9293.8	109.97	ug/L	109.97	ppb	03:37:41
2	Cu 324.752†	242379.3	234119.2	721.54	ug/L	721.54	ppb	03:37:41
2	Mn 257.610†	1568969.7	1567325.3	1816.6	ug/L	1816.6	ppb	03:37:36
2	Mo 202.031†	56.7	46.2	10.952	ug/L	10.952	ppb	03:38:01
2	Ni 231.604†	2739.7	2624.3	67.204	ug/L	67.204	ppb	03:38:01

2	P 214.914†	1665.9	1422.8	583.79	ug/L	583.79 ppb	03:38:01
2	Pb 220.353†	1734.5	1806.9	225.19	ug/L	225.19 ppb	03:38:01
2	S 181.975 Axial†	320.9	277.7	353.99	ug/L	353.99 ppb	03:38:01
2	Sb 206.836†	68.2	32.5	3.5162	ug/L	3.5162 ppb	03:38:01
2	Se 196.026†	-421.3	-397.7	70.305	ug/L	70.305 ppb	03:38:01
2	Si 251.611†	800607.9	799447.2	24913	ug/L	24913 ppb	03:37:36
2	Sn 189.927†	-24.5	-37.1	-1.6041	ug/L	-1.6041 ppb	03:38:01
2	Ti 334.940†	1026498.3	1027288.1	1671.8	ug/L	1671.8 ppb	03:37:36
2	Tl 190.801†	-113.1	-73.9	-1.1637	ug/L	-1.1637 ppb	03:38:01
2	U 409.014†	9565.4	13074.0	360.51	ug/L	360.51 ppb	03:37:36
2	V 292.402†	15568.1	17234.7	110.37	ug/L	110.37 ppb	03:37:41
2	Zn 213.857†	34401.9	33690.6	313.45	ug/L	313.45 ppb	03:37:41
2	SiO2†	808768.7	807595.3	53845	ug/L	53845 ppb	03:38:45
3	Sc Radial	4162.3	4162.3	97.9	%		03:36:58
3	Y RADIAL	5194.3	5194.3	118.0	%		03:36:38
3	Al 396.153Radial†	46027.1	47165.8	47184	ug/L	47184 ppb	03:36:38
3	Ca 317.933Radial†	11803.6	12036.5	22453	ug/L	22453 ppb	03:36:38
3	Fe 238.204 Radial†	8434.6	8604.0	91441	ug/L	91441 ppb	03:36:38
3	K 766.490 Radial†	35397.3	32979.1	6648.9	ug/L	6648.9 ppb	03:36:38
3	Mg 279.077 IEC†	244.9	247.4	9458.4	ug/L	9458.4 ppb	03:36:58
3	Na 589.592 Radial†	2072.7	1909.7	637.00	ug/L	637.00 ppb	03:36:38
3	Sr 421.552†	21007.8	21365.1	164.80	ug/L	164.80 ppb	03:36:38
3	Sc 361.383	852197.2	852197.2	100.26	%		03:38:07
3	Y 371.029	811654.6	811654.6	115.50	%		03:38:07
3	Ag 328.068†	-4849.7	-5064.9	6.4475	ug/L	6.4475 ppb	03:38:12
3	As 188.979†	-15.5	12.9	41.285	ug/L	41.285 ppb	03:38:32
3	B 249.677†	1756.3	2233.7	37.629	ug/L	37.629 ppb	03:38:12
3	Ba 233.527†	66114.0	65925.4	538.35	ug/L	538.35 ppb	03:38:12
3	Be 313.107†	11374.6	15684.5	9.5509	ug/L	9.5509 ppb	03:38:12
3	Cd 226.502†	531.0	725.1	-0.8489	ug/L	-0.8489 ppb	03:38:32
3	Co 228.616†	1125.4	1201.3	20.453	ug/L	20.453 ppb	03:38:32
3	Cr 267.716†	9494.4	9320.3	110.24	ug/L	110.24 ppb	03:38:12
3	Cu 324.752†	245378.8	236654.5	729.20	ug/L	729.20 ppb	03:38:12
3	Mn 257.610†	1573216.5	1568606.9	1817.8	ug/L	1817.8 ppb	03:38:07
3	Mo 202.031†	66.7	56.1	11.535	ug/L	11.535 ppb	03:38:32
3	Ni 231.604†	2757.9	2637.3	67.538	ug/L	67.538 ppb	03:38:32
3	P 214.914†	1671.0	1424.8	584.69	ug/L	584.69 ppb	03:38:32
3	Pb 220.353†	1735.0	1804.1	224.85	ug/L	224.85 ppb	03:38:32
3	S 181.975 Axial†	315.4	271.6	346.17	ug/L	346.17 ppb	03:38:32
3	Sb 206.836†	73.3	37.4	5.2531	ug/L	5.2531 ppb	03:38:32
3	Se 196.026†	-417.7	-393.3	66.770	ug/L	66.770 ppb	03:38:32
3	Si 251.611†	802006.6	799334.8	24909	ug/L	24909 ppb	03:38:07
3	Sn 189.927†	-22.0	-34.5	-1.2438	ug/L	-1.2438 ppb	03:38:32
3	Ti 334.940†	1028247.6	1027100.0	1671.4	ug/L	1671.4 ppb	03:38:07
3	Tl 190.801†	-123.0	-83.6	-4.2241	ug/L	-4.2241 ppb	03:38:32
3	U 409.014†	9777.8	13267.9	366.24	ug/L	366.24 ppb	03:38:07
3	V 292.402†	15815.0	17451.7	112.24	ug/L	112.24 ppb	03:38:12
3	Zn 213.857†	34836.6	34059.4	317.32	ug/L	317.32 ppb	03:38:12
3	SiO2†	801857.6	799178.9	53284	ug/L	53284 ppb	03:38:51

Mean Data: 245806002|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	852533.2	100.30	%	0.251				0.25%
Sc Radial	4155.6	97.8	%	1.02				1.05%
Y 371.029	811213.7	115.44	%	0.254				0.22%
Y RADIAL	5148.2	116.9	%	1.40				1.20%
Ag 328.068†	-4996.1	6.7947	ug/L	1.00032	6.7947	ppb	1.00032	14.72%
Al 396.153Radial†	47092.4	47111	ug/L	909.3	47111	ppb	909.3	1.93%
As 188.979†	10.8	40.431	ug/L	1.7940	40.431	ppb	1.7940	4.44%
B 249.677†	2186.8	36.518	ug/L	1.0607	36.518	ppb	1.0607	2.90%
Ba 233.527†	65602.9	535.74	ug/L	2.829	535.74	ppb	2.829	0.53%
Be 313.107†	15595.8	9.5173	ug/L	0.03692	9.5173	ppb	0.03692	0.39%
Ca 317.933Radial†	12037.0	22454	ug/L	443.5	22454	ppb	443.5	1.98%
Cd 226.502†	735.0	-0.7397	ug/L	0.15375	-0.7397	ppb	0.15375	20.79%
Co 228.616†	1192.5	20.268	ug/L	0.2498	20.268	ppb	0.2498	1.23%
Cr 267.716†	9308.4	110.10	ug/L	0.136	110.10	ppb	0.136	0.12%
Cu 324.752†	235362.3	725.25	ug/L	3.835	725.25	ppb	3.835	0.53%
Fe 238.204 Radial†	8608.6	91489	ug/L	1819.8	91489	ppb	1819.8	1.99%
K 766.490 Radial†	32887.4	6630.4	ug/L	132.87	6630.4	ppb	132.87	2.00%

Mg 279.077 IEC†	247.2	9453.6	ug/L	77.72	9453.6	ppb	77.72	0.82%
Mn 257.610†	1568051.2	1817.2	ug/L	0.65	1817.2	ppb	0.65	0.04%
Mo 202.031†	53.1	11.316	ug/L	0.3170	11.316	ppb	0.3170	2.80%
Na 589.592 Radial†	1881.0	627.43	ug/L	9.445	627.43	ppb	9.445	1.51%
Ni 231.604†	2628.2	67.304	ug/L	0.2038	67.304	ppb	0.2038	0.30%
P 214.914†	1418.3	581.82	ug/L	4.216	581.82	ppb	4.216	0.72%
Pb 220.353†	1795.5	223.76	ug/L	2.185	223.76	ppb	2.185	0.98%
S 181.975 Axial†	275.2	350.84	ug/L	4.125	350.84	ppb	4.125	1.18%
Sb 206.836†	37.2	5.1807	ug/L	1.62951	5.1807	ppb	1.62951	31.45%
Se 196.026†	-397.6	64.420	ug/L	7.3468	64.420	ppb	7.3468	11.40%
Si 251.611†	799127.0	24903	ug/L	14.4	24903	ppb	14.4	0.06%
Sn 189.927†	-30.1	-0.4394	ug/L	1.71474	-0.4394	ppb	1.71474	390.22%
Sr 421.552†	21316.7	164.42	ug/L	2.358	164.42	ppb	2.358	1.43%
Ti 334.940†	1026823.9	1671.0	ug/L	1.10	1671.0	ppb	1.10	0.07%
Tl 190.801†	-76.9	-2.1266	ug/L	1.81844	-2.1266	ppb	1.81844	85.51%
U 409.014†	13125.9	362.20	ug/L	3.515	362.20	ppb	3.515	0.97%
V 292.402†	17354.5	111.52	ug/L	1.003	111.52	ppb	1.003	0.90%
Zn 213.857†	33879.9	315.57	ug/L	1.961	315.57	ppb	1.961	0.62%
SiO2†	802719.3	53520	ug/L	291.0	53520	ppb	291.0	0.54%

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Sequence No.: 96
Sample ID: 245806003|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 111
Date Collected: 2/17/2010 03:41:02
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806003|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4131.5	4131.5	97.2	%			03:43:16
1	Y RADIAL	4923.6	4923.6	111.8	%			03:42:56
1	Al 396.153Radial†	27536.9	28491.8	28503	ug/L	28503	ppb	03:42:56
1	Ca 317.933Radial†	6416.3	6583.5	12281	ug/L	12281	ppb	03:42:56
1	Fe 238.204 Radial†	7331.4	7533.3	80062	ug/L	80062	ppb	03:42:56
1	K 766.490 Radial†	26775.9	24378.2	4916.0	ug/L	4916.0	ppb	03:42:56
1	Mg 279.077 IEC†	153.4	155.1	5905.8	ug/L	5905.8	ppb	03:43:16
1	Na 589.592 Radial†	1881.7	1729.0	576.72	ug/L	576.72	ppb	03:42:56
1	Sr 421.552†	10167.9	10372.0	79.994	ug/L	79.994	ppb	03:42:56
1	Sc 361.383	831830.3	831830.3	97.861	%			03:44:13
1	Y 371.029	752847.0	752847.0	107.13	%			03:44:13
1	Ag 328.068†	-3342.1	-3642.8	8.6768	ug/L	8.6768	ppb	03:44:19
1	As 188.979†	-36.1	-8.6	31.112	ug/L	31.112	ppb	03:44:39
1	B 249.677†	738.5	1236.5	15.925	ug/L	15.925	ppb	03:44:19
1	Ba 233.527†	75579.8	77212.6	629.61	ug/L	629.61	ppb	03:44:19
1	Be 313.107†	111663.6	118442.9	47.695	ug/L	47.695	ppb	03:44:19
1	Cd 226.502†	668.9	879.0	2.3150	ug/L	2.3150	ppb	03:44:39
1	Co 228.616†	2621.2	2757.3	52.757	ug/L	52.757	ppb	03:44:39
1	Cr 267.716†	5045.0	5005.6	59.396	ug/L	59.396	ppb	03:44:39
1	Cu 324.752†	3327022.2	3391635.5	10388	ug/L	10388	ppb	03:44:13
1	Mn 257.610†	1715522.7	1752443.3	2028.9	ug/L	2028.9	ppb	03:44:13
1	Mo 202.031†	31.7	22.0	7.9938	ug/L	7.9938	ppb	03:44:39
1	Ni 231.604†	2344.9	2282.7	58.434	ug/L	58.434	ppb	03:44:39
1	P 214.914†	5034.0	4902.0	600.26	ug/L	600.26	ppb	03:44:19
1	Pb 220.353†	14144.4	14527.0	1792.3	ug/L	1792.3	ppb	03:44:19
1	S 181.975 Axial†	466.9	434.2	562.12	ug/L	562.12	ppb	03:44:39
1	Sb 206.836†	202.7	171.4	51.007	ug/L	51.007	ppb	03:44:39
1	Se 196.026†	-381.7	-366.7	44.995	ug/L	44.995	ppb	03:44:39
1	Si 251.611†	587129.3	599347.9	18677	ug/L	18677	ppb	03:44:13
1	Sn 189.927†	141.1	131.6	26.810	ug/L	26.810	ppb	03:44:39
1	Ti 334.940†	1109808.3	1135554.5	1846.2	ug/L	1846.2	ppb	03:44:13
1	Tl 190.801†	-122.4	-86.0	-2.6137	ug/L	-2.6137	ppb	03:44:39
1	U 409.014†	44056.4	48534.4	1369.5	ug/L	1369.5	ppb	03:44:13
1	V 292.402†	12843.2	14801.2	96.342	ug/L	96.342	ppb	03:44:19
1	Zn 213.857†	58917.5	59517.4	554.48	ug/L	554.48	ppb	03:44:19
1	SiO2†	583089.6	595212.7	39685	ug/L	39685	ppb	03:45:47
2	Sc Radial	4103.9	4103.9	96.5	%			03:43:41
2	Y RADIAL	4819.1	4819.1	109.5	%			03:43:21
2	Al 396.153Radial†	27045.8	28173.3	28184	ug/L	28184	ppb	03:43:21
2	Ca 317.933Radial†	6307.3	6514.9	12153	ug/L	12153	ppb	03:43:21
2	Fe 238.204 Radial†	7216.7	7465.1	79338	ug/L	79338	ppb	03:43:21
2	K 766.490 Radial†	26263.7	24032.6	4846.3	ug/L	4846.3	ppb	03:43:21
2	Mg 279.077 IEC†	149.1	151.7	5776.1	ug/L	5776.1	ppb	03:43:41
2	Na 589.592 Radial†	1840.9	1699.8	566.97	ug/L	566.97	ppb	03:43:21
2	Sr 421.552†	9882.1	10146.2	78.251	ug/L	78.251	ppb	03:43:21
2	Sc 361.383	840513.0	840513.0	98.883	%			03:44:45
2	Y 371.029	760537.7	760537.7	108.23	%			03:44:45
2	Ag 328.068†	-3556.7	-3824.5	7.5821	ug/L	7.5821	ppb	03:44:50
2	As 188.979†	-17.4	10.7	38.755	ug/L	38.755	ppb	03:45:10
2	B 249.677†	803.4	1294.4	17.407	ug/L	17.407	ppb	03:44:50
2	Ba 233.527†	76367.5	77211.4	629.58	ug/L	629.58	ppb	03:44:50
2	Be 313.107†	112957.1	118572.4	47.658	ug/L	47.658	ppb	03:44:50
2	Cd 226.502†	655.8	858.7	2.1482	ug/L	2.1482	ppb	03:45:10
2	Co 228.616†	2588.8	2696.9	51.585	ug/L	51.585	ppb	03:45:10
2	Cr 267.716†	5015.9	4922.9	58.429	ug/L	58.429	ppb	03:45:10
2	Cu 324.752†	3294759.8	3323888.7	10180	ug/L	10180	ppb	03:44:45
2	Mn 257.610†	1699245.8	1717873.6	1989.0	ug/L	1989.0	ppb	03:44:45
2	Mo 202.031†	28.1	18.0	7.6409	ug/L	7.6409	ppb	03:45:10
2	Ni 231.604†	2356.9	2270.0	58.110	ug/L	58.110	ppb	03:45:10

2	P 214.914†	5084.1	4899.6	640.57 ug/L	640.57 ppb	03:44:50
2	Pb 220.353†	14350.4	14586.1	1799.7 ug/L	1799.7 ppb	03:44:50
2	S 181.975 Axial†	458.5	420.8	544.66 ug/L	544.66 ppb	03:45:10
2	Sb 206.836†	188.9	155.3	45.655 ug/L	45.655 ppb	03:45:10
2	Se 196.026†	-365.6	-346.4	54.485 ug/L	54.485 ppb	03:45:10
2	Si 251.611†	581481.9	587439.0	18306 ug/L	18306 ppb	03:44:45
2	Sn 189.927†	126.6	115.4	23.870 ug/L	23.870 ppb	03:45:10
2	Ti 334.940†	1098680.0	1112585.4	1808.8 ug/L	1808.8 ppb	03:44:45
2	Tl 190.801†	-120.1	-82.4	-1.9752 ug/L	-1.9752 ppb	03:45:10
2	U 409.014†	43751.8	47761.2	1347.6 ug/L	1347.6 ppb	03:44:45
2	V 292.402†	13066.7	14891.6	97.094 ug/L	97.094 ppb	03:44:50
2	Zn 213.857†	59587.8	59573.2	555.41 ug/L	555.41 ppb	03:44:50
2	SiO2†	589393.2	595432.5	39699 ug/L	39699 ppb	03:45:52
3	Sc Radial	3863.1	3863.1	90.9 %		03:44:06
3	Y RADIAL	4829.3	4829.3	109.7 %		03:43:46
3	Al 396.153Radial†	27225.7	30118.2	30130 ug/L	30130 ppb	03:43:46
3	Ca 317.933Radial†	6344.5	6963.2	12989 ug/L	12989 ppb	03:43:46
3	Fe 238.204 Radial†	7297.1	8019.7	85232 ug/L	85232 ppb	03:43:46
3	K 766.490 Radial†	26525.7	26017.2	5246.6 ug/L	5246.6 ppb	03:43:46
3	Mg 279.077 IEC†	155.4	168.2	6409.0 ug/L	6409.0 ppb	03:44:06
3	Na 589.592 Radial†	1840.6	1818.3	606.51 ug/L	606.51 ppb	03:43:46
3	Sr 421.552†	9875.8	10777.4	83.119 ug/L	83.119 ppb	03:43:46
3	Sc 361.383	847111.3	847111.3	99.659 %		03:45:16
3	Y 371.029	764705.7	764705.7	108.82 %		03:45:16
3	Ag 328.068†	-3329.2	-3568.3	10.796 ug/L	10.796 ppb	03:45:21
3	As 188.979†	-22.1	6.1	38.132 ug/L	38.132 ppb	03:45:41
3	B 249.677†	665.9	1150.1	13.056 ug/L	13.056 ppb	03:45:21
3	Ba 233.527†	76060.2	76301.5	622.37 ug/L	622.37 ppb	03:45:21
3	Be 313.107†	112479.2	117203.1	47.137 ug/L	47.137 ppb	03:45:21
3	Cd 226.502†	678.4	876.2	1.7421 ug/L	1.7421 ppb	03:45:41
3	Co 228.616†	2604.5	2692.2	51.414 ug/L	51.414 ppb	03:45:41
3	Cr 267.716†	5021.9	4889.4	58.157 ug/L	58.157 ppb	03:45:41
3	Cu 324.752†	3306761.6	3309978.0	10138 ug/L	10138 ppb	03:45:16
3	Mn 257.610†	1704288.2	1709547.8	1979.9 ug/L	1979.9 ppb	03:45:16
3	Mo 202.031†	16.8	6.4	7.2461 ug/L	7.2461 ppb	03:45:41
3	Ni 231.604†	2369.1	2263.7	57.948 ug/L	57.948 ppb	03:45:41
3	P 214.914†	5104.8	4880.3	634.08 ug/L	634.08 ppb	03:45:21
3	Pb 220.353†	14271.5	14393.8	1775.8 ug/L	1775.8 ppb	03:45:21
3	S 181.975 Axial†	465.8	424.5	549.13 ug/L	549.13 ppb	03:45:41
3	Sb 206.836†	189.0	154.0	45.112 ug/L	45.112 ppb	03:45:41
3	Se 196.026†	-365.9	-343.9	75.019 ug/L	75.019 ppb	03:45:41
3	Si 251.611†	583655.6	585039.6	18231 ug/L	18231 ppb	03:45:16
3	Sn 189.927†	133.6	121.5	25.186 ug/L	25.186 ppb	03:45:41
3	Ti 334.940†	1102604.6	1107868.9	1801.2 ug/L	1801.2 ppb	03:45:16
3	Tl 190.801†	-124.5	-85.8	-3.1646 ug/L	-3.1646 ppb	03:45:41
3	U 409.014†	43684.3	47348.9	1335.2 ug/L	1335.2 ppb	03:45:16
3	V 292.402†	13012.5	14734.3	95.082 ug/L	95.082 ppb	03:45:21
3	Zn 213.857†	59353.8	58869.1	547.72 ug/L	547.72 ppb	03:45:21
3	SiO2†	589058.8	590454.1	39367 ug/L	39367 ppb	03:45:58

Mean Data: 245806003|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	839818.2	98.801	%	0.9017				0.91%
Sc Radial	4032.8	94.9	%	3.47				3.66%
Y 371.029	759363.5	108.06	%	0.856				0.79%
Y RADIAL	4857.3	110.3	%	1.31				1.19%
Ag 328.068†	-3678.5	9.0183	ug/L	1.63396	9.0183	ppb	1.63396	18.12%
Al 396.153Radial†	28927.8	28939	ug/L	1043.6	28939	ppb	1043.6	3.61%
As 188.979†	2.7	36.000	ug/L	4.2442	36.000	ppb	4.2442	11.79%
B 249.677†	1227.0	15.463	ug/L	2.2120	15.463	ppb	2.2120	14.30%
Ba 233.527†	76908.5	627.19	ug/L	4.172	627.19	ppb	4.172	0.67%
Be 313.107†	118072.8	47.497	ug/L	0.3117	47.497	ppb	0.3117	0.66%
Ca 317.933Radial†	6687.2	12474	ug/L	450.4	12474	ppb	450.4	3.61%
Cd 226.502†	871.3	2.0684	ug/L	0.29466	2.0684	ppb	0.29466	14.25%
Co 228.616†	2715.5	51.919	ug/L	0.7313	51.919	ppb	0.7313	1.41%
Cr 267.716†	4939.3	58.661	ug/L	0.6511	58.661	ppb	0.6511	1.11%
Cu 324.752†	3341834.1	10235	ug/L	133.7	10235	ppb	133.7	1.31%
Fe 238.204 Radial†	7672.7	81544	ug/L	3214.4	81544	ppb	3214.4	3.94%
K 766.490 Radial†	24809.4	5003.0	ug/L	213.87	5003.0	ppb	213.87	4.27%

Mg 279.077 IEC†	158.3	6030.3	ug/L	334.34	6030.3	ppb	334.34	5.54%
Mn 257.610†	1726621.6	1999.3	ug/L	26.07	1999.3	ppb	26.07	1.30%
Mo 202.031†	15.5	7.6269	ug/L	0.37406	7.6269	ppb	0.37406	4.90%
Na 589.592 Radial†	1749.0	583.40	ug/L	20.597	583.40	ppb	20.597	3.53%
Ni 231.604†	2272.1	58.164	ug/L	0.2473	58.164	ppb	0.2473	0.43%
P 214.914†	4894.0	624.97	ug/L	21.643	624.97	ppb	21.643	3.46%
Pb 220.353†	14502.3	1789.2	ug/L	12.25	1789.2	ppb	12.25	0.68%
S 181.975 Axial†	426.5	551.97	ug/L	9.073	551.97	ppb	9.073	1.64%
Sb 206.836†	160.3	47.258	ug/L	3.2580	47.258	ppb	3.2580	6.89%
Se 196.026†	-352.3	58.166	ug/L	15.3468	58.166	ppb	15.3468	26.38%
Si 251.611†	590608.8	18405	ug/L	238.8	18405	ppb	238.8	1.30%
Sn 189.927†	122.8	25.288	ug/L	1.4726	25.288	ppb	1.4726	5.82%
Sr 421.552†	10431.9	80.455	ug/L	2.4664	80.455	ppb	2.4664	3.07%
Ti 334.940†	1118669.6	1818.8	ug/L	24.05	1818.8	ppb	24.05	1.32%
Tl 190.801†	-84.7	-2.5845	ug/L	0.59523	-2.5845	ppb	0.59523	23.03%
U 409.014†	47881.5	1350.8	ug/L	17.35	1350.8	ppb	17.35	1.28%
V 292.402†	14809.0	96.173	ug/L	1.0166	96.173	ppb	1.0166	1.06%
Zn 213.857†	59319.9	552.54	ug/L	4.199	552.54	ppb	4.199	0.76%
SiO2†	593699.8	39584	ug/L	187.5	39584	ppb	187.5	0.47%

Sequence No.: 97
Sample ID: 245806004|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 112
Date Collected: 2/17/2010 03:48:10
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806004|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4294.7	4294.7	101	%			03:50:05
1	Y RADIAL	4735.7	4735.7	107.6	%			03:50:05
1	Al 396.153Radial†	26916.4	26801.0	26811	ug/L	26811	ppb	03:50:05
1	Ca 317.933Radial†	6033.5	5953.6	11106	ug/L	11106	ppb	03:50:05
1	Fe 238.204 Radial†	5712.0	5643.6	59979	ug/L	59979	ppb	03:50:05
1	K 766.490 Radial†	18734.7	15372.0	3098.7	ug/L	3098.7	ppb	03:50:05
1	Mg 279.077 IEC†	181.0	176.5	6753.4	ug/L	6753.4	ppb	03:50:25
1	Na 589.592 Radial†	1444.9	1223.1	407.96	ug/L	407.96	ppb	03:50:05
1	Sr 421.552†	6168.3	6015.6	46.365	ug/L	46.365	ppb	03:50:05
1	Sc 361.383	847914.0	847914.0	99.754	%			03:51:25
1	Y 371.029	732874.1	732874.1	104.29	%			03:51:25
1	Ag 328.068†	1331.7	1107.3	22.731	ug/L	22.731	ppb	03:51:30
1	As 188.979†	1519.7	1551.8	680.55	ug/L	680.55	ppb	03:51:50
1	B 249.677†	614.5	1097.9	16.009	ug/L	16.009	ppb	03:51:30
1	Ba 233.527†	99814.0	100041.7	814.33	ug/L	814.33	ppb	03:51:30
1	Be 313.107†	232352.6	237265.8	90.703	ug/L	90.703	ppb	03:51:25
1	Cd 226.502†	621.7	818.7	4.1639	ug/L	4.1639	ppb	03:51:50
1	Co 228.616†	1281.2	1363.3	24.631	ug/L	24.631	ppb	03:51:50
1	Cr 267.716†	8371.8	8242.7	95.710	ug/L	95.710	ppb	03:51:30
1	Cu 324.752†	2040405.9	2037352.8	6238.9	ug/L	6238.9	ppb	03:51:25
1	Mn 257.610†	1096914.4	1099054.6	1273.3	ug/L	1273.3	ppb	03:51:25
1	Mo 202.031†	6.9	-3.5	4.5279	ug/L	4.5279	ppb	03:51:50
1	Ni 231.604†	3637.3	3532.8	90.472	ug/L	90.472	ppb	03:51:50
1	P 214.914†	4783.7	4553.5	1246.6	ug/L	1246.6	ppb	03:51:30
1	Pb 220.353†	3618213.5	3627226.0	449330	ug/L	449330	ppb	03:51:25
1	S 181.975 Axial†	286.3	244.1	313.99	ug/L	313.99	ppb	03:51:50
1	Sb 206.836†	6953.2	6934.7	2341.9	ug/L	2341.9	ppb	03:51:50
1	Se 196.026†	-310.5	-287.9	26.159	ug/L	26.159	ppb	03:51:50
1	Si 251.611†	473017.4	473573.7	14758	ug/L	14758	ppb	03:51:25
1	Sn 189.927†	375.6	363.9	67.953	ug/L	67.953	ppb	03:51:50
1	Ti 334.940†	959288.9	963151.7	1564.7	ug/L	1564.7	ppb	03:51:25
1	Tl 190.801†	-102.6	-63.7	-1.3678	ug/L	-1.3678	ppb	03:51:50
1	U 409.014†	127687.2	131517.9	3729.0	ug/L	3729.0	ppb	03:51:25
1	V 292.402†	10863.5	12567.7	87.874	ug/L	87.874	ppb	03:51:30
1	Zn 213.857†	119193.2	118799.9	1141.5	ug/L	1141.5	ppb	03:51:30
1	SiO2†	484695.7	485273.7	32355	ug/L	32355	ppb	03:53:01
2	Sc Radial	4296.2	4296.2	101	%			03:50:30
2	Y RADIAL	4725.2	4725.2	107.3	%			03:50:30
2	Al 396.153Radial†	27010.7	26884.7	26895	ug/L	26895	ppb	03:50:30
2	Ca 317.933Radial†	6014.2	5932.5	11066	ug/L	11066	ppb	03:50:30
2	Fe 238.204 Radial†	5725.6	5655.1	60101	ug/L	60101	ppb	03:50:30
2	K 766.490 Radial†	18780.4	15410.6	3106.5	ug/L	3106.5	ppb	03:50:30
2	Mg 279.077 IEC†	182.1	177.5	6791.3	ug/L	6791.3	ppb	03:50:50
2	Na 589.592 Radial†	1401.6	1179.7	393.50	ug/L	393.50	ppb	03:50:30
2	Sr 421.552†	6159.4	6004.6	46.281	ug/L	46.281	ppb	03:50:30
2	Sc 361.383	847625.1	847625.1	99.720	%			03:51:57
2	Y 371.029	731540.8	731540.8	104.10	%			03:51:57
2	Ag 328.068†	1366.3	1142.5	22.936	ug/L	22.936	ppb	03:52:03
2	As 188.979†	1505.5	1538.1	674.84	ug/L	674.84	ppb	03:52:23
2	B 249.677†	682.2	1166.0	17.592	ug/L	17.592	ppb	03:52:03
2	Ba 233.527†	99283.3	99543.7	810.29	ug/L	810.29	ppb	03:52:03
2	Be 313.107†	232345.4	237337.9	90.736	ug/L	90.736	ppb	03:51:57
2	Cd 226.502†	608.7	805.9	4.0035	ug/L	4.0035	ppb	03:52:23
2	Co 228.616†	1272.4	1354.9	24.447	ug/L	24.447	ppb	03:52:23
2	Cr 267.716†	8410.4	8284.4	96.193	ug/L	96.193	ppb	03:52:03
2	Cu 324.752†	2042473.8	2040123.6	6247.4	ug/L	6247.4	ppb	03:51:57
2	Mn 257.610†	1098751.5	1101271.7	1275.8	ug/L	1275.8	ppb	03:51:57
2	Mo 202.031†	10.9	0.4	4.8291	ug/L	4.8291	ppb	03:52:23
2	Ni 231.604†	3621.7	3518.3	90.102	ug/L	90.102	ppb	03:52:23

2	P 214.914†	4765.3	4536.7	1235.5	ug/L	1235.5	ppb	03:52:03
2	Pb 220.353†	3629868.1	3640149.7	450930	ug/L	450930	ppb	03:51:57
2	S 181.975 Axial†	285.6	243.5	313.23	ug/L	313.23	ppb	03:52:23
2	Sb 206.836†	6908.1	6891.9	2327.4	ug/L	2327.4	ppb	03:52:23
2	Se 196.026†	-304.4	-281.9	30.058	ug/L	30.058	ppb	03:52:23
2	Si 251.611†	473892.6	474613.0	14790	ug/L	14790	ppb	03:51:57
2	Sn 189.927†	373.2	361.6	67.536	ug/L	67.536	ppb	03:52:23
2	Ti 334.940†	960746.8	964941.6	1567.6	ug/L	1567.6	ppb	03:51:57
2	Tl 190.801†	-109.9	-71.1	-3.6470	ug/L	-3.6470	ppb	03:52:23
2	U 409.014†	128042.4	131917.6	3740.3	ug/L	3740.3	ppb	03:51:57
2	V 292.402†	10953.1	12661.2	88.557	ug/L	88.557	ppb	03:52:03
2	Zn 213.857†	118692.2	118338.2	1136.9	ug/L	1136.9	ppb	03:52:03
2	SiO2†	477465.7	478188.9	31882	ug/L	31882	ppb	03:53:07
3	Sc Radial	4257.0	4257.0	100	%			03:50:55
3	Y RADIAL	4680.2	4680.2	106.3	%			03:50:55
3	Al 396.153Radial†	26696.8	26817.3	26828	ug/L	26828	ppb	03:50:55
3	Ca 317.933Radial†	5978.5	5951.5	11102	ug/L	11102	ppb	03:50:55
3	Fe 238.204 Radial†	5634.9	5616.7	59693	ug/L	59693	ppb	03:50:55
3	K 766.490 Radial†	18556.1	15357.7	3095.8	ug/L	3095.8	ppb	03:50:55
3	Mg 279.077 IEC†	181.2	178.3	6822.4	ug/L	6822.4	ppb	03:51:15
3	Na 589.592 Radial†	1307.2	1098.3	366.35	ug/L	366.35	ppb	03:50:55
3	Sr 421.552†	6089.5	5990.9	46.175	ug/L	46.175	ppb	03:50:55
3	Sc 361.383	853589.5	853589.5	100.42	%			03:52:30
3	Y 371.029	737256.1	737256.1	104.91	%			03:52:30
3	Ag 328.068†	1432.5	1198.8	23.065	ug/L	23.065	ppb	03:52:36
3	As 188.979†	1540.7	1562.5	685.01	ug/L	685.01	ppb	03:52:56
3	B 249.677†	681.3	1160.4	17.525	ug/L	17.525	ppb	03:52:36
3	Ba 233.527†	99445.7	99009.7	805.94	ug/L	805.94	ppb	03:52:36
3	Be 313.107†	234002.6	237360.1	90.741	ug/L	90.741	ppb	03:52:30
3	Cd 226.502†	614.7	807.6	4.0651	ug/L	4.0651	ppb	03:52:56
3	Co 228.616†	1281.3	1354.8	24.452	ug/L	24.452	ppb	03:52:56
3	Cr 267.716†	8427.8	8242.7	95.700	ug/L	95.700	ppb	03:52:36
3	Cu 324.752†	2063052.3	2046303.9	6266.3	ug/L	6266.3	ppb	03:52:30
3	Mn 257.610†	1102892.4	1097696.1	1271.7	ug/L	1271.7	ppb	03:52:30
3	Mo 202.031†	8.8	-1.7	4.6422	ug/L	4.6422	ppb	03:52:56
3	Ni 231.604†	3661.8	3533.0	90.477	ug/L	90.477	ppb	03:52:56
3	P 214.914†	4822.2	4560.0	1245.0	ug/L	1245.0	ppb	03:52:36
3	Pb 220.353†	3633896.9	3618726.8	448270	ug/L	448270	ppb	03:52:30
3	S 181.975 Axial†	281.7	237.6	305.52	ug/L	305.52	ppb	03:52:56
3	Sb 206.836†	6979.1	6914.1	2334.9	ug/L	2334.9	ppb	03:52:56
3	Se 196.026†	-311.9	-287.2	25.656	ug/L	25.656	ppb	03:52:56
3	Si 251.611†	476587.8	473976.3	14770	ug/L	14770	ppb	03:52:30
3	Sn 189.927†	368.4	354.2	66.205	ug/L	66.205	ppb	03:52:56
3	Ti 334.940†	966543.5	963981.8	1566.0	ug/L	1566.0	ppb	03:52:30
3	Tl 190.801†	-122.6	-83.0	-7.4309	ug/L	-7.4309	ppb	03:52:56
3	U 409.014†	128886.2	131860.7	3738.8	ug/L	3738.8	ppb	03:52:30
3	V 292.402†	10906.5	12538.0	87.721	ug/L	87.721	ppb	03:52:36
3	Zn 213.857†	118881.6	117695.2	1130.7	ug/L	1130.7	ppb	03:52:36
3	SiO2†	475820.7	473205.1	31550	ug/L	31550	ppb	03:53:12

Mean Data: 245806004|948071|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	849709.5	99.965	%	0.3957				0.40%
Sc Radial	4282.7	101	%	0.5				0.52%
Y 371.029	733890.4	104.43	%	0.426				0.41%
Y RADIAL	4713.7	107.1	%	0.67				0.63%
Ag 328.068†	1149.5	22.911	ug/L	0.1684	22.911	ppb	0.1684	0.73%
Al 396.153Radial†	26834.3	26845	ug/L	44.4	26845	ppb	44.4	0.17%
As 188.979†	1550.8	680.13	ug/L	5.102	680.13	ppb	5.102	0.75%
B 249.677†	1141.4	17.042	ug/L	0.8954	17.042	ppb	0.8954	5.25%
Ba 233.527†	99531.7	810.19	ug/L	4.195	810.19	ppb	4.195	0.52%
Be 313.107†	237321.3	90.727	ug/L	0.0206	90.727	ppb	0.0206	0.02%
Ca 317.933Radial†	5945.9	11091	ug/L	21.7	11091	ppb	21.7	0.20%
Cd 226.502†	810.7	4.0775	ug/L	0.08090	4.0775	ppb	0.08090	1.98%
Co 228.616†	1357.6	24.510	ug/L	0.1049	24.510	ppb	0.1049	0.43%
Cr 267.716†	8256.6	95.867	ug/L	0.2818	95.867	ppb	0.2818	0.29%
Cu 324.752†	2041260.1	6250.8	ug/L	14.02	6250.8	ppb	14.02	0.22%
Fe 238.204 Radial†	5638.5	59924	ug/L	209.5	59924	ppb	209.5	0.35%
K 766.490 Radial†	15380.1	3100.4	ug/L	5.53	3100.4	ppb	5.53	0.18%

Mg 279.077 IEC†	177.4	6789.0	ug/L	34.57	6789.0	ppb	34.57	0.51%
Mn 257.610†	1099340.8	1273.6	ug/L	2.10	1273.6	ppb	2.10	0.17%
Mo 202.031†	-1.6	4.6664	ug/L	0.15203	4.6664	ppb	0.15203	3.26%
Na 589.592 Radial†	1167.0	389.27	ug/L	21.128	389.27	ppb	21.128	5.43%
Ni 231.604†	3528.0	90.350	ug/L	0.2147	90.350	ppb	0.2147	0.24%
P 214.914†	4550.1	1242.4	ug/L	5.99	1242.4	ppb	5.99	0.48%
Pb 220.353†	3628700.8	449510	ug/L	1336.3	449510	ppb	1336.3	0.30%
S 181.975 Axial†	241.7	310.92	ug/L	4.687	310.92	ppb	4.687	1.51%
Sb 206.836†	6913.6	2334.7	ug/L	7.25	2334.7	ppb	7.25	0.31%
Se 196.026†	-285.7	27.291	ug/L	2.4094	27.291	ppb	2.4094	8.83%
Si 251.611†	474054.3	14773	ug/L	16.3	14773	ppb	16.3	0.11%
Sn 189.927†	359.9	67.231	ug/L	0.9129	67.231	ppb	0.9129	1.36%
Sr 421.552†	6003.7	46.274	ug/L	0.0956	46.274	ppb	0.0956	0.21%
Ti 334.940†	964025.0	1566.1	ug/L	1.45	1566.1	ppb	1.45	0.09%
Tl 190.801†	-72.6	-4.1486	ug/L	3.06250	-4.1486	ppb	3.06250	73.82%
U 409.014†	131765.4	3736.0	ug/L	6.15	3736.0	ppb	6.15	0.16%
V 292.402†	12589.0	88.051	ug/L	0.4450	88.051	ppb	0.4450	0.51%
Zn 213.857†	118277.8	1136.4	ug/L	5.41	1136.4	ppb	5.41	0.48%
SiO2†	478889.2	31929	ug/L	404.4	31929	ppb	404.4	1.27%

Sequence No.: 98
Sample ID: 245806005|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 113
Date Collected: 2/17/2010 03:55:24
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806005|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4326.6	4326.6	102	%			03:57:18
1	Y RADIAL	5676.1	5676.1	128.9	%			03:57:18
1	Al 396.153Radial†	16170.4	16046.5	16052	ug/L	16052	ppb	03:57:18
1	Ca 317.933Radial†	2990.1	2919.5	5446.0	ug/L	5446.0	ppb	03:57:38
1	Fe 238.204 Radial†	7911.6	7763.1	82505	ug/L	82505	ppb	03:57:18
1	K 766.490 Radial†	20341.9	16814.4	3390.6	ug/L	3390.6	ppb	03:57:18
1	Mg 279.077 IEC†	91.0	86.7	3263.7	ug/L	3263.7	ppb	03:57:38
1	Na 589.592 Radial†	4008.7	3731.5	1244.7	ug/L	1244.7	ppb	03:57:18
1	Sr 421.552†	5752.3	5561.8	42.904	ug/L	42.904	ppb	03:57:18
1	Sc 361.383	858968.0	858968.0	101.05	%			03:58:35
1	Y 371.029	885939.0	885939.0	126.07	%			03:58:35
1	Ag 328.068†	-4572.6	-4752.6	5.3890	ug/L	5.3890	ppb	03:58:41
1	As 188.979†	-35.0	-6.3	27.531	ug/L	27.531	ppb	03:59:01
1	B 249.677†	215.9	695.5	2.8168	ug/L	2.8168	ppb	03:58:41
1	Ba 233.527†	57867.5	57245.1	467.43	ug/L	467.43	ppb	03:58:41
1	Be 313.107†	-4732.5	-344.0	2.7235	ug/L	2.7235	ppb	03:58:41
1	Cd 226.502†	444.1	635.0	-1.0533	ug/L	-1.0533	ppb	03:59:01
1	Co 228.616†	2432.7	2486.2	48.161	ug/L	48.161	ppb	03:59:01
1	Cr 267.716†	19903.2	19545.9	229.18	ug/L	229.18	ppb	03:58:41
1	Cu 324.752†	20335.4	12029.2	41.348	ug/L	41.348	ppb	03:58:41
1	Mn 257.610†	2962436.1	2930967.6	3388.5	ug/L	3388.5	ppb	03:58:35
1	Mo 202.031†	90.1	78.7	12.319	ug/L	12.319	ppb	03:59:01
1	Ni 231.604†	6105.2	5928.1	151.81	ug/L	151.81	ppb	03:59:01
1	P 214.914†	941.1	689.3	312.70	ug/L	312.70	ppb	03:59:01
1	Pb 220.353†	847.9	912.6	108.69	ug/L	108.69	ppb	03:59:01
1	S 181.975 Axial†	134.0	89.7	114.21	ug/L	114.21	ppb	03:59:01
1	Sb 206.836†	55.1	18.9	1.2489	ug/L	1.2489	ppb	03:59:01
1	Se 196.026†	-380.3	-353.0	60.439	ug/L	60.439	ppb	03:59:01
1	Si 251.611†	488309.9	482604.4	15039	ug/L	15039	ppb	03:58:35
1	Sn 189.927†	2.5	-10.2	0.3919	ug/L	0.3919	ppb	03:59:01
1	Ti 334.940†	778961.0	772329.2	1255.8	ug/L	1255.8	ppb	03:58:35
1	Tl 190.801†	-134.0	-93.5	-3.2500	ug/L	-3.2500	ppb	03:59:01
1	U 409.014†	-13292.0	-9638.2	-283.71	ug/L	-283.71	ppb	03:58:35
1	V 292.402†	5458.9	7079.3	37.467	ug/L	37.467	ppb	03:58:41
1	Zn 213.857†	39346.6	38248.4	359.93	ug/L	359.93	ppb	03:58:41
1	SiO2†	484498.5	478825.5	31925	ug/L	31925	ppb	04:00:09
2	Sc Radial	4255.3	4255.3	100	%			03:57:43
2	Y RADIAL	5596.4	5596.4	127.1	%			03:57:43
2	Al 396.153Radial†	15816.8	15959.4	15965	ug/L	15965	ppb	03:57:43
2	Ca 317.933Radial†	2988.6	2967.1	5534.8	ug/L	5534.8	ppb	03:58:03
2	Fe 238.204 Radial†	7753.6	7735.5	82212	ug/L	82212	ppb	03:57:43
2	K 766.490 Radial†	20022.4	16830.0	3393.7	ug/L	3393.7	ppb	03:57:43
2	Mg 279.077 IEC†	93.6	90.8	3421.6	ug/L	3421.6	ppb	03:58:03
2	Na 589.592 Radial†	3820.8	3609.8	1204.1	ug/L	1204.1	ppb	03:57:43
2	Sr 421.552†	5532.1	5436.5	41.936	ug/L	41.936	ppb	03:57:43
2	Sc 361.383	855892.4	855892.4	100.69	%			03:59:06
2	Y 371.029	881555.9	881555.9	125.45	%			03:59:06
2	Ag 328.068†	-4469.8	-4666.7	5.6969	ug/L	5.6969	ppb	03:59:12
2	As 188.979†	-26.4	2.1	31.017	ug/L	31.017	ppb	03:59:32
2	B 249.677†	209.8	690.3	2.7409	ug/L	2.7409	ppb	03:59:12
2	Ba 233.527†	57505.3	57091.1	466.18	ug/L	466.18	ppb	03:59:12
2	Be 313.107†	-4614.6	-243.8	2.7630	ug/L	2.7630	ppb	03:59:12
2	Cd 226.502†	426.7	619.2	-1.2067	ug/L	-1.2067	ppb	03:59:32
2	Co 228.616†	2430.9	2493.1	48.303	ug/L	48.303	ppb	03:59:32
2	Cr 267.716†	19909.8	19623.3	230.08	ug/L	230.08	ppb	03:59:12
2	Cu 324.752†	20353.1	12119.1	41.606	ug/L	41.606	ppb	03:59:12
2	Mn 257.610†	2954188.3	2933310.9	3391.2	ug/L	3391.2	ppb	03:59:06
2	Mo 202.031†	75.5	64.5	11.242	ug/L	11.242	ppb	03:59:32
2	Ni 231.604†	6056.9	5901.7	151.14	ug/L	151.14	ppb	03:59:32

2	P 214.914†	937.0	688.6	312.42 ug/L	312.42 ppb	03:59:32
2	Pb 220.353†	689.1	758.0	89.545 ug/L	89.545 ppb	03:59:32
2	S 181.975 Axial†	132.2	88.4	112.49 ug/L	112.49 ppb	03:59:32
2	Sb 206.836†	51.8	15.8	0.1634 ug/L	0.1634 ppb	03:59:32
2	Se 196.026†	-386.1	-360.1	55.340 ug/L	55.340 ppb	03:59:32
2	Si 251.611†	486635.9	482678.3	15041 ug/L	15041 ppb	03:59:06
2	Sn 189.927†	-6.2	-18.7	-1.1373 ug/L	-1.1373 ppb	03:59:32
2	Ti 334.940†	776910.8	773063.1	1257.0 ug/L	1257.0 ppb	03:59:06
2	Tl 190.801†	-140.5	-100.5	-5.4337 ug/L	-5.4337 ppb	03:59:32
2	U 409.014†	-13103.8	-9498.6	-279.71 ug/L	-279.71 ppb	03:59:06
2	V 292.402†	5411.8	7051.9	37.306 ug/L	37.306 ppb	03:59:12
2	Zn 213.857†	39027.0	38071.0	358.25 ug/L	358.25 ppb	03:59:12
2	SiO2†	485157.4	481202.8	32083 ug/L	32083 ppb	04:00:14
3	Sc Radial	4359.6	4359.6	103 %		03:58:08
3	Y RADIAL	5689.8	5689.8	129.2 %		03:58:08
3	Al 396.153Radial†	16073.7	15831.8	15838 ug/L	15838 ppb	03:58:08
3	Ca 317.933Radial†	2973.6	2881.1	5374.3 ug/L	5374.3 ppb	03:58:28
3	Fe 238.204 Radial†	7897.6	7690.5	81733 ug/L	81733 ppb	03:58:08
3	K 766.490 Radial†	20290.7	16613.0	3350.0 ug/L	3350.0 ppb	03:58:08
3	Mg 279.077 IEC†	90.1	85.1	3202.3 ug/L	3202.3 ppb	03:58:28
3	Na 589.592 Radial†	3958.6	3652.7	1218.4 ug/L	1218.4 ppb	03:58:08
3	Sr 421.552†	5717.8	5485.3	42.314 ug/L	42.314 ppb	03:58:08
3	Sc 361.383	868556.4	868556.4	102.18 %		03:59:38
3	Y 371.029	895275.8	895275.8	127.40 %		03:59:38
3	Ag 328.068†	-4474.7	-4606.8	5.8218 ug/L	5.8218 ppb	03:59:43
3	As 188.979†	-32.4	-3.4	28.594 ug/L	28.594 ppb	04:00:03
3	B 249.677†	178.6	656.7	2.0300 ug/L	2.0300 ppb	03:59:43
3	Ba 233.527†	58433.3	57166.6	466.77 ug/L	466.77 ppb	03:59:43
3	Be 313.107†	-4843.5	-400.9	2.7054 ug/L	2.7054 ppb	03:59:43
3	Cd 226.502†	439.2	625.3	-1.0870 ug/L	-1.0870 ppb	04:00:03
3	Co 228.616†	2428.3	2455.3	47.522 ug/L	47.522 ppb	04:00:03
3	Cr 267.716†	20128.0	19548.5	229.19 ug/L	229.19 ppb	03:59:43
3	Cu 324.752†	20405.3	11875.5	40.833 ug/L	40.833 ppb	03:59:43
3	Mn 257.610†	2989876.0	2925458.8	3382.1 ug/L	3382.1 ppb	03:59:38
3	Mo 202.031†	71.7	59.7	10.847 ug/L	10.847 ppb	04:00:03
3	Ni 231.604†	6069.0	5825.9	149.20 ug/L	149.20 ppb	04:00:03
3	P 214.914†	954.1	691.8	314.72 ug/L	314.72 ppb	04:00:03
3	Pb 220.353†	660.2	719.7	84.818 ug/L	84.818 ppb	04:00:03
3	S 181.975 Axial†	121.3	75.8	96.155 ug/L	96.155 ppb	04:00:03
3	Sb 206.836†	60.3	23.3	2.7457 ug/L	2.7457 ppb	04:00:03
3	Se 196.026†	-400.8	-368.9	48.673 ug/L	48.673 ppb	04:00:03
3	Si 251.611†	493696.0	482541.1	15037 ug/L	15037 ppb	03:59:38
3	Sn 189.927†	3.8	-8.9	0.5916 ug/L	0.5916 ppb	04:00:03
3	Ti 334.940†	788441.6	773097.7	1257.0 ug/L	1257.0 ppb	03:59:38
3	Tl 190.801†	-129.7	-87.8	-1.4830 ug/L	-1.4830 ppb	04:00:03
3	U 409.014†	-13178.9	-9382.3	-276.35 ug/L	-276.35 ppb	03:59:38
3	V 292.402†	5464.5	7025.1	37.179 ug/L	37.179 ppb	03:59:43
3	Zn 213.857†	39716.4	38180.5	359.40 ug/L	359.40 ppb	03:59:43
3	SiO2†	490852.1	479750.7	31986 ug/L	31986 ppb	04:00:20

Mean Data: 245806005|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	861138.9	101.31	%	0.777				0.77%
Sc Radial	4313.9	101	%	1.3				1.24%
Y 371.029	887590.2	126.31	%	0.997				0.79%
Y RADIAL	5654.1	128.4	%	1.15				0.89%
Ag 328.068†	-4675.4	5.6359	ug/L	0.22273	5.6359	ppb	0.22273	3.95%
Al 396.153Radial†	15945.9	15952	ug/L	108.0	15952	ppb	108.0	0.68%
As 188.979†	-2.5	29.047	ug/L	1.7863	29.047	ppb	1.7863	6.15%
B 249.677†	680.8	2.5293	ug/L	0.43404	2.5293	ppb	0.43404	17.16%
Ba 233.527†	57167.6	466.79	ug/L	0.630	466.79	ppb	0.630	0.13%
Be 313.107†	-329.6	2.7306	ug/L	0.02946	2.7306	ppb	0.02946	1.08%
Ca 317.933Radial†	2922.6	5451.7	ug/L	80.42	5451.7	ppb	80.42	1.48%
Cd 226.502†	626.5	-1.1157	ug/L	0.08064	-1.1157	ppb	0.08064	7.23%
Co 228.616†	2478.2	47.996	ug/L	0.4163	47.996	ppb	0.4163	0.87%
Cr 267.716†	19572.5	229.48	ug/L	0.512	229.48	ppb	0.512	0.22%
Cu 324.752†	12007.9	41.262	ug/L	0.3936	41.262	ppb	0.3936	0.95%
Fe 238.204 Radial†	7729.7	82150	ug/L	389.5	82150	ppb	389.5	0.47%
K 766.490 Radial†	16752.5	3378.1	ug/L	24.40	3378.1	ppb	24.40	0.72%

Mg 279.077 IEC†	87.6	3295.9	ug/L	113.11	3295.9	ppb	113.11	3.43%
Mn 257.610†	2929912.4	3387.3	ug/L	4.68	3387.3	ppb	4.68	0.14%
Mo 202.031†	67.7	11.470	ug/L	0.7618	11.470	ppb	0.7618	6.64%
Na 589.592 Radial†	3664.7	1222.4	ug/L	20.59	1222.4	ppb	20.59	1.68%
Ni 231.604†	5885.2	150.71	ug/L	1.358	150.71	ppb	1.358	0.90%
P 214.914†	689.9	313.28	ug/L	1.252	313.28	ppb	1.252	0.40%
Pb 220.353†	796.7	94.351	ug/L	12.6410	94.351	ppb	12.6410	13.40%
S 181.975 Axial†	84.6	107.62	ug/L	9.967	107.62	ppb	9.967	9.26%
Sb 206.836†	19.3	1.3860	ug/L	1.29659	1.3860	ppb	1.29659	93.55%
Se 196.026†	-360.7	54.817	ug/L	5.9002	54.817	ppb	5.9002	10.76%
Si 251.611†	482607.9	15039	ug/L	2.1	15039	ppb	2.1	0.01%
Sn 189.927†	-12.6	-0.0513	ug/L	0.94583	-0.0513	ppb	0.94583	>999.9%
Sr 421.552†	5494.6	42.384	ug/L	0.4878	42.384	ppb	0.4878	1.15%
Ti 334.940†	772830.0	1256.6	ug/L	0.70	1256.6	ppb	0.70	0.06%
Tl 190.801†	-93.9	-3.3889	ug/L	1.97903	-3.3889	ppb	1.97903	58.40%
U 409.014†	-9506.4	-279.92	ug/L	3.682	-279.92	ppb	3.682	1.32%
V 292.402†	7052.1	37.317	ug/L	0.1445	37.317	ppb	0.1445	0.39%
Zn 213.857†	38166.7	359.20	ug/L	0.861	359.20	ppb	0.861	0.24%
SiO2†	479926.3	31998	ug/L	79.9	31998	ppb	79.9	0.25%

Sequence No.: 99
Sample ID: 245806006|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 114
Date Collected: 2/17/2010 04:02:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806006|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4174.2	4174.2	98.2	%			04:04:45
1	Y RADIAL	4866.9	4866.9	110.6	%			04:04:25
1	Al 396.153Radial†	22220.0	22787.0	22796	ug/L	22796	ppb	04:04:25
1	Ca 317.933Radial†	6422.5	6522.1	12166	ug/L	12166	ppb	04:04:25
1	Fe 238.204 Radial†	5727.4	5822.5	61880	ug/L	61880	ppb	04:04:25
1	K 766.490 Radial†	18055.7	15215.6	3066.7	ug/L	3066.7	ppb	04:04:25
1	Mg 279.077 IEC†	147.3	147.3	5623.3	ug/L	5623.3	ppb	04:04:45
1	Na 589.592 Radial†	1817.8	1644.1	548.41	ug/L	548.41	ppb	04:04:25
1	Sr 421.552†	7344.7	7389.7	56.967	ug/L	56.967	ppb	04:04:25
1	Sc 361.383	845832.5	845832.5	99.509	%			04:05:42
1	Y 371.029	753284.8	753284.8	107.19	%			04:05:42
1	Ag 328.068†	-1460.4	-1695.3	10.819	ug/L	10.819	ppb	04:05:42
1	As 188.979†	4.3	32.6	38.874	ug/L	38.874	ppb	04:06:02
1	B 249.677†	331.5	815.1	9.0202	ug/L	9.0202	ppb	04:05:42
1	Ba 233.527†	92876.2	93316.0	759.74	ug/L	759.74	ppb	04:05:42
1	Be 313.107†	923168.5	932065.8	345.15	ug/L	345.15	ppb	04:05:42
1	Cd 226.502†	479.9	677.7	2.0768	ug/L	2.0768	ppb	04:06:02
1	Co 228.616†	1711.2	1798.5	34.360	ug/L	34.360	ppb	04:06:02
1	Cr 267.716†	7459.8	7346.9	85.779	ug/L	85.779	ppb	04:05:42
1	Cu 324.752†	1298651.1	1296969.1	3972.8	ug/L	3972.8	ppb	04:05:42
1	Mn 257.610†	1107218.0	1112115.2	1288.6	ug/L	1288.6	ppb	04:05:42
1	Mo 202.031†	13.7	3.3	5.1923	ug/L	5.1923	ppb	04:06:02
1	Ni 231.604†	3168.8	3070.9	78.636	ug/L	78.636	ppb	04:06:02
1	P 214.914†	4348.4	4127.9	1457.8	ug/L	1457.8	ppb	04:06:02
1	Pb 220.353†	63811.7	64200.3	7949.8	ug/L	7949.8	ppb	04:05:42
1	S 181.975 Axial†	225.5	183.7	235.79	ug/L	235.79	ppb	04:06:02
1	Sb 206.836†	272.3	238.0	75.879	ug/L	75.879	ppb	04:06:02
1	Se 196.026†	-286.7	-264.8	45.665	ug/L	45.665	ppb	04:06:02
1	Si 251.611†	502373.1	504241.3	15713	ug/L	15713	ppb	04:05:42
1	Sn 189.927†	167.2	155.4	30.757	ug/L	30.757	ppb	04:06:02
1	Ti 334.940†	752132.0	757338.5	1230.9	ug/L	1230.9	ppb	04:05:42
1	Tl 190.801†	-106.7	-68.1	-5.4614	ug/L	-5.4614	ppb	04:06:02
1	U 409.014†	85175.9	89111.6	2524.2	ug/L	2524.2	ppb	04:05:42
1	V 292.402†	8597.7	10317.5	69.338	ug/L	69.338	ppb	04:05:42
1	Zn 213.857†	50253.2	49813.6	471.04	ug/L	471.04	ppb	04:05:42
1	SiO2†	509503.3	511399.5	34097	ug/L	34097	ppb	04:07:00
2	Sc Radial	4165.6	4165.6	98.0	%			04:05:10
2	Y RADIAL	4854.5	4854.5	110.3	%			04:04:50
2	Al 396.153Radial†	22061.2	22671.9	22681	ug/L	22681	ppb	04:04:50
2	Ca 317.933Radial†	6360.4	6472.3	12073	ug/L	12073	ppb	04:04:50
2	Fe 238.204 Radial†	5703.2	5810.0	61747	ug/L	61747	ppb	04:04:50
2	K 766.490 Radial†	18048.4	15246.3	3073.0	ug/L	3073.0	ppb	04:04:50
2	Mg 279.077 IEC†	144.4	144.6	5520.1	ug/L	5520.1	ppb	04:05:10
2	Na 589.592 Radial†	1683.3	1510.6	503.89	ug/L	503.89	ppb	04:04:50
2	Sr 421.552†	7200.7	7258.4	55.954	ug/L	55.954	ppb	04:04:50
2	Sc 361.383	841999.7	841999.7	99.058	%			04:06:08
2	Y 371.029	751401.5	751401.5	106.93	%			04:06:08
2	Ag 328.068†	-1322.7	-1562.9	11.409	ug/L	11.409	ppb	04:06:08
2	As 188.979†	-10.2	18.0	32.669	ug/L	32.669	ppb	04:06:28
2	B 249.677†	235.7	719.8	6.7982	ug/L	6.7982	ppb	04:06:08
2	Ba 233.527†	92579.7	93441.5	760.76	ug/L	760.76	ppb	04:06:08
2	Be 313.107†	919099.8	932181.4	345.19	ug/L	345.19	ppb	04:06:08
2	Cd 226.502†	475.4	675.4	2.0635	ug/L	2.0635	ppb	04:06:28
2	Co 228.616†	1740.3	1835.7	35.144	ug/L	35.144	ppb	04:06:28
2	Cr 267.716†	7373.4	7293.9	85.159	ug/L	85.159	ppb	04:06:08
2	Cu 324.752†	1288809.2	1292974.2	3960.6	ug/L	3960.6	ppb	04:06:08
2	Mn 257.610†	1100099.7	1109994.0	1286.1	ug/L	1286.1	ppb	04:06:08
2	Mo 202.031†	24.8	14.5	6.0166	ug/L	6.0166	ppb	04:06:28
2	Ni 231.604†	3183.8	3100.5	79.395	ug/L	79.395	ppb	04:06:28

2	P 214.914†	4315.6	4114.7	1453.0	ug/L	1453.0	ppb	04:06:28
2	Pb 220.353†	63498.3	64175.9	7946.8	ug/L	7946.8	ppb	04:06:08
2	S 181.975 Axial†	209.6	168.7	216.18	ug/L	216.18	ppb	04:06:28
2	Sb 206.836†	267.1	234.0	74.584	ug/L	74.584	ppb	04:06:28
2	Se 196.026†	-296.6	-276.1	38.649	ug/L	38.649	ppb	04:06:28
2	Si 251.611†	498870.0	503002.9	15675	ug/L	15675	ppb	04:06:08
2	Sn 189.927†	171.4	160.4	31.630	ug/L	31.630	ppb	04:06:28
2	Ti 334.940†	747672.3	756277.1	1229.2	ug/L	1229.2	ppb	04:06:08
2	Tl 190.801†	-93.1	-54.9	-1.3050	ug/L	-1.3050	ppb	04:06:28
2	U 409.014†	84802.8	89124.6	2524.5	ug/L	2524.5	ppb	04:06:08
2	V 292.402†	8476.3	10234.2	68.767	ug/L	68.767	ppb	04:06:08
2	Zn 213.857†	49982.6	49770.3	470.65	ug/L	470.65	ppb	04:06:08
2	SiO2†	505051.3	509235.8	33952	ug/L	33952	ppb	04:07:06
3	Sc Radial	4181.4	4181.4	98.4	%			04:05:35
3	Y RADIAL	4856.8	4856.8	110.3	%			04:05:15
3	Al 396.153Radial†	22255.6	22784.3	22793	ug/L	22793	ppb	04:05:15
3	Ca 317.933Radial†	6406.2	6494.2	12114	ug/L	12114	ppb	04:05:15
3	Fe 238.204 Radial†	5740.4	5825.7	61915	ug/L	61915	ppb	04:05:15
3	K 766.490 Radial†	18058.0	15186.4	3060.8	ug/L	3060.8	ppb	04:05:15
3	Mg 279.077 IEC†	144.1	143.8	5489.0	ug/L	5489.0	ppb	04:05:35
3	Na 589.592 Radial†	1798.8	1621.6	540.91	ug/L	540.91	ppb	04:05:15
3	Sr 421.552†	7282.6	7313.8	56.381	ug/L	56.381	ppb	04:05:15
3	Sc 361.383	852130.1	852130.1	100.25	%			04:06:34
3	Y 371.029	759958.8	759958.8	108.14	%			04:06:34
3	Ag 328.068†	-1457.5	-1681.5	10.904	ug/L	10.904	ppb	04:06:34
3	As 188.979†	9.2	37.5	40.938	ug/L	40.938	ppb	04:06:54
3	B 249.677†	336.2	817.3	9.0664	ug/L	9.0664	ppb	04:06:34
3	Ba 233.527†	93431.9	93180.4	758.64	ug/L	758.64	ppb	04:06:34
3	Be 313.107†	932078.8	934097.6	345.89	ug/L	345.89	ppb	04:06:34
3	Cd 226.502†	475.4	669.7	1.9775	ug/L	1.9775	ppb	04:06:54
3	Co 228.616†	1726.8	1801.4	34.425	ug/L	34.425	ppb	04:06:54
3	Cr 267.716†	7515.1	7346.7	85.781	ug/L	85.781	ppb	04:06:34
3	Cu 324.752†	1309330.0	1297976.5	3975.9	ug/L	3975.9	ppb	04:06:34
3	Mn 257.610†	1112684.2	1109344.5	1285.4	ug/L	1285.4	ppb	04:06:34
3	Mo 202.031†	19.1	8.6	5.5913	ug/L	5.5913	ppb	04:06:54
3	Ni 231.604†	3186.7	3065.2	78.490	ug/L	78.490	ppb	04:06:54
3	P 214.914†	4330.4	4077.6	1429.3	ug/L	1429.3	ppb	04:06:54
3	Pb 220.353†	64098.2	64012.2	7926.5	ug/L	7926.5	ppb	04:06:34
3	S 181.975 Axial†	223.7	180.3	231.31	ug/L	231.31	ppb	04:06:54
3	Sb 206.836†	266.1	229.8	73.126	ug/L	73.126	ppb	04:06:54
3	Se 196.026†	-293.1	-269.0	43.298	ug/L	43.298	ppb	04:06:54
3	Si 251.611†	504837.2	502968.1	15674	ug/L	15674	ppb	04:06:34
3	Sn 189.927†	166.8	153.8	30.461	ug/L	30.461	ppb	04:06:54
3	Ti 334.940†	756488.5	756098.2	1228.9	ug/L	1228.9	ppb	04:06:34
3	Tl 190.801†	-94.2	-54.9	-1.3061	ug/L	-1.3061	ppb	04:06:54
3	U 409.014†	85505.3	88807.6	2515.5	ug/L	2515.5	ppb	04:06:34
3	V 292.402†	8640.0	10295.8	69.164	ug/L	69.164	ppb	04:06:34
3	Zn 213.857†	50508.2	49694.8	469.87	ug/L	469.87	ppb	04:06:34
3	SiO2†	501173.4	499306.2	33290	ug/L	33290	ppb	04:07:11

Mean Data: 245806006|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	846654.1	99.605	%	0.6017				0.60%
Sc Radial	4173.8	98.2	%	0.19				0.19%
Y 371.029	754881.7	107.42	%	0.640				0.60%
Y RADIAL	4859.4	110.4	%	0.15				0.14%
Ag 328.068†	-1646.6	11.044	ug/L	0.3185	11.044	ppb	0.3185	2.88%
Al 396.153Radial†	22747.7	22757	ug/L	65.7	22757	ppb	65.7	0.29%
As 188.979†	29.4	37.494	ug/L	4.3039	37.494	ppb	4.3039	11.48%
B 249.677†	784.1	8.2949	ug/L	1.29642	8.2949	ppb	1.29642	15.63%
Ba 233.527†	93312.6	759.71	ug/L	1.057	759.71	ppb	1.057	0.14%
Be 313.107†	932781.6	345.41	ug/L	0.418	345.41	ppb	0.418	0.12%
Ca 317.933Radial†	6496.2	12118	ug/L	46.6	12118	ppb	46.6	0.38%
Cd 226.502†	674.3	2.0393	ug/L	0.05391	2.0393	ppb	0.05391	2.64%
Co 228.616†	1811.9	34.643	ug/L	0.4354	34.643	ppb	0.4354	1.26%
Cr 267.716†	7329.2	85.573	ug/L	0.3588	85.573	ppb	0.3588	0.42%
Cu 324.752†	1295973.3	3969.8	ug/L	8.11	3969.8	ppb	8.11	0.20%
Fe 238.204 Radial†	5819.4	61847	ug/L	88.4	61847	ppb	88.4	0.14%
K 766.490 Radial†	15216.1	3066.8	ug/L	6.07	3066.8	ppb	6.07	0.20%

Mg 279.077 IEC†	145.2	5544.2	ug/L	70.32	5544.2	ppb	70.32	1.27%
Mn 257.610†	1110484.6	1286.7	ug/L	1.67	1286.7	ppb	1.67	0.13%
Mo 202.031†	8.8	5.6001	ug/L	0.41222	5.6001	ppb	0.41222	7.36%
Na 589.592 Radial†	1592.1	531.07	ug/L	23.835	531.07	ppb	23.835	4.49%
Ni 231.604†	3078.9	78.840	ug/L	0.4857	78.840	ppb	0.4857	0.62%
P 214.914†	4106.7	1446.7	ug/L	15.27	1446.7	ppb	15.27	1.06%
Pb 220.353†	64129.4	7941.0	ug/L	12.68	7941.0	ppb	12.68	0.16%
S 181.975 Axial†	177.5	227.76	ug/L	10.274	227.76	ppb	10.274	4.51%
Sb 206.836†	233.9	74.529	ug/L	1.3773	74.529	ppb	1.3773	1.85%
Se 196.026†	-270.0	42.537	ug/L	3.5694	42.537	ppb	3.5694	8.39%
Si 251.611†	503404.1	15687	ug/L	22.6	15687	ppb	22.6	0.14%
Sn 189.927†	156.5	30.949	ug/L	0.6076	30.949	ppb	0.6076	1.96%
Sr 421.552†	7320.6	56.434	ug/L	0.5088	56.434	ppb	0.5088	0.90%
Ti 334.940†	756571.3	1229.7	ug/L	1.09	1229.7	ppb	1.09	0.09%
Tl 190.801†	-59.3	-2.6909	ug/L	2.39941	-2.6909	ppb	2.39941	89.17%
U 409.014†	89014.6	2521.4	ug/L	5.10	2521.4	ppb	5.10	0.20%
V 292.402†	10282.5	69.089	ug/L	0.2928	69.089	ppb	0.2928	0.42%
Zn 213.857†	49759.5	470.52	ug/L	0.595	470.52	ppb	0.595	0.13%
SiO2†	506647.2	33780	ug/L	430.0	33780	ppb	430.0	1.27%

Sequence No.: 100
Sample ID: 245806007|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 115
Date Collected: 2/17/2010 04:09:23
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806007|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4128.7	4128.7	97.1	%			04:11:37
1	Y RADIAL	4753.9	4753.9	108.0	%			04:11:17
1	Al 396.153Radial†	47416.7	48979.0	48998	ug/L	48998	ppb	04:11:17
1	Ca 317.933Radial†	12861.0	13223.3	24666	ug/L	24666	ppb	04:11:17
1	Fe 238.204 Radial†	7038.1	7236.4	76906	ug/L	76906	ppb	04:11:17
1	K 766.490 Radial†	50614.6	48940.8	9870.1	ug/L	9870.1	ppb	04:11:17
1	Mg 279.077 IEC†	272.4	277.8	10649	ug/L	10649	ppb	04:11:37
1	Na 589.592 Radial†	888.0	707.2	235.89	ug/L	235.89	ppb	04:11:17
1	Sr 421.552†	23886.1	24503.2	189.01	ug/L	189.01	ppb	04:11:17
1	Sc 361.383	851701.2	851701.2	100.20	%			04:12:34
1	Y 371.029	745231.5	745231.5	106.05	%			04:12:34
1	Ag 328.068†	-3753.7	-3973.9	6.9079	ug/L	6.9079	ppb	04:12:40
1	As 188.979†	-5.6	22.7	45.350	ug/L	45.350	ppb	04:13:00
1	B 249.677†	716.2	1196.7	15.545	ug/L	15.545	ppb	04:12:40
1	Ba 233.527†	93087.5	92883.7	756.85	ug/L	756.85	ppb	04:12:40
1	Be 313.107†	41301.4	45558.4	21.393	ug/L	21.393	ppb	04:12:40
1	Cd 226.502†	919.4	1113.1	5.1652	ug/L	5.1652	ppb	04:13:00
1	Co 228.616†	1952.7	2027.7	37.208	ug/L	37.208	ppb	04:13:00
1	Cr 267.716†	6010.3	5848.7	69.634	ug/L	69.634	ppb	04:13:00
1	Cu 324.752†	328866.4	320118.8	984.03	ug/L	984.03	ppb	04:12:40
1	Mn 257.610†	2178611.9	2173713.0	2514.3	ug/L	2514.3	ppb	04:12:34
1	Mo 202.031†	12.4	1.9	6.4084	ug/L	6.4084	ppb	04:13:00
1	Ni 231.604†	2482.5	2364.1	60.528	ug/L	60.528	ppb	04:13:00
1	P 214.914†	3126.0	2877.9	1352.2	ug/L	1352.2	ppb	04:13:00
1	Pb 220.353†	6174.7	6236.0	775.51	ug/L	775.51	ppb	04:13:00
1	S 181.975 Axial†	1265.8	1220.4	1585.8	ug/L	1585.8	ppb	04:13:00
1	Sb 206.836†	84.7	48.9	7.7368	ug/L	7.7368	ppb	04:13:00
1	Se 196.026†	-361.0	-336.9	52.851	ug/L	52.851	ppb	04:13:00
1	Si 251.611†	905739.1	903326.9	28150	ug/L	28150	ppb	04:12:34
1	Sn 189.927†	-96.1	-108.5	-14.412	ug/L	-14.412	ppb	04:13:00
1	Ti 334.940†	1263796.1	1262777.7	2054.7	ug/L	2054.7	ppb	04:12:34
1	Tl 190.801†	-137.0	-97.6	-2.2661	ug/L	-2.2661	ppb	04:13:00
1	U 409.014†	6205.1	9708.0	266.86	ug/L	266.86	ppb	04:12:40
1	V 292.402†	18418.7	20059.4	132.62	ug/L	132.62	ppb	04:12:40
1	Zn 213.857†	47835.2	47052.4	446.00	ug/L	446.00	ppb	04:12:40
1	SiO2†	899722.0	897314.6	59827	ug/L	59827	ppb	04:14:08
2	Sc Radial	4155.9	4155.9	97.8	%			04:12:02
2	Y RADIAL	4768.0	4768.0	108.3	%			04:11:42
2	Al 396.153Radial†	47081.1	48316.7	48336	ug/L	48336	ppb	04:11:42
2	Ca 317.933Radial†	12823.7	13098.7	24434	ug/L	24434	ppb	04:11:42
2	Fe 238.204 Radial†	6988.2	7138.0	75861	ug/L	75861	ppb	04:11:42
2	K 766.490 Radial†	50401.1	48382.1	9757.4	ug/L	9757.4	ppb	04:11:42
2	Mg 279.077 IEC†	278.8	282.4	10828	ug/L	10828	ppb	04:12:02
2	Na 589.592 Radial†	850.5	662.9	221.12	ug/L	221.12	ppb	04:11:42
2	Sr 421.552†	23581.0	24030.4	185.36	ug/L	185.36	ppb	04:11:42
2	Sc 361.383	847505.0	847505.0	99.705	%			04:13:05
2	Y 371.029	743443.2	743443.2	105.79	%			04:13:05
2	Ag 328.068†	-3722.6	-3961.3	6.6208	ug/L	6.6208	ppb	04:13:11
2	As 188.979†	-17.8	10.5	39.881	ug/L	39.881	ppb	04:13:31
2	B 249.677†	759.6	1243.8	16.821	ug/L	16.821	ppb	04:13:11
2	Ba 233.527†	92872.3	93127.9	758.80	ug/L	758.80	ppb	04:13:11
2	Be 313.107†	41331.6	45792.9	21.462	ug/L	21.462	ppb	04:13:11
2	Cd 226.502†	931.0	1129.3	5.4635	ug/L	5.4635	ppb	04:13:31
2	Co 228.616†	1955.2	2039.8	37.492	ug/L	37.492	ppb	04:13:31
2	Cr 267.716†	6064.8	5933.0	70.596	ug/L	70.596	ppb	04:13:31
2	Cu 324.752†	329721.1	322601.1	991.57	ug/L	991.57	ppb	04:13:11
2	Mn 257.610†	2158184.8	2163991.0	2503.0	ug/L	2503.0	ppb	04:13:05
2	Mo 202.031†	9.7	-0.8	6.1236	ug/L	6.1236	ppb	04:13:31
2	Ni 231.604†	2482.3	2376.1	60.835	ug/L	60.835	ppb	04:13:31

2	P 214.914†	3127.3	2894.6	1360.7	ug/L	1360.7 ppb	04:13:31
2	Pb 220.353†	6202.0	6293.9	782.64	ug/L	782.64 ppb	04:13:31
2	S 181.975 Axial†	1260.2	1221.0	1586.7	ug/L	1586.7 ppb	04:13:31
2	Sb 206.836†	98.1	62.7	12.429	ug/L	12.429 ppb	04:13:31
2	Se 196.026†	-357.6	-335.3	50.396	ug/L	50.396 ppb	04:13:31
2	Si 251.611†	896383.0	898418.9	27997	ug/L	27997 ppb	04:13:05
2	Sn 189.927†	-113.5	-126.4	-17.677	ug/L	-17.677 ppb	04:13:31
2	Ti 334.940†	1252849.5	1258043.8	2047.0	ug/L	2047.0 ppb	04:13:05
2	Tl 190.801†	-143.9	-105.3	-4.7911	ug/L	-4.7911 ppb	04:13:31
2	U 409.014†	6327.4	9861.2	271.33	ug/L	271.33 ppb	04:13:11
2	V 292.402†	18517.1	20249.1	134.17	ug/L	134.17 ppb	04:13:11
2	Zn 213.857†	47845.3	47298.8	448.55	ug/L	448.55 ppb	04:13:11
2	SiO2†	905969.3	908026.3	60541	ug/L	60541 ppb	04:14:14
3	Sc Radial	4120.3	4120.3	96.9	%		04:12:27
3	Y RADIAL	4741.4	4741.4	107.7	%		04:12:07
3	Al 396.153Radial†	47930.8	49609.2	49629	ug/L	49629 ppb	04:12:07
3	Ca 317.933Radial†	13043.9	13439.1	25069	ug/L	25069 ppb	04:12:07
3	Fe 238.204 Radial†	7126.2	7342.1	78030	ug/L	78030 ppb	04:12:07
3	K 766.490 Radial†	51271.6	49725.3	10028	ug/L	10028 ppb	04:12:07
3	Mg 279.077 IEC†	271.2	277.1	10620	ug/L	10620 ppb	04:12:27
3	Na 589.592 Radial†	934.9	757.5	252.67	ug/L	252.67 ppb	04:12:07
3	Sr 421.552†	24048.1	24720.6	190.69	ug/L	190.69 ppb	04:12:07
3	Sc 361.383	858241.4	858241.4	100.97	%		04:13:37
3	Y 371.029	752271.8	752271.8	107.05	%		04:13:37
3	Ag 328.068†	-3719.9	-3911.9	7.5751	ug/L	7.5751 ppb	04:13:42
3	As 188.979†	-16.9	11.5	40.842	ug/L	40.842 ppb	04:14:02
3	B 249.677†	732.7	1207.6	15.618	ug/L	15.618 ppb	04:13:42
3	Ba 233.527†	92728.1	91819.8	748.24	ug/L	748.24 ppb	04:13:42
3	Be 313.107†	41288.2	45231.2	21.253	ug/L	21.253 ppb	04:13:42
3	Cd 226.502†	943.3	1129.8	5.2447	ug/L	5.2447 ppb	04:14:02
3	Co 228.616†	1971.7	2031.7	37.289	ug/L	37.289 ppb	04:14:02
3	Cr 267.716†	6010.0	5802.7	69.120	ug/L	69.120 ppb	04:14:02
3	Cu 324.752†	328730.6	317483.2	976.02	ug/L	976.02 ppb	04:13:42
3	Mn 257.610†	2185019.9	2163490.6	2502.6	ug/L	2502.6 ppb	04:13:37
3	Mo 202.031†	9.4	-1.2	6.2670	ug/L	6.2670 ppb	04:14:02
3	Ni 231.604†	2487.1	2349.7	60.161	ug/L	60.161 ppb	04:14:02
3	P 214.914†	3130.7	2858.7	1342.4	ug/L	1342.4 ppb	04:14:02
3	Pb 220.353†	6248.5	6262.1	778.79	ug/L	778.79 ppb	04:14:02
3	S 181.975 Axial†	1278.4	1223.3	1589.5	ug/L	1589.5 ppb	04:14:02
3	Sb 206.836†	101.6	65.0	13.155	ug/L	13.155 ppb	04:14:02
3	Se 196.026†	-364.6	-337.8	55.999	ug/L	55.999 ppb	04:14:02
3	Si 251.611†	908832.6	899502.4	28031	ug/L	28031 ppb	04:13:37
3	Sn 189.927†	-107.6	-119.2	-16.253	ug/L	-16.253 ppb	04:14:02
3	Ti 334.940†	1268045.7	1257374.9	2046.0	ug/L	2046.0 ppb	04:13:37
3	Tl 190.801†	-134.6	-94.2	-1.3122	ug/L	-1.3122 ppb	04:14:02
3	U 409.014†	6354.0	9808.2	269.58	ug/L	269.58 ppb	04:13:42
3	V 292.402†	18488.3	19988.2	131.96	ug/L	131.96 ppb	04:13:42
3	Zn 213.857†	47739.9	46594.2	441.38	ug/L	441.38 ppb	04:13:42
3	SiO2†	899231.4	889986.1	59338	ug/L	59338 ppb	04:14:20

Mean Data: 245806007|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	852482.5	100.29	%	0.637				0.63%
Sc Radial	4135.0	97.3	%	0.44				0.45%
Y 371.029	746982.2	106.30	%	0.664				0.62%
Y RADIAL	4754.4	108.0	%	0.30				0.28%
Ag 328.068†	-3949.1	7.0346	ug/L	0.48960	7.0346	ppb	0.48960	6.96%
Al 396.153Radial†	48968.3	48987	ug/L	646.6	48987	ppb	646.6	1.32%
As 188.979†	14.9	42.024	ug/L	2.9198	42.024	ppb	2.9198	6.95%
B 249.677†	1216.0	15.995	ug/L	0.7169	15.995	ppb	0.7169	4.48%
Ba 233.527†	92610.4	754.63	ug/L	5.618	754.63	ppb	5.618	0.74%
Be 313.107†	45527.5	21.370	ug/L	0.1064	21.370	ppb	0.1064	0.50%
Ca 317.933Radial†	13253.7	24723	ug/L	321.3	24723	ppb	321.3	1.30%
Cd 226.502†	1124.0	5.2912	ug/L	0.15447	5.2912	ppb	0.15447	2.92%
Co 228.616†	2033.1	37.329	ug/L	0.1462	37.329	ppb	0.1462	0.39%
Cr 267.716†	5861.5	69.783	ug/L	0.7492	69.783	ppb	0.7492	1.07%
Cu 324.752†	320067.7	983.87	ug/L	7.778	983.87	ppb	7.778	0.79%
Fe 238.204 Radial†	7238.8	76932	ug/L	1084.7	76932	ppb	1084.7	1.41%
K 766.490 Radial†	49016.1	9885.3	ug/L	136.10	9885.3	ppb	136.10	1.38%

Mg 279.077 IEC†	279.1	10699	ug/L	113.0	10699	ppb	113.0	1.06%
Mn 257.610†	2167064.9	2506.6	ug/L	6.64	2506.6	ppb	6.64	0.26%
Mo 202.031†	0.0	6.2663	ug/L	0.14241	6.2663	ppb	0.14241	2.27%
Na 589.592 Radial†	709.2	236.56	ug/L	15.786	236.56	ppb	15.786	6.67%
Ni 231.604†	2363.3	60.508	ug/L	0.3377	60.508	ppb	0.3377	0.56%
P 214.914†	2877.0	1351.8	ug/L	9.12	1351.8	ppb	9.12	0.67%
Pb 220.353†	6264.0	778.98	ug/L	3.569	778.98	ppb	3.569	0.46%
S 181.975 Axial†	1221.5	1587.3	ug/L	1.89	1587.3	ppb	1.89	0.12%
Sb 206.836†	58.8	11.107	ug/L	2.9413	11.107	ppb	2.9413	26.48%
Se 196.026†	-336.7	53.082	ug/L	2.8088	53.082	ppb	2.8088	5.29%
Si 251.611†	900416.1	28059	ug/L	80.3	28059	ppb	80.3	0.29%
Sn 189.927†	-118.0	-16.114	ug/L	1.6367	-16.114	ppb	1.6367	10.16%
Sr 421.552†	24418.1	188.35	ug/L	2.722	188.35	ppb	2.722	1.45%
Ti 334.940†	1259398.8	2049.2	ug/L	4.78	2049.2	ppb	4.78	0.23%
Tl 190.801†	-99.0	-2.7898	ug/L	1.79763	-2.7898	ppb	1.79763	64.44%
U 409.014†	9792.5	269.25	ug/L	2.253	269.25	ppb	2.253	0.84%
V 292.402†	20098.9	132.91	ug/L	1.134	132.91	ppb	1.134	0.85%
Zn 213.857†	46981.8	445.31	ug/L	3.638	445.31	ppb	3.638	0.82%
SiO2†	898442.3	59902	ug/L	604.9	59902	ppb	604.9	1.01%

Sequence No.: 101
Sample ID: 245806008|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 116
Date Collected: 2/17/2010 04:16:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806008|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4276.6	4276.6	101	%			04:18:26
1	Y RADIAL	5283.3	5283.3	120.0	%			04:18:26
1	Al 396.153Radial†	18094.5	18144.6	18152	ug/L	18152	ppb	04:18:26
1	Ca 317.933Radial†	4013.8	3971.3	7407.9	ug/L	7407.9	ppb	04:18:26
1	Fe 238.204 Radial†	8104.5	8045.7	85510	ug/L	85510	ppb	04:18:26
1	K 766.490 Radial†	22005.5	18701.4	3771.3	ug/L	3771.3	ppb	04:18:26
1	Mg 279.077 IEC†	94.1	90.8	3417.4	ug/L	3417.4	ppb	04:18:46
1	Na 589.592 Radial†	4376.5	4143.0	1382.0	ug/L	1382.0	ppb	04:18:26
1	Sr 421.552†	8033.6	7895.4	60.908	ug/L	60.908	ppb	04:18:26
1	Sc 361.383	846233.3	846233.3	99.556	%			04:19:43
1	Y 371.029	821736.0	821736.0	116.94	%			04:19:43
1	Ag 328.068†	-4719.2	-4967.9	5.3884	ug/L	5.3884	ppb	04:19:48
1	As 188.979†	-42.9	-14.7	29.627	ug/L	29.627	ppb	04:20:08
1	B 249.677†	640.2	1124.9	12.172	ug/L	12.172	ppb	04:19:48
1	Ba 233.527†	35640.7	35780.9	293.28	ug/L	293.28	ppb	04:19:48
1	Be 313.107†	-11719.5	-7432.6	1.4128	ug/L	1.4128	ppb	04:19:48
1	Cd 226.502†	461.5	659.0	-1.1130	ug/L	-1.1130	ppb	04:20:08
1	Co 228.616†	6736.2	6845.1	137.77	ug/L	137.77	ppb	04:20:08
1	Cr 267.716†	13461.3	13371.7	157.42	ug/L	157.42	ppb	04:19:48
1	Cu 324.752†	22985.4	14993.8	50.571	ug/L	50.571	ppb	04:19:48
1	Mn 257.610†	1813521.5	1821042.8	2108.7	ug/L	2108.7	ppb	04:19:43
1	Mo 202.031†	59.7	49.5	10.403	ug/L	10.403	ppb	04:20:08
1	Ni 231.604†	3832.4	3736.0	95.608	ug/L	95.608	ppb	04:20:08
1	P 214.914†	1064.1	826.9	385.34	ug/L	385.34	ppb	04:20:08
1	Pb 220.353†	451.0	526.6	61.060	ug/L	61.060	ppb	04:20:08
1	S 181.975 Axial†	248.3	206.5	266.43	ug/L	266.43	ppb	04:20:08
1	Sb 206.836†	51.8	16.4	-1.5992	ug/L	-1.5992	ppb	04:20:08
1	Se 196.026†	-401.6	-380.1	54.381	ug/L	54.381	ppb	04:20:08
1	Si 251.611†	536703.8	538486.0	16781	ug/L	16781	ppb	04:19:43
1	Sn 189.927†	8.4	-4.2	1.8159	ug/L	1.8159	ppb	04:20:08
1	Ti 334.940†	1116275.6	1122748.8	1825.6	ug/L	1825.6	ppb	04:19:43
1	Tl 190.801†	-118.5	-79.9	-0.7874	ug/L	-0.7874	ppb	04:20:08
1	U 409.014†	-12251.9	-8791.4	-259.83	ug/L	-259.83	ppb	04:19:43
1	V 292.402†	7622.4	9333.7	52.800	ug/L	52.800	ppb	04:19:48
1	Zn 213.857†	34287.6	33752.9	315.95	ug/L	315.95	ppb	04:19:48
1	SiO2†	546792.7	548612.6	36578	ug/L	36578	ppb	04:21:16
2	Sc Radial	4299.9	4299.9	101	%			04:18:51
2	Y RADIAL	5314.6	5314.6	120.7	%			04:18:51
2	Al 396.153Radial†	18244.3	18195.4	18202	ug/L	18202	ppb	04:18:51
2	Ca 317.933Radial†	4042.5	3978.1	7420.6	ug/L	7420.6	ppb	04:18:51
2	Fe 238.204 Radial†	8161.2	8058.1	85643	ug/L	85643	ppb	04:18:51
2	K 766.490 Radial†	22101.8	18678.3	3766.7	ug/L	3766.7	ppb	04:18:51
2	Mg 279.077 IEC†	93.2	89.4	3364.0	ug/L	3364.0	ppb	04:19:11
2	Na 589.592 Radial†	4374.7	4117.8	1373.5	ug/L	1373.5	ppb	04:18:51
2	Sr 421.552†	8049.2	7867.7	60.693	ug/L	60.693	ppb	04:18:51
2	Sc 361.383	862242.4	862242.4	101.44	%			04:20:14
2	Y 371.029	836318.6	836318.6	119.01	%			04:20:14
2	Ag 328.068†	-4796.8	-4956.4	5.4798	ug/L	5.4798	ppb	04:20:19
2	As 188.979†	-54.5	-25.5	25.163	ug/L	25.163	ppb	04:20:40
2	B 249.677†	563.1	1037.0	10.091	ug/L	10.091	ppb	04:20:19
2	Ba 233.527†	35787.8	35261.2	289.06	ug/L	289.06	ppb	04:20:19
2	Be 313.107†	-11526.0	-7023.3	1.5667	ug/L	1.5667	ppb	04:20:19
2	Cd 226.502†	466.8	655.7	-1.1660	ug/L	-1.1660	ppb	04:20:40
2	Co 228.616†	6730.8	6714.1	135.03	ug/L	135.03	ppb	04:20:40
2	Cr 267.716†	13474.7	13133.8	154.66	ug/L	154.66	ppb	04:20:19
2	Cu 324.752†	23552.4	15124.2	50.975	ug/L	50.975	ppb	04:20:19
2	Mn 257.610†	1845747.0	1818989.7	2106.3	ug/L	2106.3	ppb	04:20:14
2	Mo 202.031†	48.4	37.2	9.5011	ug/L	9.5011	ppb	04:20:40
2	Ni 231.604†	3855.2	3687.0	94.355	ug/L	94.355	ppb	04:20:40

2	P 214.914†	1068.3	811.1	376.41 ug/L	376.41 ppb	04:20:40
2	Pb 220.353†	443.1	510.4	59.052 ug/L	59.052 ppb	04:20:40
2	S 181.975 Axial†	245.2	198.8	256.38 ug/L	256.38 ppb	04:20:40
2	Sb 206.836†	44.5	8.2	-4.4153 ug/L	-4.4153 ppb	04:20:40
2	Se 196.026†	-397.0	-368.1	61.818 ug/L	61.818 ppb	04:20:40
2	Si 251.611†	547621.2	539239.2	16804 ug/L	16804 ppb	04:20:14
2	Sn 189.927†	-2.1	-14.7	-0.0667 ug/L	-0.0667 ppb	04:20:40
2	Ti 334.940†	1138379.9	1123721.4	1827.2 ug/L	1827.2 ppb	04:20:14
2	Tl 190.801†	-126.7	-85.8	-2.6251 ug/L	-2.6251 ppb	04:20:40
2	U 409.014†	-12347.7	-8657.3	-256.03 ug/L	-256.03 ppb	04:20:14
2	V 292.402†	7590.2	9159.8	51.514 ug/L	51.514 ppb	04:20:19
2	Zn 213.857†	34481.1	33304.1	311.56 ug/L	311.56 ppb	04:20:19
2	SiO2†	544390.0	536046.6	35740 ug/L	35740 ppb	04:21:22
3	Sc Radial	4246.8	4246.8	99.9 %		04:19:16
3	Y RADIAL	5264.1	5264.1	119.6 %		04:19:16
3	Al 396.153Radial†	18013.4	18190.0	18197 ug/L	18197 ppb	04:19:16
3	Ca 317.933Radial†	4003.4	3989.0	7440.9 ug/L	7440.9 ppb	04:19:16
3	Fe 238.204 Radial†	8067.8	8065.6	85722 ug/L	85722 ppb	04:19:16
3	K 766.490 Radial†	21914.5	18764.3	3784.0 ug/L	3784.0 ppb	04:19:16
3	Mg 279.077 IEC†	95.4	92.8	3492.6 ug/L	3492.6 ppb	04:19:36
3	Na 589.592 Radial†	4407.1	4204.3	1402.4 ug/L	1402.4 ppb	04:19:16
3	Sr 421.552†	7975.5	7893.4	60.892 ug/L	60.892 ppb	04:19:16
3	Sc 361.383	861457.7	861457.7	101.35 %		04:20:45
3	Y 371.029	834579.3	834579.3	118.76 %		04:20:45
3	Ag 328.068†	-4842.0	-5005.3	5.2726 ug/L	5.2726 ppb	04:20:51
3	As 188.979†	-51.0	-22.0	26.672 ug/L	26.672 ppb	04:21:11
3	B 249.677†	646.4	1119.7	12.022 ug/L	12.022 ppb	04:20:51
3	Ba 233.527†	35872.3	35376.7	290.00 ug/L	290.00 ppb	04:20:51
3	Be 313.107†	-11430.2	-6939.2	1.6040 ug/L	1.6040 ppb	04:20:51
3	Cd 226.502†	474.6	663.8	-1.0790 ug/L	-1.0790 ppb	04:21:11
3	Co 228.616†	6725.3	6714.8	135.04 ug/L	135.04 ppb	04:21:11
3	Cr 267.716†	13382.3	13054.7	153.74 ug/L	153.74 ppb	04:20:51
3	Cu 324.752†	23546.4	15139.4	51.027 ug/L	51.027 ppb	04:20:51
3	Mn 257.610†	1850426.5	1825264.2	2113.6 ug/L	2113.6 ppb	04:20:45
3	Mo 202.031†	53.3	42.1	9.8697 ug/L	9.8697 ppb	04:21:11
3	Ni 231.604†	3863.1	3698.2	94.643 ug/L	94.643 ppb	04:21:11
3	P 214.914†	1054.5	798.5	369.31 ug/L	369.31 ppb	04:21:11
3	Pb 220.353†	410.4	478.5	55.097 ug/L	55.097 ppb	04:21:11
3	S 181.975 Axial†	249.2	203.0	261.90 ug/L	261.90 ppb	04:21:11
3	Sb 206.836†	49.3	12.9	-2.8493 ug/L	-2.8493 ppb	04:21:11
3	Se 196.026†	-394.6	-366.0	63.274 ug/L	63.274 ppb	04:21:11
3	Si 251.611†	548864.7	540957.8	16858 ug/L	16858 ppb	04:20:45
3	Sn 189.927†	-10.9	-23.4	-1.6247 ug/L	-1.6247 ppb	04:21:11
3	Ti 334.940†	1139097.5	1125451.6	1830.0 ug/L	1830.0 ppb	04:20:45
3	Tl 190.801†	-134.1	-93.2	-4.9108 ug/L	-4.9108 ppb	04:21:11
3	U 409.014†	-12407.8	-8727.7	-258.04 ug/L	-258.04 ppb	04:20:45
3	V 292.402†	7561.9	9138.7	51.351 ug/L	51.351 ppb	04:20:51
3	Zn 213.857†	34455.6	33310.0	311.61 ug/L	311.61 ppb	04:20:51
3	SiO2†	552721.4	544756.0	36321 ug/L	36321 ppb	04:21:27

Mean Data: 245806008|948071|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	856644.5	100.78	%	1.062				1.05%
Sc Radial	4274.4	101	%	0.6				0.62%
Y 371.029	830878.0	118.24	%	1.133				0.96%
Y RADIAL	5287.4	120.1	%	0.58				0.48%
Ag 328.068†	-4976.6	5.3803	ug/L	0.10382	5.3803	ppb	0.10382	1.93%
Al 396.153Radial†	18176.7	18184	ug/L	27.9	18184	ppb	27.9	0.15%
As 188.979†	-20.7	27.154	ug/L	2.2710	27.154	ppb	2.2710	8.36%
B 249.677†	1093.9	11.428	ug/L	1.1609	11.428	ppb	1.1609	10.16%
Ba 233.527†	35472.9	290.78	ug/L	2.214	290.78	ppb	2.214	0.76%
Be 313.107†	-7131.7	1.5279	ug/L	0.10137	1.5279	ppb	0.10137	6.63%
Ca 317.933Radial†	3979.4	7423.1	ug/L	16.64	7423.1	ppb	16.64	0.22%
Cd 226.502†	659.5	-1.1193	ug/L	0.04386	-1.1193	ppb	0.04386	3.92%
Co 228.616†	6758.0	135.94	ug/L	1.579	135.94	ppb	1.579	1.16%
Cr 267.716†	13186.8	155.27	ug/L	1.919	155.27	ppb	1.919	1.24%
Cu 324.752†	15085.8	50.858	ug/L	0.2496	50.858	ppb	0.2496	0.49%
Fe 238.204 Radial†	8056.5	85625	ug/L	106.9	85625	ppb	106.9	0.12%
K 766.490 Radial†	18714.6	3774.0	ug/L	8.97	3774.0	ppb	8.97	0.24%

Mg 279.077 IEC†	91.0	3424.7	ug/L	64.63	3424.7	ppb	64.63	1.89%
Mn 257.610†	1821765.5	2109.5	ug/L	3.69	2109.5	ppb	3.69	0.18%
Mo 202.031†	42.9	9.9245	ug/L	0.45340	9.9245	ppb	0.45340	4.57%
Na 589.592 Radial†	4155.1	1386.0	ug/L	14.84	1386.0	ppb	14.84	1.07%
Ni 231.604†	3707.1	94.869	ug/L	0.6560	94.869	ppb	0.6560	0.69%
P 214.914†	812.2	377.02	ug/L	8.029	377.02	ppb	8.029	2.13%
Pb 220.353†	505.2	58.403	ug/L	3.0342	58.403	ppb	3.0342	5.20%
S 181.975 Axial†	202.7	261.57	ug/L	5.032	261.57	ppb	5.032	1.92%
Sb 206.836†	12.5	-2.9546	ug/L	1.41099	-2.9546	ppb	1.41099	47.76%
Se 196.026†	-371.4	59.825	ug/L	4.7697	59.825	ppb	4.7697	7.97%
Si 251.611†	539561.0	16814	ug/L	39.5	16814	ppb	39.5	0.23%
Sn 189.927†	-14.1	0.0415	ug/L	1.72287	0.0415	ppb	1.72287	>999.9%
Sr 421.552†	7885.5	60.831	ug/L	0.1195	60.831	ppb	0.1195	0.20%
Ti 334.940†	1123973.9	1827.6	ug/L	2.22	1827.6	ppb	2.22	0.12%
Tl 190.801†	-86.3	-2.7744	ug/L	2.06579	-2.7744	ppb	2.06579	74.46%
U 409.014†	-8725.5	-257.97	ug/L	1.901	-257.97	ppb	1.901	0.74%
V 292.402†	9210.7	51.888	ug/L	0.7937	51.888	ppb	0.7937	1.53%
Zn 213.857†	33455.6	313.04	ug/L	2.523	313.04	ppb	2.523	0.81%
SiO2†	543138.4	36213	ug/L	429.2	36213	ppb	429.2	1.19%

Sequence No.: 102
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/17/2010 04:23:39
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4106.7	4106.7	96.6	%			04:25:52
1	Y RADIAL	4274.2	4274.2	97.09	%			04:25:32
1	Al 396.153Radial†	4970.9	5304.5	5282.1	ug/L	5282.1	ppb	04:25:32
1	Ca 317.933Radial†	2775.7	2854.8	5325.4	ug/L	5325.4	ppb	04:25:52
1	Fe 238.204 Radial†	515.0	523.1	5574.2	ug/L	5574.2	ppb	04:25:52
1	K 766.490 Radial†	27695.9	25496.9	5140.3	ug/L	5140.3	ppb	04:25:32
1	Mg 279.077 IEC†	138.3	140.4	5422.5	ug/L	5422.5	ppb	04:25:52
1	Na 589.592 Radial†	30325.6	31183.5	10402	ug/L	10402	ppb	04:25:32
1	Sr 421.552†	65180.1	67379.3	520.22	ug/L	520.22	ppb	04:25:32
1	Sc 361.383	843295.8	843295.8	99.210	%			04:26:49
1	Y 371.029	675064.4	675064.4	96.063	%			04:26:49
1	Ag 328.068†	104366.3	104969.4	507.43	ug/L	507.43	ppb	04:26:54
1	As 188.979†	1182.2	1220.0	517.86	ug/L	517.86	ppb	04:27:14
1	B 249.677†	20984.8	21633.7	506.59	ug/L	506.59	ppb	04:26:54
1	Ba 233.527†	62384.2	62862.0	511.69	ug/L	511.69	ppb	04:26:54
1	Be 313.107†	1395355.0	1410801.7	519.36	ug/L	519.36	ppb	04:26:49
1	Cd 226.502†	42253.8	42785.6	500.19	ug/L	500.19	ppb	04:26:54
1	Co 228.616†	24342.5	24615.1	513.36	ug/L	513.36	ppb	04:26:54
1	Cr 267.716†	42798.4	42989.4	500.76	ug/L	500.76	ppb	04:26:54
1	Cu 324.752†	175717.3	169022.0	517.52	ug/L	517.52	ppb	04:26:54
1	Mn 257.610†	448208.3	451206.5	520.74	ug/L	520.74	ppb	04:26:49
1	Mo 202.031†	6747.7	6790.9	505.10	ug/L	505.10	ppb	04:27:14
1	Ni 231.604†	19637.4	19680.2	503.78	ug/L	503.78	ppb	04:26:54
1	P 214.914†	4795.4	4591.6	2446.5	ug/L	2446.5	ppb	04:27:14
1	Pb 220.353†	3985.6	4090.9	508.43	ug/L	508.43	ppb	04:27:14
1	S 181.975 Axial†	832.5	796.2	1039.7	ug/L	1039.7	ppb	04:27:14
1	Sb 206.836†	1496.0	1472.2	516.33	ug/L	516.33	ppb	04:27:14
1	Se 196.026†	850.0	880.1	533.08	ug/L	533.08	ppb	04:27:14
1	Si 251.611†	83485.7	83538.0	2597.0	ug/L	2597.0	ppb	04:26:54
1	Sn 189.927†	2788.3	2797.9	502.59	ug/L	502.59	ppb	04:27:14
1	Ti 334.940†	312223.1	316201.4	513.80	ug/L	513.80	ppb	04:26:54
1	Tl 190.801†	1575.9	1627.5	517.24	ug/L	517.24	ppb	04:27:14
1	U 409.014†	13771.6	17396.4	492.43	ug/L	492.43	ppb	04:26:54
1	V 292.402†	66868.0	69077.6	506.96	ug/L	506.96	ppb	04:26:54
1	Zn 213.857†	52608.7	52339.7	506.08	ug/L	506.08	ppb	04:26:54
1	SiO2†	83599.4	83645.3	5563.2	ug/L	5563.2	ppb	04:28:22
2	Sc Radial	4119.9	4119.9	96.9	%			04:26:17
2	Y RADIAL	4277.3	4277.3	97.16	%			04:25:57
2	Al 396.153Radial†	4880.4	5194.6	5172.2	ug/L	5172.2	ppb	04:25:57
2	Ca 317.933Radial†	2782.7	2852.9	5321.7	ug/L	5321.7	ppb	04:26:17
2	Fe 238.204 Radial†	515.8	522.2	5564.6	ug/L	5564.6	ppb	04:26:17
2	K 766.490 Radial†	27365.8	25064.2	5053.0	ug/L	5053.0	ppb	04:25:57
2	Mg 279.077 IEC†	142.1	143.9	5559.2	ug/L	5559.2	ppb	04:26:17
2	Na 589.592 Radial†	30048.8	30797.1	10273	ug/L	10273	ppb	04:25:57
2	Sr 421.552†	64714.2	66681.8	514.83	ug/L	514.83	ppb	04:25:57
2	Sc 361.383	843276.6	843276.6	99.208	%			04:27:20
2	Y 371.029	674262.0	674262.0	95.949	%			04:27:20
2	Ag 328.068†	103730.4	104330.8	504.35	ug/L	504.35	ppb	04:27:25
2	As 188.979†	1179.7	1217.5	516.76	ug/L	516.76	ppb	04:27:46
2	B 249.677†	20888.5	21537.2	504.33	ug/L	504.33	ppb	04:27:25
2	Ba 233.527†	61816.1	62290.8	507.04	ug/L	507.04	ppb	04:27:25
2	Be 313.107†	1395500.6	1410980.5	519.42	ug/L	519.42	ppb	04:27:20
2	Cd 226.502†	41788.7	42317.8	494.72	ug/L	494.72	ppb	04:27:25
2	Co 228.616†	24132.4	24403.9	508.96	ug/L	508.96	ppb	04:27:25
2	Cr 267.716†	42474.0	42663.4	496.96	ug/L	496.96	ppb	04:27:25
2	Cu 324.752†	174494.3	167793.2	513.75	ug/L	513.75	ppb	04:27:25
2	Mn 257.610†	449883.6	452905.4	522.69	ug/L	522.69	ppb	04:27:20
2	Mo 202.031†	6729.2	6772.4	503.73	ug/L	503.73	ppb	04:27:46
2	Ni 231.604†	19543.8	19586.3	501.38	ug/L	501.38	ppb	04:27:25

2	P 214.914†	4813.0	4609.4	2457.1 ug/L	2457.1 ppb	04:27:46
2	Pb 220.353†	4009.0	4114.6	511.34 ug/L	511.34 ppb	04:27:46
2	S 181.975 Axial†	831.1	794.8	1037.9 ug/L	1037.9 ppb	04:27:46
2	Sb 206.836†	1512.5	1488.9	521.97 ug/L	521.97 ppb	04:27:46
2	Se 196.026†	863.1	893.3	540.74 ug/L	540.74 ppb	04:27:46
2	Si 251.611†	82810.2	82859.0	2575.9 ug/L	2575.9 ppb	04:27:25
2	Sn 189.927†	2792.9	2802.6	503.43 ug/L	503.43 ppb	04:27:46
2	Ti 334.940†	309514.0	313477.8	509.37 ug/L	509.37 ppb	04:27:25
2	Tl 190.801†	1576.1	1627.8	517.33 ug/L	517.33 ppb	04:27:46
2	U 409.014†	13767.1	17392.2	492.32 ug/L	492.32 ppb	04:27:25
2	V 292.402†	66367.8	68575.0	503.31 ug/L	503.31 ppb	04:27:25
2	Zn 213.857†	52320.3	52050.2	503.28 ug/L	503.28 ppb	04:27:25
2	SiO2†	83265.7	83310.9	5540.9 ug/L	5540.9 ppb	04:28:27
3	Sc Radial	4101.4	4101.4	96.5 %		04:26:42
3	Y RADIAL	4361.5	4361.5	99.07 %		04:26:22
3	Al 396.153Radial†	5016.2	5358.1	5335.5 ug/L	5335.5 ppb	04:26:22
3	Ca 317.933Radial†	2775.9	2858.8	5332.7 ug/L	5332.7 ppb	04:26:42
3	Fe 238.204 Radial†	512.4	521.0	5552.7 ug/L	5552.7 ppb	04:26:42
3	K 766.490 Radial†	28041.2	25891.8	5220.0 ug/L	5220.0 ppb	04:26:22
3	Mg 279.077 IEC†	138.6	140.9	5442.2 ug/L	5442.2 ppb	04:26:42
3	Na 589.592 Radial†	30556.4	31463.3	10495 ug/L	10495 ppb	04:26:22
3	Sr 421.552†	66413.6	68744.9	530.76 ug/L	530.76 ppb	04:26:22
3	Sc 361.383	841227.0	841227.0	98.967 %		04:27:51
3	Y 371.029	671657.9	671657.9	95.579 %		04:27:51
3	Ag 328.068†	105579.4	106453.9	514.57 ug/L	514.57 ppb	04:27:57
3	As 188.979†	1181.6	1222.3	518.89 ug/L	518.89 ppb	04:28:17
3	B 249.677†	21476.6	22182.8	519.49 ug/L	519.49 ppb	04:27:57
3	Ba 233.527†	63006.7	63645.7	518.07 ug/L	518.07 ppb	04:27:57
3	Be 313.107†	1390249.8	1409102.1	518.76 ug/L	518.76 ppb	04:27:51
3	Cd 226.502†	42690.1	43331.3	506.58 ug/L	506.58 ppb	04:27:57
3	Co 228.616†	24670.5	25007.0	521.52 ug/L	521.52 ppb	04:27:57
3	Cr 267.716†	43297.7	43600.0	507.87 ug/L	507.87 ppb	04:27:57
3	Cu 324.752†	178070.1	171834.9	526.12 ug/L	526.12 ppb	04:27:57
3	Mn 257.610†	448555.2	452668.0	522.42 ug/L	522.42 ppb	04:27:51
3	Mo 202.031†	6771.1	6831.3	508.10 ug/L	508.10 ppb	04:28:17
3	Ni 231.604†	19924.0	20018.5	512.44 ug/L	512.44 ppb	04:27:57
3	P 214.914†	4817.7	4626.0	2463.9 ug/L	2463.9 ppb	04:28:17
3	Pb 220.353†	3996.4	4111.7	511.02 ug/L	511.02 ppb	04:28:17
3	S 181.975 Axial†	846.2	812.1	1060.4 ug/L	1060.4 ppb	04:28:17
3	Sb 206.836†	1517.9	1498.1	525.22 ug/L	525.22 ppb	04:28:17
3	Se 196.026†	862.8	895.1	541.76 ug/L	541.76 ppb	04:28:17
3	Si 251.611†	84506.3	84776.2	2635.6 ug/L	2635.6 ppb	04:27:57
3	Sn 189.927†	2807.4	2824.1	507.29 ug/L	507.29 ppb	04:28:17
3	Ti 334.940†	316071.4	320863.9	521.37 ug/L	521.37 ppb	04:27:57
3	Tl 190.801†	1574.5	1630.1	518.06 ug/L	518.06 ppb	04:28:17
3	U 409.014†	14198.4	17861.8	505.64 ug/L	505.64 ppb	04:27:57
3	V 292.402†	67683.0	70066.9	514.18 ug/L	514.18 ppb	04:27:57
3	Zn 213.857†	53341.2	53210.3	514.52 ug/L	514.52 ppb	04:27:57
3	SiO2†	83506.3	83758.5	5570.6 ug/L	5570.6 ppb	04:28:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	842599.8	99.128	%	0.1399				0.14%
Sc Radial	4109.3	96.7	%	0.22				0.23%
Y 371.029	673661.4	95.864	%	0.2534				0.26%
Y RADIAL	4304.3	97.78	%	1.125				1.15%
Ag 328.068†	105251.4	508.79	ug/L	5.243	508.79	ppb	5.243	1.03%
QC value within limits for Ag 328.068 Recovery = 101.76%								
Al 396.153Radial†	5285.7	5263.3	ug/L	83.26	5263.3	ppb	83.26	1.58%
QC value within limits for Al 396.153Radial Recovery = 105.27%								
As 188.979†	1219.9	517.84	ug/L	1.064	517.84	ppb	1.064	0.21%
QC value within limits for As 188.979 Recovery = 103.57%								
B 249.677†	21784.6	510.14	ug/L	8.176	510.14	ppb	8.176	1.60%
QC value within limits for B 249.677 Recovery = 102.03%								
Ba 233.527†	62932.8	512.27	ug/L	5.535	512.27	ppb	5.535	1.08%
QC value within limits for Ba 233.527 Recovery = 102.45%								
Be 313.107†	1410294.8	519.18	ug/L	0.368	519.18	ppb	0.368	0.07%
QC value within limits for Be 313.107 Recovery = 103.84%								
Ca 317.933Radial†	2855.5	5326.6	ug/L	5.59	5326.6	ppb	5.59	0.10%

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   QC value within limits for Ca 317.933Radial  Recovery = 106.53%
Cd 226.502†          42811.6      500.50 ug/L        5.937      500.50 ppb        5.937   1.19%
   QC value within limits for Cd 226.502  Recovery = 100.10%
Co 228.616†          24675.3      514.61 ug/L        6.374      514.61 ppb        6.374   1.24%
   QC value within limits for Co 228.616  Recovery = 102.92%
Cr 267.716†          43084.3      501.86 ug/L        5.536      501.86 ppb        5.536   1.10%
   QC value within limits for Cr 267.716  Recovery = 100.37%
Cu 324.752†         169550.0      519.13 ug/L        6.339      519.13 ppb        6.339   1.22%
   QC value within limits for Cu 324.752  Recovery = 103.83%
Fe 238.204 Radial†     522.1      5563.9 ug/L        10.79      5563.9 ppb        10.79   0.19%
   QC value greater than the upper limit for Fe 238.204 Radial  Recovery = 111.28%
K 766.490 Radial†    25484.3      5137.8 ug/L        83.52      5137.8 ppb        83.52   1.63%
   QC value within limits for K 766.490 Radial  Recovery = 102.76%
Mg 279.077 IEC†        141.8      5474.6 ug/L        73.88      5474.6 ppb        73.88   1.35%
   QC value within limits for Mg 279.077 IEC  Recovery = 109.49%
Mn 257.610†         452260.0      521.95 ug/L        1.058      521.95 ppb        1.058   0.20%
   QC value within limits for Mn 257.610  Recovery = 104.39%
Mo 202.031†          6798.2      505.64 ug/L        2.238      505.64 ppb        2.238   0.44%
   QC value within limits for Mo 202.031  Recovery = 101.13%
Na 589.592 Radial†   31147.9       10390 ug/L        111.6       10390 ppb        111.6   1.07%
   QC value within limits for Na 589.592 Radial  Recovery = 103.90%
Ni 231.604†          19761.7      505.87 ug/L        5.819      505.87 ppb        5.819   1.15%
   QC value within limits for Ni 231.604  Recovery = 101.17%
P 214.914†            4609.0      2455.8 ug/L         8.79      2455.8 ppb         8.79   0.36%
   QC value within limits for P 214.914  Recovery = 98.23%
Pb 220.353†           4105.7      510.26 ug/L        1.596      510.26 ppb        1.596   0.31%
   QC value within limits for Pb 220.353  Recovery = 102.05%
S 181.975 Axial†       801.1      1046.0 ug/L        12.52      1046.0 ppb        12.52   1.20%
   QC value within limits for S 181.975 Axial  Recovery = 104.60%
Sb 206.836†           1486.4      521.17 ug/L        4.500      521.17 ppb        4.500   0.86%
   QC value within limits for Sb 206.836  Recovery = 104.23%
Se 196.026†            889.5      538.52 ug/L        4.745      538.52 ppb        4.745   0.88%
   QC value within limits for Se 196.026  Recovery = 107.70%
Si 251.611†          83724.4      2602.8 ug/L        30.27      2602.8 ppb        30.27   1.16%
   QC value within limits for Si 251.611  Recovery = 104.11%
Sn 189.927†           2808.2      504.43 ug/L        2.508      504.43 ppb        2.508   0.50%
   QC value within limits for Sn 189.927  Recovery = 100.89%
Sr 421.552†          67602.0      521.94 ug/L        8.103      521.94 ppb        8.103   1.55%
   QC value within limits for Sr 421.552  Recovery = 104.39%
Ti 334.940†         316847.7      514.85 ug/L        6.071      514.85 ppb        6.071   1.18%
   QC value within limits for Ti 334.940  Recovery = 102.97%
Tl 190.801†           1628.5      517.54 ug/L        0.449      517.54 ppb        0.449   0.09%
   QC value within limits for Tl 190.801  Recovery = 103.51%
U 409.014†           17550.2      496.79 ug/L        7.657      496.79 ppb        7.657   1.54%
   QC value within limits for U 409.014  Recovery = 99.36%
V 292.402†           69239.8      508.15 ug/L        5.535      508.15 ppb        5.535   1.09%
   QC value within limits for V 292.402  Recovery = 101.63%
Zn 213.857†          52533.4      507.96 ug/L        5.849      507.96 ppb        5.849   1.15%
   QC value within limits for Zn 213.857  Recovery = 101.59%
SiO2†                83571.6      5558.2 ug/L        15.46      5558.2 ppb        15.46   0.28%
   QC value within limits for SiO2  Recovery = 103.94%
QC Failed.  Continue with analysis.
```

Sequence No.: 103
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/17/2010 04:30:43
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4229.8	4229.8	99.5	%			04:32:36
1	Y RADIAL	4288.3	4288.3	97.41	%			04:32:36
1	Al 396.153Radial†	-145.8	12.5	12.411	ug/L	12.411	ppb	04:32:36
1	Ca 317.933Radial†	38.2	20.1	37.505	ug/L	37.505	ppb	04:32:56
1	Fe 238.204 Radial†	11.7	1.7	17.774	ug/L	17.774	ppb	04:32:56
1	K 766.490 Radial†	3014.7	-141.9	-28.622	ug/L	-28.622	ppb	04:32:36
1	Mg 279.077 IEC†	2.3	-0.4	-14.278	ug/L	-14.278	ppb	04:32:56
1	Na 589.592 Radial†	-7.4	-214.5	-71.552	ug/L	-71.552	ppb	04:32:36
1	Sr 421.552†	71.7	-17.7	-0.1371	ug/L	-0.1371	ppb	04:32:36
1	Sc 361.383	826809.2	826809.2	97.271	%			04:33:52
1	Y 371.029	668742.5	668742.5	95.164	%			04:33:52
1	Ag 328.068†	304.2	85.0	0.4116	ug/L	0.4116	ppb	04:33:52
1	As 188.979†	-27.1	0.4	0.1799	ug/L	0.1799	ppb	04:34:12
1	B 249.677†	-416.0	54.2	1.2727	ug/L	1.2727	ppb	04:34:12
1	Ba 233.527†	56.1	38.8	0.3148	ug/L	0.3148	ppb	04:34:12
1	Be 313.107†	-4091.3	133.0	0.0499	ug/L	0.0499	ppb	04:33:52
1	Cd 226.502†	-195.5	-5.5	-0.0657	ug/L	-0.0657	ppb	04:34:12
1	Co 228.616†	-66.6	10.4	0.2192	ug/L	0.2192	ppb	04:34:12
1	Cr 267.716†	123.1	-23.1	-0.2697	ug/L	-0.2697	ppb	04:34:12
1	Cu 324.752†	8791.0	943.5	2.8892	ug/L	2.8892	ppb	04:33:52
1	Mn 257.610†	1229.8	694.6	0.8035	ug/L	0.8035	ppb	04:34:12
1	Mo 202.031†	29.1	19.4	1.4438	ug/L	1.4438	ppb	04:34:12
1	Ni 231.604†	109.7	-0.8	-0.0194	ug/L	-0.0194	ppb	04:34:12
1	P 214.914†	239.2	3.9	1.6010	ug/L	1.6010	ppb	04:34:12
1	Pb 220.353†	17.2	91.2	11.305	ug/L	11.305	ppb	04:34:12
1	S 181.975 Axial†	58.4	17.1	22.373	ug/L	22.373	ppb	04:34:12
1	Sb 206.836†	42.4	7.9	2.7006	ug/L	2.7006	ppb	04:34:12
1	Se 196.026†	-21.9	0.8	0.5393	ug/L	0.5393	ppb	04:34:12
1	Si 251.611†	736.6	145.0	4.4996	ug/L	4.4996	ppb	04:34:12
1	Sn 189.927†	15.3	3.1	0.5574	ug/L	0.5574	ppb	04:34:12
1	Ti 334.940†	-1168.9	291.2	0.4791	ug/L	0.4791	ppb	04:33:52
1	Tl 190.801†	-38.9	-0.9	-0.2672	ug/L	-0.2672	ppb	04:34:12
1	U 409.014†	-3385.2	35.0	0.9933	ug/L	0.9933	ppb	04:33:52
1	V 292.402†	-1676.4	-46.2	-0.3153	ug/L	-0.3153	ppb	04:33:52
1	Zn 213.857†	799.7	134.4	1.3049	ug/L	1.3049	ppb	04:34:12
1	SiO2†	717.6	118.3	7.8451	ug/L	7.8451	ppb	04:35:08
2	Sc Radial	4209.0	4209.0	99.0	%			04:33:01
2	Y RADIAL	4300.6	4300.6	97.69	%			04:33:01
2	Al 396.153Radial†	-140.6	17.0	16.962	ug/L	16.962	ppb	04:33:01
2	Ca 317.933Radial†	40.4	22.5	41.937	ug/L	41.937	ppb	04:33:21
2	Fe 238.204 Radial†	12.1	2.2	23.464	ug/L	23.464	ppb	04:33:21
2	K 766.490 Radial†	2976.5	-165.4	-33.379	ug/L	-33.379	ppb	04:33:01
2	Mg 279.077 IEC†	0.4	-2.3	-87.396	ug/L	-87.396	ppb	04:33:21
2	Na 589.592 Radial†	6.4	-200.6	-66.909	ug/L	-66.909	ppb	04:33:01
2	Sr 421.552†	60.3	-29.0	-0.2239	ug/L	-0.2239	ppb	04:33:01
2	Sc 361.383	832788.5	832788.5	97.974	%			04:34:18
2	Y 371.029	673507.2	673507.2	95.842	%			04:34:18
2	Ag 328.068†	234.6	11.7	0.0573	ug/L	0.0573	ppb	04:34:18
2	As 188.979†	-31.0	-3.3	-1.3802	ug/L	-1.3802	ppb	04:34:38
2	B 249.677†	-433.1	39.9	0.9341	ug/L	0.9341	ppb	04:34:38
2	Ba 233.527†	35.6	17.5	0.1421	ug/L	0.1421	ppb	04:34:38
2	Be 313.107†	-4266.8	-15.9	-0.0053	ug/L	-0.0053	ppb	04:34:18
2	Cd 226.502†	-208.7	-17.6	-0.2067	ug/L	-0.2067	ppb	04:34:38
2	Co 228.616†	-72.9	4.5	0.0967	ug/L	0.0967	ppb	04:34:38
2	Cr 267.716†	109.3	-38.1	-0.4456	ug/L	-0.4456	ppb	04:34:38
2	Cu 324.752†	8616.7	700.8	2.1435	ug/L	2.1435	ppb	04:34:18
2	Mn 257.610†	908.4	357.5	0.4182	ug/L	0.4182	ppb	04:34:38
2	Mo 202.031†	28.8	18.9	1.4068	ug/L	1.4068	ppb	04:34:38
2	Ni 231.604†	98.8	-12.7	-0.3259	ug/L	-0.3259	ppb	04:34:38

2	P 214.914†	238.5	1.5	0.3992 ug/L	0.3992 ppb	04:34:38
2	Pb 220.353†	6.5	80.2	9.9359 ug/L	9.9359 ppb	04:34:38
2	S 181.975 Axial†	62.3	20.7	27.022 ug/L	27.022 ppb	04:34:38
2	Sb 206.836†	40.3	5.4	1.8807 ug/L	1.8807 ppb	04:34:38
2	Se 196.026†	-22.6	0.3	0.2473 ug/L	0.2473 ppb	04:34:38
2	Si 251.611†	692.4	94.4	2.9251 ug/L	2.9251 ppb	04:34:38
2	Sn 189.927†	16.6	4.4	0.7874 ug/L	0.7874 ppb	04:34:38
2	Ti 334.940†	-1324.3	141.2	0.2398 ug/L	0.2398 ppb	04:34:18
2	Tl 190.801†	-35.2	3.2	1.0150 ug/L	1.0150 ppb	04:34:38
2	U 409.014†	-3229.0	219.4	6.2317 ug/L	6.2317 ppb	04:34:18
2	V 292.402†	-1687.2	-44.8	-0.2976 ug/L	-0.2976 ppb	04:34:18
2	Zn 213.857†	798.2	127.0	1.2347 ug/L	1.2347 ppb	04:34:38
2	SiO2†	731.1	126.7	8.4110 ug/L	8.4110 ppb	04:35:13
3	Sc Radial	4194.0	4194.0	98.7 %		04:33:26
3	Y RADIAL	4316.0	4316.0	98.04 %		04:33:26
3	Al 396.153Radial†	-131.0	26.3	26.281 ug/L	26.281 ppb	04:33:26
3	Ca 317.933Radial†	33.5	15.6	29.136 ug/L	29.136 ppb	04:33:46
3	Fe 238.204 Radial†	11.3	1.4	14.777 ug/L	14.777 ppb	04:33:46
3	K 766.490 Radial†	3191.6	63.4	12.814 ug/L	12.814 ppb	04:33:26
3	Mg 279.077 IEC†	1.7	-1.0	-39.316 ug/L	-39.316 ppb	04:33:46
3	Na 589.592 Radial†	-54.9	-262.7	-87.629 ug/L	-87.629 ppb	04:33:26
3	Sr 421.552†	194.2	107.0	0.8258 ug/L	0.8258 ppb	04:33:26
3	Sc 361.383	827640.9	827640.9	97.369 %		04:34:43
3	Y 371.029	669589.3	669589.3	95.284 %		04:34:43
3	Ag 328.068†	255.8	35.0	0.1683 ug/L	0.1683 ppb	04:34:43
3	As 188.979†	-34.9	-7.5	-3.1629 ug/L	-3.1629 ppb	04:35:03
3	B 249.677†	-421.8	48.7	1.1440 ug/L	1.1440 ppb	04:35:03
3	Ba 233.527†	33.8	15.9	0.1285 ug/L	0.1285 ppb	04:35:03
3	Be 313.107†	-4243.3	-18.8	-0.0064 ug/L	-0.0064 ppb	04:34:43
3	Cd 226.502†	-204.0	-14.1	-0.1649 ug/L	-0.1649 ppb	04:35:03
3	Co 228.616†	-70.4	6.5	0.1364 ug/L	0.1364 ppb	04:35:03
3	Cr 267.716†	105.8	-41.0	-0.4792 ug/L	-0.4792 ppb	04:35:03
3	Cu 324.752†	8543.4	680.2	2.0813 ug/L	2.0813 ppb	04:34:43
3	Mn 257.610†	843.0	296.0	0.3445 ug/L	0.3445 ppb	04:35:03
3	Mo 202.031†	14.2	4.1	0.3080 ug/L	0.3080 ppb	04:35:03
3	Ni 231.604†	124.1	14.0	0.3573 ug/L	0.3573 ppb	04:35:03
3	P 214.914†	230.5	-5.3	-3.3320 ug/L	-3.3320 ppb	04:35:03
3	Pb 220.353†	5.0	78.7	9.7480 ug/L	9.7480 ppb	04:35:03
3	S 181.975 Axial†	53.5	12.0	15.707 ug/L	15.707 ppb	04:35:03
3	Sb 206.836†	46.7	12.3	4.1575 ug/L	4.1575 ppb	04:35:03
3	Se 196.026†	-23.3	-0.6	-0.2950 ug/L	-0.2950 ppb	04:35:03
3	Si 251.611†	683.3	89.5	2.7852 ug/L	2.7852 ppb	04:35:03
3	Sn 189.927†	14.3	2.1	0.3767 ug/L	0.3767 ppb	04:35:03
3	Ti 334.940†	-1307.5	150.1	0.2495 ug/L	0.2495 ppb	04:34:43
3	Tl 190.801†	-23.7	14.8	4.6753 ug/L	4.6753 ppb	04:35:03
3	U 409.014†	-3292.6	133.6	3.7935 ug/L	3.7935 ppb	04:34:43
3	V 292.402†	-1679.2	-47.2	-0.3335 ug/L	-0.3335 ppb	04:34:43
3	Zn 213.857†	783.0	116.4	1.1286 ug/L	1.1286 ppb	04:35:03
3	SiO2†	664.9	63.3	4.2154 ug/L	4.2154 ppb	04:35:18

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	829079.5	97.538	%	0.3810				0.39%
Sc Radial	4210.9	99.1	%	0.42				0.43%
Y 371.029	670613.0	95.430	%	0.3617				0.38%
Y RADIAL	4301.6	97.72	%	0.314				0.32%
Ag 328.068†	43.9	0.2124	ug/L	0.18121	0.2124	ppb	0.18121	85.31%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	18.6	18.552	ug/L	7.0702	18.552	ppb	7.0702	38.11%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.5	-1.4544	ug/L	1.67264	-1.4544	ppb	1.67264	115.00%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	47.6	1.1169	ug/L	0.17091	1.1169	ppb	0.17091	15.30%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	24.1	0.1951	ug/L	0.10382	0.1951	ppb	0.10382	53.21%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	32.8	0.0128	ug/L	0.03220	0.0128	ppb	0.03220	252.50%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	19.4	36.192	ug/L	6.5008	36.192	ppb	6.5008	17.96%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -12.4     -0.1458 ug/L       0.07241     -0.1458 ppb        0.07241  49.68%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                7.1      0.1508 ug/L       0.06253      0.1508 ppb        0.06253  41.47%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -34.1     -0.3982 ug/L       0.11250     -0.3982 ppb        0.11250  28.25%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              774.9      2.3713 ug/L       0.44958      2.3713 ppb        0.44958  18.96%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.8      18.671 ug/L        4.4122      18.671 ppb         4.4122  23.63%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -81.3     -16.396 ug/L       25.4077     -16.396 ppb        25.4077 154.96%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.2     -46.997 ug/L       37.1588     -46.997 ppb        37.1588  79.07%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              449.4      0.5221 ug/L       0.24650      0.5221 ppb        0.24650  47.22%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               14.1      1.0529 ug/L       0.64533      1.0529 ppb        0.64533  61.29%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      -225.9     -75.363 ug/L       10.8731     -75.363 ppb        10.8731  14.43%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                0.2      0.0040 ug/L       0.34223      0.0040 ppb        0.34223 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 0.1     -0.4439 ug/L       2.57233     -0.4439 ppb        2.57233 579.43%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               83.4      10.330 ug/L        0.8500      10.330 ppb         0.8500   8.23%
   QC value greater than the upper limit for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          16.6      21.701 ug/L        5.6872      21.701 ppb         5.6872  26.21%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                8.5      2.9129 ug/L       1.15318      2.9129 ppb        1.15318  39.59%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.2      0.1639 ug/L       0.42337      0.1639 ppb        0.42337 258.36%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              109.6      3.4033 ug/L       0.95200      3.4033 ppb        0.95200  27.97%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                3.2      0.5738 ug/L       0.20584      0.5738 ppb        0.20584  35.87%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               20.1      0.1549 ug/L       0.58262      0.1549 ppb        0.58262 376.06%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              194.2      0.3228 ug/L       0.13547      0.3228 ppb        0.13547  41.97%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                5.7      1.8077 ug/L       2.56485      1.8077 ppb        2.56485 141.89%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               129.3      3.6728 ug/L       2.62132      3.6728 ppb        2.62132  71.37%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -46.0     -0.3155 ug/L       0.01799     -0.3155 ppb        0.01799   5.70%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              125.9      1.2227 ug/L       0.08877      1.2227 ppb        0.08877   7.26%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    102.8      6.8238 ug/L       2.27662      6.8238 ppb        2.27662  33.36%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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Reprocessing Begun
Logged In Analyst: Optima3 **Technique: ICP Continuous**

Results Data Set (original): 022310
Results Library (original): C:\pe\Optima3\Results\Results.mdb
Results Data Set (reprocessed): 022310A
Results Library (reprocessed): C:\pe\Optima3\Results\Results.mdb

==========

Method Loaded
Method Name: General Eng.2AX **Method Last Saved: 2/23/2010 12:39:25**
IEC File: 011110.iec **MSF File:**
Method Description:

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

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: S0 **Date Collected: 2/23/2010 10:37:42**
Analyst: **Data Type: Reprocessed on 2/23/2010 12:42:16**
Logged In Analyst (Original) : Optima3
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	895840.5	895840.5	99.531	%	10:40:52
1	Sc Radial	4251.3	4251.3	99.9	%	10:39:35
1	Y 371.029	758955.3	758955.3	99.543	%	10:40:52
1	Y RADIAL	4687.6	4687.6	99.91	%	10:39:35
1	Ag 328.068†	244.2	245.3	[0.00]	ug/L	10:40:52

1	Al 396.153Radial†	-107.8	-107.8	[0.00] ug/L	10:39:55
1	As 188.979†	-19.0	-19.1	[0.00] ug/L	10:41:12
1	B 249.677†	-364.1	-365.8	[0.00] ug/L	10:41:12
1	Ba 233.527†	-18.2	-18.3	[0.00] ug/L	10:41:12
1	Be 313.107†	-3867.8	-3886.0	[0.00] ug/L	10:40:52
1	Ca 317.933Radial†	15.2	15.2	[0.00] ug/L	10:39:55
1	Cd 226.502†	-180.3	-181.2	[0.00] ug/L	10:41:12
1	Co 228.616†	-63.6	-63.9	[0.00] ug/L	10:41:12
1	Cr 267.716†	60.2	60.5	[0.00] ug/L	10:41:12
1	Cu 324.752†	6072.0	6100.6	[0.00] ug/L	10:40:52
1	Fe 238.204 Radial†	11.4	11.4	[0.00] ug/L	10:39:55
1	K 766.490 Radial†	2616.5	2617.8	[0.00] ug/L	10:39:35
1	Mg 279.077 IEC†	4.0	4.0	[0.00] ug/L	10:39:55
1	Mn 257.610†	443.7	445.7	[0.00] ug/L	10:41:12
1	Mo 202.031†	-1.8	-1.8	[0.00] ug/L	10:41:12
1	Na 589.592 Radial†	-719.5	-719.9	[0.00] ug/L	10:39:35
1	Ni 231.604†	46.4	46.6	[0.00] ug/L	10:41:12
1	P 214.914†	205.5	206.4	[0.00] ug/L	10:41:12
1	Pb 220.353†	-61.4	-61.7	[0.00] ug/L	10:41:12
1	S 181.975 Axial†	35.0	35.2	[0.00] ug/L	10:41:12
1	Sb 206.836†	30.2	30.3	[0.00] ug/L	10:41:12
1	Se 196.026†	-17.3	-17.3	[0.00] ug/L	10:41:12
1	Si 251.611†	555.6	558.2	[0.00] ug/L	10:41:12
1	Sn 189.927†	12.7	12.8	[0.00] ug/L	10:41:12
1	Sr 421.552†	49.2	49.2	[0.00] ug/L	10:39:35
1	Ti 334.940†	-1294.3	-1300.4	[0.00] ug/L	10:40:52
1	Tl 190.801†	-26.3	-26.4	[0.00] ug/L	10:41:12
1	U 409.014†	-2868.7	-2882.2	[0.00] ug/L	10:40:52
1	V 292.402†	-1410.0	-1416.6	[0.00] ug/L	10:40:52
1	Zn 213.857†	543.7	546.3	[0.00] ug/L	10:41:12
1	SiO2†	519.6	522.1	[0.00] ug/L	10:42:08
2	Sc 361.383	905217.3	905217.3	100.57 %	10:41:17
2	Sc Radial	4235.4	4235.4	99.6 %	10:40:00
2	Y 371.029	767171.8	767171.8	100.62 %	10:41:17
2	Y RADIAL	4682.2	4682.2	99.79 %	10:40:00
2	Ag 328.068†	177.1	176.0	[0.00] ug/L	10:41:17
2	Al 396.153Radial†	-112.8	-113.3	[0.00] ug/L	10:40:20
2	As 188.979†	-24.2	-24.1	[0.00] ug/L	10:41:37
2	B 249.677†	-376.1	-374.0	[0.00] ug/L	10:41:37
2	Ba 233.527†	-2.6	-2.6	[0.00] ug/L	10:41:37
2	Be 313.107†	-3859.5	-3837.5	[0.00] ug/L	10:41:17
2	Ca 317.933Radial†	17.5	17.6	[0.00] ug/L	10:40:20
2	Cd 226.502†	-176.6	-175.6	[0.00] ug/L	10:41:37
2	Co 228.616†	-56.6	-56.3	[0.00] ug/L	10:41:37
2	Cr 267.716†	79.5	79.0	[0.00] ug/L	10:41:37
2	Cu 324.752†	6120.1	6085.3	[0.00] ug/L	10:41:17
2	Fe 238.204 Radial†	9.2	9.3	[0.00] ug/L	10:40:20
2	K 766.490 Radial†	2538.3	2549.1	[0.00] ug/L	10:40:00
2	Mg 279.077 IEC†	2.9	2.9	[0.00] ug/L	10:40:20
2	Mn 257.610†	419.5	417.1	[0.00] ug/L	10:41:37
2	Mo 202.031†	7.5	7.4	[0.00] ug/L	10:41:37
2	Na 589.592 Radial†	-793.5	-796.9	[0.00] ug/L	10:40:00
2	Ni 231.604†	51.0	50.7	[0.00] ug/L	10:41:37
2	P 214.914†	204.8	203.6	[0.00] ug/L	10:41:37
2	Pb 220.353†	-52.4	-52.1	[0.00] ug/L	10:41:37
2	S 181.975 Axial†	35.7	35.5	[0.00] ug/L	10:41:37
2	Sb 206.836†	39.9	39.7	[0.00] ug/L	10:41:37
2	Se 196.026†	-21.1	-21.0	[0.00] ug/L	10:41:37
2	Si 251.611†	524.3	521.3	[0.00] ug/L	10:41:37
2	Sn 189.927†	7.3	7.3	[0.00] ug/L	10:41:37
2	Sr 421.552†	54.4	54.7	[0.00] ug/L	10:40:00
2	Ti 334.940†	-1316.2	-1308.8	[0.00] ug/L	10:41:17
2	Tl 190.801†	-34.9	-34.7	[0.00] ug/L	10:41:37
2	U 409.014†	-2745.8	-2730.2	[0.00] ug/L	10:41:17
2	V 292.402†	-1443.0	-1434.8	[0.00] ug/L	10:41:17
2	Zn 213.857†	568.1	564.9	[0.00] ug/L	10:41:37
2	SiO2†	565.6	562.4	[0.00] ug/L	10:42:13
3	Sc 361.383	899131.7	899131.7	99.897 %	10:41:43
3	Sc Radial	4273.9	4273.9	100 %	10:40:25
3	Y 371.029	761199.7	761199.7	99.837 %	10:41:43
3	Y RADIAL	4706.4	4706.4	100.3 %	10:40:25

3	Ag 328.068†	266.3	266.6	[0.00]	ug/L	10:41:43
3	Al 396.153Radial†	-111.7	-111.2	[0.00]	ug/L	10:40:45
3	As 188.979†	-18.4	-18.4	[0.00]	ug/L	10:42:03
3	B 249.677†	-378.7	-379.1	[0.00]	ug/L	10:42:03
3	Ba 233.527†	-6.6	-6.6	[0.00]	ug/L	10:42:03
3	Be 313.107†	-3832.3	-3836.2	[0.00]	ug/L	10:41:43
3	Ca 317.933Radial†	13.7	13.6	[0.00]	ug/L	10:40:45
3	Cd 226.502†	-193.0	-193.2	[0.00]	ug/L	10:42:03
3	Co 228.616†	-65.4	-65.5	[0.00]	ug/L	10:42:03
3	Cr 267.716†	58.4	58.4	[0.00]	ug/L	10:42:03
3	Cu 324.752†	6039.2	6045.5	[0.00]	ug/L	10:41:43
3	Fe 238.204 Radial†	9.9	9.9	[0.00]	ug/L	10:40:45
3	K 766.490 Radial†	2515.3	2503.3	[0.00]	ug/L	10:40:25
3	Mg 279.077 IEC†	1.3	1.3	[0.00]	ug/L	10:40:45
3	Mn 257.610†	447.2	447.7	[0.00]	ug/L	10:42:03
3	Mo 202.031†	12.5	12.5	[0.00]	ug/L	10:42:03
3	Na 589.592 Radial†	-707.6	-704.2	[0.00]	ug/L	10:40:25
3	Ni 231.604†	59.6	59.6	[0.00]	ug/L	10:42:03
3	P 214.914†	195.8	196.0	[0.00]	ug/L	10:42:03
3	Pb 220.353†	-81.3	-81.3	[0.00]	ug/L	10:42:03
3	S 181.975 Axial†	40.4	40.4	[0.00]	ug/L	10:42:03
3	Sb 206.836†	40.0	40.0	[0.00]	ug/L	10:42:03
3	Se 196.026†	-23.7	-23.7	[0.00]	ug/L	10:42:03
3	Si 251.611†	522.4	523.0	[0.00]	ug/L	10:42:03
3	Sn 189.927†	11.2	11.2	[0.00]	ug/L	10:42:03
3	Sr 421.552†	6.5	6.5	[0.00]	ug/L	10:40:25
3	Ti 334.940†	-1235.0	-1236.3	[0.00]	ug/L	10:41:43
3	Tl 190.801†	-32.5	-32.5	[0.00]	ug/L	10:42:03
3	U 409.014†	-2833.5	-2836.4	[0.00]	ug/L	10:41:43
3	V 292.402†	-1438.4	-1439.9	[0.00]	ug/L	10:41:43
3	Zn 213.857†	561.3	561.9	[0.00]	ug/L	10:42:03
3	SiO2†	569.5	570.0	[0.00]	ug/L	10:42:18

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	900063.2	4757.26	0.53%	100.00	%
Sc Radial	4253.5	19.32	0.45%	100	%
Y 371.029	762442.3	4246.85	0.56%	100.00	%
Y RADIAL	4692.1	12.68	0.27%	100.0	%
Ag 328.068†	229.3	47.35	20.65%	[0.00]	ug/L
Al 396.153Radial†	-110.8	2.77	2.50%	[0.00]	ug/L
As 188.979†	-20.5	3.07	14.95%	[0.00]	ug/L
B 249.677†	-373.0	6.71	1.80%	[0.00]	ug/L
Ba 233.527†	-9.1	8.14	89.03%	[0.00]	ug/L
Be 313.107†	-3853.3	28.38	0.74%	[0.00]	ug/L
Ca 317.933Radial†	15.5	2.01	13.01%	[0.00]	ug/L
Cd 226.502†	-183.3	8.97	4.89%	[0.00]	ug/L
Co 228.616†	-61.9	4.92	7.94%	[0.00]	ug/L
Cr 267.716†	66.0	11.33	17.17%	[0.00]	ug/L
Cu 324.752†	6077.1	28.47	0.47%	[0.00]	ug/L
Fe 238.204 Radial†	10.2	1.10	10.82%	[0.00]	ug/L
K 766.490 Radial†	2556.8	57.63	2.25%	[0.00]	ug/L
Mg 279.077 IEC†	2.8	1.36	49.52%	[0.00]	ug/L
Mn 257.610†	436.8	17.14	3.92%	[0.00]	ug/L
Mo 202.031†	6.1	7.25	119.42%	[0.00]	ug/L
Na 589.592 Radial†	-740.4	49.61	6.70%	[0.00]	ug/L
Ni 231.604†	52.3	6.65	12.71%	[0.00]	ug/L
P 214.914†	202.0	5.38	2.66%	[0.00]	ug/L
Pb 220.353†	-65.0	14.93	22.95%	[0.00]	ug/L
S 181.975 Axial†	37.0	2.96	7.98%	[0.00]	ug/L
Sb 206.836†	36.7	5.51	15.02%	[0.00]	ug/L
Se 196.026†	-20.7	3.21	15.49%	[0.00]	ug/L
Si 251.611†	534.1	20.85	3.90%	[0.00]	ug/L
Sn 189.927†	10.4	2.82	27.03%	[0.00]	ug/L
Sr 421.552†	36.8	26.39	71.74%	[0.00]	ug/L
Ti 334.940†	-1281.8	39.63	3.09%	[0.00]	ug/L
Tl 190.801†	-31.2	4.30	13.78%	[0.00]	ug/L
U 409.014†	-2816.3	77.97	2.77%	[0.00]	ug/L
V 292.402†	-1430.4	12.22	0.85%	[0.00]	ug/L

Zn 213.857†	557.7	10.02	1.80%	[0.00] ug/L
SiO2†	551.5	25.76	4.67%	[0.00] ug/L

Sequence No.: 2
Sample ID: S0.1
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/23/2010 10:44:29
Data Type: Reprocessed on 2/23/2010 12:42:18

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	891672.7	891672.7	99.068	%	10:46:54
1	Sc Radial	4519.2	4519.2	106	%	10:46:27
1	Y 371.029	752776.2	752776.2	98.732	%	10:46:54
1	Y RADIAL	4974.4	4974.4	106.0	%	10:46:27
1	Ag 328.068†	22198.2	22177.7	[100]	ug/L	10:46:54
1	As 188.979†	187.9	210.2	[100]	ug/L	10:47:14
1	B 249.677†	3567.9	3974.4	[100]	ug/L	10:46:54
1	Ba 233.527†	13048.6	13180.5	[100]	ug/L	10:46:54
1	Be 313.107†	263035.2	269363.5	[100]	ug/L	10:46:54
1	Cd 226.502†	8592.6	8856.8	[100]	ug/L	10:46:54
1	Co 228.616†	4716.3	4822.6	[100]	ug/L	10:47:14
1	Cr 267.716†	9140.2	9160.2	[100]	ug/L	10:46:54
1	Cu 324.752†	39374.9	33668.2	[100]	ug/L	10:46:54
1	K 766.490 Radial†	7859.9	4841.1	[1000]	ug/L	10:46:22
1	Mn 257.610†	91567.1	91991.9	[100]	ug/L	10:46:54
1	Mo 202.031†	1383.5	1390.4	[100]	ug/L	10:47:14
1	Ni 231.604†	3970.8	3955.9	[100]	ug/L	10:47:14
1	P 214.914†	1027.1	834.8	[500]	ug/L	10:47:14
1	Pb 220.353†	763.8	836.0	[100]	ug/L	10:47:14
1	S 181.975 Axial†	169.6	134.1	[200]	ug/L	10:47:14
1	Sb 206.836†	319.5	285.8	[100]	ug/L	10:47:14
1	Se 196.026†	132.3	154.3	[100]	ug/L	10:47:14
1	Si 251.611†	16049.5	15666.3	[500]	ug/L	10:46:54
1	Sn 189.927†	558.0	552.8	[100]	ug/L	10:47:14
1	Sr 421.552†	15243.0	14310.1	[100]	ug/L	10:46:27
1	Ti 334.940†	64268.9	66155.5	[100]	ug/L	10:46:54
1	Tl 190.801†	290.6	324.5	[100]	ug/L	10:47:14
1	U 409.014†	1007.2	3832.9	[100]	ug/L	10:46:54
1	V 292.402†	12926.8	14478.9	[100]	ug/L	10:46:54
1	Zn 213.857†	10644.5	10187.0	[100]	ug/L	10:46:54
1	SiO2†	15951.0	15549.6	[1069.5]	ug/L	10:48:11
2	Sc 361.383	909921.5	909921.5	101.10	%	10:47:20
2	Sc Radial	3973.4	3973.4	93.4	%	10:46:37
2	Y 371.029	767317.3	767317.3	100.64	%	10:47:20
2	Y RADIAL	4379.6	4379.6	93.34	%	10:46:37
2	Ag 328.068†	22100.6	21631.8	[100]	ug/L	10:47:20
2	As 188.979†	196.7	215.1	[100]	ug/L	10:47:40
2	B 249.677†	3576.2	3910.4	[100]	ug/L	10:47:20
2	Ba 233.527†	12961.6	12830.3	[100]	ug/L	10:47:20
2	Be 313.107†	261260.1	262282.8	[100]	ug/L	10:47:20
2	Cd 226.502†	8561.9	8652.5	[100]	ug/L	10:47:20
2	Co 228.616†	4678.8	4690.0	[100]	ug/L	10:47:40
2	Cr 267.716†	9011.8	8848.2	[100]	ug/L	10:47:20
2	Cu 324.752†	39444.2	32939.7	[100]	ug/L	10:47:20
2	K 766.490 Radial†	8012.3	6020.3	[1000]	ug/L	10:46:32
2	Mn 257.610†	91144.9	89720.6	[100]	ug/L	10:47:20
2	Mo 202.031†	1387.7	1366.6	[100]	ug/L	10:47:40
2	Ni 231.604†	3948.7	3853.6	[100]	ug/L	10:47:40
2	P 214.914†	1037.8	824.5	[500]	ug/L	10:47:40
2	Pb 220.353†	761.8	818.5	[100]	ug/L	10:47:40
2	S 181.975 Axial†	173.5	134.6	[200]	ug/L	10:47:40
2	Sb 206.836†	326.8	286.6	[100]	ug/L	10:47:40
2	Se 196.026†	128.3	147.6	[100]	ug/L	10:47:40
2	Si 251.611†	15983.3	15276.0	[500]	ug/L	10:47:20
2	Sn 189.927†	554.9	538.5	[100]	ug/L	10:47:40
2	Sr 421.552†	15418.6	16468.7	[100]	ug/L	10:46:37
2	Ti 334.940†	64081.0	64668.6	[100]	ug/L	10:47:20
2	Tl 190.801†	285.0	313.1	[100]	ug/L	10:47:40

2	U 409.014†	1081.5	3886.0	[100]	ug/L	10:47:20
2	V 292.402†	12885.3	14176.2	[100]	ug/L	10:47:20
2	Zn 213.857†	10684.2	10010.8	[100]	ug/L	10:47:20
2	SiO2†	15928.0	15203.9	[1069.5]	ug/L	10:48:16
3	Sc 361.383	909771.2	909771.2	101.08	%	10:47:45
3	Sc Radial	4100.6	4100.6	96.4	%	10:46:47
3	Y 371.029	768136.4	768136.4	100.75	%	10:47:45
3	Y RADIAL	4554.8	4554.8	97.07	%	10:46:47
3	Ag 328.068†	22141.3	21675.7	[100]	ug/L	10:47:45
3	As 188.979†	205.3	223.6	[100]	ug/L	10:48:05
3	B 249.677†	3546.8	3881.9	[100]	ug/L	10:47:45
3	Ba 233.527†	12994.0	12864.5	[100]	ug/L	10:47:45
3	Be 313.107†	262056.2	263113.1	[100]	ug/L	10:47:45
3	Cd 226.502†	8511.9	8604.4	[100]	ug/L	10:47:45
3	Co 228.616†	4678.7	4690.7	[100]	ug/L	10:48:05
3	Cr 267.716†	9035.2	8872.8	[100]	ug/L	10:47:45
3	Cu 324.752†	39480.7	32982.3	[100]	ug/L	10:47:45
3	K 766.490 Radial†	8016.9	5759.1	[1000]	ug/L	10:46:42
3	Mn 257.610†	91093.0	89684.1	[100]	ug/L	10:47:45
3	Mo 202.031†	1380.7	1359.9	[100]	ug/L	10:48:05
3	Ni 231.604†	3953.9	3859.4	[100]	ug/L	10:48:05
3	P 214.914†	1023.6	810.6	[500]	ug/L	10:48:05
3	Pb 220.353†	750.5	807.5	[100]	ug/L	10:48:05
3	S 181.975 Axial†	173.5	134.6	[200]	ug/L	10:48:05
3	Sb 206.836†	321.6	281.5	[100]	ug/L	10:48:05
3	Se 196.026†	122.4	141.8	[100]	ug/L	10:48:05
3	Si 251.611†	15979.0	15274.4	[500]	ug/L	10:47:45
3	Sn 189.927†	547.8	531.6	[100]	ug/L	10:48:05
3	Sr 421.552†	15184.6	15714.0	[100]	ug/L	10:46:47
3	Ti 334.940†	64132.9	64730.4	[100]	ug/L	10:47:45
3	Tl 190.801†	281.0	309.2	[100]	ug/L	10:48:05
3	U 409.014†	1114.6	3919.0	[100]	ug/L	10:47:45
3	V 292.402†	12798.5	14092.4	[100]	ug/L	10:47:45
3	Zn 213.857†	10691.9	10020.1	[100]	ug/L	10:47:45
3	SiO2†	15847.1	15126.5	[1069.5]	ug/L	10:48:21

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	903788.5	10492.79	1.16%	100.41	%
Sc Radial	4197.8	285.56	6.80%	98.7	%
Y 371.029	762743.3	8641.48	1.13%	100.04	%
Y RADIAL	4636.3	305.66	6.59%	98.81	%
Ag 328.068†	21828.4	303.31	1.39%	[100]	ug/L
As 188.979†	216.3	6.80	3.14%	[100]	ug/L
B 249.677†	3922.2	47.38	1.21%	[100]	ug/L
Ba 233.527†	12958.4	193.07	1.49%	[100]	ug/L
Be 313.107†	264919.8	3870.68	1.46%	[100]	ug/L
Cd 226.502†	8704.5	134.01	1.54%	[100]	ug/L
Co 228.616†	4734.4	76.35	1.61%	[100]	ug/L
Cr 267.716†	8960.4	173.46	1.94%	[100]	ug/L
Cu 324.752†	33196.7	408.88	1.23%	[100]	ug/L
K 766.490 Radial†	5540.2	619.35	11.18%	[1000]	ug/L
Mn 257.610†	90465.5	1322.00	1.46%	[100]	ug/L
Mo 202.031†	1372.3	16.05	1.17%	[100]	ug/L
Ni 231.604†	3889.6	57.45	1.48%	[100]	ug/L
P 214.914†	823.3	12.10	1.47%	[500]	ug/L
Pb 220.353†	820.7	14.38	1.75%	[100]	ug/L
S 181.975 Axial†	134.5	0.28	0.21%	[200]	ug/L
Sb 206.836†	284.6	2.73	0.96%	[100]	ug/L
Se 196.026†	147.9	6.24	4.22%	[100]	ug/L
Si 251.611†	15405.6	225.84	1.47%	[500]	ug/L
Sn 189.927†	541.0	10.83	2.00%	[100]	ug/L
Sr 421.552†	15497.6	1095.44	7.07%	[100]	ug/L
Ti 334.940†	65184.8	841.21	1.29%	[100]	ug/L
Tl 190.801†	315.6	7.96	2.52%	[100]	ug/L
U 409.014†	3879.3	43.40	1.12%	[100]	ug/L
V 292.402†	14249.1	203.31	1.43%	[100]	ug/L
Zn 213.857†	10072.6	99.17	0.98%	[100]	ug/L
SiO2†	15293.3	225.24	1.47%	[1069.5]	ug/L

Sequence No.: 3
Sample ID: S0.5
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/23/2010 10:50:31
Data Type: Reprocessed on 2/23/2010 12:42:24

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	900323.3	900323.3	100.03	%	10:53:41
1	Sc Radial	4256.3	4256.3	100	%	10:52:23
1	Y 371.029	750565.4	750565.4	98.442	%	10:53:41
1	Y RADIAL	4638.2	4638.2	98.85	%	10:52:23
1	Ag 328.068†	109543.2	109282.3	[500]	ug/L	10:53:46
1	Al 396.153Radial†	5378.3	5485.6	[5000]	ug/L	10:52:23
1	As 188.979†	1073.7	1093.9	[500]	ug/L	10:54:06
1	B 249.677†	20315.6	20682.7	[500]	ug/L	10:53:46
1	Ba 233.527†	64027.8	64018.5	[500]	ug/L	10:53:46
1	Be 313.107†	1312793.2	1316267.2	[500]	ug/L	10:53:41
1	Ca 317.933Radial†	2558.4	2541.3	[5000]	ug/L	10:52:43
1	Cd 226.502†	43089.3	43260.2	[500]	ug/L	10:53:46
1	Co 228.616†	23900.9	23955.9	[500]	ug/L	10:53:46
1	Cr 267.716†	44711.3	44632.4	[500]	ug/L	10:53:46
1	Cu 324.752†	171573.6	165446.9	[500]	ug/L	10:53:46
1	K 766.490 Radial†	29165.2	26589.6	[5000]	ug/L	10:52:23
1	Mg 279.077 IEC†	117.2	114.4	[5000]	ug/L	10:52:43
1	Mn 257.610†	438677.8	438114.2	[500]	ug/L	10:53:41
1	Mo 202.031†	6854.5	6846.4	[500]	ug/L	10:54:06
1	Ni 231.604†	19835.1	19777.1	[500]	ug/L	10:53:46
1	P 214.914†	4281.2	4077.9	[2500]	ug/L	10:54:06
1	Pb 220.353†	3932.5	3996.4	[500]	ug/L	10:54:06
1	S 181.975 Axial†	726.7	689.5	[1000]	ug/L	10:54:06
1	Sb 206.836†	1467.3	1430.2	[500]	ug/L	10:54:06
1	Se 196.026†	731.3	751.8	[500]	ug/L	10:54:06
1	Si 251.611†	78417.2	77860.4	[2500]	ug/L	10:53:46
1	Sn 189.927†	2762.1	2750.8	[500]	ug/L	10:54:06
1	Sr 421.552†	76092.5	76006.6	[500]	ug/L	10:52:23
1	Ti 334.940†	324664.6	325852.6	[500]	ug/L	10:53:41
1	Tl 190.801†	1528.1	1558.8	[500]	ug/L	10:54:06
1	U 409.014†	15531.1	18342.9	[500]	ug/L	10:53:46
1	V 292.402†	70288.7	71698.8	[500]	ug/L	10:53:46
1	Zn 213.857†	50466.1	49893.8	[500]	ug/L	10:53:46
1	SiO2†	77434.5	76860.6	[5347.5]	ug/L	10:55:14
2	Sc 361.383	903758.2	903758.2	100.41	%	10:54:12
2	Sc Radial	4228.2	4228.2	99.4	%	10:52:48
2	Y 371.029	752751.8	752751.8	98.729	%	10:54:12
2	Y RADIAL	4643.7	4643.7	98.97	%	10:52:48
2	Ag 328.068†	110294.8	109614.5	[500]	ug/L	10:54:17
2	Al 396.153Radial†	5368.3	5511.3	[5000]	ug/L	10:52:48
2	As 188.979†	1096.6	1112.7	[500]	ug/L	10:54:38
2	B 249.677†	20407.6	20697.1	[500]	ug/L	10:54:17
2	Ba 233.527†	64321.9	64068.0	[500]	ug/L	10:54:17
2	Be 313.107†	1317297.0	1315764.5	[500]	ug/L	10:54:12
2	Ca 317.933Radial†	2568.2	2568.1	[5000]	ug/L	10:53:09
2	Cd 226.502†	43253.2	43259.7	[500]	ug/L	10:54:17
2	Co 228.616†	24083.7	24047.2	[500]	ug/L	10:54:17
2	Cr 267.716†	44907.2	44657.6	[500]	ug/L	10:54:17
2	Cu 324.752†	172308.5	165526.9	[500]	ug/L	10:54:17
2	K 766.490 Radial†	29045.9	26663.1	[5000]	ug/L	10:52:48
2	Mg 279.077 IEC†	117.0	114.9	[5000]	ug/L	10:53:09
2	Mn 257.610†	441270.2	439029.2	[500]	ug/L	10:54:12
2	Mo 202.031†	6863.7	6829.6	[500]	ug/L	10:54:38
2	Ni 231.604†	19905.6	19771.9	[500]	ug/L	10:54:17
2	P 214.914†	4297.7	4078.1	[2500]	ug/L	10:54:38
2	Pb 220.353†	3979.3	4028.0	[500]	ug/L	10:54:38
2	S 181.975 Axial†	723.2	683.2	[1000]	ug/L	10:54:38
2	Sb 206.836†	1455.8	1413.2	[500]	ug/L	10:54:38

2	Se 196.026†	734.2	751.9	[500]	ug/L	10:54:38
2	Si 251.611†	78823.9	77967.5	[2500]	ug/L	10:54:17
2	Sn 189.927†	2777.4	2755.6	[500]	ug/L	10:54:38
2	Sr 421.552†	75741.3	76158.1	[500]	ug/L	10:52:48
2	Ti 334.940†	326293.8	326241.5	[500]	ug/L	10:54:12
2	Tl 190.801†	1532.3	1557.2	[500]	ug/L	10:54:38
2	U 409.014†	15585.9	18338.5	[500]	ug/L	10:54:17
2	V 292.402†	70570.4	71712.3	[500]	ug/L	10:54:17
2	Zn 213.857†	50835.7	50070.2	[500]	ug/L	10:54:17
2	SiO2†	79038.6	78163.9	[5347.5]	ug/L	10:55:19
3	Sc 361.383	923923.2	923923.2	102.65	%	10:54:44
3	Sc Radial	4272.5	4272.5	100	%	10:53:14
3	Y 371.029	769970.9	769970.9	100.99	%	10:54:44
3	Y RADIAL	4695.6	4695.6	100.1	%	10:53:14
3	Ag 328.068†	108677.4	105641.5	[500]	ug/L	10:54:49
3	Al 396.153Radial†	5415.2	5501.9	[5000]	ug/L	10:53:14
3	As 188.979†	1076.6	1069.3	[500]	ug/L	10:55:09
3	B 249.677†	20096.6	19950.5	[500]	ug/L	10:54:49
3	Ba 233.527†	63178.8	61556.3	[500]	ug/L	10:54:49
3	Be 313.107†	1346718.2	1315792.9	[500]	ug/L	10:54:44
3	Ca 317.933Radial†	2564.0	2537.1	[5000]	ug/L	10:53:34
3	Cd 226.502†	42442.6	41529.9	[500]	ug/L	10:54:49
3	Co 228.616†	23631.9	23083.6	[500]	ug/L	10:54:49
3	Cr 267.716†	44091.6	42887.0	[500]	ug/L	10:54:49
3	Cu 324.752†	169944.9	159479.0	[500]	ug/L	10:54:49
3	K 766.490 Radial†	29199.6	26513.0	[5000]	ug/L	10:53:14
3	Mg 279.077 IEC†	117.2	113.9	[5000]	ug/L	10:53:34
3	Mn 257.610†	449647.7	437598.8	[500]	ug/L	10:54:44
3	Mo 202.031†	6850.6	6667.6	[500]	ug/L	10:55:09
3	Ni 231.604†	19515.8	18959.5	[500]	ug/L	10:54:49
3	P 214.914†	4291.0	3978.1	[2500]	ug/L	10:55:09
3	Pb 220.353†	3937.9	3901.2	[500]	ug/L	10:55:09
3	S 181.975 Axial†	717.9	662.3	[1000]	ug/L	10:55:09
3	Sb 206.836†	1463.6	1389.1	[500]	ug/L	10:55:09
3	Se 196.026†	736.9	738.5	[500]	ug/L	10:55:09
3	Si 251.611†	77563.1	75025.9	[2500]	ug/L	10:54:49
3	Sn 189.927†	2774.8	2692.7	[500]	ug/L	10:55:09
3	Sr 421.552†	76283.5	75907.6	[500]	ug/L	10:53:14
3	Ti 334.940†	333418.8	326090.2	[500]	ug/L	10:54:44
3	Tl 190.801†	1521.7	1513.6	[500]	ug/L	10:55:09
3	U 409.014†	15506.4	17922.2	[500]	ug/L	10:54:49
3	V 292.402†	69454.9	69091.7	[500]	ug/L	10:54:49
3	Zn 213.857†	49917.0	48070.2	[500]	ug/L	10:54:49
3	SiO2†	77323.4	74775.1	[5347.5]	ug/L	10:55:24

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	909334.9	12750.06	1.40%	101.03	%
Sc Radial	4252.4	22.42	0.53%	100.0	%
Y 371.029	757762.7	10629.01	1.40%	99.386	%
Y RADIAL	4659.2	31.66	0.68%	99.30	%
Ag 328.068†	108179.4	2204.17	2.04%	[500]	ug/L
Al 396.153Radial†	5499.6	12.96	0.24%	[5000]	ug/L
As 188.979†	1092.0	21.74	1.99%	[500]	ug/L
B 249.677†	20443.5	426.95	2.09%	[500]	ug/L
Ba 233.527†	63214.3	1436.04	2.27%	[500]	ug/L
Be 313.107†	1315941.5	282.38	0.02%	[500]	ug/L
Ca 317.933Radial†	2548.8	16.83	0.66%	[5000]	ug/L
Cd 226.502†	42683.3	998.86	2.34%	[500]	ug/L
Co 228.616†	23695.5	531.94	2.24%	[500]	ug/L
Cr 267.716†	44059.0	1015.06	2.30%	[500]	ug/L
Cu 324.752†	163484.3	3468.87	2.12%	[500]	ug/L
K 766.490 Radial†	26588.6	75.02	0.28%	[5000]	ug/L
Mg 279.077 IEC†	114.4	0.51	0.45%	[5000]	ug/L
Mn 257.610†	438247.4	724.44	0.17%	[500]	ug/L
Mo 202.031†	6781.2	98.75	1.46%	[500]	ug/L
Ni 231.604†	19502.8	470.54	2.41%	[500]	ug/L
P 214.914†	4044.7	57.68	1.43%	[2500]	ug/L
Pb 220.353†	3975.2	66.02	1.66%	[500]	ug/L

S 181.975 Axial†	678.3	14.20	2.09%	[1000]	ug/L
Sb 206.836†	1410.8	20.65	1.46%	[500]	ug/L
Se 196.026†	747.4	7.69	1.03%	[500]	ug/L
Si 251.611†	76951.3	1668.26	2.17%	[2500]	ug/L
Sn 189.927†	2733.1	35.00	1.28%	[500]	ug/L
Sr 421.552†	76024.1	126.19	0.17%	[500]	ug/L
Ti 334.940†	326061.4	196.03	0.06%	[500]	ug/L
Tl 190.801†	1543.2	25.69	1.66%	[500]	ug/L
U 409.014†	18201.2	241.61	1.33%	[500]	ug/L
V 292.402†	70834.2	1509.15	2.13%	[500]	ug/L
Zn 213.857†	49344.7	1107.27	2.24%	[500]	ug/L
SiO2†	76599.9	1709.41	2.23%	[5347.5]	ug/L

Sequence No.: 4
Sample ID: SCAL
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/23/2010 10:57:35
Data Type: Reprocessed on 2/23/2010 12:42:25

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	891910.2	891910.2	99.094	%	11:00:52
1	Sc Radial	4245.1	4245.1	99.8	%	10:59:28
1	Y 371.029	744742.4	744742.4	97.679	%	11:00:52
1	Y RADIAL	4634.9	4634.9	98.78	%	10:59:28
1	Ag 328.068†	216642.1	218393.1	[1000]	ug/L	11:00:52
1	Al 396.153Radial†	10786.9	10919.1	[10000]	ug/L	10:59:28
1	As 188.979†	2169.6	2209.9	[1000]	ug/L	11:01:12
1	B 249.677†	41480.7	42232.8	[1000]	ug/L	11:00:52
1	Ba 233.527†	127494.5	128669.0	[1000]	ug/L	11:00:52
1	Be 313.107†	2653232.1	2681338.7	[1000]	ug/L	11:00:47
1	Ca 317.933Radial†	5118.1	5112.7	[10000]	ug/L	10:59:28
1	Cd 226.502†	85611.0	86576.9	[1000]	ug/L	11:00:52
1	Co 228.616†	47510.9	48007.2	[1000]	ug/L	11:00:52
1	Cr 267.716†	88787.8	89533.4	[1000]	ug/L	11:00:52
1	Cu 324.752†	337960.7	334972.9	[1000]	ug/L	11:00:52
1	Fe 238.204 Radial†	785.9	777.3	[10000]	ug/L	10:59:48
1	K 766.490 Radial†	55587.7	53141.1	[10000]	ug/L	10:59:28
1	Mg 279.077 IEC†	229.7	227.5	[10000]	ug/L	10:59:48
1	Mn 257.610†	882531.1	890161.6	[1000]	ug/L	11:00:47
1	Mo 202.031†	13476.9	13594.0	[1000]	ug/L	11:01:12
1	Na 589.592 Radial†	33142.6	33948.6	[10000]	ug/L	10:59:28
1	Ni 231.604†	39197.0	39503.0	[1000]	ug/L	11:00:52
1	P 214.914†	8340.5	8214.7	[5000]	ug/L	11:01:12
1	Pb 220.353†	7911.5	8048.8	[1000]	ug/L	11:01:12
1	S 181.975 Axial†	1383.9	1359.5	[2000]	ug/L	11:01:12
1	Sb 206.836†	2854.7	2844.1	[1000]	ug/L	11:01:12
1	Se 196.026†	1477.1	1511.3	[1000]	ug/L	11:01:12
1	Si 251.611†	155728.5	156617.9	[5000]	ug/L	11:00:52
1	Sn 189.927†	5486.1	5525.8	[1000]	ug/L	11:01:12
1	Sr 421.552†	149204.2	149463.0	[1000]	ug/L	10:59:28
1	Ti 334.940†	651627.1	658865.4	[1000]	ug/L	11:00:47
1	Tl 190.801†	3041.6	3100.6	[1000]	ug/L	11:01:12
1	U 409.014†	34095.7	37223.7	[1000]	ug/L	11:00:52
1	V 292.402†	142270.3	145001.3	[1000]	ug/L	11:00:52
1	Zn 213.857†	99796.5	100151.0	[1000]	ug/L	11:00:52
1	SiO2†	155863.5	156736.7	[10695]	ug/L	11:02:22
2	Sc 361.383	888123.5	888123.5	98.673	%	11:01:24
2	Sc Radial	4238.9	4238.9	99.7	%	10:59:53
2	Y 371.029	740212.2	740212.2	97.084	%	11:01:24
2	Y RADIAL	4662.0	4662.0	99.36	%	10:59:53
2	Ag 328.068†	215558.5	218227.1	[1000]	ug/L	11:01:24
2	Al 396.153Radial†	10911.0	11059.4	[10000]	ug/L	10:59:53
2	As 188.979†	2174.9	2224.6	[1000]	ug/L	11:01:44
2	B 249.677†	41324.3	42252.9	[1000]	ug/L	11:01:24
2	Ba 233.527†	126728.9	128441.7	[1000]	ug/L	11:01:24
2	Be 313.107†	2671625.9	2711395.8	[1000]	ug/L	11:01:19
2	Ca 317.933Radial†	5131.3	5133.5	[10000]	ug/L	10:59:53
2	Cd 226.502†	84910.5	86235.4	[1000]	ug/L	11:01:24
2	Co 228.616†	47317.7	48015.8	[1000]	ug/L	11:01:24
2	Cr 267.716†	88245.6	89366.0	[1000]	ug/L	11:01:24
2	Cu 324.752†	336722.4	335172.1	[1000]	ug/L	11:01:24
2	Fe 238.204 Radial†	787.6	780.2	[10000]	ug/L	11:00:13
2	K 766.490 Radial†	56091.1	53727.5	[10000]	ug/L	10:59:53
2	Mg 279.077 IEC†	226.8	224.8	[10000]	ug/L	11:00:13
2	Mn 257.610†	890113.8	901643.4	[1000]	ug/L	11:01:19
2	Mo 202.031†	13455.5	13630.4	[1000]	ug/L	11:01:44
2	Na 589.592 Radial†	33331.2	34186.3	[10000]	ug/L	10:59:53
2	Ni 231.604†	38960.7	39432.2	[1000]	ug/L	11:01:24

2	P 214.914†	8345.5	8255.6	[5000]	ug/L	11:01:44
2	Pb 220.353†	7907.6	8078.9	[1000]	ug/L	11:01:44
2	S 181.975 Axial†	1373.4	1354.9	[2000]	ug/L	11:01:44
2	Sb 206.836†	2879.1	2881.1	[1000]	ug/L	11:01:44
2	Se 196.026†	1477.3	1517.8	[1000]	ug/L	11:01:44
2	Si 251.611†	154934.5	156483.3	[5000]	ug/L	11:01:24
2	Sn 189.927†	5443.4	5506.1	[1000]	ug/L	11:01:44
2	Sr 421.552†	150616.7	151098.6	[1000]	ug/L	10:59:53
2	Ti 334.940†	658117.6	668247.0	[1000]	ug/L	11:01:19
2	Tl 190.801†	3044.3	3116.4	[1000]	ug/L	11:01:44
2	U 409.014†	33948.1	37220.8	[1000]	ug/L	11:01:24
2	V 292.402†	141298.1	144628.1	[1000]	ug/L	11:01:24
2	Zn 213.857†	99168.2	99943.7	[1000]	ug/L	11:01:24
2	SiO2†	153428.2	154939.3	[10695]	ug/L	11:02:27
3	Sc 361.383	881663.0	881663.0	97.956	%	11:01:56
3	Sc Radial	4247.4	4247.4	99.9	%	11:00:19
3	Y 371.029	737020.6	737020.6	96.666	%	11:01:56
3	Y RADIAL	4661.7	4661.7	99.35	%	11:00:19
3	Ag 328.068†	213438.7	217663.8	[1000]	ug/L	11:01:56
3	Al 396.153Radial†	10923.7	11050.3	[10000]	ug/L	11:00:19
3	As 188.979†	2182.0	2248.1	[1000]	ug/L	11:02:16
3	B 249.677†	40835.8	42060.9	[1000]	ug/L	11:01:56
3	Ba 233.527†	125483.7	128111.6	[1000]	ug/L	11:01:56
3	Be 313.107†	2637900.5	2696806.4	[1000]	ug/L	11:01:51
3	Ca 317.933Radial†	5168.9	5160.9	[10000]	ug/L	11:00:19
3	Cd 226.502†	84269.5	86211.5	[1000]	ug/L	11:01:56
3	Co 228.616†	46771.3	47809.3	[1000]	ug/L	11:01:56
3	Cr 267.716†	87584.3	89346.2	[1000]	ug/L	11:01:56
3	Cu 324.752†	332586.7	333450.6	[1000]	ug/L	11:01:56
3	Fe 238.204 Radial†	789.5	780.5	[10000]	ug/L	11:00:39
3	K 766.490 Radial†	56106.6	53631.2	[10000]	ug/L	11:00:19
3	Mg 279.077 IEC†	229.7	227.3	[10000]	ug/L	11:00:39
3	Mn 257.610†	877241.1	895112.1	[1000]	ug/L	11:01:51
3	Mo 202.031†	13566.5	13843.6	[1000]	ug/L	11:02:16
3	Na 589.592 Radial†	33197.9	33986.4	[10000]	ug/L	11:00:19
3	Ni 231.604†	38604.3	39357.7	[1000]	ug/L	11:01:56
3	P 214.914†	8390.1	8363.1	[5000]	ug/L	11:02:16
3	Pb 220.353†	7939.3	8170.0	[1000]	ug/L	11:02:16
3	S 181.975 Axial†	1396.3	1388.4	[2000]	ug/L	11:02:16
3	Sb 206.836†	2893.4	2917.1	[1000]	ug/L	11:02:16
3	Se 196.026†	1486.7	1538.4	[1000]	ug/L	11:02:16
3	Si 251.611†	153339.1	156005.1	[5000]	ug/L	11:01:56
3	Sn 189.927†	5496.2	5600.5	[1000]	ug/L	11:02:16
3	Sr 421.552†	150890.2	151072.2	[1000]	ug/L	11:00:19
3	Ti 334.940†	648705.2	663525.4	[1000]	ug/L	11:01:51
3	Tl 190.801†	3057.3	3152.4	[1000]	ug/L	11:02:16
3	U 409.014†	33467.9	36982.6	[1000]	ug/L	11:01:56
3	V 292.402†	139957.1	144308.4	[1000]	ug/L	11:01:56
3	Zn 213.857†	98088.9	99578.3	[1000]	ug/L	11:01:56
3	SiO2†	154547.5	157221.4	[10695]	ug/L	11:02:32

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	887232.2	5181.41	0.58%	98.574	%
Sc Radial	4243.8	4.37	0.10%	99.8	%
Y 371.029	740658.4	3880.17	0.52%	97.143	%
Y RADIAL	4652.9	15.56	0.33%	99.16	%
Ag 328.068†	218094.7	382.25	0.18%	[1000]	ug/L
Al 396.153Radial†	11009.6	78.52	0.71%	[10000]	ug/L
As 188.979†	2227.5	19.22	0.86%	[1000]	ug/L
B 249.677†	42182.2	105.48	0.25%	[1000]	ug/L
Ba 233.527†	128407.5	280.27	0.22%	[1000]	ug/L
Be 313.107†	2696513.6	15030.70	0.56%	[1000]	ug/L
Ca 317.933Radial†	5135.7	24.16	0.47%	[10000]	ug/L
Cd 226.502†	86341.3	204.44	0.24%	[1000]	ug/L
Co 228.616†	47944.1	116.80	0.24%	[1000]	ug/L
Cr 267.716†	89415.2	102.87	0.12%	[1000]	ug/L
Cu 324.752†	334531.9	941.67	0.28%	[1000]	ug/L
Fe 238.204 Radial†	779.3	1.76	0.23%	[10000]	ug/L

K 766.490 Radial†	53499.9	314.48	0.59%	[10000]	ug/L
Mg 279.077 IEC†	226.5	1.48	0.65%	[10000]	ug/L
Mn 257.610†	895639.0	5759.03	0.64%	[1000]	ug/L
Mo 202.031†	13689.3	134.80	0.98%	[1000]	ug/L
Na 589.592 Radial†	34040.4	127.76	0.38%	[10000]	ug/L
Ni 231.604†	39431.0	72.66	0.18%	[1000]	ug/L
P 214.914†	8277.8	76.67	0.93%	[5000]	ug/L
Pb 220.353†	8099.3	63.08	0.78%	[1000]	ug/L
S 181.975 Axial†	1367.6	18.17	1.33%	[2000]	ug/L
Sb 206.836†	2880.8	36.47	1.27%	[1000]	ug/L
Se 196.026†	1522.5	14.14	0.93%	[1000]	ug/L
Si 251.611†	156368.7	322.03	0.21%	[5000]	ug/L
Sn 189.927†	5544.1	49.81	0.90%	[1000]	ug/L
Sr 421.552†	150544.6	936.80	0.62%	[1000]	ug/L
Ti 334.940†	663545.9	4690.80	0.71%	[1000]	ug/L
Tl 190.801†	3123.2	26.50	0.85%	[1000]	ug/L
U 409.014†	37142.4	138.32	0.37%	[1000]	ug/L
V 292.402†	144645.9	346.78	0.24%	[1000]	ug/L
Zn 213.857†	99891.0	289.99	0.29%	[1000]	ug/L
SiO2†	156299.2	1202.33	0.77%	[10695]	ug/L

Sequence No.: 5
Sample ID: S10
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/23/2010 11:04:43
Data Type: Reprocessed on 2/23/2010 12:42:26

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	883668.8	883668.8	98.179	%	11:07:54
1	Sc Radial	4142.8	4142.8	97.4	%	11:06:57
1	Y 371.029	731362.3	731362.3	95.924	%	11:07:54
1	Y RADIAL	4513.4	4513.4	96.19	%	11:06:57
1	Al 396.153Radial†	53617.4	55161.6	[50000]	ug/L	11:06:37
1	Ca 317.933Radial†	24434.2	25072.0	[50000]	ug/L	11:06:37
1	Fe 238.204 Radial†	1521.2	1551.6	[20000]	ug/L	11:06:57
1	Mg 279.077 IEC†	1067.1	1092.9	[50000]	ug/L	11:06:57
1	Na 589.592 Radial†	66830.1	69357.2	[20000]	ug/L	11:06:37
2	Sc 361.383	886219.7	886219.7	98.462	%	11:08:00
2	Sc Radial	4127.8	4127.8	97.0	%	11:07:22
2	Y 371.029	732471.7	732471.7	96.069	%	11:08:00
2	Y RADIAL	4512.0	4512.0	96.16	%	11:07:22
2	Al 396.153Radial†	53806.5	55555.7	[50000]	ug/L	11:07:02
2	Ca 317.933Radial†	24580.6	25313.6	[50000]	ug/L	11:07:02
2	Fe 238.204 Radial†	1517.7	1553.7	[20000]	ug/L	11:07:22
2	Mg 279.077 IEC†	1071.8	1101.7	[50000]	ug/L	11:07:22
2	Na 589.592 Radial†	66841.1	69616.9	[20000]	ug/L	11:07:02
3	Sc 361.383	883561.2	883561.2	98.167	%	11:08:05
3	Sc Radial	4141.9	4141.9	97.4	%	11:07:47
3	Y 371.029	731261.2	731261.2	95.910	%	11:08:05
3	Y RADIAL	4503.9	4503.9	95.99	%	11:07:47
3	Al 396.153Radial†	53386.3	54936.3	[50000]	ug/L	11:07:27
3	Ca 317.933Radial†	24290.9	24930.3	[50000]	ug/L	11:07:27
3	Fe 238.204 Radial†	1516.5	1547.2	[20000]	ug/L	11:07:47
3	Mg 279.077 IEC†	1074.4	1100.7	[50000]	ug/L	11:07:47
3	Na 589.592 Radial†	65887.7	68404.4	[20000]	ug/L	11:07:27

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	884483.2	1504.77	0.17%	98.269	%
Sc Radial	4137.5	8.38	0.20%	97.3	%
Y 371.029	731698.4	671.64	0.09%	95.968	%
Y RADIAL	4509.8	5.12	0.11%	96.11	%
Al 396.153Radial†	55217.9	313.52	0.57%	[50000]	ug/L
Ca 317.933Radial†	25105.3	193.84	0.77%	[50000]	ug/L
Fe 238.204 Radial†	1550.8	3.33	0.21%	[20000]	ug/L
Mg 279.077 IEC†	1098.4	4.81	0.44%	[50000]	ug/L
Na 589.592 Radial†	69126.2	638.43	0.92%	[20000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	217.8	0.00000	0.999995	
Al 396.153Radial	3	Lin Thru 0	0.0	1.104	0.00000	1.000000	
As 188.979	3	Lin Thru 0	0.0	2.218	0.00000	0.999967	
B 249.677	3	Lin Thru 0	0.0	41.90	0.00000	0.999908	
Ba 233.527	3	Lin Thru 0	0.0	128.0	0.00000	0.999980	
Be 313.107	3	Lin Thru 0	0.0	2683	0.00000	0.999953	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5026	0.00000	0.999989	
Cd 226.502	3	Lin Thru 0	0.0	86.15	0.00000	0.999989	
Co 228.616	3	Lin Thru 0	0.0	47.83	0.00000	0.999989	
Cr 267.716	3	Lin Thru 0	0.0	89.16	0.00000	0.999983	
Cu 324.752	3	Lin Thru 0	0.0	333.0	0.00000	0.999959	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0776	0.00000	0.999998	

K 766.490 Radial	3	Lin Thru 0	0.0	5.345	0.00000	0.999992
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0220	0.00000	0.999975
Mn 257.610	3	Lin Thru 0	0.0	891.9	0.00000	0.999963
Mo 202.031	3	Lin Thru 0	0.0	13.66	0.00000	0.999993
Na 589.592 Radia	2	Lin Thru 0	0.0	3.446	0.00000	0.999982
Ni 231.604	3	Lin Thru 0	0.0	39.34	0.00000	0.999990
P 214.914	3	Lin Thru 0	0.0	1.648	0.00000	0.999959
Pb 220.353	3	Lin Thru 0	0.0	8.071	0.00000	0.999972
S 181.975 Axial	3	Lin Thru 0	0.0	0.6826	0.00000	0.999994
Sb 206.836	3	Lin Thru 0	0.0	2.869	0.00000	0.999966
Se 196.026	3	Lin Thru 0	0.0	1.517	0.00000	0.999971
Si 251.611	3	Lin Thru 0	0.0	31.17	0.00000	0.999980
Sn 189.927	3	Lin Thru 0	0.0	5.528	0.00000	0.999982
Sr 421.552	3	Lin Thru 0	0.0	150.9	0.00000	0.999989
Ti 334.940	3	Lin Thru 0	0.0	661.2	0.00000	0.999976
Tl 190.801	3	Lin Thru 0	0.0	3.116	0.00000	0.999988
U 409.014	3	Lin Thru 0	0.0	37.01	0.00000	0.999959
V 292.402	3	Lin Thru 0	0.0	144.0	0.00000	0.999966
Zn 213.857	3	Lin Thru 0	0.0	99.66	0.00000	0.999988
SiO2	3	Lin Thru 0	0.0	14.55	0.00000	0.999967

Sequence No.: 6
Sample ID: ICV
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/23/2010 11:10:17
Data Type: Reprocessed on 2/23/2010 12:42:27

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc 361.383	915874.4	915874.4	101.76	%			11:13:27
1	Sc Radial	4252.1	4252.1	100.0	%			11:12:09
1	Y 371.029	765461.2	765461.2	100.40	%			11:13:27
1	Y RADIAL	4657.5	4657.5	99.26	%			11:12:09
1	Ag 328.068†	57664.7	56439.9	262.37	ug/L	262.37	ppb	11:13:27
1	Al 396.153Radial†	5487.0	5599.7	5045.4	ug/L	5045.4	ppb	11:12:09
1	As 188.979†	1055.5	1057.8	481.02	ug/L	481.02	ppb	11:13:47
1	B 249.677†	21613.3	21613.1	513.53	ug/L	513.53	ppb	11:13:27
1	Ba 233.527†	66256.4	65121.7	509.94	ug/L	509.94	ppb	11:13:27
1	Be 313.107†	698759.7	690549.9	258.46	ug/L	258.46	ppb	11:13:27
1	Ca 317.933Radial†	2585.1	2570.5	5114.2	ug/L	5114.2	ppb	11:12:30
1	Cd 226.502†	43492.1	42924.6	498.11	ug/L	498.11	ppb	11:13:27
1	Co 228.616†	24233.1	23876.7	499.37	ug/L	499.37	ppb	11:13:47
1	Cr 267.716†	44140.7	43312.7	486.80	ug/L	486.80	ppb	11:13:27
1	Cu 324.752†	178343.5	169187.6	508.06	ug/L	508.06	ppb	11:13:27
1	Fe 238.204 Radial†	414.8	404.8	5229.6	ug/L	5229.6	ppb	11:12:30
1	K 766.490 Radial†	15818.9	13267.7	2478.7	ug/L	2478.7	ppb	11:12:09
1	Mg 279.077 IEC†	121.5	118.8	5400.6	ug/L	5400.6	ppb	11:12:30
1	Mn 257.610†	463611.0	455170.6	510.63	ug/L	510.63	ppb	11:13:27
1	Mo 202.031†	7432.8	7298.4	534.58	ug/L	534.58	ppb	11:13:47
1	Na 589.592 Radial†	7901.1	8644.2	2508.6	ug/L	2508.6	ppb	11:12:09
1	Ni 231.604†	19885.6	19490.0	495.09	ug/L	495.09	ppb	11:13:47
1	P 214.914†	4380.1	4102.4	2390.5	ug/L	2390.5	ppb	11:13:47
1	Pb 220.353†	4067.2	4062.0	504.91	ug/L	504.91	ppb	11:13:47
1	S 181.975 Axial†	1755.0	1687.7	2471.4	ug/L	2471.4	ppb	11:13:47
1	Sb 206.836†	1487.3	1424.9	515.94	ug/L	515.94	ppb	11:13:47
1	Se 196.026†	3960.7	3913.1	2597.8	ug/L	2597.8	ppb	11:13:47
1	Si 251.611†	152917.6	149743.6	4797.2	ug/L	4797.2	ppb	11:13:27
1	Sn 189.927†	3009.6	2947.2	533.79	ug/L	533.79	ppb	11:13:47
1	Sr 421.552†	79876.1	79867.3	529.31	ug/L	529.31	ppb	11:12:09
1	Ti 334.940†	328821.3	324426.5	490.53	ug/L	490.53	ppb	11:13:27
1	Tl 190.801†	1654.7	1657.3	535.23	ug/L	535.23	ppb	11:13:47
1	U 409.014†	15558.4	18106.1	487.56	ug/L	487.56	ppb	11:13:27
1	V 292.402†	72488.0	72667.0	511.63	ug/L	511.63	ppb	11:13:27
1	Zn 213.857†	52692.6	51225.3	509.38	ug/L	509.38	ppb	11:13:27
1	SiO2†	152215.6	149036.3	10226	ug/L	10226	ppb	11:14:45
2	Sc 361.383	906969.3	906969.3	100.77	%			11:13:53
2	Sc Radial	4318.7	4318.7	102	%			11:12:35
2	Y 371.029	759036.8	759036.8	99.553	%			11:13:53
2	Y RADIAL	4733.1	4733.1	100.9	%			11:12:35
2	Ag 328.068†	56985.1	56321.8	261.83	ug/L	261.83	ppb	11:13:53
2	Al 396.153Radial†	5530.1	5557.5	5006.7	ug/L	5006.7	ppb	11:12:35
2	As 188.979†	1049.9	1062.4	483.05	ug/L	483.05	ppb	11:14:13
2	B 249.677†	21279.9	21490.8	510.59	ug/L	510.59	ppb	11:13:53
2	Ba 233.527†	65380.1	64891.4	508.14	ug/L	508.14	ppb	11:13:53
2	Be 313.107†	692294.5	690876.3	258.58	ug/L	258.58	ppb	11:13:53
2	Ca 317.933Radial†	2596.7	2542.1	5057.7	ug/L	5057.7	ppb	11:12:55
2	Cd 226.502†	42889.7	42746.4	496.04	ug/L	496.04	ppb	11:13:53
2	Co 228.616†	24401.4	24277.6	507.78	ug/L	507.78	ppb	11:14:13
2	Cr 267.716†	43720.3	43321.4	486.90	ug/L	486.90	ppb	11:13:53
2	Cu 324.752†	176600.1	169178.2	508.03	ug/L	508.03	ppb	11:13:53
2	Fe 238.204 Radial†	420.1	403.6	5214.3	ug/L	5214.3	ppb	11:12:55
2	K 766.490 Radial†	15988.8	13190.7	2464.3	ug/L	2464.3	ppb	11:12:35
2	Mg 279.077 IEC†	119.9	115.4	5243.1	ug/L	5243.1	ppb	11:12:55
2	Mn 257.610†	458163.0	454237.5	509.58	ug/L	509.58	ppb	11:13:53
2	Mo 202.031†	7501.4	7438.2	544.81	ug/L	544.81	ppb	11:14:13
2	Na 589.592 Radial†	7957.2	8577.5	2489.2	ug/L	2489.2	ppb	11:12:35
2	Ni 231.604†	20057.8	19852.7	504.31	ug/L	504.31	ppb	11:14:13

2	P 214.914†	4443.2	4207.4	2454.2 ug/L	2454.2 ppb	11:14:13
2	Pb 220.353†	4086.8	4120.7	512.20 ug/L	512.20 ppb	11:14:13
2	S 181.975 Axial†	1786.0	1735.3	2541.2 ug/L	2541.2 ppb	11:14:13
2	Sb 206.836†	1495.5	1447.4	524.15 ug/L	524.15 ppb	11:14:13
2	Se 196.026†	4008.9	3999.1	2654.6 ug/L	2654.6 ppb	11:14:13
2	Si 251.611†	151012.2	149328.2	4783.7 ug/L	4783.7 ppb	11:13:53
2	Sn 189.927†	3031.7	2998.1	543.00 ug/L	543.00 ppb	11:14:13
2	Sr 421.552†	80806.5	79550.4	527.21 ug/L	527.21 ppb	11:12:35
2	Ti 334.940†	325113.9	323920.1	489.77 ug/L	489.77 ppb	11:13:53
2	Tl 190.801†	1662.1	1680.7	542.68 ug/L	542.68 ppb	11:14:13
2	U 409.014†	15276.8	17976.7	484.06 ug/L	484.06 ppb	11:13:53
2	V 292.402†	71845.2	72728.6	512.19 ug/L	512.19 ppb	11:13:53
2	Zn 213.857†	51994.9	51041.3	507.48 ug/L	507.48 ppb	11:13:53
2	SiO2†	152512.7	150799.9	10346 ug/L	10346 ppb	11:14:50
3	Sc 361.383	910711.5	910711.5	101.18 %		11:14:19
3	Sc Radial	4267.6	4267.6	100 %		11:13:00
3	Y 371.029	762735.4	762735.4	100.04 %		11:14:19
3	Y RADIAL	4678.6	4678.6	99.71 %		11:13:00
3	Ag 328.068†	57183.4	56285.5	261.66 ug/L	261.66 ppb	11:14:19
3	Al 396.153Radial†	5473.4	5566.2	5014.8 ug/L	5014.8 ppb	11:13:00
3	As 188.979†	1058.8	1067.0	485.12 ug/L	485.12 ppb	11:14:39
3	B 249.677†	21334.5	21458.0	509.81 ug/L	509.81 ppb	11:14:19
3	Ba 233.527†	65509.9	64753.1	507.06 ug/L	507.06 ppb	11:14:19
3	Be 313.107†	694998.9	690726.0	258.53 ug/L	258.53 ppb	11:14:19
3	Ca 317.933Radial†	2602.0	2578.0	5129.2 ug/L	5129.2 ppb	11:13:20
3	Cd 226.502†	43081.7	42761.3	496.22 ug/L	496.22 ppb	11:14:19
3	Co 228.616†	24419.7	24196.1	506.07 ug/L	506.07 ppb	11:14:39
3	Cr 267.716†	43886.5	43307.3	486.74 ug/L	486.74 ppb	11:14:19
3	Cu 324.752†	176910.2	168764.6	506.79 ug/L	506.79 ppb	11:14:19
3	Fe 238.204 Radial†	415.9	404.4	5224.7 ug/L	5224.7 ppb	11:13:20
3	K 766.490 Radial†	15897.1	13288.1	2482.5 ug/L	2482.5 ppb	11:13:00
3	Mg 279.077 IEC†	118.8	115.7	5257.4 ug/L	5257.4 ppb	11:13:20
3	Mn 257.610†	459289.6	453482.6	508.74 ug/L	508.74 ppb	11:14:19
3	Mo 202.031†	7484.0	7390.4	541.32 ug/L	541.32 ppb	11:14:39
3	Na 589.592 Radial†	7898.0	8612.4	2499.3 ug/L	2499.3 ppb	11:13:00
3	Ni 231.604†	20066.0	19779.0	502.44 ug/L	502.44 ppb	11:14:39
3	P 214.914†	4430.2	4176.4	2435.7 ug/L	2435.7 ppb	11:14:39
3	Pb 220.353†	4062.8	4080.3	507.19 ug/L	507.19 ppb	11:14:39
3	S 181.975 Axial†	1780.1	1722.2	2522.0 ug/L	2522.0 ppb	11:14:39
3	Sb 206.836†	1525.3	1470.7	532.17 ug/L	532.17 ppb	11:14:39
3	Se 196.026†	4005.4	3979.2	2641.5 ug/L	2641.5 ppb	11:14:39
3	Si 251.611†	151133.7	148832.4	4767.9 ug/L	4767.9 ppb	11:14:19
3	Sn 189.927†	3035.7	2989.8	541.50 ug/L	541.50 ppb	11:14:39
3	Sr 421.552†	79944.6	79644.8	527.84 ug/L	527.84 ppb	11:13:00
3	Ti 334.940†	326102.4	323571.3	489.25 ug/L	489.25 ppb	11:14:19
3	Tl 190.801†	1655.9	1667.8	538.53 ug/L	538.53 ppb	11:14:39
3	U 409.014†	15420.2	18056.2	486.21 ug/L	486.21 ppb	11:14:19
3	V 292.402†	72026.1	72614.4	511.35 ug/L	511.35 ppb	11:14:19
3	Zn 213.857†	52104.9	50937.9	506.45 ug/L	506.45 ppb	11:14:19
3	SiO2†	152262.5	149930.7	10287 ug/L	10287 ppb	11:14:55

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	911185.1	101.24	%	0.497				0.49%
Sc Radial	4279.4	101	%	0.8				0.81%
Y 371.029	762411.2	99.996	%	0.4229				0.42%
Y RADIAL	4689.7	99.95	%	0.832				0.83%
Ag 328.068†	56349.1	261.95	ug/L	0.371	261.95	ppb	0.371	0.14%
QC value within limits for Ag 328.068 Recovery = 104.78%								
Al 396.153Radial†	5574.4	5022.3	ug/L	20.43	5022.3	ppb	20.43	0.41%
QC value within limits for Al 396.153Radial Recovery = 100.45%								
As 188.979†	1062.4	483.06	ug/L	2.050	483.06	ppb	2.050	0.42%
QC value within limits for As 188.979 Recovery = 96.61%								
B 249.677†	21520.6	511.31	ug/L	1.962	511.31	ppb	1.962	0.38%
QC value within limits for B 249.677 Recovery = 102.26%								
Ba 233.527†	64922.1	508.38	ug/L	1.455	508.38	ppb	1.455	0.29%
QC value within limits for Ba 233.527 Recovery = 101.68%								
Be 313.107†	690717.4	258.52	ug/L	0.060	258.52	ppb	0.060	0.02%
QC value within limits for Be 313.107 Recovery = 103.41%								

Ca 317.933Radial†	2563.5	5100.4 ug/L	37.73	5100.4 ppb	37.73	0.74%
QC value within limits for Ca 317.933Radial Recovery = 102.01%						
Cd 226.502†	42810.8	496.79 ug/L	1.144	496.79 ppb	1.144	0.23%
QC value within limits for Cd 226.502 Recovery = 99.36%						
Co 228.616†	24116.8	504.41 ug/L	4.442	504.41 ppb	4.442	0.88%
QC value within limits for Co 228.616 Recovery = 100.88%						
Cr 267.716†	43313.8	486.82 ug/L	0.080	486.82 ppb	0.080	0.02%
QC value within limits for Cr 267.716 Recovery = 97.36%						
Cu 324.752†	169043.5	507.63 ug/L	0.725	507.63 ppb	0.725	0.14%
QC value within limits for Cu 324.752 Recovery = 101.53%						
Fe 238.204 Radial†	404.2	5222.9 ug/L	7.83	5222.9 ppb	7.83	0.15%
QC value within limits for Fe 238.204 Radial Recovery = 104.46%						
K 766.490 Radial†	13248.8	2475.2 ug/L	9.59	2475.2 ppb	9.59	0.39%
QC value within limits for K 766.490 Radial Recovery = 99.01%						
Mg 279.077 IEC†	116.6	5300.4 ug/L	87.12	5300.4 ppb	87.12	1.64%
QC value within limits for Mg 279.077 IEC Recovery = 106.01%						
Mn 257.610†	454296.9	509.65 ug/L	0.945	509.65 ppb	0.945	0.19%
QC value within limits for Mn 257.610 Recovery = 101.93%						
Mo 202.031†	7375.7	540.24 ug/L	5.201	540.24 ppb	5.201	0.96%
QC value within limits for Mo 202.031 Recovery = 108.05%						
Na 589.592 Radial†	8611.3	2499.0 ug/L	9.69	2499.0 ppb	9.69	0.39%
QC value within limits for Na 589.592 Radial Recovery = 99.96%						
Ni 231.604†	19707.3	500.61 ug/L	4.870	500.61 ppb	4.870	0.97%
QC value within limits for Ni 231.604 Recovery = 100.12%						
P 214.914†	4162.1	2426.8 ug/L	32.79	2426.8 ppb	32.79	1.35%
QC value within limits for P 214.914 Recovery = 97.07%						
Pb 220.353†	4087.7	508.10 ug/L	3.726	508.10 ppb	3.726	0.73%
QC value within limits for Pb 220.353 Recovery = 101.62%						
S 181.975 Axial†	1715.1	2511.6 ug/L	36.06	2511.6 ppb	36.06	1.44%
QC value within limits for S 181.975 Axial Recovery = 100.46%						
Sb 206.836†	1447.7	524.09 ug/L	8.116	524.09 ppb	8.116	1.55%
QC value within limits for Sb 206.836 Recovery = 104.82%						
Se 196.026†	3963.8	2631.3 ug/L	29.70	2631.3 ppb	29.70	1.13%
QC value within limits for Se 196.026 Recovery = 105.25%						
Si 251.611†	149301.4	4782.9 ug/L	14.67	4782.9 ppb	14.67	0.31%
QC value within limits for Si 251.611 Recovery = 95.66%						
Sn 189.927†	2978.4	539.43 ug/L	4.943	539.43 ppb	4.943	0.92%
QC value within limits for Sn 189.927 Recovery = 107.89%						
Sr 421.552†	79687.5	528.12 ug/L	1.078	528.12 ppb	1.078	0.20%
QC value within limits for Sr 421.552 Recovery = 105.62%						
Ti 334.940†	323972.6	489.85 ug/L	0.643	489.85 ppb	0.643	0.13%
QC value within limits for Ti 334.940 Recovery = 97.97%						
Tl 190.801†	1668.6	538.81 ug/L	3.733	538.81 ppb	3.733	0.69%
QC value within limits for Tl 190.801 Recovery = 107.76%						
U 409.014†	18046.3	485.94 ug/L	1.762	485.94 ppb	1.762	0.36%
QC value within limits for U 409.014 Recovery = 97.19%						
V 292.402†	72670.0	511.73 ug/L	0.428	511.73 ppb	0.428	0.08%
QC value within limits for V 292.402 Recovery = 102.35%						
Zn 213.857†	51068.2	507.77 ug/L	1.485	507.77 ppb	1.485	0.29%
QC value within limits for Zn 213.857 Recovery = 101.55%						
SiO2†	149922.3	10286 ug/L	60.5	10286 ppb	60.5	0.59%
QC value within limits for SiO2 Recovery = 96.18%						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICB
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/23/2010 11:17:06
Data Type: Reprocessed on 2/23/2010 12:42:28

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc 361.383	898367.4	898367.4	99.812	%			11:20:16
1	Sc Radial	4291.3	4291.3	101	%			11:18:59
1	Y 371.029	760183.8	760183.8	99.704	%			11:20:16
1	Y RADIAL	4722.1	4722.1	100.6	%			11:18:59
1	Ag 328.068†	235.0	6.1	0.0327	ug/L	0.0327	ppb	11:20:16
1	Al 396.153Radial†	-110.3	1.4	1.2756	ug/L	1.2756	ppb	11:19:19
1	As 188.979†	-12.9	7.6	3.4483	ug/L	3.4483	ppb	11:20:36
1	B 249.677†	-219.1	153.4	3.6585	ug/L	3.6585	ppb	11:20:36
1	Ba 233.527†	3.8	13.0	0.1028	ug/L	0.1028	ppb	11:20:36
1	Be 313.107†	-3824.8	21.2	0.0079	ug/L	0.0079	ppb	11:20:16
1	Ca 317.933Radial†	17.3	1.7	3.4407	ug/L	3.4407	ppb	11:19:19
1	Cd 226.502†	-171.0	12.0	0.1378	ug/L	0.1378	ppb	11:20:36
1	Co 228.616†	-68.7	-6.9	-0.1449	ug/L	-0.1449	ppb	11:20:36
1	Cr 267.716†	76.1	10.2	0.1157	ug/L	0.1157	ppb	11:20:36
1	Cu 324.752†	5987.3	-78.5	-0.2362	ug/L	-0.2362	ppb	11:20:16
1	Fe 238.204 Radial†	11.6	1.3	16.477	ug/L	16.477	ppb	11:19:19
1	K 766.490 Radial†	2615.4	35.6	6.6581	ug/L	6.6581	ppb	11:18:59
1	Mg 279.077 IEC†	3.8	1.0	44.821	ug/L	44.821	ppb	11:19:19
1	Mn 257.610†	431.1	-4.9	-0.0057	ug/L	-0.0057	ppb	11:20:36
1	Mo 202.031†	8.5	2.5	0.1825	ug/L	0.1825	ppb	11:20:36
1	Na 589.592 Radial†	-739.3	7.5	2.1807	ug/L	2.1807	ppb	11:18:59
1	Ni 231.604†	65.8	13.6	0.3448	ug/L	0.3448	ppb	11:20:36
1	P 214.914†	195.8	-5.9	-3.5251	ug/L	-3.5251	ppb	11:20:36
1	Pb 220.353†	-58.7	6.2	0.7686	ug/L	0.7686	ppb	11:20:36
1	S 181.975 Axial†	35.3	-1.6	-2.4172	ug/L	-2.4172	ppb	11:20:36
1	Sb 206.836†	47.6	11.0	3.8684	ug/L	3.8684	ppb	11:20:36
1	Se 196.026†	-20.7	-0.0	0.0262	ug/L	0.0262	ppb	11:20:36
1	Si 251.611†	552.4	19.3	0.6174	ug/L	0.6174	ppb	11:20:36
1	Sn 189.927†	23.4	13.0	2.3596	ug/L	2.3596	ppb	11:20:36
1	Sr 421.552†	53.6	16.4	0.1084	ug/L	0.1084	ppb	11:18:59
1	Ti 334.940†	-1272.4	7.0	0.0064	ug/L	0.0064	ppb	11:20:16
1	Tl 190.801†	-25.5	5.7	1.8304	ug/L	1.8304	ppb	11:20:36
1	U 409.014†	-2728.6	82.5	2.2278	ug/L	2.2278	ppb	11:20:16
1	V 292.402†	-1374.2	53.6	0.3774	ug/L	0.3774	ppb	11:20:16
1	Zn 213.857†	561.9	5.2	0.0482	ug/L	0.0482	ppb	11:20:36
1	SiO2†	584.6	34.2	2.3440	ug/L	2.3440	ppb	11:21:32
2	Sc 361.383	903933.7	903933.7	100.43	%			11:20:42
2	Sc Radial	4159.5	4159.5	97.8	%			11:19:24
2	Y 371.029	765270.9	765270.9	100.37	%			11:20:42
2	Y RADIAL	4604.7	4604.7	98.14	%			11:19:24
2	Ag 328.068†	253.1	22.7	0.0905	ug/L	0.0905	ppb	11:20:42
2	Al 396.153Radial†	-108.1	0.3	0.1930	ug/L	0.1930	ppb	11:19:45
2	As 188.979†	-26.7	-6.1	-2.7645	ug/L	-2.7645	ppb	11:21:02
2	B 249.677†	-248.2	125.8	3.0089	ug/L	3.0089	ppb	11:21:02
2	Ba 233.527†	-11.3	-2.2	-0.0171	ug/L	-0.0171	ppb	11:21:02
2	Be 313.107†	-3916.3	-46.3	-0.0175	ug/L	-0.0175	ppb	11:20:42
2	Ca 317.933Radial†	16.3	1.2	2.3081	ug/L	2.3081	ppb	11:19:45
2	Cd 226.502†	-183.5	0.6	0.0120	ug/L	0.0120	ppb	11:21:02
2	Co 228.616†	-62.5	-0.3	-0.0026	ug/L	-0.0026	ppb	11:21:02
2	Cr 267.716†	74.2	7.9	0.0835	ug/L	0.0835	ppb	11:21:02
2	Cu 324.752†	6074.0	-29.1	-0.0917	ug/L	-0.0917	ppb	11:20:42
2	Fe 238.204 Radial†	7.0	-3.0	-38.728	ug/L	-38.728	ppb	11:19:45
2	K 766.490 Radial†	2489.7	-10.8	-2.0295	ug/L	-2.0295	ppb	11:19:24
2	Mg 279.077 IEC†	2.3	-0.4	-16.535	ug/L	-16.535	ppb	11:19:45
2	Mn 257.610†	462.0	23.2	0.0229	ug/L	0.0229	ppb	11:21:02
2	Mo 202.031†	19.6	13.4	0.9784	ug/L	0.9784	ppb	11:21:02
2	Na 589.592 Radial†	-721.4	2.6	0.7590	ug/L	0.7590	ppb	11:19:24
2	Ni 231.604†	57.9	5.4	0.1366	ug/L	0.1366	ppb	11:21:02

2	P 214.914†	200.1	-2.8	-1.6265	ug/L	-1.6265 ppb	11:21:02
2	Pb 220.353†	-50.9	14.3	1.7804	ug/L	1.7804 ppb	11:21:02
2	S 181.975 Axial†	41.6	4.4	6.4181	ug/L	6.4181 ppb	11:21:02
2	Sb 206.836†	49.6	12.7	4.4358	ug/L	4.4358 ppb	11:21:02
2	Se 196.026†	-33.9	-13.1	-8.7383	ug/L	-8.7383 ppb	11:21:02
2	Si 251.611†	554.3	17.8	0.5583	ug/L	0.5583 ppb	11:21:02
2	Sn 189.927†	11.3	0.8	0.1538	ug/L	0.1538 ppb	11:21:02
2	Sr 421.552†	0.9	-35.8	-0.2374	ug/L	-0.2374 ppb	11:19:24
2	Ti 334.940†	-1347.0	-59.5	-0.0901	ug/L	-0.0901 ppb	11:20:42
2	Tl 190.801†	-32.2	-0.8	-0.2595	ug/L	-0.2595 ppb	11:21:02
2	U 409.014†	-2679.0	148.8	4.0237	ug/L	4.0237 ppb	11:20:42
2	V 292.402†	-1380.2	56.1	0.4166	ug/L	0.4166 ppb	11:20:42
2	Zn 213.857†	549.4	-10.7	-0.1021	ug/L	-0.1021 ppb	11:21:02
2	SiO2†	578.9	24.9	1.6858	ug/L	1.6858 ppb	11:21:37
3	Sc 361.383	904058.5	904058.5	100.44	%		11:21:07
3	Sc Radial	4220.4	4220.4	99.2	%		11:19:50
3	Y 371.029	765367.6	765367.6	100.38	%		11:21:07
3	Y RADIAL	4663.3	4663.3	99.39	%		11:19:50
3	Ag 328.068†	187.1	-43.1	-0.1882	ug/L	-0.1882 ppb	11:21:07
3	Al 396.153Radial†	-103.4	6.5	5.8961	ug/L	5.8961 ppb	11:20:10
3	As 188.979†	-18.2	2.4	1.0811	ug/L	1.0811 ppb	11:21:27
3	B 249.677†	-284.4	89.8	2.1369	ug/L	2.1369 ppb	11:21:27
3	Ba 233.527†	-4.4	4.8	0.0380	ug/L	0.0380 ppb	11:21:27
3	Be 313.107†	-3895.7	-25.2	-0.0093	ug/L	-0.0093 ppb	11:21:07
3	Ca 317.933Radial†	16.0	0.7	1.3994	ug/L	1.3994 ppb	11:20:10
3	Cd 226.502†	-182.4	1.7	0.0163	ug/L	0.0163 ppb	11:21:27
3	Co 228.616†	-69.0	-6.7	-0.1408	ug/L	-0.1408 ppb	11:21:27
3	Cr 267.716†	75.4	9.1	0.1043	ug/L	0.1043 ppb	11:21:27
3	Cu 324.752†	6061.1	-42.9	-0.1280	ug/L	-0.1280 ppb	11:21:07
3	Fe 238.204 Radial†	13.3	3.2	40.910	ug/L	40.910 ppb	11:20:10
3	K 766.490 Radial†	2578.2	41.7	7.7947	ug/L	7.7947 ppb	11:19:50
3	Mg 279.077 IEC†	3.3	0.5	24.901	ug/L	24.901 ppb	11:20:10
3	Mn 257.610†	464.7	25.8	0.0319	ug/L	0.0319 ppb	11:21:27
3	Mo 202.031†	11.9	5.8	0.4256	ug/L	0.4256 ppb	11:21:27
3	Na 589.592 Radial†	-716.9	17.8	5.1795	ug/L	5.1795 ppb	11:19:50
3	Ni 231.604†	62.5	9.9	0.2506	ug/L	0.2506 ppb	11:21:27
3	P 214.914†	194.8	-8.1	-4.9115	ug/L	-4.9115 ppb	11:21:27
3	Pb 220.353†	-50.8	14.5	1.7885	ug/L	1.7885 ppb	11:21:27
3	S 181.975 Axial†	34.1	-3.1	-4.5691	ug/L	-4.5691 ppb	11:21:27
3	Sb 206.836†	38.9	2.0	0.7331	ug/L	0.7331 ppb	11:21:27
3	Se 196.026†	-26.0	-5.2	-3.2987	ug/L	-3.2987 ppb	11:21:27
3	Si 251.611†	562.9	26.3	0.8384	ug/L	0.8384 ppb	11:21:27
3	Sn 189.927†	16.7	6.2	1.1179	ug/L	1.1179 ppb	11:21:27
3	Sr 421.552†	18.6	-18.1	-0.1197	ug/L	-0.1197 ppb	11:19:50
3	Ti 334.940†	-1264.0	23.4	0.0323	ug/L	0.0323 ppb	11:21:07
3	Tl 190.801†	-36.9	-5.6	-1.7884	ug/L	-1.7884 ppb	11:21:27
3	U 409.014†	-2729.9	98.4	2.6537	ug/L	2.6537 ppb	11:21:07
3	V 292.402†	-1467.1	-30.2	-0.2040	ug/L	-0.2040 ppb	11:21:07
3	Zn 213.857†	549.5	-10.6	-0.1140	ug/L	-0.1140 ppb	11:21:27
3	SiO2†	574.0	20.0	1.3601	ug/L	1.3601 ppb	11:21:42

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	902119.8	100.23	%	0.361				0.36%
Sc Radial	4223.8	99.3	%	1.55				1.56%
Y 371.029	763607.4	100.15	%	0.389				0.39%
Y RADIAL	4663.4	99.39	%	1.251				1.26%
Ag 328.068†	-4.8	-0.0217	ug/L	0.14709	-0.0217	ppb	0.14709	677.77%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	2.7	2.4549	ug/L	3.02892	2.4549	ppb	3.02892	123.38%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	1.3	0.5883	ug/L	3.13561	0.5883	ppb	3.13561	533.00%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	123.0	2.9348	ug/L	0.76352	2.9348	ppb	0.76352	26.02%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.2	0.0412	ug/L	0.06002	0.0412	ppb	0.06002	145.60%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-16.8	-0.0063	ug/L	0.01296	-0.0063	ppb	0.01296	206.36%
QC value within limits for Be 313.107 Recovery = Not calculated								

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Ca 317.933Radial†          1.2      2.3827 ug/L       1.02274      2.3827 ppb        1.02274  42.92%
   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                4.8      0.0553 ug/L       0.07141      0.0553 ppb        0.07141 129.03%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               -4.7     -0.0961 ug/L       0.08101     -0.0961 ppb        0.08101  84.29%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                9.0      0.1011 ug/L       0.01634      0.1011 ppb        0.01634  16.16%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -50.2     -0.1520 ug/L       0.07520     -0.1520 ppb        0.07520  49.49%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         0.5      6.2197 ug/L      40.79766      6.2197 ppb       40.79766 655.94%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         22.1      4.1411 ug/L       5.37404      4.1411 ppb        5.37404 129.77%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            0.4      17.729 ug/L       31.3006      17.729 ppb        31.3006 176.55%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               14.7      0.0163 ug/L       0.01966      0.0163 ppb        0.01966 120.22%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                7.2      0.5288 ug/L       0.40785      0.5288 ppb        0.40785  77.12%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         9.3      2.7064 ug/L       2.25662      2.7064 ppb        2.25662  83.38%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                9.6      0.2440 ug/L       0.10428      0.2440 ppb        0.10428  42.74%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -5.6     -3.3543 ug/L       1.64915     -3.3543 ppb        1.64915  49.16%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               11.7      1.4458 ug/L       0.58650      1.4458 ppb        0.58650  40.56%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -0.1     -0.1894 ug/L       5.82254     -0.1894 ppb        5.82254 >999.9%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                8.6      3.0125 ug/L       1.99423      3.0125 ppb        1.99423  66.20%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -6.1     -4.0036 ug/L       4.42456     -4.0036 ppb        4.42456 110.51%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               21.1      0.6714 ug/L       0.14765      0.6714 ppb        0.14765  21.99%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                6.7      1.2104 ug/L       1.10580      1.2104 ppb        1.10580  91.36%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -12.5     -0.0829 ug/L       0.17585     -0.0829 ppb        0.17585 212.14%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -9.7     -0.0171 ug/L       0.06448     -0.0171 ppb        0.06448 376.88%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -0.2     -0.0725 ug/L       1.81664     -0.0725 ppb        1.81664 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               109.9      2.9684 ug/L       0.93841      2.9684 ppb        0.93841  31.61%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                26.5      0.1967 ug/L       0.34755      0.1967 ppb        0.34755 176.71%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -5.4     -0.0560 ug/L       0.09042     -0.0560 ppb        0.09042 161.56%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     26.4      1.7966 ug/L       0.50122      1.7966 ppb        0.50122  27.90%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 8
Sample ID: PQL
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 2/23/2010 11:23:53
Data Type: Reprocessed on 2/23/2010 12:42:29

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc 361.383	922973.3	922973.3	102.55	%			11:27:04
1	Sc Radial	4322.8	4322.8	102	%			11:25:47
1	Y 371.029	779722.9	779722.9	102.27	%			11:27:04
1	Y RADIAL	4763.7	4763.7	101.5	%			11:25:47
1	Ag 328.068†	1453.4	1188.0	5.4609	ug/L	5.4609	ppb	11:27:09
1	Al 396.153Radial†	125.9	234.6	211.98	ug/L	211.98	ppb	11:26:07
1	As 188.979†	30.1	49.9	22.525	ug/L	22.525	ppb	11:27:29
1	B 249.677†	1648.1	1980.1	47.224	ug/L	47.224	ppb	11:27:09
1	Ba 233.527†	647.3	640.4	5.0166	ug/L	5.0166	ppb	11:27:29
1	Be 313.107†	9653.7	13267.4	4.9557	ug/L	4.9557	ppb	11:27:09
1	Ca 317.933Radial†	125.1	107.7	214.22	ug/L	214.22	ppb	11:26:07
1	Cd 226.502†	252.5	429.5	4.9884	ug/L	4.9884	ppb	11:27:29
1	Co 228.616†	185.3	242.6	5.0847	ug/L	5.0847	ppb	11:27:29
1	Cr 267.716†	507.4	428.8	4.8043	ug/L	4.8043	ppb	11:27:29
1	Cu 324.752†	9579.0	3264.1	9.7761	ug/L	9.7761	ppb	11:27:09
1	Fe 238.204 Radial†	19.2	8.7	112.26	ug/L	112.26	ppb	11:26:07
1	K 766.490 Radial†	3349.8	739.3	138.11	ug/L	138.11	ppb	11:25:47
1	Mg 279.077 IEC†	9.7	6.8	308.82	ug/L	308.82	ppb	11:26:07
1	Mn 257.610†	9868.6	9186.8	10.299	ug/L	10.299	ppb	11:27:09
1	Mo 202.031†	148.6	138.9	10.173	ug/L	10.173	ppb	11:27:29
1	Na 589.592 Radial†	338.7	1073.6	311.57	ug/L	311.57	ppb	11:25:47
1	Ni 231.604†	247.9	189.4	4.8115	ug/L	4.8115	ppb	11:27:29
1	P 214.914†	444.0	231.0	138.26	ug/L	138.26	ppb	11:27:29
1	Pb 220.353†	26.9	91.3	11.367	ug/L	11.367	ppb	11:27:29
1	S 181.975 Axial†	103.4	63.8	93.420	ug/L	93.420	ppb	11:27:29
1	Sb 206.836†	66.9	28.6	10.338	ug/L	10.338	ppb	11:27:29
1	Se 196.026†	24.4	44.5	29.701	ug/L	29.701	ppb	11:27:29
1	Si 251.611†	3544.7	2922.6	93.630	ug/L	93.630	ppb	11:27:29
1	Sn 189.927†	75.0	62.7	11.372	ug/L	11.372	ppb	11:27:29
1	Sr 421.552†	800.7	751.1	4.9765	ug/L	4.9765	ppb	11:25:47
1	Ti 334.940†	2047.7	3278.7	4.9354	ug/L	4.9354	ppb	11:27:09
1	Tl 190.801†	35.0	65.3	21.023	ug/L	21.023	ppb	11:27:29
1	U 409.014†	-712.1	2121.9	57.310	ug/L	57.310	ppb	11:27:04
1	V 292.402†	-726.9	721.6	5.2455	ug/L	5.2455	ppb	11:27:09
1	Zn 213.857†	1588.8	991.7	9.8898	ug/L	9.8898	ppb	11:27:29
1	SiO2†	3688.6	3045.5	208.98	ug/L	208.98	ppb	11:28:35
2	Sc 361.383	933203.4	933203.4	103.68	%			11:27:34
2	Sc Radial	4322.2	4322.2	102	%			11:26:12
2	Y 371.029	788115.9	788115.9	103.37	%			11:27:34
2	Y RADIAL	4800.4	4800.4	102.3	%			11:26:12
2	Ag 328.068†	1415.8	1136.2	5.2213	ug/L	5.2213	ppb	11:27:39
2	Al 396.153Radial†	126.2	235.0	212.35	ug/L	212.35	ppb	11:26:32
2	As 188.979†	39.5	58.7	26.489	ug/L	26.489	ppb	11:27:59
2	B 249.677†	1569.6	1886.8	44.997	ug/L	44.997	ppb	11:27:39
2	Ba 233.527†	653.2	639.2	5.0059	ug/L	5.0059	ppb	11:27:59
2	Be 313.107†	9455.0	12972.5	4.8454	ug/L	4.8454	ppb	11:27:39
2	Ca 317.933Radial†	125.4	108.0	214.79	ug/L	214.79	ppb	11:26:32
2	Cd 226.502†	241.1	415.8	4.8296	ug/L	4.8296	ppb	11:27:59
2	Co 228.616†	167.6	223.5	4.6839	ug/L	4.6839	ppb	11:27:59
2	Cr 267.716†	496.1	412.5	4.6211	ug/L	4.6211	ppb	11:27:59
2	Cu 324.752†	9405.2	2994.1	8.9659	ug/L	8.9659	ppb	11:27:39
2	Fe 238.204 Radial†	18.9	8.4	108.94	ug/L	108.94	ppb	11:26:32
2	K 766.490 Radial†	3419.9	808.9	151.12	ug/L	151.12	ppb	11:26:12
2	Mg 279.077 IEC†	6.5	3.6	163.44	ug/L	163.44	ppb	11:26:32
2	Mn 257.610†	9771.8	8987.9	10.081	ug/L	10.081	ppb	11:27:39
2	Mo 202.031†	137.6	126.7	9.2819	ug/L	9.2819	ppb	11:27:59
2	Na 589.592 Radial†	337.8	1072.8	311.32	ug/L	311.32	ppb	11:26:12
2	Ni 231.604†	273.2	211.2	5.3660	ug/L	5.3660	ppb	11:27:59

2	P 214.914†	449.8	231.8	138.93 ug/L	138.93 ppb	11:27:59
2	Pb 220.353†	23.5	87.7	10.914 ug/L	10.914 ppb	11:27:59
2	S 181.975 Axial†	98.4	57.9	84.762 ug/L	84.762 ppb	11:27:59
2	Sb 206.836†	57.8	19.1	6.9807 ug/L	6.9807 ppb	11:27:59
2	Se 196.026†	20.5	40.5	27.045 ug/L	27.045 ppb	11:27:59
2	Si 251.611†	3542.9	2882.9	92.369 ug/L	92.369 ppb	11:27:59
2	Sn 189.927†	63.6	50.9	9.2475 ug/L	9.2475 ppb	11:27:59
2	Sr 421.552†	818.0	768.3	5.0904 ug/L	5.0904 ppb	11:26:12
2	Ti 334.940†	1970.1	3181.9	4.8017 ug/L	4.8017 ppb	11:27:39
2	Tl 190.801†	34.1	64.1	20.626 ug/L	20.626 ppb	11:27:59
2	U 409.014†	-776.1	2067.7	55.847 ug/L	55.847 ppb	11:27:34
2	V 292.402†	-804.6	654.4	4.7619 ug/L	4.7619 ppb	11:27:39
2	Zn 213.857†	1588.0	973.9	9.7098 ug/L	9.7098 ppb	11:27:59
2	SiO2†	3728.2	3044.3	208.92 ug/L	208.92 ppb	11:28:40
3	Sc 361.383	926208.5	926208.5	102.90 %		11:28:05
3	Sc Radial	4317.9	4317.9	102 %		11:26:37
3	Y 371.029	782879.3	782879.3	102.68 %		11:28:05
3	Y RADIAL	4792.4	4792.4	102.1 %		11:26:37
3	Ag 328.068†	1301.0	1034.9	4.7638 ug/L	4.7638 ppb	11:28:10
3	Al 396.153Radial†	130.7	239.5	216.41 ug/L	216.41 ppb	11:26:57
3	As 188.979†	44.3	63.6	28.721 ug/L	28.721 ppb	11:28:30
3	B 249.677†	1632.2	1959.0	46.719 ug/L	46.719 ppb	11:28:10
3	Ba 233.527†	673.7	663.8	5.1998 ug/L	5.1998 ppb	11:28:30
3	Be 313.107†	9347.3	12936.7	4.8321 ug/L	4.8321 ppb	11:28:10
3	Ca 317.933Radial†	120.7	103.4	205.72 ug/L	205.72 ppb	11:26:57
3	Cd 226.502†	254.5	430.7	5.0002 ug/L	5.0002 ppb	11:28:30
3	Co 228.616†	181.4	238.2	4.9914 ug/L	4.9914 ppb	11:28:30
3	Cr 267.716†	524.2	443.5	4.9710 ug/L	4.9710 ppb	11:28:30
3	Cu 324.752†	9429.6	3086.3	9.2444 ug/L	9.2444 ppb	11:28:10
3	Fe 238.204 Radial†	19.9	9.4	121.79 ug/L	121.79 ppb	11:26:57
3	K 766.490 Radial†	3329.4	723.1	135.07 ug/L	135.07 ppb	11:26:37
3	Mg 279.077 IEC†	8.6	5.7	258.72 ug/L	258.72 ppb	11:26:57
3	Mn 257.610†	9661.4	8951.8	10.038 ug/L	10.038 ppb	11:28:10
3	Mo 202.031†	145.6	135.5	9.9248 ug/L	9.9248 ppb	11:28:30
3	Na 589.592 Radial†	360.5	1095.5	317.92 ug/L	317.92 ppb	11:26:37
3	Ni 231.604†	273.9	213.8	5.4315 ug/L	5.4315 ppb	11:28:30
3	P 214.914†	440.0	225.5	135.05 ug/L	135.05 ppb	11:28:30
3	Pb 220.353†	31.4	95.5	11.889 ug/L	11.889 ppb	11:28:30
3	S 181.975 Axial†	111.0	70.8	103.73 ug/L	103.73 ppb	11:28:30
3	Sb 206.836†	67.6	29.0	10.473 ug/L	10.473 ppb	11:28:30
3	Se 196.026†	28.1	48.0	32.065 ug/L	32.065 ppb	11:28:30
3	Si 251.611†	3569.4	2934.5	94.015 ug/L	94.015 ppb	11:28:30
3	Sn 189.927†	74.4	61.9	11.231 ug/L	11.231 ppb	11:28:30
3	Sr 421.552†	799.3	750.6	4.9735 ug/L	4.9735 ppb	11:26:37
3	Ti 334.940†	1944.4	3171.3	4.7774 ug/L	4.7774 ppb	11:28:10
3	Tl 190.801†	28.9	59.3	19.082 ug/L	19.082 ppb	11:28:30
3	U 409.014†	-839.3	2000.7	54.034 ug/L	54.034 ppb	11:28:05
3	V 292.402†	-720.6	730.2	5.2931 ug/L	5.2931 ppb	11:28:10
3	Zn 213.857†	1598.7	995.9	9.9275 ug/L	9.9275 ppb	11:28:30
3	SiO2†	3667.1	3012.1	206.68 ug/L	206.68 ppb	11:28:45

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	927461.7	103.04	%	0.581				0.56%
Sc Radial	4321.0	102	%	0.1				0.06%
Y 371.029	783572.7	102.77	%	0.556				0.54%
Y RADIAL	4785.5	102.0	%	0.41				0.40%
Ag 328.068†	1119.7	5.1487	ug/L	0.35419	5.1487	ppb	0.35419	6.88%
QC value within limits for Ag 328.068 Recovery = 102.97%								
Al 396.153Radial†	236.4	213.58	ug/L	2.456	213.58	ppb	2.456	1.15%
QC value within limits for Al 396.153Radial Recovery = 106.79%								
As 188.979†	57.4	25.912	ug/L	3.1382	25.912	ppb	3.1382	12.11%
QC value within limits for As 188.979 Recovery = 86.37%								
B 249.677†	1942.0	46.314	ug/L	1.1674	46.314	ppb	1.1674	2.52%
QC value within limits for B 249.677 Recovery = 92.63%								
Ba 233.527†	647.8	5.0741	ug/L	0.10897	5.0741	ppb	0.10897	2.15%
QC value within limits for Ba 233.527 Recovery = 101.48%								
Be 313.107†	13058.9	4.8777	ug/L	0.06783	4.8777	ppb	0.06783	1.39%
QC value within limits for Be 313.107 Recovery = 97.55%								

Ca 317.933Radial†	106.3	211.58 ug/L	5.079	211.58 ppb	5.079	2.40%
QC value within limits for Ca 317.933Radial Recovery = 105.79%						
Cd 226.502†	425.3	4.9394 ug/L	0.09529	4.9394 ppb	0.09529	1.93%
QC value within limits for Cd 226.502 Recovery = 98.79%						
Co 228.616†	234.8	4.9200 ug/L	0.20971	4.9200 ppb	0.20971	4.26%
QC value within limits for Co 228.616 Recovery = 98.40%						
Cr 267.716†	428.2	4.7988 ug/L	0.17504	4.7988 ppb	0.17504	3.65%
QC value within limits for Cr 267.716 Recovery = 95.98%						
Cu 324.752†	3114.8	9.3288 ug/L	0.41167	9.3288 ppb	0.41167	4.41%
QC value within limits for Cu 324.752 Recovery = 93.29%						
Fe 238.204 Radial†	8.9	114.33 ug/L	6.666	114.33 ppb	6.666	5.83%
QC value within limits for Fe 238.204 Radial Recovery = 114.33%						
K 766.490 Radial†	757.1	141.43 ug/L	8.529	141.43 ppb	8.529	6.03%
QC value within limits for K 766.490 Radial Recovery = 94.29%						
Mg 279.077 IEC†	5.4	243.66 ug/L	73.846	243.66 ppb	73.846	30.31%
QC value within limits for Mg 279.077 IEC Recovery = 81.22%						
Mn 257.610†	9042.2	10.139 ug/L	0.1396	10.139 ppb	0.1396	1.38%
QC value within limits for Mn 257.610 Recovery = 101.39%						
Mo 202.031†	133.7	9.7932 ug/L	0.45986	9.7932 ppb	0.45986	4.70%
QC value within limits for Mo 202.031 Recovery = 97.93%						
Na 589.592 Radial†	1080.6	313.61 ug/L	3.742	313.61 ppb	3.742	1.19%
QC value within limits for Na 589.592 Radial Recovery = 104.54%						
Ni 231.604†	204.8	5.2030 ug/L	0.34064	5.2030 ppb	0.34064	6.55%
QC value within limits for Ni 231.604 Recovery = 104.06%						
P 214.914†	229.4	137.42 ug/L	2.075	137.42 ppb	2.075	1.51%
QC value within limits for P 214.914 Recovery = 91.61%						
Pb 220.353†	91.5	11.390 ug/L	0.4877	11.390 ppb	0.4877	4.28%
QC value within limits for Pb 220.353 Recovery = 113.90%						
S 181.975 Axial†	64.2	93.970 ug/L	9.4951	93.970 ppb	9.4951	10.10%
QC value within limits for S 181.975 Axial Recovery = 93.97%						
Sb 206.836†	25.5	9.2640 ug/L	1.97853	9.2640 ppb	1.97853	21.36%
QC value within limits for Sb 206.836 Recovery = 92.64%						
Se 196.026†	44.3	29.604 ug/L	2.5114	29.604 ppb	2.5114	8.48%
QC value within limits for Se 196.026 Recovery = 98.68%						
Si 251.611†	2913.3	93.338 ug/L	0.8609	93.338 ppb	0.8609	0.92%
QC value within limits for Si 251.611 Recovery = 93.34%						
Sn 189.927†	58.5	10.617 ug/L	1.1879	10.617 ppb	1.1879	11.19%
QC value within limits for Sn 189.927 Recovery = 106.17%						
Sr 421.552†	756.7	5.0135 ug/L	0.06663	5.0135 ppb	0.06663	1.33%
QC value within limits for Sr 421.552 Recovery = 100.27%						
Ti 334.940†	3210.6	4.8381 ug/L	0.08508	4.8381 ppb	0.08508	1.76%
QC value within limits for Ti 334.940 Recovery = 96.76%						
Tl 190.801†	62.9	20.244 ug/L	1.0250	20.244 ppb	1.0250	5.06%
QC value within limits for Tl 190.801 Recovery = 101.22%						
U 409.014†	2063.4	55.731 ug/L	1.6413	55.731 ppb	1.6413	2.94%
QC value within limits for U 409.014 Recovery = 111.46%						
V 292.402†	702.1	5.1002 ug/L	0.29389	5.1002 ppb	0.29389	5.76%
QC value within limits for V 292.402 Recovery = 102.00%						
Zn 213.857†	987.2	9.8424 ug/L	0.11634	9.8424 ppb	0.11634	1.18%
QC value within limits for Zn 213.857 Recovery = 98.42%						
SiO2†	3034.0	208.19 ug/L	1.307	208.19 ppb	1.307	0.63%
QC value within limits for SiO2 Recovery = 97.74%						

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSA
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 2/23/2010 11:30:57
Data Type: Reprocessed on 2/23/2010 12:42:31

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc 361.383	763627.9	763627.9	84.842	%			11:33:22
1	Sc Radial	3775.6	3775.6	88.8	%			11:32:55
1	Y 371.029	630188.0	630188.0	82.654	%			11:33:22
1	Y RADIAL	4144.2	4144.2	88.32	%			11:32:55
1	Ag 328.068†	-9724.8	-11691.7	-1.0139	ug/L	-1.0139	ppb	11:33:22
1	Al 396.153Radial†	502912.8	566680.5	513210	ug/L	513210	ppb	11:32:50
1	As 188.979†	-86.5	-81.4	8.2300	ug/L	8.2300	ppb	11:33:42
1	B 249.677†	488.3	948.5	-8.6119	ug/L	-8.6119	ppb	11:33:22
1	Ba 233.527†	-469.3	-544.0	1.6452	ug/L	1.6452	ppb	11:33:42
1	Be 313.107†	-4182.4	-1076.4	-0.4498	ug/L	-0.4498	ppb	11:33:22
1	Ca 317.933Radial†	213503.6	240512.7	478520	ug/L	478520	ppb	11:32:50
1	Cd 226.502†	1212.0	1611.9	-1.1550	ug/L	-1.1550	ppb	11:33:42
1	Co 228.616†	-40.1	14.6	-2.4717	ug/L	-2.4717	ppb	11:33:42
1	Cr 267.716†	-1105.0	-1368.4	2.9607	ug/L	2.9607	ppb	11:33:42
1	Cu 324.752†	3516.0	-1933.0	4.3578	ug/L	4.3578	ppb	11:33:22
1	Fe 238.204 Radial†	13266.2	14935.3	192420	ug/L	192420	ppb	11:32:55
1	K 766.490 Radial†	2442.2	194.5	-123.67	ug/L	-123.67	ppb	11:32:55
1	Mg 279.077 IEC†	9839.2	11081.9	503460	ug/L	503460	ppb	11:32:55
1	Mn 257.610†	1572.0	1416.1	-0.0012	ug/L	-0.0012	ppb	11:33:22
1	Mo 202.031†	-233.2	-281.0	0.0665	ug/L	0.0665	ppb	11:33:42
1	Na 589.592 Radial†	-517.4	157.5	45.707	ug/L	45.707	ppb	11:32:55
1	Ni 231.604†	177.3	156.6	3.9813	ug/L	3.9813	ppb	11:33:42
1	P 214.914†	156.0	-18.2	-37.622	ug/L	-37.622	ppb	11:33:42
1	Pb 220.353†	-775.5	-849.0	-12.456	ug/L	-12.456	ppb	11:33:42
1	S 181.975 Axial†	55.7	28.7	-54.210	ug/L	-54.210	ppb	11:33:42
1	Sb 206.836†	59.4	33.3	-5.8554	ug/L	-5.8554	ppb	11:33:42
1	Se 196.026†	-795.1	-916.5	-9.1005	ug/L	-9.1005	ppb	11:33:42
1	Si 251.611†	491.6	45.3	1.7051	ug/L	1.7051	ppb	11:33:42
1	Sn 189.927†	-349.3	-422.2	-2.4140	ug/L	-2.4140	ppb	11:33:42
1	Sr 421.552†	533.5	564.2	0.1664	ug/L	0.1664	ppb	11:32:55
1	Ti 334.940†	-13119.2	-14181.3	1.5840	ug/L	1.5840	ppb	11:33:22
1	Tl 190.801†	-69.5	-50.7	-16.486	ug/L	-16.486	ppb	11:33:42
1	U 409.014†	-1118.9	1497.4	18.560	ug/L	18.560	ppb	11:33:22
1	V 292.402†	1019.1	2631.6	-0.2116	ug/L	-0.2116	ppb	11:33:42
1	Zn 213.857†	2743.4	2675.9	-1.9624	ug/L	-1.9624	ppb	11:33:42
1	SiO2†	494.5	31.3	2.7128	ug/L	2.7128	ppb	11:34:38
2	Sc 361.383	766805.1	766805.1	85.195	%			11:33:48
2	Sc Radial	3784.0	3784.0	89.0	%			11:33:05
2	Y 371.029	633215.5	633215.5	83.051	%			11:33:48
2	Y RADIAL	4161.1	4161.1	88.68	%			11:33:05
2	Ag 328.068†	-9883.4	-11830.3	-1.8999	ug/L	-1.8999	ppb	11:33:48
2	Al 396.153Radial†	526488.4	591936.5	536090	ug/L	536090	ppb	11:33:00
2	As 188.979†	-85.1	-79.3	9.1745	ug/L	9.1745	ppb	11:34:08
2	B 249.677†	408.9	852.9	-10.893	ug/L	-10.893	ppb	11:33:48
2	Ba 233.527†	-459.7	-530.5	1.7501	ug/L	1.7501	ppb	11:34:08
2	Be 313.107†	-4145.9	-1013.1	-0.4277	ug/L	-0.4277	ppb	11:33:48
2	Ca 317.933Radial†	221980.2	249512.5	496430	ug/L	496430	ppb	11:33:00
2	Cd 226.502†	1214.9	1609.3	-1.1834	ug/L	-1.1834	ppb	11:34:08
2	Co 228.616†	-4.0	57.2	-1.5756	ug/L	-1.5756	ppb	11:34:08
2	Cr 267.716†	-1118.5	-1378.9	2.8416	ug/L	2.8416	ppb	11:34:08
2	Cu 324.752†	3482.9	-1989.0	4.1887	ug/L	4.1887	ppb	11:33:48
2	Fe 238.204 Radial†	13294.3	14933.9	192400	ug/L	192400	ppb	11:33:05
2	K 766.490 Radial†	2229.8	-50.3	-175.47	ug/L	-175.47	ppb	11:33:05
2	Mg 279.077 IEC†	9880.3	11103.6	504450	ug/L	504450	ppb	11:33:05
2	Mn 257.610†	1564.6	1399.7	-0.0618	ug/L	-0.0618	ppb	11:33:48
2	Mo 202.031†	-218.3	-262.3	1.6455	ug/L	1.6455	ppb	11:34:08
2	Na 589.592 Radial†	-506.6	170.9	49.583	ug/L	49.583	ppb	11:33:05
2	Ni 231.604†	169.5	146.6	3.7259	ug/L	3.7259	ppb	11:34:08

2	P 214.914†	123.1	-57.6	-55.735	ug/L	-55.735 ppb	11:34:08
2	Pb 220.353†	-793.6	-866.5	-9.6052	ug/L	-9.6052 ppb	11:34:08
2	S 181.975 Axial†	54.5	26.9	-61.009	ug/L	-61.009 ppb	11:34:08
2	Sb 206.836†	89.7	68.6	5.8926	ug/L	5.8926 ppb	11:34:08
2	Se 196.026†	-793.6	-910.8	-5.6429	ug/L	-5.6429 ppb	11:34:08
2	Si 251.611†	481.3	30.7	1.2226	ug/L	1.2226 ppb	11:34:08
2	Sn 189.927†	-338.1	-407.2	3.4756	ug/L	3.4756 ppb	11:34:08
2	Sr 421.552†	549.6	581.0	0.1442	ug/L	0.1442 ppb	11:33:05
2	Ti 334.940†	-13535.0	-14605.4	3.2635	ug/L	3.2635 ppb	11:33:48
2	Tl 190.801†	-80.0	-62.7	-20.341	ug/L	-20.341 ppb	11:34:08
2	U 409.014†	-1126.7	1493.7	18.462	ug/L	18.462 ppb	11:33:48
2	V 292.402†	1012.2	2618.6	-0.2603	ug/L	-0.2603 ppb	11:34:08
2	Zn 213.857†	2748.9	2668.9	-2.0281	ug/L	-2.0281 ppb	11:34:08
2	SiO2†	531.9	72.8	5.5256	ug/L	5.5256 ppb	11:34:43
3	Sc 361.383	777612.4	777612.4	86.395	%		11:34:13
3	Sc Radial	3729.4	3729.4	87.7	%		11:33:15
3	Y 371.029	641522.6	641522.6	84.140	%		11:34:13
3	Y RADIAL	4091.3	4091.3	87.20	%		11:33:15
3	Ag 328.068†	-9943.2	-11738.2	-1.4321	ug/L	-1.4321 ppb	11:34:13
3	Al 396.153Radial†	512772.0	584947.5	529760	ug/L	529760 ppb	11:33:10
3	As 188.979†	-79.6	-71.6	12.674	ug/L	12.674 ppb	11:34:33
3	B 249.677†	377.0	809.3	-11.938	ug/L	-11.938 ppb	11:34:13
3	Ba 233.527†	-502.8	-572.8	1.4193	ug/L	1.4193 ppb	11:34:33
3	Be 313.107†	-4286.7	-1108.5	-0.4623	ug/L	-0.4623 ppb	11:34:13
3	Ca 317.933Radial†	217262.8	247781.4	492980	ug/L	492980 ppb	11:33:10
3	Cd 226.502†	1230.6	1607.7	-1.2028	ug/L	-1.2028 ppb	11:34:33
3	Co 228.616†	-14.0	45.7	-1.8191	ug/L	-1.8191 ppb	11:34:33
3	Cr 267.716†	-1093.0	-1331.1	3.3754	ug/L	3.3754 ppb	11:34:33
3	Cu 324.752†	3434.9	-2101.3	3.8465	ug/L	3.8465 ppb	11:34:13
3	Fe 238.204 Radial†	13104.5	14936.1	192430	ug/L	192430 ppb	11:33:15
3	K 766.490 Radial†	2293.0	58.5	-153.96	ug/L	-153.96 ppb	11:33:15
3	Mg 279.077 IEC†	9773.7	11144.5	506300	ug/L	506300 ppb	11:33:15
3	Mn 257.610†	1638.3	1459.4	-0.0680	ug/L	-0.0680 ppb	11:34:13
3	Mo 202.031†	-226.6	-268.3	1.1679	ug/L	1.1679 ppb	11:34:33
3	Na 589.592 Radial†	-523.3	143.5	41.645	ug/L	41.645 ppb	11:33:15
3	Ni 231.604†	174.2	149.3	3.7952	ug/L	3.7952 ppb	11:34:33
3	P 214.914†	173.1	-1.7	-23.394	ug/L	-23.394 ppb	11:34:33
3	Pb 220.353†	-749.0	-801.9	-2.9778	ug/L	-2.9778 ppb	11:34:33
3	S 181.975 Axial†	55.4	27.0	-59.666	ug/L	-59.666 ppb	11:34:33
3	Sb 206.836†	62.6	35.8	-5.4000	ug/L	-5.4000 ppb	11:34:33
3	Se 196.026†	-778.3	-880.1	14.742	ug/L	14.742 ppb	11:34:33
3	Si 251.611†	443.2	-21.2	-0.4387	ug/L	-0.4387 ppb	11:34:33
3	Sn 189.927†	-347.9	-413.1	1.7909	ug/L	1.7909 ppb	11:34:33
3	Sr 421.552†	537.4	576.1	0.1371	ug/L	0.1371 ppb	11:33:15
3	Ti 334.940†	-13489.1	-14331.4	3.0589	ug/L	3.0589 ppb	11:34:13
3	Tl 190.801†	-65.6	-44.7	-14.561	ug/L	-14.561 ppb	11:34:33
3	U 409.014†	-778.8	1914.8	29.837	ug/L	29.837 ppb	11:34:13
3	V 292.402†	981.0	2565.9	-0.5791	ug/L	-0.5791 ppb	11:34:33
3	Zn 213.857†	2711.5	2580.8	-2.9159	ug/L	-2.9159 ppb	11:34:33
3	SiO2†	500.1	27.3	2.4132	ug/L	2.4132 ppb	11:34:49

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	769348.5	85.477	%	0.8145				0.95%
Sc Radial	3763.0	88.5	%	0.69				0.78%
Y 371.029	634975.4	83.282	%	0.7697				0.92%
Y RADIAL	4132.2	88.07	%	0.775				0.88%
Ag 328.068†	-11753.4	-1.4486	ug/L	0.44323	-1.4486	ppb	0.44323	30.60%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	581188.1	526350	ug/L	11810.4	526350	ppb	11810.4	2.24%
QC value within limits for Al 396.153Radial Recovery = 105.27%								
As 188.979†	-77.4	10.026	ug/L	2.3414	10.026	ppb	2.3414	23.35%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	870.2	-10.481	ug/L	1.7009	-10.481	ppb	1.7009	16.23%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-549.1	1.6049	ug/L	0.16904	1.6049	ppb	0.16904	10.53%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1066.0	-0.4466	ug/L	0.01751	-0.4466	ppb	0.01751	3.92%
QC value within limits for Be 313.107 Recovery = Not calculated								

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Ca 317.933Radial†     245935.5      489310 ug/L        9501.2      489310 ppb        9501.2   1.94%
   QC value within limits for Ca 317.933Radial  Recovery = 97.86%
Cd 226.502†             1609.7     -1.1804 ug/L       0.02403     -1.1804 ppb       0.02403   2.04%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               39.2     -1.9554 ug/L       0.46334     -1.9554 ppb       0.46334  23.69%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†            -1359.5      3.0592 ug/L       0.28020      3.0592 ppb       0.28020   9.16%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -2007.7      4.1310 ug/L       0.26047      4.1310 ppb       0.26047   6.31%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†     14935.1      192410 ug/L          14.2      192410 ppb          14.2   0.01%
   QC value within limits for Fe 238.204 Radial  Recovery = 96.21%
K 766.490 Radial†         67.6     -151.03 ug/L        26.021     -151.03 ppb        26.021  17.23%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†        11110.0      504740 ug/L        1446.4      504740 ppb        1446.4   0.29%
   QC value within limits for Mg 279.077 IEC  Recovery = 100.95%
Mn 257.610†             1425.1     -0.0436 ug/L       0.03692     -0.0436 ppb       0.03692  84.59%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†             -270.5      0.9599 ug/L       0.80980      0.9599 ppb       0.80980  84.36%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       157.3      45.645 ug/L        3.9694      45.645 ppb        3.9694   8.70%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              150.9      3.8341 ug/L       0.13208      3.8341 ppb       0.13208   3.44%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               -25.8     -38.917 ug/L       16.2089     -38.917 ppb       16.2089  41.65%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†             -839.1     -8.3463 ug/L       4.86289     -8.3463 ppb       4.86289  58.26%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          27.5     -58.295 ug/L        3.6010     -58.295 ppb        3.6010   6.18%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               45.9     -1.7876 ug/L       6.65514     -1.7876 ppb       6.65514 372.29%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†             -902.5     -0.0003 ug/L      12.88414     -0.0003 ppb      12.88414 >999.9%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               18.3      0.8297 ug/L       1.12464      0.8297 ppb       1.12464 135.55%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -414.2      0.9508 ug/L       3.03333      0.9508 ppb       3.03333 319.03%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              573.8      0.1493 ug/L       0.01528      0.1493 ppb       0.01528  10.24%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†          -14372.7      2.6355 ug/L       0.91630      2.6355 ppb       0.91630  34.77%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -52.7     -17.129 ug/L        2.9433     -17.129 ppb        2.9433  17.18%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              1635.3      22.286 ug/L        6.5391      22.286 ppb        6.5391  29.34%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†              2605.4     -0.3503 ug/L       0.19959     -0.3503 ppb       0.19959  56.97%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             2641.9     -2.3021 ug/L       0.53253     -2.3021 ppb       0.53253  23.13%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    43.8      3.5505 ug/L       1.71704      3.5505 ppb       1.71704  48.36%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 10
Sample ID: ICSAB
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 2/23/2010 11:37:00
Data Type: Reprocessed on 2/23/2010 12:42:32

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc 361.383	782635.5	782635.5	86.953	%			11:40:11
1	Sc Radial	3748.2	3748.2	88.1	%			11:39:13
1	Y 371.029	645003.9	645003.9	84.597	%			11:40:11
1	Y RADIAL	4101.6	4101.6	87.42	%			11:39:13
1	Ag 328.068†	41713.3	47742.7	273.58	ug/L	273.58	ppb	11:40:11
1	Al 396.153Radial†	511782.3	580893.5	526060	ug/L	526060	ppb	11:38:53
1	As 188.979†	923.2	1082.2	536.10	ug/L	536.10	ppb	11:40:31
1	B 249.677†	19378.5	22659.1	508.17	ug/L	508.17	ppb	11:40:11
1	Ba 233.527†	54501.7	62688.3	496.68	ug/L	496.68	ppb	11:40:11
1	Be 313.107†	568498.9	657650.5	246.18	ug/L	246.18	ppb	11:40:11
1	Ca 317.933Radial†	217200.3	246468.5	490370	ug/L	490370	ppb	11:38:53
1	Cd 226.502†	35640.1	41170.9	458.33	ug/L	458.33	ppb	11:40:31
1	Co 228.616†	18276.1	21080.2	438.06	ug/L	438.06	ppb	11:40:31
1	Cr 267.716†	36394.3	41789.0	487.58	ug/L	487.58	ppb	11:40:11
1	Cu 324.752†	162671.6	181002.0	553.45	ug/L	553.45	ppb	11:40:11
1	Fe 238.204 Radial†	13209.2	14979.9	193000	ug/L	193000	ppb	11:39:13
1	K 766.490 Radial†	29389.4	30795.0	5594.5	ug/L	5594.5	ppb	11:38:53
1	Mg 279.077 IEC†	9895.3	11226.6	510040	ug/L	510040	ppb	11:39:13
1	Mn 257.610†	372959.1	428481.5	478.61	ug/L	478.61	ppb	11:40:11
1	Mo 202.031†	5600.4	6434.6	491.72	ug/L	491.72	ppb	11:40:31
1	Na 589.592 Radial†	15895.5	18778.9	5449.7	ug/L	5449.7	ppb	11:38:53
1	Ni 231.604†	15270.8	17509.8	444.80	ug/L	444.80	ppb	11:40:31
1	P 214.914†	3801.2	4169.5	2401.7	ug/L	2401.7	ppb	11:40:31
1	Pb 220.353†	2491.3	2930.2	459.50	ug/L	459.50	ppb	11:40:31
1	S 181.975 Axial†	1640.0	1849.1	2610.2	ug/L	2610.2	ppb	11:40:31
1	Sb 206.836†	1420.9	1597.4	556.87	ug/L	556.87	ppb	11:40:31
1	Se 196.026†	2575.5	2982.6	2564.8	ug/L	2564.8	ppb	11:40:31
1	Si 251.611†	143064.9	163996.4	5255.2	ug/L	5255.2	ppb	11:40:11
1	Sn 189.927†	2018.9	2311.4	494.19	ug/L	494.19	ppb	11:40:31
1	Sr 421.552†	68506.5	77706.0	511.36	ug/L	511.36	ppb	11:38:53
1	Ti 334.940†	276245.7	318975.7	506.12	ug/L	506.12	ppb	11:40:11
1	Tl 190.801†	1171.5	1378.5	445.75	ug/L	445.75	ppb	11:40:31
1	U 409.014†	14737.5	19765.0	511.01	ug/L	511.01	ppb	11:40:11
1	V 292.402†	64203.3	75266.9	511.29	ug/L	511.29	ppb	11:40:11
1	Zn 213.857†	45981.3	52322.7	492.56	ug/L	492.56	ppb	11:40:11
1	SiO2†	144005.6	165060.9	11328	ug/L	11328	ppb	11:41:28
2	Sc 361.383	779419.6	779419.6	86.596	%			11:40:37
2	Sc Radial	3738.9	3738.9	87.9	%			11:39:38
2	Y 371.029	642042.6	642042.6	84.209	%			11:40:37
2	Y RADIAL	4114.5	4114.5	87.69	%			11:39:38
2	Ag 328.068†	41430.5	47614.0	273.00	ug/L	273.00	ppb	11:40:37
2	Al 396.153Radial†	523589.9	595772.1	539540	ug/L	539540	ppb	11:39:18
2	As 188.979†	907.0	1067.9	529.75	ug/L	529.75	ppb	11:40:57
2	B 249.677†	19317.5	22680.5	508.60	ug/L	508.60	ppb	11:40:37
2	Ba 233.527†	54077.6	62457.3	494.89	ug/L	494.89	ppb	11:40:37
2	Be 313.107†	564801.5	656078.4	245.60	ug/L	245.60	ppb	11:40:37
2	Ca 317.933Radial†	221232.9	251669.8	500720	ug/L	500720	ppb	11:39:18
2	Cd 226.502†	35442.0	41111.2	457.59	ug/L	457.59	ppb	11:40:57
2	Co 228.616†	18242.3	21127.9	439.05	ug/L	439.05	ppb	11:40:57
2	Cr 267.716†	36138.2	41665.9	486.25	ug/L	486.25	ppb	11:40:37
2	Cu 324.752†	161547.2	180475.4	551.90	ug/L	551.90	ppb	11:40:37
2	Fe 238.204 Radial†	13209.2	15017.2	193490	ug/L	193490	ppb	11:39:38
2	K 766.490 Radial†	29794.6	31339.0	5692.7	ug/L	5692.7	ppb	11:39:18
2	Mg 279.077 IEC†	9885.3	11243.2	510790	ug/L	510790	ppb	11:39:38
2	Mn 257.610†	370741.8	427690.8	477.74	ug/L	477.74	ppb	11:40:37
2	Mo 202.031†	5581.6	6439.4	492.23	ug/L	492.23	ppb	11:40:57
2	Na 589.592 Radial†	16258.2	19236.5	5582.5	ug/L	5582.5	ppb	11:39:18
2	Ni 231.604†	15158.2	17452.2	443.33	ug/L	443.33	ppb	11:40:57

2	P 214.914†	3805.2	4192.2	2418.7	ug/L	2418.7 ppb	11:40:57
2	Pb 220.353†	2484.0	2933.6	462.82	ug/L	462.82 ppb	11:40:57
2	S 181.975 Axial†	1619.0	1832.6	2583.6	ug/L	2583.6 ppb	11:40:57
2	Sb 206.836†	1407.5	1588.7	553.46	ug/L	553.46 ppb	11:40:57
2	Se 196.026†	2567.2	2985.3	2568.0	ug/L	2568.0 ppb	11:40:57
2	Si 251.611†	142192.6	163668.0	5244.6	ug/L	5244.6 ppb	11:40:37
2	Sn 189.927†	2006.0	2306.1	495.05	ug/L	495.05 ppb	11:40:57
2	Sr 421.552†	70036.6	79640.3	524.11	ug/L	524.11 ppb	11:39:18
2	Ti 334.940†	274616.0	318404.6	506.59	ug/L	506.59 ppb	11:40:37
2	Tl 190.801†	1183.2	1397.6	451.86	ug/L	451.86 ppb	11:40:57
2	U 409.014†	14385.6	19428.5	501.87	ug/L	501.87 ppb	11:40:37
2	V 292.402†	63814.1	75122.1	510.21	ug/L	510.21 ppb	11:40:37
2	Zn 213.857†	45791.8	52322.0	492.50	ug/L	492.50 ppb	11:40:37
2	SiO2†	144512.2	166329.2	11415	ug/L	11415 ppb	11:41:34
3	Sc 361.383	779540.3	779540.3	86.610	%		11:41:03
3	Sc Radial	3761.9	3761.9	88.4	%		11:40:03
3	Y 371.029	641710.1	641710.1	84.165	%		11:41:03
3	Y RADIAL	4139.4	4139.4	88.22	%		11:40:03
3	Ag 328.068†	41477.8	47661.3	272.99	ug/L	272.99 ppb	11:41:03
3	Al 396.153Radial†	515559.0	583055.8	528020	ug/L	528020 ppb	11:39:43
3	As 188.979†	916.4	1078.6	534.28	ug/L	534.28 ppb	11:41:23
3	B 249.677†	19308.4	22666.6	508.46	ug/L	508.46 ppb	11:41:03
3	Ba 233.527†	54170.4	62554.7	495.62	ug/L	495.62 ppb	11:41:03
3	Be 313.107†	565647.8	656954.5	245.93	ug/L	245.93 ppb	11:41:03
3	Ca 317.933Radial†	217603.9	246030.3	489500	ug/L	489500 ppb	11:39:43
3	Cd 226.502†	35542.3	41220.7	458.99	ug/L	458.99 ppb	11:41:23
3	Co 228.616†	18276.0	21163.5	439.82	ug/L	439.82 ppb	11:41:23
3	Cr 267.716†	36260.8	41801.0	487.65	ug/L	487.65 ppb	11:41:03
3	Cu 324.752†	162319.4	181338.1	554.42	ug/L	554.42 ppb	11:41:03
3	Fe 238.204 Radial†	13206.1	14922.1	192260	ug/L	192260 ppb	11:40:03
3	K 766.490 Radial†	29372.8	30655.2	5568.6	ug/L	5568.6 ppb	11:39:43
3	Mg 279.077 IEC†	9893.3	11183.6	508090	ug/L	508090 ppb	11:40:03
3	Mn 257.610†	371976.1	429049.6	479.25	ug/L	479.25 ppb	11:41:03
3	Mo 202.031†	5631.8	6496.5	496.18	ug/L	496.18 ppb	11:41:23
3	Na 589.592 Radial†	15885.8	18702.5	5427.5	ug/L	5427.5 ppb	11:39:43
3	Ni 231.604†	15201.5	17499.4	444.53	ug/L	444.53 ppb	11:41:23
3	P 214.914†	3825.1	4214.4	2429.9	ug/L	2429.9 ppb	11:41:23
3	Pb 220.353†	2511.0	2964.3	464.21	ug/L	464.21 ppb	11:41:23
3	S 181.975 Axial†	1628.6	1843.3	2601.5	ug/L	2601.5 ppb	11:41:23
3	Sb 206.836†	1404.6	1585.1	552.64	ug/L	552.64 ppb	11:41:23
3	Se 196.026†	2572.2	2990.5	2567.8	ug/L	2567.8 ppb	11:41:23
3	Si 251.611†	142651.3	164172.1	5260.8	ug/L	5260.8 ppb	11:41:03
3	Sn 189.927†	2019.9	2321.8	495.96	ug/L	495.96 ppb	11:41:23
3	Sr 421.552†	68790.1	77744.5	511.62	ug/L	511.62 ppb	11:39:43
3	Ti 334.940†	275594.2	319484.9	506.93	ug/L	506.93 ppb	11:41:03
3	Tl 190.801†	1157.1	1367.2	442.12	ug/L	442.12 ppb	11:41:23
3	U 409.014†	14674.5	19759.6	510.95	ug/L	510.95 ppb	11:41:03
3	V 292.402†	64018.2	75346.3	511.97	ug/L	511.97 ppb	11:41:03
3	Zn 213.857†	45815.0	52340.6	492.86	ug/L	492.86 ppb	11:41:03
3	SiO2†	141937.2	163330.3	11209	ug/L	11209 ppb	11:41:39

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	780531.8	86.720	%	0.2025				0.23%
Sc Radial	3749.6	88.2	%	0.27				0.31%
Y 371.029	642918.9	84.324	%	0.2378				0.28%
Y RADIAL	4118.5	87.78	%	0.410				0.47%
Ag 328.068†	47672.7	273.19	ug/L	0.337	273.19	ppb	0.337	0.12%
QC value within limits for Ag 328.068 Recovery = 109.28%								
Al 396.153Radial†	586573.8	531200	ug/L	7280.5	531200	ppb	7280.5	1.37%
QC value within limits for Al 396.153Radial Recovery = 106.24%								
As 188.979†	1076.3	533.38	ug/L	3.274	533.38	ppb	3.274	0.61%
QC value within limits for As 188.979 Recovery = 106.68%								
B 249.677†	22668.7	508.41	ug/L	0.220	508.41	ppb	0.220	0.04%
QC value within limits for B 249.677 Recovery = 101.68%								
Ba 233.527†	62566.8	495.73	ug/L	0.901	495.73	ppb	0.901	0.18%
QC value within limits for Ba 233.527 Recovery = 99.15%								
Be 313.107†	656894.5	245.90	ug/L	0.295	245.90	ppb	0.295	0.12%
QC value within limits for Be 313.107 Recovery = 98.36%								

Ca 317.933Radial†	248056.2	493530 ug/L	6241.6	493530 ppb	6241.6	1.26%
QC value within limits for Ca 317.933Radial Recovery = 98.71%						
Cd 226.502†	41167.6	458.30 ug/L	0.701	458.30 ppb	0.701	0.15%
QC value within limits for Cd 226.502 Recovery = 91.66%						
Co 228.616†	21123.9	438.98 ug/L	0.883	438.98 ppb	0.883	0.20%
QC value within limits for Co 228.616 Recovery = 87.80%						
Cr 267.716†	41751.9	487.16 ug/L	0.789	487.16 ppb	0.789	0.16%
QC value within limits for Cr 267.716 Recovery = 97.43%						
Cu 324.752†	180938.5	553.26 ug/L	1.271	553.26 ppb	1.271	0.23%
QC value within limits for Cu 324.752 Recovery = 110.65%						
Fe 238.204 Radial†	14973.0	192920 ug/L	617.7	192920 ppb	617.7	0.32%
QC value within limits for Fe 238.204 Radial Recovery = 96.46%						
K 766.490 Radial†	30929.7	5618.6 ug/L	65.49	5618.6 ppb	65.49	1.17%
QC value within limits for K 766.490 Radial Recovery = 112.37%						
Mg 279.077 IEC†	11217.8	509640 ug/L	1396.7	509640 ppb	1396.7	0.27%
QC value within limits for Mg 279.077 IEC Recovery = 101.93%						
Mn 257.610†	428407.3	478.53 ug/L	0.759	478.53 ppb	0.759	0.16%
QC value within limits for Mn 257.610 Recovery = 95.71%						
Mo 202.031†	6456.8	493.38 ug/L	2.442	493.38 ppb	2.442	0.49%
QC value within limits for Mo 202.031 Recovery = 98.68%						
Na 589.592 Radial†	18906.0	5486.6 ug/L	83.80	5486.6 ppb	83.80	1.53%
QC value within limits for Na 589.592 Radial Recovery = 109.73%						
Ni 231.604†	17487.1	444.22 ug/L	0.781	444.22 ppb	0.781	0.18%
QC value within limits for Ni 231.604 Recovery = 88.84%						
P 214.914†	4192.0	2416.8 ug/L	14.18	2416.8 ppb	14.18	0.59%
QC value within limits for P 214.914 Recovery = 96.67%						
Pb 220.353†	2942.7	462.18 ug/L	2.421	462.18 ppb	2.421	0.52%
QC value within limits for Pb 220.353 Recovery = 92.44%						
S 181.975 Axial†	1841.7	2598.4 ug/L	13.58	2598.4 ppb	13.58	0.52%
QC value within limits for S 181.975 Axial Recovery = 103.94%						
Sb 206.836†	1590.4	554.33 ug/L	2.245	554.33 ppb	2.245	0.40%
QC value within limits for Sb 206.836 Recovery = 110.87%						
Se 196.026†	2986.1	2566.9 ug/L	1.75	2566.9 ppb	1.75	0.07%
QC value within limits for Se 196.026 Recovery = 102.67%						
Si 251.611†	163945.5	5253.5 ug/L	8.19	5253.5 ppb	8.19	0.16%
QC value within limits for Si 251.611 Recovery = 105.07%						
Sn 189.927†	2313.1	495.07 ug/L	0.886	495.07 ppb	0.886	0.18%
QC value within limits for Sn 189.927 Recovery = 99.01%						
Sr 421.552†	78363.6	515.70 ug/L	7.283	515.70 ppb	7.283	1.41%
QC value within limits for Sr 421.552 Recovery = 103.14%						
Ti 334.940†	318955.1	506.55 ug/L	0.408	506.55 ppb	0.408	0.08%
QC value within limits for Ti 334.940 Recovery = 101.31%						
Tl 190.801†	1381.1	446.58 ug/L	4.924	446.58 ppb	4.924	1.10%
QC value within limits for Tl 190.801 Recovery = 89.32%						
U 409.014†	19651.0	507.95 ug/L	5.261	507.95 ppb	5.261	1.04%
QC value within limits for U 409.014 Recovery = 101.59%						
V 292.402†	75245.1	511.16 ug/L	0.886	511.16 ppb	0.886	0.17%
QC value within limits for V 292.402 Recovery = 102.23%						
Zn 213.857†	52328.5	492.64 ug/L	0.191	492.64 ppb	0.191	0.04%
QC value within limits for Zn 213.857 Recovery = 98.53%						
SiO2†	164906.8	11318 ug/L	103.5	11318 ppb	103.5	0.91%
QC value within limits for SiO2 Recovery = 105.82%						

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: LR1
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/23/2010 11:43:50
Data Type: Reprocessed on 2/23/2010 12:42:33
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	762099.3	762099.3	84.672	%			11:47:01
1	Sc Radial	3718.7	3718.7	87.4	%			11:46:03
1	Y 371.029	631025.1	631025.1	82.764	%			11:47:01
1	Y RADIAL	4098.5	4098.5	87.35	%			11:46:03
1	Ag 328.068†	-22982.8	-27372.8	-7.8961	ug/L	-7.8961	ppb	11:47:01
1	Al 396.153Radial†	500717.0	572842.5	518790	ug/L	518790	ppb	11:45:43
1	As 188.979†	-197.7	-213.0	7.1013	ug/L	7.1013	ppb	11:47:21
1	B 249.677†	1572.8	2230.4	-18.278	ug/L	-18.278	ppb	11:47:01
1	Ba 233.527†	-1433.1	-1683.4	0.3156	ug/L	0.3156	ppb	11:47:21
1	Be 313.107†	-10093.3	-8067.2	-3.0374	ug/L	-3.0374	ppb	11:47:01
1	Ca 317.933Radial†	212588.7	243148.5	483770	ug/L	483770	ppb	11:45:43
1	Cd 226.502†	3141.7	3893.7	2.3655	ug/L	2.3655	ppb	11:47:21
1	Co 228.616†	233.6	337.9	0.6393	ug/L	0.6393	ppb	11:47:21
1	Cr 267.716†	-1041.3	-1295.8	22.009	ug/L	22.009	ppb	11:47:21
1	Cu 324.752†	717.8	-5229.4	0.1017	ug/L	0.1017	ppb	11:47:01
1	Fe 238.204 Radial†	29881.4	34168.9	440210	ug/L	440210	ppb	11:46:03
1	K 766.490 Radial†	2437.9	231.8	-317.26	ug/L	-317.26	ppb	11:45:43
1	Mg 279.077 IEC†	9593.6	10970.6	498140	ug/L	498140	ppb	11:46:03
1	Mn 257.610†	-19449.3	-23407.1	-3.1522	ug/L	-3.1522	ppb	11:47:01
1	Mo 202.031†	-467.9	-558.6	-0.9542	ug/L	-0.9542	ppb	11:47:21
1	Na 589.592 Radial†	1535165.1	1756697.9	509800	ug/L	509800	ppb	11:45:43
1	Ni 231.604†	253.6	247.2	6.2801	ug/L	6.2801	ppb	11:47:21
1	P 214.914†	504.8	394.2	16.342	ug/L	16.342	ppb	11:47:21
1	Pb 220.353†	-566.4	-603.9	-7.6789	ug/L	-7.6789	ppb	11:47:21
1	S 181.975 Axial†	74.6	51.1	-22.415	ug/L	-22.415	ppb	11:47:21
1	Sb 206.836†	67.2	42.6	-5.9643	ug/L	-5.9643	ppb	11:47:21
1	Se 196.026†	-1848.0	-2161.9	-57.453	ug/L	-57.453	ppb	11:47:21
1	Si 251.611†	-467.8	-1086.6	-34.355	ug/L	-34.355	ppb	11:47:21
1	Sn 189.927†	-363.6	-439.9	-18.906	ug/L	-18.906	ppb	11:47:21
1	Sr 421.552†	746.9	817.5	1.8061	ug/L	1.8061	ppb	11:46:03
1	Ti 334.940†	-8706.2	-9000.5	4.6079	ug/L	4.6079	ppb	11:47:01
1	Tl 190.801†	-104.8	-92.6	-30.033	ug/L	-30.033	ppb	11:47:21
1	U 409.014†	421872.8	501061.2	13489	ug/L	13489	ppb	11:47:01
1	V 292.402†	2745.4	4672.9	3.3113	ug/L	3.3113	ppb	11:47:21
1	Zn 213.857†	5249.9	5642.6	-9.2771	ug/L	-9.2771	ppb	11:47:21
1	SiO2†	-501.1	-1143.3	-77.442	ug/L	-77.442	ppb	11:48:18
2	Sc 361.383	755963.6	755963.6	83.990	%			11:47:27
2	Sc Radial	3688.1	3688.1	86.7	%			11:46:28
2	Y 371.029	625718.1	625718.1	82.068	%			11:47:27
2	Y RADIAL	4037.0	4037.0	86.04	%			11:46:28
2	Ag 328.068†	-22804.5	-27380.8	-8.2815	ug/L	-8.2815	ppb	11:47:27
2	Al 396.153Radial†	502447.8	579594.2	524910	ug/L	524910	ppb	11:46:08
2	As 188.979†	-201.4	-219.3	4.0482	ug/L	4.0482	ppb	11:47:47
2	B 249.677†	1545.5	2213.1	-18.533	ug/L	-18.533	ppb	11:47:27
2	Ba 233.527†	-1420.9	-1682.6	0.2923	ug/L	0.2923	ppb	11:47:47
2	Be 313.107†	-10035.6	-8095.3	-3.0419	ug/L	-3.0419	ppb	11:47:27
2	Ca 317.933Radial†	213123.5	245784.3	489010	ug/L	489010	ppb	11:46:08
2	Cd 226.502†	3143.4	3925.9	2.8346	ug/L	2.8346	ppb	11:47:47
2	Co 228.616†	220.0	323.8	0.3495	ug/L	0.3495	ppb	11:47:47
2	Cr 267.716†	-1083.1	-1355.5	21.258	ug/L	21.258	ppb	11:47:47
2	Cu 324.752†	732.9	-5204.5	0.1395	ug/L	0.1395	ppb	11:47:27
2	Fe 238.204 Radial†	29569.9	34093.4	439240	ug/L	439240	ppb	11:46:28
2	K 766.490 Radial†	2357.2	161.8	-334.73	ug/L	-334.73	ppb	11:46:08
2	Mg 279.077 IEC†	9502.0	10956.1	497480	ug/L	497480	ppb	11:46:28
2	Mn 257.610†	-19251.3	-23357.8	-3.1661	ug/L	-3.1661	ppb	11:47:27
2	Mo 202.031†	-490.8	-590.4	-3.2938	ug/L	-3.2938	ppb	11:47:47
2	Na 589.592 Radial†	1542603.2	1779856.6	516520	ug/L	516520	ppb	11:46:08
2	Ni 231.604†	259.4	256.6	6.5170	ug/L	6.5170	ppb	11:47:47

2	P 214.914†	490.9	382.5	11.535	ug/L	11.535 ppb	11:47:47
2	Pb 220.353†	-553.8	-594.4	-5.0536	ug/L	-5.0536 ppb	11:47:47
2	S 181.975 Axial†	68.5	44.5	-33.167	ug/L	-33.167 ppb	11:47:47
2	Sb 206.836†	52.2	25.5	-12.151	ug/L	-12.151 ppb	11:47:47
2	Se 196.026†	-1856.2	-2189.3	-78.616	ug/L	-78.616 ppb	11:47:47
2	Si 251.611†	-411.4	-1024.0	-32.318	ug/L	-32.318 ppb	11:47:47
2	Sn 189.927†	-361.4	-440.8	-18.080	ug/L	-18.080 ppb	11:47:47
2	Sr 421.552†	756.3	835.5	1.8863	ug/L	1.8863 ppb	11:46:28
2	Ti 334.940†	-7184.7	-7272.4	7.9903	ug/L	7.9903 ppb	11:47:27
2	Tl 190.801†	-97.3	-84.7	-27.479	ug/L	-27.479 ppb	11:47:47
2	U 409.014†	417666.4	500096.9	13463	ug/L	13463 ppb	11:47:27
2	V 292.402†	2734.2	4685.8	3.4451	ug/L	3.4451 ppb	11:47:47
2	Zn 213.857†	5221.9	5659.6	-8.9632	ug/L	-8.9632 ppb	11:47:47
2	SiO2†	-409.6	-1039.1	-70.221	ug/L	-70.221 ppb	11:48:23
3	Sc 361.383	768050.6	768050.6	85.333	%		11:47:52
3	Sc Radial	3701.7	3701.7	87.0	%		11:46:54
3	Y 371.029	634335.4	634335.4	83.198	%		11:47:52
3	Y RADIAL	4073.7	4073.7	86.82	%		11:46:54
3	Ag 328.068†	-23330.9	-27570.4	-9.3803	ug/L	-9.3803 ppb	11:47:52
3	Al 396.153Radial†	498188.5	572569.5	518550	ug/L	518550 ppb	11:46:34
3	As 188.979†	-181.9	-192.7	15.811	ug/L	15.811 ppb	11:48:12
3	B 249.677†	1505.6	2137.3	-20.193	ug/L	-20.193 ppb	11:47:52
3	Ba 233.527†	-1472.9	-1716.9	-0.0020	ug/L	-0.0020 ppb	11:48:12
3	Be 313.107†	-10145.7	-8036.2	-3.0248	ug/L	-3.0248 ppb	11:47:52
3	Ca 317.933Radial†	211628.9	243163.2	483800	ug/L	483800 ppb	11:46:34
3	Cd 226.502†	3109.0	3826.7	1.7822	ug/L	1.7822 ppb	11:48:12
3	Co 228.616†	232.7	334.6	0.5915	ug/L	0.5915 ppb	11:48:12
3	Cr 267.716†	-1033.3	-1276.9	22.044	ug/L	22.044 ppb	11:48:12
3	Cu 324.752†	721.1	-5232.1	-0.0049	ug/L	-0.0049 ppb	11:47:52
3	Fe 238.204 Radial†	29617.0	34022.1	438320	ug/L	438320 ppb	11:46:54
3	K 766.490 Radial†	2515.9	334.2	-297.43	ug/L	-297.43 ppb	11:46:34
3	Mg 279.077 IEC†	9528.0	10945.7	497010	ug/L	497010 ppb	11:46:54
3	Mn 257.610†	-19505.7	-23295.2	-3.1672	ug/L	-3.1672 ppb	11:47:52
3	Mo 202.031†	-497.9	-589.5	-3.3602	ug/L	-3.3602 ppb	11:48:12
3	Na 589.592 Radial†	1522946.2	1750728.3	508070	ug/L	508070 ppb	11:46:34
3	Ni 231.604†	266.1	259.6	6.5935	ug/L	6.5935 ppb	11:48:12
3	P 214.914†	487.4	369.1	2.6053	ug/L	2.6053 ppb	11:48:12
3	Pb 220.353†	-509.9	-532.6	1.3050	ug/L	1.3050 ppb	11:48:12
3	S 181.975 Axial†	69.6	44.5	-31.947	ug/L	-31.947 ppb	11:48:12
3	Sb 206.836†	33.2	2.2	-20.078	ug/L	-20.078 ppb	11:48:12
3	Se 196.026†	-1842.9	-2139.0	-48.257	ug/L	-48.257 ppb	11:48:12
3	Si 251.611†	-439.5	-1049.2	-33.127	ug/L	-33.127 ppb	11:48:12
3	Sn 189.927†	-364.9	-438.0	-18.460	ug/L	-18.460 ppb	11:48:12
3	Sr 421.552†	771.2	849.4	2.0171	ug/L	2.0171 ppb	11:46:54
3	Ti 334.940†	-8518.8	-8701.2	5.1582	ug/L	5.1582 ppb	11:47:52
3	Tl 190.801†	-112.3	-100.3	-32.529	ug/L	-32.529 ppb	11:48:12
3	U 409.014†	425079.1	500957.9	13486	ug/L	13486 ppb	11:47:52
3	V 292.402†	2847.3	4767.1	4.1814	ug/L	4.1814 ppb	11:48:12
3	Zn 213.857†	5223.7	5563.8	-9.7868	ug/L	-9.7868 ppb	11:48:12
3	SiO2†	-403.5	-1024.4	-69.209	ug/L	-69.209 ppb	11:48:28

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	762037.8	84.665	%	0.6715				0.79%
Sc Radial	3702.8	87.1	%	0.36				0.41%
Y 371.029	630359.5	82.676	%	0.5701				0.69%
Y RADIAL	4069.7	86.74	%	0.659				0.76%
Ag 328.068†	-27441.3	-8.5193	ug/L	0.77014	-8.5193	ppb	0.77014	9.04%
Al 396.153Radial†	575002.1	520750	ug/L	3603.8	520750	ppb	3603.8	0.69%
QC value within limits for Al 396.153Radial Recovery = 104.15%								
As 188.979†	-208.3	8.9869	ug/L	6.10406	8.9869	ppb	6.10406	67.92%
B 249.677†	2193.6	-19.001	ug/L	1.0400	-19.001	ppb	1.0400	5.47%
Ba 233.527†	-1694.3	0.2020	ug/L	0.17705	0.2020	ppb	0.17705	87.67%
Be 313.107†	-8066.2	-3.0347	ug/L	0.00886	-3.0347	ppb	0.00886	0.29%
Ca 317.933Radial†	244032.0	485520	ug/L	3019.3	485520	ppb	3019.3	0.62%
QC value within limits for Ca 317.933Radial Recovery = 97.10%								
Cd 226.502†	3882.1	2.3274	ug/L	0.52723	2.3274	ppb	0.52723	22.65%
Co 228.616†	332.1	0.5268	ug/L	0.15535	0.5268	ppb	0.15535	29.49%
Cr 267.716†	-1309.4	21.770	ug/L	0.4440	21.770	ppb	0.4440	2.04%

Cu 324.752†	-5222.0	0.0788	ug/L	0.07491	0.0788	ppb	0.07491	95.11%
Fe 238.204 Radial†	34094.8	439250	ug/L	945.6	439250	ppb	945.6	0.22%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 87.85%								
K 766.490 Radial†	242.6	-316.48	ug/L	18.659	-316.48	ppb	18.659	5.90%
Mg 279.077 IEC†	10957.5	497540	ug/L	567.7	497540	ppb	567.7	0.11%
QC value within limits for Mg 279.077 IEC Recovery = 99.51%								
Mn 257.610†	-23353.4	-3.1619	ug/L	0.00838	-3.1619	ppb	0.00838	0.27%
Mo 202.031†	-579.5	-2.5361	ug/L	1.37036	-2.5361	ppb	1.37036	54.03%
Na 589.592 Radial†	1762427.6	511460	ug/L	4465.1	511460	ppb	4465.1	0.87%
QC value within limits for Na 589.592 Radial Recovery = 102.29%								
Ni 231.604†	254.5	6.4635	ug/L	0.16338	6.4635	ppb	0.16338	2.53%
P 214.914†	381.9	10.161	ug/L	6.9706	10.161	ppb	6.9706	68.60%
Pb 220.353†	-576.9	-3.8092	ug/L	4.61941	-3.8092	ppb	4.61941	121.27%
S 181.975 Axial†	46.7	-29.176	ug/L	5.8872	-29.176	ppb	5.8872	20.18%
Sb 206.836†	23.4	-12.731	ug/L	7.0747	-12.731	ppb	7.0747	55.57%
Se 196.026†	-2163.4	-61.442	ug/L	15.5675	-61.442	ppb	15.5675	25.34%
Si 251.611†	-1053.3	-33.267	ug/L	1.0255	-33.267	ppb	1.0255	3.08%
Sn 189.927†	-439.6	-18.482	ug/L	0.4137	-18.482	ppb	0.4137	2.24%
Sr 421.552†	834.1	1.9031	ug/L	0.10651	1.9031	ppb	0.10651	5.60%
Ti 334.940†	-8324.7	5.9188	ug/L	1.81497	5.9188	ppb	1.81497	30.66%
Tl 190.801†	-92.5	-30.014	ug/L	2.5252	-30.014	ppb	2.5252	8.41%
U 409.014†	500705.4	13479	ug/L	14.3	13479	ppb	14.3	0.11%
QC value less than the lower limit for U 409.014 Recovery = 89.86%								
V 292.402†	4708.6	3.6459	ug/L	0.46850	3.6459	ppb	0.46850	12.85%
Zn 213.857†	5622.0	-9.3423	ug/L	0.41569	-9.3423	ppb	0.41569	4.45%
SiO2†	-1068.9	-72.291	ug/L	4.4897	-72.291	ppb	4.4897	6.21%

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: LR2
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 2/23/2010 11:50:38
Data Type: Reprocessed on 2/23/2010 12:42:34

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc 361.383	882388.7	882388.7	98.036	%			11:54:13
1	Sc Radial	4083.5	4083.5	96.0	%			11:52:36
1	Y 371.029	726949.1	726949.1	95.345	%			11:54:13
1	Y RADIAL	4457.5	4457.5	95.00	%			11:52:36
1	Ag 328.068†	-8113.4	-8505.2	0.7527	ug/L	0.7527	ppb	11:54:18
1	Al 396.153Radial†	386.7	513.6	-0.4598	ug/L	-0.4598	ppb	11:52:36
1	As 188.979†	21057.1	21499.4	9751.2	ug/L	9751.2	ppb	11:54:18
1	B 249.677†	200438.6	204826.4	4862.0	ug/L	4862.0	ppb	11:54:18
1	Ba 233.527†	1681735.0	1715429.8	13421	ug/L	13421	ppb	11:54:13
1	Be 313.107†	7369759.5	7521231.0	2824.7	ug/L	2824.7	ppb	11:54:07
1	Ca 317.933Radial†	24.7	10.3	20.396	ug/L	20.396	ppb	11:52:56
1	Cd 226.502†	809957.7	826364.7	9597.8	ug/L	9597.8	ppb	11:54:13
1	Co 228.616†	431518.8	440224.1	9202.3	ug/L	9202.3	ppb	11:54:18
1	Cr 267.716†	2060497.4	2101703.7	23586	ug/L	23586	ppb	11:54:13
1	Cu 324.752†	6465550.3	6588979.9	19786	ug/L	19786	ppb	11:54:07
1	Fe 238.204 Radial†	-8.5	-19.1	29.577	ug/L	29.577	ppb	11:52:56
1	K 766.490 Radial†	1544448.2	1606221.4	300490	ug/L	300490	ppb	11:52:31
1	Mg 279.077 IEC†	-5.6	-8.6	-289.33	ug/L	-289.33	ppb	11:52:56
1	Mn 257.610†	8077318.7	8238672.7	9237.1	ug/L	9237.1	ppb	11:54:07
1	Mo 202.031†	128620.9	131191.1	9600.9	ug/L	9600.9	ppb	11:54:18
1	Na 589.592 Radial†	-201.1	530.9	154.08	ug/L	154.08	ppb	11:52:36
1	Ni 231.604†	363705.0	370937.8	9422.9	ug/L	9422.9	ppb	11:54:18
1	P 214.914†	30464.4	30872.6	14900	ug/L	14900	ppb	11:54:18
1	Pb 220.353†	192602.0	196524.9	24363	ug/L	24363	ppb	11:54:18
1	S 181.975 Axial†	35421.2	36093.6	52876	ug/L	52876	ppb	11:54:18
1	Sb 206.836†	30032.7	30597.6	11026	ug/L	11026	ppb	11:54:18
1	Se 196.026†	15007.9	15329.2	10136	ug/L	10136	ppb	11:54:18
1	Si 251.611†	1434695.4	1462898.6	46811	ug/L	46811	ppb	11:54:13
1	Sn 189.927†	55770.8	56877.5	10290	ug/L	10290	ppb	11:54:18
1	Sr 421.552†	1379249.8	1436662.0	9522.0	ug/L	9522.0	ppb	11:52:31
1	Ti 334.940†	6208018.0	6333648.1	9570.7	ug/L	9570.7	ppb	11:54:07
1	Tl 190.801†	28971.4	29583.0	9558.2	ug/L	9558.2	ppb	11:54:18
1	U 409.014†	-1464.1	1322.9	-16.979	ug/L	-16.979	ppb	11:54:18
1	V 292.402†	1392428.8	1421750.0	9987.6	ug/L	9987.6	ppb	11:54:13
1	Zn 213.857†	1362755.8	1389494.5	13856	ug/L	13856	ppb	11:54:13
1	SiO2†	1419310.1	1447187.8	99173	ug/L	99173	ppb	11:55:03
2	Sc 361.383	878695.9	878695.9	97.626	%			11:54:32
2	Sc Radial	4048.2	4048.2	95.2	%			11:53:06
2	Y 371.029	724487.8	724487.8	95.022	%			11:54:32
2	Y RADIAL	4442.2	4442.2	94.67	%			11:53:06
2	Ag 328.068†	-8120.1	-8546.9	0.5774	ug/L	0.5774	ppb	11:54:37
2	Al 396.153Radial†	380.0	510.0	-3.1977	ug/L	-3.1977	ppb	11:53:06
2	As 188.979†	20817.0	21343.7	9682.0	ug/L	9682.0	ppb	11:54:37
2	B 249.677†	198638.8	203842.1	4838.5	ug/L	4838.5	ppb	11:54:37
2	Ba 233.527†	1675805.1	1716564.8	13430	ug/L	13430	ppb	11:54:32
2	Be 313.107†	7426205.9	7610642.3	2858.3	ug/L	2858.3	ppb	11:54:26
2	Ca 317.933Radial†	28.4	14.4	28.648	ug/L	28.648	ppb	11:53:26
2	Cd 226.502†	808960.7	828815.5	9626.3	ug/L	9626.3	ppb	11:54:32
2	Co 228.616†	429995.2	440513.4	9208.1	ug/L	9208.1	ppb	11:54:37
2	Cr 267.716†	2055121.6	2105030.1	23624	ug/L	23624	ppb	11:54:32
2	Cu 324.752†	6511173.4	6663428.6	20010	ug/L	20010	ppb	11:54:26
2	Fe 238.204 Radial†	-9.1	-19.7	21.704	ug/L	21.704	ppb	11:53:26
2	K 766.490 Radial†	1582654.9	1660363.3	310620	ug/L	310620	ppb	11:53:01
2	Mg 279.077 IEC†	-2.2	-5.0	-127.19	ug/L	-127.19	ppb	11:53:26
2	Mn 257.610†	8137961.0	8335415.1	9345.5	ug/L	9345.5	ppb	11:54:26
2	Mo 202.031†	127952.0	131057.4	9591.1	ug/L	9591.1	ppb	11:54:37
2	Na 589.592 Radial†	-264.9	462.0	134.07	ug/L	134.07	ppb	11:53:06
2	Ni 231.604†	362397.8	371157.9	9428.5	ug/L	9428.5	ppb	11:54:37

2	P 214.914†	30344.7	30880.5	14861	ug/L	14861	ppb	11:54:37
2	Pb 220.353†	191799.6	196528.6	24364	ug/L	24364	ppb	11:54:37
2	S 181.975 Axial†	35085.4	35901.6	52594	ug/L	52594	ppb	11:54:37
2	Sb 206.836†	29834.6	30523.4	11000	ug/L	11000	ppb	11:54:37
2	Se 196.026†	14892.2	15275.0	10100	ug/L	10100	ppb	11:54:37
2	Si 251.611†	1425805.1	1459942.3	46717	ug/L	46717	ppb	11:54:32
2	Sn 189.927†	55653.1	56996.0	10311	ug/L	10311	ppb	11:54:37
2	Sr 421.552†	1409895.6	1481362.4	9818.3	ug/L	9818.3	ppb	11:53:01
2	Ti 334.940†	6250927.8	6404213.6	9677.4	ug/L	9677.4	ppb	11:54:26
2	Tl 190.801†	28876.3	29609.7	9568.2	ug/L	9568.2	ppb	11:54:37
2	U 409.014†	-1703.6	1071.2	-23.860	ug/L	-23.860	ppb	11:54:37
2	V 292.402†	1387062.9	1422222.5	9990.6	ug/L	9990.6	ppb	11:54:32
2	Zn 213.857†	1359659.2	1392164.3	13882	ug/L	13882	ppb	11:54:32
2	SiO2†	1412377.4	1446170.7	99103	ug/L	99103	ppb	11:55:09
3	Sc 361.383	879658.4	879658.4	97.733	%			11:54:52
3	Sc Radial	4131.9	4131.9	97.1	%			11:53:37
3	Y 371.029	724149.6	724149.6	94.978	%			11:54:52
3	Y RADIAL	4507.6	4507.6	96.07	%			11:53:37
3	Ag 328.068†	-8157.6	-8576.1	0.4373	ug/L	0.4373	ppb	11:54:57
3	Al 396.153Radial†	379.5	501.5	-12.494	ug/L	-12.494	ppb	11:53:37
3	As 188.979†	21084.9	21594.5	9794.9	ug/L	9794.9	ppb	11:54:57
3	B 249.677†	200236.8	205254.5	4872.1	ug/L	4872.1	ppb	11:54:57
3	Ba 233.527†	1680205.3	1719188.9	13450	ug/L	13450	ppb	11:54:52
3	Be 313.107†	7427825.9	7603976.6	2855.8	ug/L	2855.8	ppb	11:54:46
3	Ca 317.933Radial†	30.0	15.4	30.703	ug/L	30.703	ppb	11:53:57
3	Cd 226.502†	811672.5	830683.6	9648.0	ug/L	9648.0	ppb	11:54:52
3	Co 228.616†	432213.3	442300.9	9245.5	ug/L	9245.5	ppb	11:54:57
3	Cr 267.716†	2058304.7	2105983.6	23634	ug/L	23634	ppb	11:54:52
3	Cu 324.752†	6500993.2	6645714.5	19956	ug/L	19956	ppb	11:54:46
3	Fe 238.204 Radial†	-8.3	-18.7	35.658	ug/L	35.658	ppb	11:53:57
3	K 766.490 Radial†	1589947.4	1634199.9	305720	ug/L	305720	ppb	11:53:32
3	Mg 279.077 IEC†	-0.5	-3.3	-48.321	ug/L	-48.321	ppb	11:53:57
3	Mn 257.610†	8154831.4	8343555.8	9354.7	ug/L	9354.7	ppb	11:54:46
3	Mo 202.031†	128508.3	131483.1	9622.3	ug/L	9622.3	ppb	11:54:57
3	Na 589.592 Radial†	-229.7	503.9	146.23	ug/L	146.23	ppb	11:53:37
3	Ni 231.604†	363989.2	372380.1	9459.5	ug/L	9459.5	ppb	11:54:57
3	P 214.914†	30581.5	31088.8	14998	ug/L	14998	ppb	11:54:57
3	Pb 220.353†	193059.3	197602.6	24497	ug/L	24497	ppb	11:54:57
3	S 181.975 Axial†	35462.9	36248.5	53102	ug/L	53102	ppb	11:54:57
3	Sb 206.836†	30094.0	30755.4	11082	ug/L	11082	ppb	11:54:57
3	Se 196.026†	15075.7	15446.1	10213	ug/L	10213	ppb	11:54:57
3	Si 251.611†	1429109.3	1461725.0	46773	ug/L	46773	ppb	11:54:52
3	Sn 189.927†	55870.1	57155.6	10340	ug/L	10340	ppb	11:54:57
3	Sr 421.552†	1413097.6	1454663.5	9641.3	ug/L	9641.3	ppb	11:53:32
3	Ti 334.940†	6253920.9	6400270.0	9671.4	ug/L	9671.4	ppb	11:54:46
3	Tl 190.801†	29095.3	29801.5	9629.5	ug/L	9629.5	ppb	11:54:57
3	U 409.014†	-1480.7	1301.2	-17.673	ug/L	-17.673	ppb	11:54:57
3	V 292.402†	1388416.2	1422052.6	9989.9	ug/L	9989.9	ppb	11:54:52
3	Zn 213.857†	1363376.9	1394444.4	13905	ug/L	13905	ppb	11:54:52
3	SiO2†	1417724.5	1450058.8	99369	ug/L	99369	ppb	11:55:15

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	880247.7	97.798	%	0.2128				0.22%
Sc Radial	4087.9	96.1	%	0.99				1.03%
Y 371.029	725195.5	95.115	%	0.2004				0.21%
Y RADIAL	4469.1	95.25	%	0.729				0.77%
Ag 328.068†	-8542.8	0.5891	ug/L	0.15801	0.5891	ppb	0.15801	26.82%
Al 396.153Radial†	508.4	-5.3837	ug/L	6.30772	-5.3837	ppb	6.30772	117.16%
As 188.979†	21479.2	9742.7	ug/L	56.95	9742.7	ppb	56.95	0.58%
QC value within limits for As 188.979 Recovery = 97.43%								
B 249.677†	204641.0	4857.5	ug/L	17.24	4857.5	ppb	17.24	0.35%
QC value within limits for B 249.677 Recovery = 97.15%								
Ba 233.527†	1717061.2	13434	ug/L	15.1	13434	ppb	15.1	0.11%
QC value less than the lower limit for Ba 233.527 Recovery = 89.56%								
Be 313.107†	7578616.6	2846.3	ug/L	18.70	2846.3	ppb	18.70	0.66%
QC value within limits for Be 313.107 Recovery = 94.88%								
Ca 317.933Radial†	13.4	26.582	ug/L	5.4551	26.582	ppb	5.4551	20.52%
Cd 226.502†	828621.3	9624.0	ug/L	25.15	9624.0	ppb	25.15	0.26%

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   QC value within limits for Cd 226.502  Recovery = 96.24%
Co 228.616†          441012.8      9218.6 ug/L        23.48      9218.6 ppb        23.48   0.25%
   QC value within limits for Co 228.616  Recovery = 92.19%
Cr 267.716†         2104239.1       23615 ug/L         25.2       23615 ppb         25.2   0.11%
   QC value within limits for Cr 267.716  Recovery = 94.46%
Cu 324.752†         6632707.7       19917 ug/L        116.8       19917 ppb        116.8   0.59%
   QC value within limits for Cu 324.752  Recovery = 99.59%
Fe 238.204 Radial†       -19.2      28.980 ug/L       6.9961      28.980 ppb       6.9961  24.14%
K 766.490 Radial†    1633594.8      305610 ug/L       5065.6      305610 ppb       5065.6   1.66%
   QC value within limits for K 766.490 Radial  Recovery = 101.87%
Mg 279.077 IEC†          -5.6     -154.95 ug/L      122.879     -154.95 ppb      122.879  79.30%
Mn 257.610†          8305881.2      9312.4 ug/L        65.41      9312.4 ppb        65.41   0.70%
   QC value within limits for Mn 257.610  Recovery = 93.12%
Mo 202.031†           131243.9      9604.8 ug/L        15.93      9604.8 ppb        15.93   0.17%
   QC value within limits for Mo 202.031  Recovery = 96.05%
Na 589.592 Radial†       498.9      144.79 ug/L       10.080      144.79 ppb       10.080   6.96%
Ni 231.604†           371491.9      9437.0 ug/L        19.74      9437.0 ppb        19.74   0.21%
   QC value within limits for Ni 231.604  Recovery = 94.37%
P 214.914†             30947.3       14919 ug/L         70.6       14919 ppb         70.6   0.47%
   QC value within limits for P 214.914  Recovery = 99.46%
Pb 220.353†           196885.3       24408 ug/L         77.0       24408 ppb         77.0   0.32%
   QC value within limits for Pb 220.353  Recovery = 97.63%
S 181.975 Axial†       36081.2       52857 ug/L        254.6       52857 ppb        254.6   0.48%
   QC value within limits for S 181.975 Axial  Recovery = 105.71%
Sb 206.836†            30625.4       11036 ug/L         41.9       11036 ppb         41.9   0.38%
   QC value greater than the upper limit for Sb 206.836  Recovery = 110.36%
Se 196.026†            15350.1       10149 ug/L         57.7       10149 ppb         57.7   0.57%
   QC value within limits for Se 196.026  Recovery = 101.49%
Si 251.611†          1461522.0       46767 ug/L         47.7       46767 ppb         47.7   0.10%
   QC value within limits for Si 251.611  Recovery = 93.53%
Sn 189.927†            57009.7       10314 ug/L         25.3       10314 ppb         25.3   0.24%
   QC value within limits for Sn 189.927  Recovery = 103.14%
Sr 421.552†          1457562.6      9660.5 ug/L       149.07      9660.5 ppb       149.07   1.54%
   QC value within limits for Sr 421.552  Recovery = 96.61%
Ti 334.940†          6379377.2      9639.9 ug/L        59.95      9639.9 ppb        59.95   0.62%
   QC value within limits for Ti 334.940  Recovery = 96.40%
Tl 190.801†            29664.7      9585.3 ug/L        38.63      9585.3 ppb        38.63   0.40%
   QC value within limits for Tl 190.801  Recovery = 95.85%
U 409.014†              1231.8     -19.504 ug/L       3.7885     -19.504 ppb       3.7885  19.42%
V 292.402†           1422008.4      9989.3 ug/L         1.57      9989.3 ppb         1.57   0.02%
   QC value within limits for V 292.402  Recovery = 99.89%
Zn 213.857†          1392034.4       13881 ug/L         24.6       13881 ppb         24.6   0.18%
   QC value within limits for Zn 213.857  Recovery = 92.54%
SiO2†                1447805.8       99215 ug/L        138.1       99215 ppb        138.1   0.14%
   QC value within limits for SiO2  Recovery = 92.72%
QC Failed.  Continue with analysis.
```

Sequence No.: 13
Sample ID: CCV
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/23/2010 11:57:25
Data Type: Reprocessed on 2/23/2010 12:42:35

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 361.383	921577.5	921577.5	102.39	%			12:00:35
1	Sc Radial	3882.6	3882.6	91.3	%			11:59:18
1	Y 371.029	766594.4	766594.4	100.54	%			12:00:35
1	Y RADIAL	4267.1	4267.1	90.94	%			11:59:18
1	Ag 328.068†	109678.6	106888.8	494.05	ug/L	494.05	ppb	12:00:40
1	Al 396.153Radial†	5431.6	6061.3	5465.2	ug/L	5465.2	ppb	11:59:18
1	As 188.979†	1199.4	1191.9	541.58	ug/L	541.58	ppb	12:01:00
1	B 249.677†	21580.9	21450.1	509.62	ug/L	509.62	ppb	12:00:40
1	Ba 233.527†	64326.8	62834.2	492.04	ug/L	492.04	ppb	12:00:40
1	Be 313.107†	1341859.1	1314386.4	490.94	ug/L	490.94	ppb	12:00:35
1	Ca 317.933Radial†	2600.9	2833.9	5638.3	ug/L	5638.3	ppb	11:59:38
1	Cd 226.502†	43860.0	43019.4	499.18	ug/L	499.18	ppb	12:00:40
1	Co 228.616†	24156.4	23654.4	494.63	ug/L	494.63	ppb	12:00:40
1	Cr 267.716†	44977.1	43861.1	492.96	ug/L	492.96	ppb	12:00:40
1	Cu 324.752†	170861.0	160795.1	482.88	ug/L	482.88	ppb	12:00:40
1	Fe 238.204 Radial†	394.8	422.4	5456.3	ug/L	5456.3	ppb	11:59:38
1	K 766.490 Radial†	30234.8	30566.6	5711.8	ug/L	5711.8	ppb	11:59:18
1	Mg 279.077 IEC†	118.1	126.6	5754.9	ug/L	5754.9	ppb	11:59:38
1	Mn 257.610†	448806.4	437892.1	491.26	ug/L	491.26	ppb	12:00:35
1	Mo 202.031†	6978.9	6809.9	498.86	ug/L	498.86	ppb	12:01:00
1	Na 589.592 Radial†	32556.0	36406.7	10565	ug/L	10565	ppb	11:59:18
1	Ni 231.604†	20112.5	19590.6	497.65	ug/L	497.65	ppb	12:00:40
1	P 214.914†	4422.2	4117.0	2403.9	ug/L	2403.9	ppb	12:01:00
1	Pb 220.353†	4154.9	4123.0	512.46	ug/L	512.46	ppb	12:01:00
1	S 181.975 Axial†	756.2	701.5	1026.6	ug/L	1026.6	ppb	12:01:00
1	Sb 206.836†	1536.0	1463.5	528.10	ug/L	528.10	ppb	12:01:00
1	Se 196.026†	756.8	759.8	519.43	ug/L	519.43	ppb	12:01:00
1	Si 251.611†	79180.0	76797.4	2457.5	ug/L	2457.5	ppb	12:00:40
1	Sn 189.927†	2848.7	2771.8	502.14	ug/L	502.14	ppb	12:01:00
1	Sr 421.552†	73649.7	80649.2	534.49	ug/L	534.49	ppb	11:59:18
1	Ti 334.940†	328993.3	322594.7	487.80	ug/L	487.80	ppb	12:00:35
1	Tl 190.801†	1551.3	1546.3	499.52	ug/L	499.52	ppb	12:01:00
1	U 409.014†	15163.0	17625.3	474.53	ug/L	474.53	ppb	12:00:40
1	V 292.402†	70289.9	70079.4	493.11	ug/L	493.11	ppb	12:00:40
1	Zn 213.857†	51371.4	49614.4	493.20	ug/L	493.20	ppb	12:00:40
1	SiO2†	79492.5	77085.2	5282.8	ug/L	5282.8	ppb	12:02:08
2	Sc 361.383	911964.6	911964.6	101.32	%			12:01:06
2	Sc Radial	4140.6	4140.6	97.3	%			11:59:43
2	Y 371.029	759889.1	759889.1	99.665	%			12:01:06
2	Y RADIAL	4532.6	4532.6	96.60	%			11:59:43
2	Ag 328.068†	109875.1	108211.9	499.99	ug/L	499.99	ppb	12:01:12
2	Al 396.153Radial†	5318.2	5574.0	5023.6	ug/L	5023.6	ppb	11:59:43
2	As 188.979†	1183.5	1188.6	539.98	ug/L	539.98	ppb	12:01:32
2	B 249.677†	21633.0	21723.6	516.21	ug/L	516.21	ppb	12:01:12
2	Ba 233.527†	64698.7	63863.5	500.08	ug/L	500.08	ppb	12:01:12
2	Be 313.107†	1338088.4	1324479.1	494.71	ug/L	494.71	ppb	12:01:06
2	Ca 317.933Radial†	2495.1	2547.7	5068.8	ug/L	5068.8	ppb	12:00:03
2	Cd 226.502†	44006.9	43615.9	506.17	ug/L	506.17	ppb	12:01:12
2	Co 228.616†	24280.7	24025.7	502.41	ug/L	502.41	ppb	12:01:12
2	Cr 267.716†	45156.0	44500.7	500.09	ug/L	500.09	ppb	12:01:12
2	Cu 324.752†	170613.3	162309.7	487.39	ug/L	487.39	ppb	12:01:12
2	Fe 238.204 Radial†	379.9	380.1	4912.2	ug/L	4912.2	ppb	12:00:03
2	K 766.490 Radial†	29751.5	28006.0	5233.3	ug/L	5233.3	ppb	11:59:43
2	Mg 279.077 IEC†	113.2	113.6	5161.1	ug/L	5161.1	ppb	12:00:03
2	Mn 257.610†	446822.6	440554.5	494.22	ug/L	494.22	ppb	12:01:06
2	Mo 202.031†	6989.5	6892.2	504.83	ug/L	504.83	ppb	12:01:32
2	Na 589.592 Radial†	31766.9	33373.5	9685.1	ug/L	9685.1	ppb	11:59:43
2	Ni 231.604†	20169.1	19853.6	504.33	ug/L	504.33	ppb	12:01:12

2	P 214.914†	4426.8	4167.0	2433.8	ug/L	2433.8 ppb	12:01:32
2	Pb 220.353†	4159.4	4170.1	518.27	ug/L	518.27 ppb	12:01:32
2	S 181.975 Axial†	740.7	694.0	1015.7	ug/L	1015.7 ppb	12:01:32
2	Sb 206.836†	1543.1	1486.2	536.34	ug/L	536.34 ppb	12:01:32
2	Se 196.026†	765.8	776.6	528.78	ug/L	528.78 ppb	12:01:32
2	Si 251.611†	79337.5	77768.0	2488.6	ug/L	2488.6 ppb	12:01:12
2	Sn 189.927†	2876.1	2828.1	512.26	ug/L	512.26 ppb	12:01:32
2	Sr 421.552†	71668.8	73586.5	487.68	ug/L	487.68 ppb	11:59:43
2	Ti 334.940†	327958.0	324959.8	491.35	ug/L	491.35 ppb	12:01:06
2	Tl 190.801†	1569.2	1579.9	510.31	ug/L	510.31 ppb	12:01:32
2	U 409.014†	15210.5	17828.2	480.06	ug/L	480.06 ppb	12:01:12
2	V 292.402†	70615.9	71124.8	500.52	ug/L	500.52 ppb	12:01:12
2	Zn 213.857†	51538.3	50308.0	500.19	ug/L	500.19 ppb	12:01:12
2	SiO2†	79009.3	77426.7	5306.1	ug/L	5306.1 ppb	12:02:13
3	Sc 361.383	905655.5	905655.5	100.62	%		12:01:38
3	Sc Radial	4114.3	4114.3	96.7	%		12:00:08
3	Y 371.029	754058.0	754058.0	98.900	%		12:01:38
3	Y RADIAL	4524.3	4524.3	96.43	%		12:00:08
3	Ag 328.068†	109944.7	109036.5	503.81	ug/L	503.81 ppb	12:01:43
3	Al 396.153Radial†	5250.1	5538.6	4991.4	ug/L	4991.4 ppb	12:00:08
3	As 188.979†	1176.4	1189.6	540.48	ug/L	540.48 ppb	12:02:03
3	B 249.677†	21687.1	21926.2	521.02	ug/L	521.02 ppb	12:01:43
3	Ba 233.527†	64896.8	64505.3	505.10	ug/L	505.10 ppb	12:01:43
3	Be 313.107†	1334928.8	1330539.0	496.98	ug/L	496.98 ppb	12:01:38
3	Ca 317.933Radial†	2505.1	2574.4	5122.0	ug/L	5122.0 ppb	12:00:28
3	Cd 226.502†	44211.9	44122.2	512.04	ug/L	512.04 ppb	12:01:43
3	Co 228.616†	24371.9	24283.3	507.80	ug/L	507.80 ppb	12:01:43
3	Cr 267.716†	45244.4	44899.1	504.57	ug/L	504.57 ppb	12:01:43
3	Cu 324.752†	170954.2	163821.5	491.93	ug/L	491.93 ppb	12:01:43
3	Fe 238.204 Radial†	381.8	384.6	4969.7	ug/L	4969.7 ppb	12:00:28
3	K 766.490 Radial†	29580.1	28024.8	5236.8	ug/L	5236.8 ppb	12:00:08
3	Mg 279.077 IEC†	116.0	117.2	5325.7	ug/L	5325.7 ppb	12:00:28
3	Mn 257.610†	446928.1	443731.5	497.78	ug/L	497.78 ppb	12:01:38
3	Mo 202.031†	6978.4	6929.2	507.54	ug/L	507.54 ppb	12:02:03
3	Na 589.592 Radial†	31598.8	33408.9	9695.4	ug/L	9695.4 ppb	12:00:08
3	Ni 231.604†	20244.7	20067.3	509.76	ug/L	509.76 ppb	12:01:43
3	P 214.914†	4434.7	4205.3	2456.1	ug/L	2456.1 ppb	12:02:03
3	Pb 220.353†	4140.4	4179.9	519.47	ug/L	519.47 ppb	12:02:03
3	S 181.975 Axial†	748.7	707.0	1034.8	ug/L	1034.8 ppb	12:02:03
3	Sb 206.836†	1545.3	1499.0	540.92	ug/L	540.92 ppb	12:02:03
3	Se 196.026†	762.5	778.5	530.27	ug/L	530.27 ppb	12:02:03
3	Si 251.611†	79558.8	78533.4	2513.1	ug/L	2513.1 ppb	12:01:43
3	Sn 189.927†	2874.4	2846.2	515.54	ug/L	515.54 ppb	12:02:03
3	Sr 421.552†	71185.4	73558.7	487.50	ug/L	487.50 ppb	12:00:08
3	Ti 334.940†	327536.2	326795.5	494.11	ug/L	494.11 ppb	12:01:38
3	Tl 190.801†	1565.8	1587.3	512.71	ug/L	512.71 ppb	12:02:03
3	U 409.014†	15173.2	17895.8	481.87	ug/L	481.87 ppb	12:01:43
3	V 292.402†	70810.1	71803.3	505.26	ug/L	505.26 ppb	12:01:43
3	Zn 213.857†	51755.0	50877.7	505.86	ug/L	505.86 ppb	12:01:43
3	SiO2†	79154.6	78114.3	5353.3	ug/L	5353.3 ppb	12:02:19

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	913065.9	101.44	%	0.891				0.88%
Sc Radial	4045.8	95.1	%	3.34				3.51%
Y 371.029	760180.5	99.703	%	0.8228				0.83%
Y RADIAL	4441.3	94.66	%	3.218				3.40%
Ag 328.068†	108045.7	499.28	ug/L	4.919	499.28	ppb	4.919	0.99%
QC value within limits for Ag 328.068 Recovery = 99.86%								
Al 396.153Radial†	5724.6	5160.1	ug/L	264.75	5160.1	ppb	264.75	5.13%
QC value within limits for Al 396.153Radial Recovery = 103.20%								
As 188.979†	1190.0	540.68	ug/L	0.816	540.68	ppb	0.816	0.15%
QC value within limits for As 188.979 Recovery = 108.14%								
B 249.677†	21700.0	515.62	ug/L	5.726	515.62	ppb	5.726	1.11%
QC value within limits for B 249.677 Recovery = 103.12%								
Ba 233.527†	63734.3	499.07	ug/L	6.590	499.07	ppb	6.590	1.32%
QC value within limits for Ba 233.527 Recovery = 99.81%								
Be 313.107†	1323134.9	494.21	ug/L	3.048	494.21	ppb	3.048	0.62%
QC value within limits for Be 313.107 Recovery = 98.84%								

Ca 317.933Radial†	2652.0	5276.4 ug/L	314.53	5276.4 ppb	314.53	5.96%
QC value within limits for Ca 317.933Radial Recovery = 105.53%						
Cd 226.502†	43585.8	505.80 ug/L	6.438	505.80 ppb	6.438	1.27%
QC value within limits for Cd 226.502 Recovery = 101.16%						
Co 228.616†	23987.8	501.61 ug/L	6.618	501.61 ppb	6.618	1.32%
QC value within limits for Co 228.616 Recovery = 100.32%						
Cr 267.716†	44420.3	499.20 ug/L	5.855	499.20 ppb	5.855	1.17%
QC value within limits for Cr 267.716 Recovery = 99.84%						
Cu 324.752†	162308.8	487.40 ug/L	4.529	487.40 ppb	4.529	0.93%
QC value within limits for Cu 324.752 Recovery = 97.48%						
Fe 238.204 Radial†	395.7	5112.7 ug/L	298.92	5112.7 ppb	298.92	5.85%
QC value within limits for Fe 238.204 Radial Recovery = 102.25%						
K 766.490 Radial†	28865.8	5394.0 ug/L	275.28	5394.0 ppb	275.28	5.10%
QC value within limits for K 766.490 Radial Recovery = 107.88%						
Mg 279.077 IEC†	119.1	5413.9 ug/L	306.59	5413.9 ppb	306.59	5.66%
QC value within limits for Mg 279.077 IEC Recovery = 108.28%						
Mn 257.610†	440726.1	494.42 ug/L	3.263	494.42 ppb	3.263	0.66%
QC value within limits for Mn 257.610 Recovery = 98.88%						
Mo 202.031†	6877.1	503.75 ug/L	4.443	503.75 ppb	4.443	0.88%
QC value within limits for Mo 202.031 Recovery = 100.75%						
Na 589.592 Radial†	34396.4	9982.0 ug/L	505.26	9982.0 ppb	505.26	5.06%
QC value within limits for Na 589.592 Radial Recovery = 99.82%						
Ni 231.604†	19837.2	503.92 ug/L	6.065	503.92 ppb	6.065	1.20%
QC value within limits for Ni 231.604 Recovery = 100.78%						
P 214.914†	4163.1	2431.3 ug/L	26.19	2431.3 ppb	26.19	1.08%
QC value within limits for P 214.914 Recovery = 97.25%						
Pb 220.353†	4157.7	516.74 ug/L	3.751	516.74 ppb	3.751	0.73%
QC value within limits for Pb 220.353 Recovery = 103.35%						
S 181.975 Axial†	700.8	1025.7 ug/L	9.61	1025.7 ppb	9.61	0.94%
QC value within limits for S 181.975 Axial Recovery = 102.57%						
Sb 206.836†	1482.9	535.12 ug/L	6.496	535.12 ppb	6.496	1.21%
QC value within limits for Sb 206.836 Recovery = 107.02%						
Se 196.026†	771.6	526.16 ug/L	5.877	526.16 ppb	5.877	1.12%
QC value within limits for Se 196.026 Recovery = 105.23%						
Si 251.611†	77699.6	2486.4 ug/L	27.86	2486.4 ppb	27.86	1.12%
QC value within limits for Si 251.611 Recovery = 99.46%						
Sn 189.927†	2815.4	509.98 ug/L	6.986	509.98 ppb	6.986	1.37%
QC value within limits for Sn 189.927 Recovery = 102.00%						
Sr 421.552†	75931.5	503.22 ug/L	27.077	503.22 ppb	27.077	5.38%
QC value within limits for Sr 421.552 Recovery = 100.64%						
Ti 334.940†	324783.3	491.09 ug/L	3.164	491.09 ppb	3.164	0.64%
QC value within limits for Ti 334.940 Recovery = 98.22%						
Tl 190.801†	1571.2	507.51 ug/L	7.025	507.51 ppb	7.025	1.38%
QC value within limits for Tl 190.801 Recovery = 101.50%						
U 409.014†	17783.1	478.82 ug/L	3.823	478.82 ppb	3.823	0.80%
QC value within limits for U 409.014 Recovery = 95.76%						
V 292.402†	71002.5	499.63 ug/L	6.127	499.63 ppb	6.127	1.23%
QC value within limits for V 292.402 Recovery = 99.93%						
Zn 213.857†	50266.7	499.75 ug/L	6.341	499.75 ppb	6.341	1.27%
QC value within limits for Zn 213.857 Recovery = 99.95%						
SiO2†	77542.1	5314.1 ug/L	35.90	5314.1 ppb	35.90	0.68%
QC value within limits for SiO2 Recovery = 99.38%						

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: CCB
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/23/2010 12:04:28
Data Type: Reprocessed on 2/23/2010 12:42:36

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc 361.383	909691.3	909691.3	101.07	%			12:07:38
1	Sc Radial	4155.8	4155.8	97.7	%			12:06:21
1	Y 371.029	768392.1	768392.1	100.78	%			12:07:38
1	Y RADIAL	4619.7	4619.7	98.46	%			12:06:21
1	Ag 328.068†	292.0	59.6	0.2704	ug/L	0.2704	ppb	12:07:43
1	Al 396.153Radial†	-102.3	6.0	5.4442	ug/L	5.4442	ppb	12:06:21
1	As 188.979†	-0.4	20.2	9.0795	ug/L	9.0795	ppb	12:08:03
1	B 249.677†	258.7	628.9	15.010	ug/L	15.010	ppb	12:08:03
1	Ba 233.527†	7.7	16.8	0.1320	ug/L	0.1320	ppb	12:08:03
1	Be 313.107†	-3884.6	9.7	0.0035	ug/L	0.0035	ppb	12:07:43
1	Ca 317.933Radial†	14.5	-0.6	-1.2173	ug/L	-1.2173	ppb	12:06:41
1	Cd 226.502†	-162.5	22.6	0.2636	ug/L	0.2636	ppb	12:08:03
1	Co 228.616†	-43.6	18.8	0.3936	ug/L	0.3936	ppb	12:08:03
1	Cr 267.716†	78.3	11.5	0.1276	ug/L	0.1276	ppb	12:08:03
1	Cu 324.752†	6284.3	140.6	0.4210	ug/L	0.4210	ppb	12:07:43
1	Fe 238.204 Radial†	8.8	-1.2	-15.724	ug/L	-15.724	ppb	12:06:41
1	K 766.490 Radial†	3195.7	714.1	133.60	ug/L	133.60	ppb	12:06:21
1	Mg 279.077 IEC†	0.7	-2.0	-92.160	ug/L	-92.160	ppb	12:06:41
1	Mn 257.610†	477.2	35.3	0.0418	ug/L	0.0418	ppb	12:08:03
1	Mo 202.031†	10.9	4.7	0.3417	ug/L	0.3417	ppb	12:08:03
1	Na 589.592 Radial†	-716.3	7.2	2.1001	ug/L	2.1001	ppb	12:06:21
1	Ni 231.604†	51.2	-1.7	-0.0426	ug/L	-0.0426	ppb	12:08:03
1	P 214.914†	207.3	3.0	1.7990	ug/L	1.7990	ppb	12:08:03
1	Pb 220.353†	-23.2	42.1	5.2206	ug/L	5.2206	ppb	12:08:03
1	S 181.975 Axial†	34.1	-3.3	-4.8746	ug/L	-4.8746	ppb	12:08:03
1	Sb 206.836†	62.9	25.5	8.9481	ug/L	8.9481	ppb	12:08:03
1	Se 196.026†	-31.1	-10.1	-6.6878	ug/L	-6.6878	ppb	12:08:03
1	Si 251.611†	669.8	128.5	4.1193	ug/L	4.1193	ppb	12:08:03
1	Sn 189.927†	25.7	15.0	2.7134	ug/L	2.7134	ppb	12:08:03
1	Sr 421.552†	61.1	25.8	0.1710	ug/L	0.1710	ppb	12:06:21
1	Ti 334.940†	-1329.3	-33.4	-0.0436	ug/L	-0.0436	ppb	12:07:43
1	Tl 190.801†	-37.4	-5.8	-1.8708	ug/L	-1.8708	ppb	12:08:03
1	U 409.014†	-2813.8	32.2	0.8714	ug/L	0.8714	ppb	12:07:38
1	V 292.402†	-1363.0	81.9	0.5754	ug/L	0.5754	ppb	12:07:43
1	Zn 213.857†	735.1	169.6	1.7041	ug/L	1.7041	ppb	12:08:03
1	SiO2†	686.1	127.4	8.7416	ug/L	8.7416	ppb	12:09:09
2	Sc 361.383	923548.0	923548.0	102.61	%			12:08:08
2	Sc Radial	4155.7	4155.7	97.7	%			12:06:46
2	Y 371.029	780343.4	780343.4	102.35	%			12:08:08
2	Y RADIAL	4577.3	4577.3	97.55	%			12:06:46
2	Ag 328.068†	291.3	54.6	0.2512	ug/L	0.2512	ppb	12:08:13
2	Al 396.153Radial†	-138.0	-30.5	-27.643	ug/L	-27.643	ppb	12:06:46
2	As 188.979†	8.8	29.2	13.139	ug/L	13.139	ppb	12:08:33
2	B 249.677†	231.1	598.2	14.276	ug/L	14.276	ppb	12:08:33
2	Ba 233.527†	10.9	19.8	0.1534	ug/L	0.1534	ppb	12:08:33
2	Be 313.107†	-3905.9	46.7	0.0174	ug/L	0.0174	ppb	12:08:13
2	Ca 317.933Radial†	17.9	2.8	5.5879	ug/L	5.5879	ppb	12:07:06
2	Cd 226.502†	-168.5	19.1	0.2210	ug/L	0.2210	ppb	12:08:33
2	Co 228.616†	-64.9	-1.3	-0.0257	ug/L	-0.0257	ppb	12:08:33
2	Cr 267.716†	81.3	13.3	0.1495	ug/L	0.1495	ppb	12:08:33
2	Cu 324.752†	6355.2	116.4	0.3517	ug/L	0.3517	ppb	12:08:13
2	Fe 238.204 Radial†	9.9	-0.0	-0.6057	ug/L	-0.6057	ppb	12:07:06
2	K 766.490 Radial†	3188.7	707.0	132.27	ug/L	132.27	ppb	12:06:46
2	Mg 279.077 IEC†	1.8	-1.0	-43.228	ug/L	-43.228	ppb	12:07:06
2	Mn 257.610†	501.4	51.8	0.0598	ug/L	0.0598	ppb	12:08:33
2	Mo 202.031†	14.8	8.3	0.6083	ug/L	0.6083	ppb	12:08:33
2	Na 589.592 Radial†	-721.9	1.5	0.4333	ug/L	0.4333	ppb	12:06:46
2	Ni 231.604†	54.5	0.8	0.0208	ug/L	0.0208	ppb	12:08:33

2	P 214.914†	204.4	-2.8	-1.7819	ug/L	-1.7819 ppb	12:08:33
2	Pb 220.353†	-14.6	50.8	6.2851	ug/L	6.2851 ppb	12:08:33
2	S 181.975 Axial†	44.9	6.7	9.8806	ug/L	9.8806 ppb	12:08:33
2	Sb 206.836†	55.6	17.5	6.1386	ug/L	6.1386 ppb	12:08:33
2	Se 196.026†	-20.9	0.4	0.2410	ug/L	0.2410 ppb	12:08:33
2	Si 251.611†	688.8	137.1	4.3913	ug/L	4.3913 ppb	12:08:33
2	Sn 189.927†	21.4	10.4	1.8839	ug/L	1.8839 ppb	12:08:33
2	Sr 421.552†	57.8	22.4	0.1481	ug/L	0.1481 ppb	12:06:46
2	Ti 334.940†	-1316.5	-1.2	0.0040	ug/L	0.0040 ppb	12:08:13
2	Tl 190.801†	-38.7	-6.5	-2.0911	ug/L	-2.0911 ppb	12:08:33
2	U 409.014†	-3028.9	-135.6	-3.6646	ug/L	-3.6646 ppb	12:08:08
2	V 292.402†	-1545.2	-75.4	-0.5230	ug/L	-0.5230 ppb	12:08:13
2	Zn 213.857†	716.4	140.5	1.4093	ug/L	1.4093 ppb	12:08:33
2	SiO2†	668.4	99.9	6.8485	ug/L	6.8485 ppb	12:09:14
3	Sc 361.383	898349.9	898349.9	99.810	%		12:08:38
3	Sc Radial	4184.8	4184.8	98.4	%		12:07:11
3	Y 371.029	757882.0	757882.0	99.402	%		12:08:38
3	Y RADIAL	4587.8	4587.8	97.78	%		12:07:11
3	Ag 328.068†	219.7	-9.2	-0.0408	ug/L	-0.0408 ppb	12:08:43
3	Al 396.153Radial†	-140.3	-31.8	-28.874	ug/L	-28.874 ppb	12:07:11
3	As 188.979†	7.4	28.0	12.616	ug/L	12.616 ppb	12:09:03
3	B 249.677†	201.2	574.5	13.708	ug/L	13.708 ppb	12:09:03
3	Ba 233.527†	9.2	18.3	0.1424	ug/L	0.1424 ppb	12:09:03
3	Be 313.107†	-3780.2	65.9	0.0242	ug/L	0.0242 ppb	12:08:43
3	Ca 317.933Radial†	22.5	7.4	14.675	ug/L	14.675 ppb	12:07:31
3	Cd 226.502†	-161.6	21.4	0.2476	ug/L	0.2476 ppb	12:09:03
3	Co 228.616†	-63.3	-1.5	-0.0289	ug/L	-0.0289 ppb	12:09:03
3	Cr 267.716†	84.5	18.7	0.2098	ug/L	0.2098 ppb	12:09:03
3	Cu 324.752†	6276.9	211.8	0.6364	ug/L	0.6364 ppb	12:08:43
3	Fe 238.204 Radial†	10.9	0.9	12.139	ug/L	12.139 ppb	12:07:31
3	K 766.490 Radial†	3145.8	640.7	119.85	ug/L	119.85 ppb	12:07:11
3	Mg 279.077 IEC†	3.4	0.7	32.413	ug/L	32.413 ppb	12:07:31
3	Mn 257.610†	472.5	36.6	0.0409	ug/L	0.0409 ppb	12:09:03
3	Mo 202.031†	22.8	16.8	1.2292	ug/L	1.2292 ppb	12:09:03
3	Na 589.592 Radial†	-712.5	16.1	4.6806	ug/L	4.6806 ppb	12:07:11
3	Ni 231.604†	54.6	2.4	0.0605	ug/L	0.0605 ppb	12:09:03
3	P 214.914†	196.0	-5.7	-3.5837	ug/L	-3.5837 ppb	12:09:03
3	Pb 220.353†	-12.4	52.6	6.5147	ug/L	6.5147 ppb	12:09:03
3	S 181.975 Axial†	40.3	3.4	4.9258	ug/L	4.9258 ppb	12:09:03
3	Sb 206.836†	68.6	32.0	11.216	ug/L	11.216 ppb	12:09:03
3	Se 196.026†	-24.8	-4.2	-2.7150	ug/L	-2.7150 ppb	12:09:03
3	Si 251.611†	658.8	126.0	4.0254	ug/L	4.0254 ppb	12:09:03
3	Sn 189.927†	24.5	14.1	2.5555	ug/L	2.5555 ppb	12:09:03
3	Sr 421.552†	18.7	-17.8	-0.1182	ug/L	-0.1182 ppb	12:07:11
3	Ti 334.940†	-1384.8	-105.6	-0.1607	ug/L	-0.1607 ppb	12:08:43
3	Tl 190.801†	-29.6	1.5	0.4895	ug/L	0.4895 ppb	12:09:03
3	U 409.014†	-2796.5	14.4	0.3875	ug/L	0.3875 ppb	12:08:38
3	V 292.402†	-1491.7	-64.1	-0.4283	ug/L	-0.4283 ppb	12:08:43
3	Zn 213.857†	715.4	159.1	1.5929	ug/L	1.5929 ppb	12:09:03
3	SiO2†	670.8	120.6	8.2499	ug/L	8.2499 ppb	12:09:19

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	910529.7	101.16	%	1.402				1.39%
Sc Radial	4165.4	97.9	%	0.39				0.40%
Y 371.029	768872.5	100.84	%	1.474				1.46%
Y RADIAL	4594.9	97.93	%	0.470				0.48%
Ag 328.068†	35.0	0.1602	ug/L	0.17440	0.1602	ppb	0.17440	108.83%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-18.8	-17.024	ug/L	19.4681	-17.024	ppb	19.4681	114.35%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	25.8	11.612	ug/L	2.2083	11.612	ppb	2.2083	19.02%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	600.5	14.331	ug/L	0.6525	14.331	ppb	0.6525	4.55%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	18.3	0.1426	ug/L	0.01071	0.1426	ppb	0.01071	7.51%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	40.8	0.0150	ug/L	0.01054	0.0150	ppb	0.01054	70.11%
QC value within limits for Be 313.107 Recovery = Not calculated								

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Ca 317.933Radial†          3.2      6.3486 ug/L       7.97349      6.3486 ppb        7.97349 125.59%
   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†               21.0      0.2441 ug/L       0.02151      0.2441 ppb        0.02151   8.81%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                5.3      0.1130 ug/L       0.24303      0.1130 ppb        0.24303 215.11%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               14.5      0.1623 ug/L       0.04255      0.1623 ppb        0.04255  26.21%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              156.3      0.4697 ug/L       0.14848      0.4697 ppb        0.14848  31.61%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.1     -1.3970 ug/L      13.94836     -1.3970 ppb       13.94836 998.47%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        687.3      128.58 ug/L         7.582      128.58 ppb          7.582   5.90%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.8     -34.325 ug/L       62.7621     -34.325 ppb       62.7621 182.85%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               41.2      0.0475 ug/L       0.01067      0.0475 ppb        0.01067  22.46%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                9.9      0.7264 ug/L       0.45541      0.7264 ppb        0.45541  62.69%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         8.3      2.4046 ug/L       2.13994      2.4046 ppb        2.13994  88.99%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                0.5      0.0129 ug/L       0.05199      0.0129 ppb        0.05199 402.72%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -1.8     -1.1888 ug/L       2.73990     -1.1888 ppb        2.73990 230.47%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               48.5      6.0068 ug/L       0.69049      6.0068 ppb        0.69049  11.50%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           2.3      3.3106 ug/L       7.50903      3.3106 ppb        7.50903 226.82%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               25.0      8.7677 ug/L       2.54367      8.7677 ppb        2.54367  29.01%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -4.6     -3.0539 ug/L       3.47685     -3.0539 ppb        3.47685 113.85%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              130.5      4.1787 ug/L       0.19000      4.1787 ppb        0.19000   4.55%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               13.2      2.3842 ug/L       0.44045      2.3842 ppb        0.44045  18.47%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               10.1      0.0670 ug/L       0.16075      0.0670 ppb        0.16075 239.99%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -46.8     -0.0668 ug/L       0.08475     -0.0668 ppb        0.08475 126.94%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -3.6     -1.1575 ug/L       1.43059     -1.1575 ppb        1.43059 123.60%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -29.7     -0.8019 ug/L       2.49097     -0.8019 ppb        2.49097 310.64%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -19.2     -0.1253 ug/L       0.60866     -0.1253 ppb        0.60866 485.78%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              156.4      1.5688 ug/L       0.14887      1.5688 ppb        0.14887   9.49%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    115.9      7.9467 ug/L       0.98229      7.9467 ppb        0.98229  12.36%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 15
Sample ID: LR1
Analyst: HSC
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 2/23/2010 12:18:14
Data Type: Reprocessed on 2/23/2010 12:42:38
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc 361.383	897363.4	897363.4	99.700	%			12:21:24
1	Sc Radial	3925.3	3925.3	92.3	%			12:20:27
1	Y 371.029	752479.8	752479.8	98.693	%			12:21:24
1	Y RADIAL	4448.5	4448.5	94.81	%			12:20:07
1	Ag 328.068†	-25381.5	-25687.2	-3.9886	ug/L	-3.9886	ppb	12:21:24
1	Al 396.153Radial†	-117.5	-16.6	-13.826	ug/L	-13.826	ppb	12:20:07
1	As 188.979†	-196.0	-176.1	7.4021	ug/L	7.4021	ppb	12:21:45
1	B 249.677†	2257.4	2637.2	2.7679	ug/L	2.7679	ppb	12:21:24
1	Ba 233.527†	-1629.0	-1624.8	-1.2983	ug/L	-1.2983	ppb	12:21:24
1	Be 313.107†	-3811.9	29.9	0.0105	ug/L	0.0105	ppb	12:21:24
1	Ca 317.933Radial†	12.1	-2.4	-4.7669	ug/L	-4.7669	ppb	12:20:27
1	Cd 226.502†	3013.6	3206.0	-1.0143	ug/L	-1.0143	ppb	12:21:24
1	Co 228.616†	722.2	786.3	11.033	ug/L	11.033	ppb	12:21:45
1	Cr 267.716†	-553.5	-621.1	28.298	ug/L	28.298	ppb	12:21:24
1	Cu 324.752†	-139.2	-6216.7	0.8893	ug/L	0.8893	ppb	12:21:24
1	Fe 238.204 Radial†	26528.3	28736.6	370220	ug/L	370220	ppb	12:20:07
1	K 766.490 Radial†	2706.6	376.1	70.417	ug/L	70.417	ppb	12:20:07
1	Mg 279.077 IEC†	8.0	5.9	-117.76	ug/L	-117.76	ppb	12:20:27
1	Mn 257.610†	-31454.6	-31986.1	0.6922	ug/L	0.6922	ppb	12:21:24
1	Mo 202.031†	-323.6	-330.7	4.5402	ug/L	4.5402	ppb	12:21:24
1	Na 589.592 Radial†	-696.6	-14.5	-4.2122	ug/L	-4.2122	ppb	12:20:07
1	Ni 231.604†	116.5	64.5	1.6304	ug/L	1.6304	ppb	12:21:45
1	P 214.914†	648.7	448.7	-22.297	ug/L	-22.297	ppb	12:21:45
1	Pb 220.353†	197.8	263.4	-7.4336	ug/L	-7.4336	ppb	12:21:45
1	S 181.975 Axial†	58.3	21.4	31.339	ug/L	31.339	ppb	12:21:45
1	Sb 206.836†	19.2	-17.4	-10.610	ug/L	-10.610	ppb	12:21:45
1	Se 196.026†	-1589.6	-1573.7	117.08	ug/L	117.08	ppb	12:21:45
1	Si 251.611†	-479.0	-1014.6	-32.251	ug/L	-32.251	ppb	12:21:24
1	Sn 189.927†	-18.9	-29.4	-26.567	ug/L	-26.567	ppb	12:21:45
1	Sr 421.552†	69.4	38.5	0.2550	ug/L	0.2550	ppb	12:20:07
1	Ti 334.940†	-1455.8	-178.3	-0.3204	ug/L	-0.3204	ppb	12:21:24
1	Tl 190.801†	-45.6	-14.5	-5.0116	ug/L	-5.0116	ppb	12:21:45
1	U 409.014†	-241.1	2574.4	27.371	ug/L	27.371	ppb	12:21:24
1	V 292.402†	6977.7	8429.1	4.3991	ug/L	4.3991	ppb	12:21:24
1	Zn 213.857†	4114.9	3569.5	-19.572	ug/L	-19.572	ppb	12:21:45
1	SiO2†	-516.8	-1069.9	-72.849	ug/L	-72.849	ppb	12:22:42
2	Sc 361.383	890905.0	890905.0	98.982	%			12:21:50
2	Sc Radial	3891.2	3891.2	91.5	%			12:20:52
2	Y 371.029	747754.9	747754.9	98.074	%			12:21:50
2	Y RADIAL	4346.1	4346.1	92.63	%			12:20:32
2	Ag 328.068†	-25285.3	-25774.6	-3.6302	ug/L	-3.6302	ppb	12:21:50
2	Al 396.153Radial†	-134.7	-36.5	-31.871	ug/L	-31.871	ppb	12:20:32
2	As 188.979†	-198.3	-179.8	6.3053	ug/L	6.3053	ppb	12:22:11
2	B 249.677†	2205.6	2601.2	1.5072	ug/L	1.5072	ppb	12:21:50
2	Ba 233.527†	-1555.7	-1562.6	-0.7372	ug/L	-0.7372	ppb	12:21:50
2	Be 313.107†	-3750.2	64.5	0.0235	ug/L	0.0235	ppb	12:21:50
2	Ca 317.933Radial†	13.9	-0.3	-0.6374	ug/L	-0.6374	ppb	12:20:52
2	Cd 226.502†	3045.5	3260.2	-0.6404	ug/L	-0.6404	ppb	12:21:50
2	Co 228.616†	709.2	778.4	10.833	ug/L	10.833	ppb	12:22:11
2	Cr 267.716†	-607.6	-679.8	27.874	ug/L	27.874	ppb	12:21:50
2	Cu 324.752†	-306.0	-6386.3	0.5103	ug/L	0.5103	ppb	12:21:50
2	Fe 238.204 Radial†	26473.7	28928.9	372700	ug/L	372700	ppb	12:20:32
2	K 766.490 Radial†	2579.1	262.5	49.164	ug/L	49.164	ppb	12:20:32
2	Mg 279.077 IEC†	10.4	8.6	0.8242	ug/L	0.8242	ppb	12:20:52
2	Mn 257.610†	-31339.2	-32098.2	0.8062	ug/L	0.8062	ppb	12:21:50
2	Mo 202.031†	-325.4	-334.8	4.4286	ug/L	4.4286	ppb	12:21:50
2	Na 589.592 Radial†	-728.7	-56.2	-16.305	ug/L	-16.305	ppb	12:20:32
2	Ni 231.604†	165.3	114.7	2.9054	ug/L	2.9054	ppb	12:22:11

2	P 214.914†	641.1	445.7	-25.986	ug/L	-25.986 ppb	12:22:11
2	Pb 220.353†	224.7	292.1	-4.1547	ug/L	-4.1547 ppb	12:22:11
2	S 181.975 Axial†	50.5	14.0	20.552	ug/L	20.552 ppb	12:22:11
2	Sb 206.836†	44.8	8.5	-1.5870	ug/L	-1.5870 ppb	12:22:11
2	Se 196.026†	-1590.7	-1586.4	116.49	ug/L	116.49 ppb	12:22:11
2	Si 251.611†	-457.9	-996.8	-31.676	ug/L	-31.676 ppb	12:21:50
2	Sn 189.927†	-18.1	-28.7	-26.584	ug/L	-26.584 ppb	12:22:11
2	Sr 421.552†	70.5	40.3	0.2669	ug/L	0.2669 ppb	12:20:32
2	Ti 334.940†	-1419.1	-151.9	-0.2903	ug/L	-0.2903 ppb	12:21:50
2	Tl 190.801†	-48.5	-17.8	-6.0667	ug/L	-6.0667 ppb	12:22:11
2	U 409.014†	-178.3	2636.1	28.759	ug/L	28.759 ppb	12:21:50
2	V 292.402†	6910.3	8411.8	3.9194	ug/L	3.9194 ppb	12:21:50
2	Zn 213.857†	4098.0	3582.4	-19.821	ug/L	-19.821 ppb	12:22:11
2	SiO2†	-581.8	-1139.3	-77.614	ug/L	-77.614 ppb	12:22:47
3	Sc 361.383	893551.1	893551.1	99.276	%		12:22:16
3	Sc Radial	3884.2	3884.2	91.3	%		12:21:17
3	Y 371.029	749920.2	749920.2	98.358	%		12:22:16
3	Y RADIAL	4339.4	4339.4	92.48	%		12:20:57
3	Ag 328.068†	-25400.7	-25815.2	-3.5156	ug/L	-3.5156 ppb	12:22:16
3	Al 396.153Radial†	-141.3	-44.0	-38.590	ug/L	-38.590 ppb	12:20:57
3	As 188.979†	-193.1	-174.0	9.1516	ug/L	9.1516 ppb	12:22:37
3	B 249.677†	2300.7	2690.5	3.4772	ug/L	3.4772 ppb	12:22:16
3	Ba 233.527†	-1675.4	-1678.5	-1.6125	ug/L	-1.6125 ppb	12:22:16
3	Be 313.107†	-3775.8	49.9	0.0181	ug/L	0.0181 ppb	12:22:16
3	Ca 317.933Radial†	10.6	-3.9	-7.7657	ug/L	-7.7657 ppb	12:21:17
3	Cd 226.502†	3032.9	3238.3	-0.9955	ug/L	-0.9955 ppb	12:22:16
3	Co 228.616†	737.8	805.1	11.374	ug/L	11.374 ppb	12:22:37
3	Cr 267.716†	-616.6	-687.1	27.886	ug/L	27.886 ppb	12:22:16
3	Cu 324.752†	-257.1	-6336.1	0.7131	ug/L	0.7131 ppb	12:22:16
3	Fe 238.204 Radial†	26495.8	29004.7	373680	ug/L	373680 ppb	12:20:57
3	K 766.490 Radial†	2682.2	380.4	71.222	ug/L	71.222 ppb	12:20:57
3	Mg 279.077 IEC†	12.1	10.5	88.041	ug/L	88.041 ppb	12:21:17
3	Mn 257.610†	-31429.6	-32095.5	0.9021	ug/L	0.9021 ppb	12:22:16
3	Mo 202.031†	-339.5	-348.1	3.5358	ug/L	3.5358 ppb	12:22:16
3	Na 589.592 Radial†	-731.7	-60.9	-17.677	ug/L	-17.677 ppb	12:20:57
3	Ni 231.604†	140.6	89.3	2.2592	ug/L	2.2592 ppb	12:22:37
3	P 214.914†	656.3	459.1	-18.684	ug/L	-18.684 ppb	12:22:37
3	Pb 220.353†	227.1	293.8	-4.0486	ug/L	-4.0486 ppb	12:22:37
3	S 181.975 Axial†	54.4	17.8	26.096	ug/L	26.096 ppb	12:22:37
3	Sb 206.836†	20.8	-15.8	-10.079	ug/L	-10.079 ppb	12:22:37
3	Se 196.026†	-1587.4	-1578.3	124.85	ug/L	124.85 ppb	12:22:37
3	Si 251.611†	-477.5	-1015.1	-32.251	ug/L	-32.251 ppb	12:22:16
3	Sn 189.927†	-14.5	-25.0	-25.981	ug/L	-25.981 ppb	12:22:37
3	Sr 421.552†	106.8	80.2	0.5317	ug/L	0.5317 ppb	12:20:57
3	Ti 334.940†	-1423.5	-152.0	-0.2983	ug/L	-0.2983 ppb	12:22:16
3	Tl 190.801†	-51.1	-20.3	-6.8581	ug/L	-6.8581 ppb	12:22:37
3	U 409.014†	-204.2	2610.6	27.957	ug/L	27.957 ppb	12:22:16
3	V 292.402†	6940.9	8422.0	3.8344	ug/L	3.8344 ppb	12:22:16
3	Zn 213.857†	4100.1	3572.3	-20.065	ug/L	-20.065 ppb	12:22:37
3	SiO2†	-365.7	-919.8	-62.507	ug/L	-62.507 ppb	12:22:52

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	893939.8	99.320	%	0.3607				0.36%
Sc Radial	3900.2	91.7	%	0.52				0.56%
Y 371.029	750051.6	98.375	%	0.3102				0.32%
Y RADIAL	4378.0	93.31	%	1.303				1.40%
Ag 328.068†	-25759.0	-3.7115	ug/L	0.24677	-3.7115	ppb	0.24677	6.65%
Al 396.153Radial†	-32.3	-28.095	ug/L	12.8062	-28.095	ppb	12.8062	45.58%
As 188.979†	-176.6	7.6197	ug/L	1.43560	7.6197	ppb	1.43560	18.84%
B 249.677†	2642.9	2.5841	ug/L	0.99779	2.5841	ppb	0.99779	38.61%
Ba 233.527†	-1621.9	-1.2160	ug/L	0.44340	-1.2160	ppb	0.44340	36.46%
Be 313.107†	48.1	0.0174	ug/L	0.00654	0.0174	ppb	0.00654	37.62%
Ca 317.933Radial†	-2.2	-4.3900	ug/L	3.57904	-4.3900	ppb	3.57904	81.53%
Cd 226.502†	3234.8	-0.8834	ug/L	0.21066	-0.8834	ppb	0.21066	23.85%
Co 228.616†	789.9	11.080	ug/L	0.2735	11.080	ppb	0.2735	2.47%
Cr 267.716†	-662.7	28.019	ug/L	0.2411	28.019	ppb	0.2411	0.86%
Cu 324.752†	-6313.0	0.7042	ug/L	0.18963	0.7042	ppb	0.18963	26.93%
Fe 238.204 Radial†	28890.1	372200	ug/L	1780.9	372200	ppb	1780.9	0.48%

K 766.490 Radial†	339.7	63.601	ug/L	12.5093	63.601	ppb	12.5093	19.67%
Mg 279.077 IEC†	8.4	-9.6314	ug/L	103.29751	-9.6314	ppb	103.29751	>999.9%
Mn 257.610†	-32059.9	0.8002	ug/L	0.10510	0.8002	ppb	0.10510	13.14%
Mo 202.031†	-337.9	4.1682	ug/L	0.55050	4.1682	ppb	0.55050	13.21%
Na 589.592 Radial†	-43.9	-12.731	ug/L	7.4096	-12.731	ppb	7.4096	58.20%
Ni 231.604†	89.5	2.2650	ug/L	0.63750	2.2650	ppb	0.63750	28.15%
P 214.914†	451.1	-22.322	ug/L	3.6507	-22.322	ppb	3.6507	16.35%
Pb 220.353†	283.1	-5.2123	ug/L	1.92446	-5.2123	ppb	1.92446	36.92%
S 181.975 Axial†	17.7	25.995	ug/L	5.3939	25.995	ppb	5.3939	20.75%
Sb 206.836†	-8.2	-7.4253	ug/L	5.06309	-7.4253	ppb	5.06309	68.19%
Se 196.026†	-1579.5	119.47	ug/L	4.667	119.47	ppb	4.667	3.91%
Si 251.611†	-1008.8	-32.059	ug/L	0.3323	-32.059	ppb	0.3323	1.04%
Sn 189.927†	-27.7	-26.377	ug/L	0.3437	-26.377	ppb	0.3437	1.30%
Sr 421.552†	53.0	0.3512	ug/L	0.15648	0.3512	ppb	0.15648	44.56%
Ti 334.940†	-160.8	-0.3030	ug/L	0.01561	-0.3030	ppb	0.01561	5.15%
Tl 190.801†	-17.5	-5.9788	ug/L	0.92638	-5.9788	ppb	0.92638	15.49%
U 409.014†	2607.0	28.029	ug/L	0.6968	28.029	ppb	0.6968	2.49%
V 292.402†	8421.0	4.0510	ug/L	0.30448	4.0510	ppb	0.30448	7.52%
Zn 213.857†	3574.7	-19.819	ug/L	0.2466	-19.819	ppb	0.2466	1.24%
SiO2†	-1043.0	-70.990	ug/L	7.7232	-70.990	ppb	7.7232	10.88%

Sequence No.: 16
Sample ID: CCV
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/23/2010 12:25:04
Data Type: Reprocessed on 2/23/2010 12:42:39

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	917533.4	917533.4	101.94	%			12:28:14
1	Sc Radial	4202.1	4202.1	98.8	%			12:26:56
1	Y 371.029	762477.0	762477.0	100.00	%			12:28:14
1	Y RADIAL	4610.8	4610.8	98.27	%			12:26:56
1	Ag 328.068†	110168.5	107841.5	498.29	ug/L	498.29	ppb	12:28:19
1	Al 396.153Radial†	5406.0	5582.9	5032.1	ug/L	5032.1	ppb	12:26:56
1	As 188.979†	1112.2	1111.5	505.16	ug/L	505.16	ppb	12:28:39
1	B 249.677†	20661.2	20640.8	490.36	ug/L	490.36	ppb	12:28:19
1	Ba 233.527†	64878.5	63652.3	498.42	ug/L	498.42	ppb	12:28:19
1	Be 313.107†	1338075.9	1316451.6	491.70	ug/L	491.70	ppb	12:28:14
1	Ca 317.933Radial†	2519.1	2534.5	5042.7	ug/L	5042.7	ppb	12:27:16
1	Cd 226.502†	44133.2	43476.2	504.54	ug/L	504.54	ppb	12:28:19
1	Co 228.616†	24435.1	24031.8	502.55	ug/L	502.55	ppb	12:28:19
1	Cr 267.716†	45223.4	44296.3	497.79	ug/L	497.79	ppb	12:28:19
1	Cu 324.752†	170806.5	161477.2	484.89	ug/L	484.89	ppb	12:28:19
1	Fe 238.204 Radial†	387.9	382.5	4942.4	ug/L	4942.4	ppb	12:27:16
1	K 766.490 Radial†	29424.5	27228.2	5087.7	ug/L	5087.7	ppb	12:26:56
1	Mg 279.077 IEC†	115.1	113.8	5172.2	ug/L	5172.2	ppb	12:27:16
1	Mn 257.610†	449899.6	440896.4	494.60	ug/L	494.60	ppb	12:28:14
1	Mo 202.031†	6930.8	6792.7	497.55	ug/L	497.55	ppb	12:28:39
1	Na 589.592 Radial†	32985.7	34130.1	9904.7	ug/L	9904.7	ppb	12:26:56
1	Ni 231.604†	20208.4	19771.3	502.24	ug/L	502.24	ppb	12:28:19
1	P 214.914†	4411.5	4125.5	2409.0	ug/L	2409.0	ppb	12:28:39
1	Pb 220.353†	4084.1	4071.4	506.02	ug/L	506.02	ppb	12:28:39
1	S 181.975 Axial†	734.2	683.2	999.90	ug/L	999.90	ppb	12:28:39
1	Sb 206.836†	1485.9	1420.9	513.30	ug/L	513.30	ppb	12:28:39
1	Se 196.026†	752.6	759.0	517.28	ug/L	517.28	ppb	12:28:39
1	Si 251.611†	79241.7	77198.8	2470.4	ug/L	2470.4	ppb	12:28:19
1	Sn 189.927†	2844.9	2780.3	503.60	ug/L	503.60	ppb	12:28:39
1	Sr 421.552†	73801.0	74668.3	494.85	ug/L	494.85	ppb	12:26:56
1	Ti 334.940†	321943.9	317095.8	479.45	ug/L	479.45	ppb	12:28:19
1	Tl 190.801†	1557.9	1559.5	503.67	ug/L	503.67	ppb	12:28:39
1	U 409.014†	15293.0	17818.0	479.78	ug/L	479.78	ppb	12:28:19
1	V 292.402†	70515.9	70603.7	496.81	ug/L	496.81	ppb	12:28:19
1	Zn 213.857†	51505.5	49967.2	496.79	ug/L	496.79	ppb	12:28:19
1	SiO2†	80190.9	78112.5	5353.5	ug/L	5353.5	ppb	12:29:46
2	Sc 361.383	923787.2	923787.2	102.64	%			12:28:45
2	Sc Radial	4111.0	4111.0	96.6	%			12:27:21
2	Y 371.029	768155.5	768155.5	100.75	%			12:28:45
2	Y RADIAL	4516.9	4516.9	96.27	%			12:27:21
2	Ag 328.068†	109212.8	106178.7	490.66	ug/L	490.66	ppb	12:28:50
2	Al 396.153Radial†	5289.7	5583.9	5032.8	ug/L	5032.8	ppb	12:27:21
2	As 188.979†	1128.7	1120.2	509.05	ug/L	509.05	ppb	12:29:10
2	B 249.677†	20497.4	20344.0	483.29	ug/L	483.29	ppb	12:28:50
2	Ba 233.527†	64433.5	62787.9	491.66	ug/L	491.66	ppb	12:28:50
2	Be 313.107†	1348553.6	1317774.3	492.17	ug/L	492.17	ppb	12:28:45
2	Ca 317.933Radial†	2510.7	2582.2	5137.6	ug/L	5137.6	ppb	12:27:41
2	Cd 226.502†	43776.0	42835.1	497.09	ug/L	497.09	ppb	12:28:50
2	Co 228.616†	24225.1	23664.9	494.89	ug/L	494.89	ppb	12:28:50
2	Cr 267.716†	44970.1	43749.2	491.66	ug/L	491.66	ppb	12:28:50
2	Cu 324.752†	169546.3	159115.0	477.81	ug/L	477.81	ppb	12:28:50
2	Fe 238.204 Radial†	385.5	388.7	5022.8	ug/L	5022.8	ppb	12:27:41
2	K 766.490 Radial†	28957.9	27405.2	5120.8	ug/L	5120.8	ppb	12:27:21
2	Mg 279.077 IEC†	114.6	115.8	5262.1	ug/L	5262.1	ppb	12:27:41
2	Mn 257.610†	452046.9	440000.9	493.60	ug/L	493.60	ppb	12:28:45
2	Mo 202.031†	7007.7	6821.7	499.68	ug/L	499.68	ppb	12:29:10
2	Na 589.592 Radial†	32156.3	34011.5	9870.3	ug/L	9870.3	ppb	12:27:21
2	Ni 231.604†	20152.7	19582.8	497.46	ug/L	497.46	ppb	12:28:50

2	P 214.914†	4458.2	4141.7	2420.2 ug/L	2420.2 ppb	12:29:10
2	Pb 220.353†	4112.6	4072.0	506.10 ug/L	506.10 ppb	12:29:10
2	S 181.975 Axial†	744.8	688.6	1007.8 ug/L	1007.8 ppb	12:29:10
2	Sb 206.836†	1499.6	1424.4	514.63 ug/L	514.63 ppb	12:29:10
2	Se 196.026†	768.2	769.2	524.24 ug/L	524.24 ppb	12:29:10
2	Si 251.611†	78621.6	76068.3	2434.1 ug/L	2434.1 ppb	12:28:50
2	Sn 189.927†	2880.8	2796.4	506.52 ug/L	506.52 ppb	12:29:10
2	Sr 421.552†	72255.5	74723.9	495.22 ug/L	495.22 ppb	12:27:21
2	Ti 334.940†	319691.3	312763.1	472.91 ug/L	472.91 ppb	12:28:50
2	Tl 190.801†	1562.3	1553.4	501.69 ug/L	501.69 ppb	12:29:10
2	U 409.014†	14841.0	17276.1	465.14 ug/L	465.14 ppb	12:28:50
2	V 292.402†	70160.3	69789.0	491.16 ug/L	491.16 ppb	12:28:50
2	Zn 213.857†	51018.7	49150.8	488.62 ug/L	488.62 ppb	12:28:50
2	SiO2†	79437.7	76846.2	5266.4 ug/L	5266.4 ppb	12:29:51
3	Sc 361.383	918795.0	918795.0	102.08 %		12:29:16
3	Sc Radial	4174.8	4174.8	98.1 %		12:27:46
3	Y 371.029	765000.0	765000.0	100.34 %		12:29:16
3	Y RADIAL	4597.9	4597.9	97.99 %		12:27:46
3	Ag 328.068†	111756.3	109248.5	504.80 ug/L	504.80 ppb	12:29:21
3	Al 396.153Radial†	5421.5	5634.5	5078.7 ug/L	5078.7 ppb	12:27:46
3	As 188.979†	1122.1	1119.7	508.94 ug/L	508.94 ppb	12:29:41
3	B 249.677†	21120.8	21063.2	500.42 ug/L	500.42 ppb	12:29:21
3	Ba 233.527†	65867.2	64533.5	505.32 ug/L	505.32 ppb	12:29:21
3	Be 313.107†	1340368.0	1316894.6	491.88 ug/L	491.88 ppb	12:29:16
3	Ca 317.933Radial†	2533.8	2566.1	5105.4 ug/L	5105.4 ppb	12:28:06
3	Cd 226.502†	44842.5	44111.6	511.92 ug/L	511.92 ppb	12:29:21
3	Co 228.616†	24782.7	24339.3	508.96 ug/L	508.96 ppb	12:29:21
3	Cr 267.716†	45998.2	44994.5	505.64 ug/L	505.64 ppb	12:29:21
3	Cu 324.752†	174011.5	164386.7	493.63 ug/L	493.63 ppb	12:29:21
3	Fe 238.204 Radial†	390.7	387.9	5013.0 ug/L	5013.0 ppb	12:28:06
3	K 766.490 Radial†	29487.9	27487.1	5136.1 ug/L	5136.1 ppb	12:27:46
3	Mg 279.077 IEC†	115.9	115.3	5242.1 ug/L	5242.1 ppb	12:28:06
3	Mn 257.610†	448664.9	439080.9	492.57 ug/L	492.57 ppb	12:29:16
3	Mo 202.031†	6959.1	6811.2	498.91 ug/L	498.91 ppb	12:29:41
3	Na 589.592 Radial†	32703.4	34060.3	9884.4 ug/L	9884.4 ppb	12:27:46
3	Ni 231.604†	20557.7	20086.3	510.24 ug/L	510.24 ppb	12:29:21
3	P 214.914†	4438.2	4145.7	2419.5 ug/L	2419.5 ppb	12:29:41
3	Pb 220.353†	4082.8	4064.6	505.18 ug/L	505.18 ppb	12:29:41
3	S 181.975 Axial†	742.8	690.7	1010.8 ug/L	1010.8 ppb	12:29:41
3	Sb 206.836†	1496.9	1429.6	516.43 ug/L	516.43 ppb	12:29:41
3	Se 196.026†	755.8	761.1	518.88 ug/L	518.88 ppb	12:29:41
3	Si 251.611†	80646.8	78468.4	2511.1 ug/L	2511.1 ppb	12:29:21
3	Sn 189.927†	2862.8	2794.0	506.09 ug/L	506.09 ppb	12:29:41
3	Sr 421.552†	73477.6	74826.1	495.90 ug/L	495.90 ppb	12:27:46
3	Ti 334.940†	327395.4	322002.5	486.87 ug/L	486.87 ppb	12:29:21
3	Tl 190.801†	1567.8	1567.1	506.12 ug/L	506.12 ppb	12:29:41
3	U 409.014†	15533.7	18033.3	485.57 ug/L	485.57 ppb	12:29:21
3	V 292.402†	71907.5	71872.0	505.63 ug/L	505.63 ppb	12:29:21
3	Zn 213.857†	52226.7	50604.2	503.10 ug/L	503.10 ppb	12:29:21
3	SiO2†	78728.7	76572.2	5247.6 ug/L	5247.6 ppb	12:29:57

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	920038.5	102.22	%	0.367				0.36%
Sc Radial	4162.6	97.9	%	1.10				1.12%
Y 371.029	765210.8	100.36	%	0.373				0.37%
Y RADIAL	4575.2	97.51	%	1.085				1.11%
Ag 328.068†	107756.3	497.91	ug/L	7.076	497.91	ppb	7.076	1.42%
QC value within limits for Ag 328.068 Recovery = 99.58%								
Al 396.153Radial†	5600.4	5047.8	ug/L	26.70	5047.8	ppb	26.70	0.53%
QC value within limits for Al 396.153Radial Recovery = 100.96%								
As 188.979†	1117.2	507.71	ug/L	2.213	507.71	ppb	2.213	0.44%
QC value within limits for As 188.979 Recovery = 101.54%								
B 249.677†	20682.6	491.36	ug/L	8.606	491.36	ppb	8.606	1.75%
QC value within limits for B 249.677 Recovery = 98.27%								
Ba 233.527†	63657.9	498.47	ug/L	6.833	498.47	ppb	6.833	1.37%
QC value within limits for Ba 233.527 Recovery = 99.69%								
Be 313.107†	1317040.2	491.92	ug/L	0.241	491.92	ppb	0.241	0.05%
QC value within limits for Be 313.107 Recovery = 98.38%								

Ca 317.933Radial†	2560.9	5095.2 ug/L	48.27	5095.2 ppb	48.27	0.95%
QC value within limits for Ca 317.933Radial Recovery = 101.90%						
Cd 226.502†	43474.3	504.51 ug/L	7.415	504.51 ppb	7.415	1.47%
QC value within limits for Cd 226.502 Recovery = 100.90%						
Co 228.616†	24012.0	502.13 ug/L	7.045	502.13 ppb	7.045	1.40%
QC value within limits for Co 228.616 Recovery = 100.43%						
Cr 267.716†	44346.7	498.36 ug/L	7.006	498.36 ppb	7.006	1.41%
QC value within limits for Cr 267.716 Recovery = 99.67%						
Cu 324.752†	161659.6	485.45 ug/L	7.924	485.45 ppb	7.924	1.63%
QC value within limits for Cu 324.752 Recovery = 97.09%						
Fe 238.204 Radial†	386.4	4992.7 ug/L	43.86	4992.7 ppb	43.86	0.88%
QC value within limits for Fe 238.204 Radial Recovery = 99.85%						
K 766.490 Radial†	27373.5	5114.9 ug/L	24.74	5114.9 ppb	24.74	0.48%
QC value within limits for K 766.490 Radial Recovery = 102.30%						
Mg 279.077 IEC†	115.0	5225.4 ug/L	47.21	5225.4 ppb	47.21	0.90%
QC value within limits for Mg 279.077 IEC Recovery = 104.51%						
Mn 257.610†	439992.8	493.59 ug/L	1.016	493.59 ppb	1.016	0.21%
QC value within limits for Mn 257.610 Recovery = 98.72%						
Mo 202.031†	6808.5	498.71 ug/L	1.077	498.71 ppb	1.077	0.22%
QC value within limits for Mo 202.031 Recovery = 99.74%						
Na 589.592 Radial†	34067.3	9886.5 ug/L	17.29	9886.5 ppb	17.29	0.17%
QC value within limits for Na 589.592 Radial Recovery = 98.86%						
Ni 231.604†	19813.5	503.31 ug/L	6.461	503.31 ppb	6.461	1.28%
QC value within limits for Ni 231.604 Recovery = 100.66%						
P 214.914†	4137.6	2416.2 ug/L	6.28	2416.2 ppb	6.28	0.26%
QC value within limits for P 214.914 Recovery = 96.65%						
Pb 220.353†	4069.3	505.77 ug/L	0.510	505.77 ppb	0.510	0.10%
QC value within limits for Pb 220.353 Recovery = 101.15%						
S 181.975 Axial†	687.5	1006.2 ug/L	5.65	1006.2 ppb	5.65	0.56%
QC value within limits for S 181.975 Axial Recovery = 100.62%						
Sb 206.836†	1425.0	514.79 ug/L	1.572	514.79 ppb	1.572	0.31%
QC value within limits for Sb 206.836 Recovery = 102.96%						
Se 196.026†	763.1	520.13 ug/L	3.645	520.13 ppb	3.645	0.70%
QC value within limits for Se 196.026 Recovery = 104.03%						
Si 251.611†	77245.2	2471.9 ug/L	38.52	2471.9 ppb	38.52	1.56%
QC value within limits for Si 251.611 Recovery = 98.88%						
Sn 189.927†	2790.2	505.40 ug/L	1.577	505.40 ppb	1.577	0.31%
QC value within limits for Sn 189.927 Recovery = 101.08%						
Sr 421.552†	74739.4	495.32 ug/L	0.530	495.32 ppb	0.530	0.11%
QC value within limits for Sr 421.552 Recovery = 99.06%						
Ti 334.940†	317287.1	479.74 ug/L	6.983	479.74 ppb	6.983	1.46%
QC value within limits for Ti 334.940 Recovery = 95.95%						
Tl 190.801†	1560.0	503.83 ug/L	2.215	503.83 ppb	2.215	0.44%
QC value within limits for Tl 190.801 Recovery = 100.77%						
U 409.014†	17709.1	476.83 ug/L	10.529	476.83 ppb	10.529	2.21%
QC value within limits for U 409.014 Recovery = 95.37%						
V 292.402†	70754.9	497.86 ug/L	7.293	497.86 ppb	7.293	1.46%
QC value within limits for V 292.402 Recovery = 99.57%						
Zn 213.857†	49907.4	496.17 ug/L	7.261	496.17 ppb	7.261	1.46%
QC value within limits for Zn 213.857 Recovery = 99.23%						
SiO2†	77176.9	5289.1 ug/L	56.48	5289.1 ppb	56.48	1.07%
QC value within limits for SiO2 Recovery = 98.91%						

All analyte(s) passed QC.

Sequence No.: 17
Sample ID: CCB
Analyst:
Logged In Analyst (Original) : Optima3
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/23/2010 12:32:06
Data Type: Reprocessed on 2/23/2010 12:42:40

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	Sc 361.383	923059.3	923059.3	102.55	%			12:35:16
1	Sc Radial	4161.8	4161.8	97.8	%			12:33:59
1	Y 371.029	778461.9	778461.9	102.10	%			12:35:16
1	Y RADIAL	4589.6	4589.6	97.82	%			12:33:59
1	Ag 328.068†	324.8	87.4	0.4053	ug/L	0.4053	ppb	12:35:21
1	Al 396.153Radial†	-125.6	-17.6	-15.977	ug/L	-15.977	ppb	12:33:59
1	As 188.979†	-12.3	8.6	3.8611	ug/L	3.8611	ppb	12:35:41
1	B 249.677†	-150.3	226.4	5.3977	ug/L	5.3977	ppb	12:35:41
1	Ba 233.527†	12.9	21.7	0.1689	ug/L	0.1689	ppb	12:35:41
1	Be 313.107†	-3912.6	38.2	0.0137	ug/L	0.0137	ppb	12:35:21
1	Ca 317.933Radial†	15.9	0.8	1.6150	ug/L	1.6150	ppb	12:34:19
1	Cd 226.502†	-181.9	6.0	0.0660	ug/L	0.0660	ppb	12:35:41
1	Co 228.616†	-56.0	7.4	0.1545	ug/L	0.1545	ppb	12:35:41
1	Cr 267.716†	66.3	-1.3	-0.0144	ug/L	-0.0144	ppb	12:35:41
1	Cu 324.752†	6067.4	-160.9	-0.4836	ug/L	-0.4836	ppb	12:35:21
1	Fe 238.204 Radial†	12.8	2.9	37.328	ug/L	37.328	ppb	12:34:19
1	K 766.490 Radial†	2694.3	197.0	36.846	ug/L	36.846	ppb	12:33:59
1	Mg 279.077 IEC†	1.5	-1.2	-55.584	ug/L	-55.584	ppb	12:34:19
1	Mn 257.610†	450.5	2.5	0.0087	ug/L	0.0087	ppb	12:35:41
1	Mo 202.031†	10.7	4.4	0.3252	ug/L	0.3252	ppb	12:35:41
1	Na 589.592 Radial†	-729.1	-4.8	-1.3828	ug/L	-1.3828	ppb	12:33:59
1	Ni 231.604†	48.6	-4.9	-0.1242	ug/L	-0.1242	ppb	12:35:41
1	P 214.914†	209.4	2.2	1.3706	ug/L	1.3706	ppb	12:35:41
1	Pb 220.353†	-49.5	16.7	2.0673	ug/L	2.0673	ppb	12:35:41
1	S 181.975 Axial†	40.9	2.8	4.0977	ug/L	4.0977	ppb	12:35:41
1	Sb 206.836†	50.2	12.2	4.2614	ug/L	4.2614	ppb	12:35:41
1	Se 196.026†	-26.7	-5.3	-3.3704	ug/L	-3.3704	ppb	12:35:41
1	Si 251.611†	571.1	22.7	0.7248	ug/L	0.7248	ppb	12:35:41
1	Sn 189.927†	7.9	-2.7	-0.4864	ug/L	-0.4864	ppb	12:35:41
1	Sr 421.552†	41.7	5.8	0.0387	ug/L	0.0387	ppb	12:33:59
1	Ti 334.940†	-1476.2	-157.6	-0.2356	ug/L	-0.2356	ppb	12:35:21
1	Tl 190.801†	-29.7	2.2	0.7143	ug/L	0.7143	ppb	12:35:41
1	U 409.014†	-2714.9	169.0	4.5615	ug/L	4.5615	ppb	12:35:16
1	V 292.402†	-1601.6	-131.3	-0.9045	ug/L	-0.9045	ppb	12:35:21
1	Zn 213.857†	603.6	30.8	0.3051	ug/L	0.3051	ppb	12:35:41
1	SiO2†	580.8	14.9	1.0132	ug/L	1.0132	ppb	12:36:47
2	Sc 361.383	922067.6	922067.6	102.44	%			12:35:46
2	Sc Radial	4144.4	4144.4	97.4	%			12:34:24
2	Y 371.029	778634.5	778634.5	102.12	%			12:35:46
2	Y RADIAL	4564.9	4564.9	97.29	%			12:34:24
2	Ag 328.068†	291.1	54.9	0.2561	ug/L	0.2561	ppb	12:35:51
2	Al 396.153Radial†	-112.4	-4.6	-4.2149	ug/L	-4.2149	ppb	12:34:24
2	As 188.979†	-21.1	-0.1	-0.0496	ug/L	-0.0496	ppb	12:36:11
2	B 249.677†	-169.0	208.0	4.9603	ug/L	4.9603	ppb	12:36:11
2	Ba 233.527†	15.0	23.8	0.1872	ug/L	0.1872	ppb	12:36:11
2	Be 313.107†	-3867.3	78.2	0.0286	ug/L	0.0286	ppb	12:35:51
2	Ca 317.933Radial†	15.7	0.6	1.2928	ug/L	1.2928	ppb	12:34:44
2	Cd 226.502†	-167.4	19.9	0.2299	ug/L	0.2299	ppb	12:36:11
2	Co 228.616†	-67.3	-3.8	-0.0784	ug/L	-0.0784	ppb	12:36:11
2	Cr 267.716†	75.5	7.7	0.0867	ug/L	0.0867	ppb	12:36:11
2	Cu 324.752†	6175.7	-48.8	-0.1477	ug/L	-0.1477	ppb	12:35:51
2	Fe 238.204 Radial†	11.4	1.5	19.708	ug/L	19.708	ppb	12:34:44
2	K 766.490 Radial†	2670.0	183.6	34.349	ug/L	34.349	ppb	12:34:24
2	Mg 279.077 IEC†	-1.4	-4.2	-189.36	ug/L	-189.36	ppb	12:34:44
2	Mn 257.610†	466.9	19.0	0.0310	ug/L	0.0310	ppb	12:36:11
2	Mo 202.031†	10.0	3.7	0.2723	ug/L	0.2723	ppb	12:36:11
2	Na 589.592 Radial†	-713.3	8.3	2.3966	ug/L	2.3966	ppb	12:34:24
2	Ni 231.604†	38.5	-14.7	-0.3734	ug/L	-0.3734	ppb	12:36:11

2	P 214.914†	196.1	-10.6	-6.4255 ug/L	-6.4255 ppb	12:36:11
2	Pb 220.353†	-39.2	26.7	3.3113 ug/L	3.3113 ppb	12:36:11
2	S 181.975 Axial†	40.5	2.5	3.6835 ug/L	3.6835 ppb	12:36:11
2	Sb 206.836†	36.7	-0.9	-0.2687 ug/L	-0.2687 ppb	12:36:11
2	Se 196.026†	-30.0	-8.6	-5.5972 ug/L	-5.5972 ppb	12:36:11
2	Si 251.611†	556.3	8.9	0.2814 ug/L	0.2814 ppb	12:36:11
2	Sn 189.927†	21.1	10.2	1.8406 ug/L	1.8406 ppb	12:36:11
2	Sr 421.552†	52.1	16.7	0.1104 ug/L	0.1104 ppb	12:34:24
2	Ti 334.940†	-1465.5	-148.7	-0.2112 ug/L	-0.2112 ppb	12:35:51
2	Tl 190.801†	-19.6	12.1	3.8886 ug/L	3.8886 ppb	12:36:11
2	U 409.014†	-2728.0	153.3	4.1411 ug/L	4.1411 ppb	12:35:46
2	V 292.402†	-1409.2	54.9	0.3867 ug/L	0.3867 ppb	12:35:51
2	Zn 213.857†	606.7	34.5	0.3462 ug/L	0.3462 ppb	12:36:11
2	SiO2†	597.8	32.1	2.1949 ug/L	2.1949 ppb	12:36:52
3	Sc 361.383	921823.0	921823.0	102.42 %		12:36:16
3	Sc Radial	4165.7	4165.7	97.9 %		12:34:49
3	Y 371.029	778710.3	778710.3	102.13 %		12:36:16
3	Y RADIAL	4619.5	4619.5	98.45 %		12:34:49
3	Ag 328.068†	204.5	-29.7	-0.1318 ug/L	-0.1318 ppb	12:36:21
3	Al 396.153Radial†	-127.8	-19.7	-17.873 ug/L	-17.873 ppb	12:34:49
3	As 188.979†	-20.5	0.5	0.2324 ug/L	0.2324 ppb	12:36:41
3	B 249.677†	-184.4	192.9	4.6014 ug/L	4.6014 ppb	12:36:41
3	Ba 233.527†	15.8	24.6	0.1923 ug/L	0.1923 ppb	12:36:41
3	Be 313.107†	-3832.8	110.9	0.0407 ug/L	0.0407 ppb	12:36:21
3	Ca 317.933Radial†	16.9	1.8	3.5629 ug/L	3.5629 ppb	12:35:09
3	Cd 226.502†	-191.6	-3.8	-0.0451 ug/L	-0.0451 ppb	12:36:41
3	Co 228.616†	-76.8	-13.1	-0.2722 ug/L	-0.2722 ppb	12:36:41
3	Cr 267.716†	77.1	9.2	0.1052 ug/L	0.1052 ppb	12:36:41
3	Cu 324.752†	6239.2	14.8	0.0456 ug/L	0.0456 ppb	12:36:21
3	Fe 238.204 Radial†	11.0	1.0	12.921 ug/L	12.921 ppb	12:35:09
3	K 766.490 Radial†	2745.9	247.1	46.223 ug/L	46.223 ppb	12:34:49
3	Mg 279.077 IEC†	1.5	-1.2	-53.217 ug/L	-53.217 ppb	12:35:09
3	Mn 257.610†	460.1	12.4	0.0173 ug/L	0.0173 ppb	12:36:41
3	Mo 202.031†	13.5	7.1	0.5234 ug/L	0.5234 ppb	12:36:41
3	Na 589.592 Radial†	-704.9	20.6	5.9706 ug/L	5.9706 ppb	12:34:49
3	Ni 231.604†	60.0	6.3	0.1591 ug/L	0.1591 ppb	12:36:41
3	P 214.914†	198.7	-8.0	-4.8743 ug/L	-4.8743 ppb	12:36:41
3	Pb 220.353†	-60.0	6.4	0.7931 ug/L	0.7931 ppb	12:36:41
3	S 181.975 Axial†	37.4	-0.5	-0.7696 ug/L	-0.7696 ppb	12:36:41
3	Sb 206.836†	51.0	13.1	4.6229 ug/L	4.6229 ppb	12:36:41
3	Se 196.026†	-19.9	1.3	0.8888 ug/L	0.8888 ppb	12:36:41
3	Si 251.611†	545.1	-1.9	-0.0664 ug/L	-0.0664 ppb	12:36:41
3	Sn 189.927†	25.8	14.7	2.6634 ug/L	2.6634 ppb	12:36:41
3	Sr 421.552†	36.8	0.8	0.0055 ug/L	0.0055 ppb	12:34:49
3	Ti 334.940†	-1515.2	-197.7	-0.2939 ug/L	-0.2939 ppb	12:36:21
3	Tl 190.801†	-32.0	-0.1	-0.0184 ug/L	-0.0184 ppb	12:36:41
3	U 409.014†	-2910.0	-25.0	-0.6776 ug/L	-0.6776 ppb	12:36:16
3	V 292.402†	-1465.0	0.0	0.0037 ug/L	0.0037 ppb	12:36:21
3	Zn 213.857†	599.2	27.4	0.2716 ug/L	0.2716 ppb	12:36:41
3	SiO2†	587.6	22.2	1.5140 ug/L	1.5140 ppb	12:36:57

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	922316.6	102.47	%	0.073				0.07%
Sc Radial	4157.3	97.7	%	0.27				0.27%
Y 371.029	778602.2	102.12	%	0.017				0.02%
Y RADIAL	4591.4	97.85	%	0.582				0.60%
Ag 328.068†	37.5	0.1765	ug/L	0.27725	0.1765	ppb	0.27725	157.05%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-14.0	-12.688	ug/L	7.3991	-12.688	ppb	7.3991	58.31%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	3.0	1.3480	ug/L	2.18098	1.3480	ppb	2.18098	161.80%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	209.1	4.9865	ug/L	0.39878	4.9865	ppb	0.39878	8.00%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	23.4	0.1828	ug/L	0.01232	0.1828	ppb	0.01232	6.74%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	75.8	0.0277	ug/L	0.01352	0.0277	ppb	0.01352	48.86%
QC value within limits for Be 313.107 Recovery = Not calculated								

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Ca 317.933Radial†          1.1      2.1569 ug/L       1.22824      2.1569 ppb        1.22824  56.95%
   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                7.4      0.0836 ug/L       0.13837      0.0836 ppb        0.13837 165.48%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               -3.2     -0.0654 ug/L       0.21366     -0.0654 ppb        0.21366 326.72%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                5.2      0.0592 ug/L       0.06441      0.0592 ppb        0.06441 108.84%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -64.9     -0.1952 ug/L       0.26781     -0.1952 ppb        0.26781 137.18%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.8      23.319 ug/L       12.5978      23.319 ppb        12.5978  54.02%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        209.2      39.140 ug/L        6.2602      39.140 ppb         6.2602  15.99%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.2     -99.386 ug/L       77.9263     -99.386 ppb        77.9263  78.41%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               11.3      0.0190 ug/L       0.01121      0.0190 ppb        0.01121  59.05%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                5.1      0.3736 ug/L       0.13240      0.3736 ppb        0.13240  35.44%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         8.0      2.3281 ug/L       3.67720      2.3281 ppb        3.67720 157.95%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -4.4     -0.1128 ug/L       0.26642     -0.1128 ppb        0.26642 236.13%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -5.5     -3.3097 ug/L       4.12682     -3.3097 ppb        4.12682 124.69%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               16.6      2.0573 ug/L       1.25911      2.0573 ppb        1.25911  61.20%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.6      2.3372 ug/L       2.69853      2.3372 ppb        2.69853 115.46%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                8.2      2.8719 ug/L       2.72582      2.8719 ppb        2.72582  94.91%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -4.2     -2.6929 ug/L       3.29565     -2.6929 ppb        3.29565 122.38%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                9.9      0.3133 ug/L       0.39653      0.3133 ppb        0.39653 126.58%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                7.4      1.3392 ug/L       1.63364      1.3392 ppb        1.63364 121.99%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                7.8      0.0515 ug/L       0.05363      0.0515 ppb        0.05363 104.14%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -168.0     -0.2469 ug/L       0.04249     -0.2469 ppb        0.04249  17.21%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                4.8      1.5281 ug/L       2.07674      1.5281 ppb        2.07674 135.90%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                99.1      2.6750 ug/L       2.91105      2.6750 ppb        2.91105 108.82%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -25.4     -0.1714 ug/L       0.66313     -0.1714 ppb        0.66313 387.00%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               30.9      0.3077 ug/L       0.03736      0.3077 ppb        0.03736  12.14%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     23.1      1.5740 ug/L       0.59316      1.5740 ppb        0.59316  37.68%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 3
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/23/2010 13:03:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4219.4	4219.4	99.2	%			13:05:39
1	Y RADIAL	4634.2	4634.2	98.77	%			13:05:39
1	Al 396.153Radial†	5242.9	5396.1	4862.6	ug/L	4862.6	ppb	13:05:39
1	Ca 317.933Radial†	2490.8	2495.5	4965.0	ug/L	4965.0	ppb	13:05:59
1	Fe 238.204 Radial†	378.9	371.8	4805.3	ug/L	4805.3	ppb	13:05:59
1	K 766.490 Radial†	28685.2	26360.8	4925.6	ug/L	4925.6	ppb	13:05:39
1	Mg 279.077 IEC†	116.6	114.8	5217.0	ug/L	5217.0	ppb	13:05:59
1	Na 589.592 Radial†	31612.9	32609.4	9463.4	ug/L	9463.4	ppb	13:05:39
1	Sr 421.552†	71826.2	72371.3	479.63	ug/L	479.63	ppb	13:05:39
1	Sc 361.383	907508.6	907508.6	100.83	%			13:06:57
1	Y 371.029	754725.7	754725.7	98.988	%			13:06:57
1	Ag 328.068†	110364.0	109229.3	504.65	ug/L	504.65	ppb	13:07:02
1	As 188.979†	1107.9	1119.3	508.74	ug/L	508.74	ppb	13:07:22
1	B 249.677†	20418.8	20624.2	489.97	ug/L	489.97	ppb	13:07:02
1	Ba 233.527†	65027.7	64503.3	505.08	ug/L	505.08	ppb	13:07:02
1	Be 313.107†	1323657.5	1316651.2	491.80	ug/L	491.80	ppb	13:06:57
1	Cd 226.502†	44210.1	44030.7	510.99	ug/L	510.99	ppb	13:07:02
1	Co 228.616†	24527.2	24387.9	509.98	ug/L	509.98	ppb	13:07:02
1	Cr 267.716†	45261.6	44824.2	503.71	ug/L	503.71	ppb	13:07:02
1	Cu 324.752†	171538.3	164053.8	492.62	ug/L	492.62	ppb	13:07:02
1	Mn 257.610†	445764.0	441670.0	495.45	ug/L	495.45	ppb	13:06:57
1	Mo 202.031†	6932.1	6869.2	503.14	ug/L	503.14	ppb	13:07:22
1	Ni 231.604†	20225.6	20007.3	508.24	ug/L	508.24	ppb	13:07:02
1	P 214.914†	4408.3	4170.1	2434.7	ug/L	2434.7	ppb	13:07:22
1	Pb 220.353†	4056.6	4088.3	508.11	ug/L	508.11	ppb	13:07:22
1	S 181.975 Axial†	751.1	707.9	1036.1	ug/L	1036.1	ppb	13:07:22
1	Sb 206.836†	1476.4	1427.6	515.85	ug/L	515.85	ppb	13:07:22
1	Se 196.026†	756.5	771.0	524.76	ug/L	524.76	ppb	13:07:22
1	Si 251.611†	79408.0	78222.3	2503.2	ug/L	2503.2	ppb	13:07:02
1	Sn 189.927†	2848.4	2814.6	509.79	ug/L	509.79	ppb	13:07:22
1	Ti 334.940†	326208.7	324814.2	491.11	ug/L	491.11	ppb	13:06:57
1	Tl 190.801†	1542.6	1561.2	504.26	ug/L	504.26	ppb	13:07:22
1	U 409.014†	15171.6	17863.4	481.01	ug/L	481.01	ppb	13:07:02
1	V 292.402†	70842.4	71691.7	504.45	ug/L	504.45	ppb	13:07:02
1	Zn 213.857†	51468.8	50488.8	501.99	ug/L	501.99	ppb	13:07:02
1	SiO2†	79473.9	78270.3	5364.1	ug/L	5364.1	ppb	13:08:30
2	Sc Radial	4042.0	4042.0	95.0	%			13:06:04
2	Y RADIAL	4421.1	4421.1	94.23	%			13:06:04
2	Al 396.153Radial†	5224.5	5608.7	5055.3	ug/L	5055.3	ppb	13:06:04
2	Ca 317.933Radial†	2490.6	2605.4	5183.8	ug/L	5183.8	ppb	13:06:24
2	Fe 238.204 Radial†	382.1	391.9	5064.2	ug/L	5064.2	ppb	13:06:24
2	K 766.490 Radial†	28547.1	27484.4	5135.6	ug/L	5135.6	ppb	13:06:04
2	Mg 279.077 IEC†	111.9	115.0	5226.4	ug/L	5226.4	ppb	13:06:24
2	Na 589.592 Radial†	31428.5	33813.6	9812.8	ug/L	9812.8	ppb	13:06:04
2	Sr 421.552†	71309.0	75004.2	497.08	ug/L	497.08	ppb	13:06:04
2	Sc 361.383	920688.8	920688.8	102.29	%			13:07:28
2	Y 371.029	766081.7	766081.7	100.48	%			13:07:28
2	Ag 328.068†	109579.9	106895.7	493.97	ug/L	493.97	ppb	13:07:33
2	As 188.979†	1113.1	1108.7	503.99	ug/L	503.99	ppb	13:07:53
2	B 249.677†	20234.4	20154.0	478.75	ug/L	478.75	ppb	13:07:33
2	Ba 233.527†	64419.0	62985.0	493.20	ug/L	493.20	ppb	13:07:33
2	Be 313.107†	1342856.8	1316626.8	491.78	ug/L	491.78	ppb	13:07:28
2	Cd 226.502†	43866.9	43067.5	499.78	ug/L	499.78	ppb	13:07:33
2	Co 228.616†	24207.5	23727.1	496.16	ug/L	496.16	ppb	13:07:33
2	Cr 267.716†	44984.5	43910.8	493.48	ug/L	493.48	ppb	13:07:33
2	Cu 324.752†	170284.7	160392.8	481.65	ug/L	481.65	ppb	13:07:33
2	Mn 257.610†	450123.6	439602.9	493.16	ug/L	493.16	ppb	13:07:28
2	Mo 202.031†	6984.9	6822.4	499.73	ug/L	499.73	ppb	13:07:53
2	Ni 231.604†	20132.8	19629.4	498.64	ug/L	498.64	ppb	13:07:33

2	P 214.914†	4450.8	4149.0	2423.8	ug/L	2423.8 ppb	13:07:53
2	Pb 220.353†	4082.6	4056.2	504.14	ug/L	504.14 ppb	13:07:53
2	S 181.975 Axial†	748.7	694.9	1017.1	ug/L	1017.1 ppb	13:07:53
2	Sb 206.836†	1504.8	1434.4	518.05	ug/L	518.05 ppb	13:07:53
2	Se 196.026†	763.5	767.1	523.01	ug/L	523.01 ppb	13:07:53
2	Si 251.611†	78723.9	76426.1	2445.6	ug/L	2445.6 ppb	13:07:33
2	Sn 189.927†	2862.0	2787.5	504.91	ug/L	504.91 ppb	13:07:53
2	Ti 334.940†	330062.0	323949.7	489.83	ug/L	489.83 ppb	13:07:28
2	Tl 190.801†	1556.9	1553.3	501.79	ug/L	501.79 ppb	13:07:53
2	U 409.014†	15159.8	17636.5	474.87	ug/L	474.87 ppb	13:07:33
2	V 292.402†	70374.4	70228.2	494.20	ug/L	494.20 ppb	13:07:33
2	Zn 213.857†	51136.9	49433.7	491.44	ug/L	491.44 ppb	13:07:33
2	SiO2†	78201.6	75898.2	5201.3	ug/L	5201.3 ppb	13:08:35
3	Sc Radial	4056.7	4056.7	95.4	%		13:06:29
3	Y RADIAL	4416.3	4416.3	94.12	%		13:06:29
3	Al 396.153Radial†	5251.7	5617.3	5063.0	ug/L	5063.0 ppb	13:06:29
3	Ca 317.933Radial†	2471.4	2575.8	5124.8	ug/L	5124.8 ppb	13:06:49
3	Fe 238.204 Radial†	382.5	390.9	5051.0	ug/L	5051.0 ppb	13:06:49
3	K 766.490 Radial†	28612.5	27444.0	5128.1	ug/L	5128.1 ppb	13:06:29
3	Mg 279.077 IEC†	110.1	112.7	5121.9	ug/L	5121.9 ppb	13:06:49
3	Na 589.592 Radial†	31482.6	33750.5	9794.5	ug/L	9794.5 ppb	13:06:29
3	Sr 421.552†	71295.1	74717.5	495.18	ug/L	495.18 ppb	13:06:29
3	Sc 361.383	912366.2	912366.2	101.37	%		13:07:59
3	Y 371.029	759091.1	759091.1	99.560	%		13:07:59
3	Ag 328.068†	110020.7	108307.8	500.47	ug/L	500.47 ppb	13:08:04
3	As 188.979†	1112.8	1118.3	508.34	ug/L	508.34 ppb	13:08:25
3	B 249.677†	20375.2	20473.4	486.35	ug/L	486.35 ppb	13:08:04
3	Ba 233.527†	64834.9	63969.7	500.91	ug/L	500.91 ppb	13:08:04
3	Be 313.107†	1331914.2	1317807.0	492.23	ug/L	492.23 ppb	13:07:59
3	Cd 226.502†	44101.1	43689.7	507.01	ug/L	507.01 ppb	13:08:04
3	Co 228.616†	24346.6	24080.2	503.54	ug/L	503.54 ppb	13:08:04
3	Cr 267.716†	45107.6	44433.3	499.34	ug/L	499.34 ppb	13:08:04
3	Cu 324.752†	171118.6	162734.0	488.68	ug/L	488.68 ppb	13:08:04
3	Mn 257.610†	447370.6	440901.1	494.62	ug/L	494.62 ppb	13:07:59
3	Mo 202.031†	6943.0	6843.3	501.27	ug/L	501.27 ppb	13:08:25
3	Ni 231.604†	20177.7	19853.3	504.33	ug/L	504.33 ppb	13:08:04
3	P 214.914†	4415.1	4153.5	2425.2	ug/L	2425.2 ppb	13:08:25
3	Pb 220.353†	4068.9	4079.1	506.98	ug/L	506.98 ppb	13:08:25
3	S 181.975 Axial†	740.6	693.6	1015.2	ug/L	1015.2 ppb	13:08:25
3	Sb 206.836†	1482.2	1425.6	515.03	ug/L	515.03 ppb	13:08:25
3	Se 196.026†	745.6	756.3	515.84	ug/L	515.84 ppb	13:08:25
3	Si 251.611†	79272.4	77669.3	2485.5	ug/L	2485.5 ppb	13:08:04
3	Sn 189.927†	2843.2	2794.4	506.16	ug/L	506.16 ppb	13:08:25
3	Ti 334.940†	327405.4	324272.2	490.32	ug/L	490.32 ppb	13:07:59
3	Tl 190.801†	1557.9	1568.1	506.53	ug/L	506.53 ppb	13:08:25
3	U 409.014†	15147.8	17759.8	478.19	ug/L	478.19 ppb	13:08:04
3	V 292.402†	70542.3	71021.5	499.73	ug/L	499.73 ppb	13:08:04
3	Zn 213.857†	51362.8	50112.5	498.21	ug/L	498.21 ppb	13:08:04
3	SiO2†	80483.7	78846.9	5403.8	ug/L	5403.8 ppb	13:08:40

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	913521.2	101.50	%	0.741				0.73%
Sc Radial	4106.0	96.5	%	2.31				2.40%
Y 371.029	759966.1	99.675	%	0.7513				0.75%
Y RADIAL	4490.6	95.71	%	2.652				2.77%
Ag 328.068†	108144.3	499.70	ug/L	5.380	499.70	ppb	5.380	1.08%
QC value within limits for Ag 328.068 Recovery = 99.94%								
Al 396.153Radial†	5540.7	4993.6	ug/L	113.52	4993.6	ppb	113.52	2.27%
QC value within limits for Al 396.153Radial Recovery = 99.87%								
As 188.979†	1115.5	507.02	ug/L	2.635	507.02	ppb	2.635	0.52%
QC value within limits for As 188.979 Recovery = 101.40%								
B 249.677†	20417.2	485.02	ug/L	5.728	485.02	ppb	5.728	1.18%
QC value within limits for B 249.677 Recovery = 97.00%								
Ba 233.527†	63819.3	499.73	ug/L	6.024	499.73	ppb	6.024	1.21%
QC value within limits for Ba 233.527 Recovery = 99.95%								
Be 313.107†	1317028.3	491.94	ug/L	0.251	491.94	ppb	0.251	0.05%
QC value within limits for Be 313.107 Recovery = 98.39%								
Ca 317.933Radial†	2558.9	5091.2	ug/L	113.17	5091.2	ppb	113.17	2.22%

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   QC value within limits for Ca 317.933Radial  Recovery = 101.82%
Cd 226.502†            43596.0      505.93 ug/L         5.685      505.93 ppb          5.685   1.12%
   QC value within limits for Cd 226.502  Recovery = 101.19%
Co 228.616†            24065.1      503.23 ug/L         6.919      503.23 ppb          6.919   1.37%
   QC value within limits for Co 228.616  Recovery = 100.65%
Cr 267.716†            44389.4      498.84 ug/L         5.135      498.84 ppb          5.135   1.03%
   QC value within limits for Cr 267.716  Recovery = 99.77%
Cu 324.752†           162393.5      487.65 ug/L         5.560      487.65 ppb          5.560   1.14%
   QC value within limits for Cu 324.752  Recovery = 97.53%
Fe 238.204 Radial†       384.9      4973.5 ug/L        145.77      4973.5 ppb         145.77   2.93%
   QC value within limits for Fe 238.204 Radial  Recovery = 99.47%
K 766.490 Radial†      27096.4      5063.1 ug/L        119.13      5063.1 ppb         119.13   2.35%
   QC value within limits for K 766.490 Radial  Recovery = 101.26%
Mg 279.077 IEC†          114.2      5188.5 ug/L         57.80      5188.5 ppb          57.80   1.11%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.77%
Mn 257.610†           440724.7      494.41 ug/L         1.160      494.41 ppb          1.160   0.23%
   QC value within limits for Mn 257.610  Recovery = 98.88%
Mo 202.031†             6845.0      501.38 ug/L         1.704      501.38 ppb          1.704   0.34%
   QC value within limits for Mo 202.031  Recovery = 100.28%
Na 589.592 Radial†     33391.2      9690.2 ug/L        196.69      9690.2 ppb         196.69   2.03%
   QC value within limits for Na 589.592 Radial  Recovery = 96.90%
Ni 231.604†            19830.0      503.73 ug/L         4.826      503.73 ppb          4.826   0.96%
   QC value within limits for Ni 231.604  Recovery = 100.75%
P 214.914†              4157.5      2427.9 ug/L          5.89      2427.9 ppb           5.89   0.24%
   QC value within limits for P 214.914  Recovery = 97.12%
Pb 220.353†             4074.5      506.41 ug/L         2.045      506.41 ppb          2.045   0.40%
   QC value within limits for Pb 220.353  Recovery = 101.28%
S 181.975 Axial†         698.8      1022.8 ug/L         11.59      1022.8 ppb          11.59   1.13%
   QC value within limits for S 181.975 Axial  Recovery = 102.28%
Sb 206.836†             1429.2      516.31 ug/L         1.562      516.31 ppb          1.562   0.30%
   QC value within limits for Sb 206.836  Recovery = 103.26%
Se 196.026†              764.8      521.20 ug/L         4.725      521.20 ppb          4.725   0.91%
   QC value within limits for Se 196.026  Recovery = 104.24%
Si 251.611†            77439.3      2478.1 ug/L         29.49      2478.1 ppb          29.49   1.19%
   QC value within limits for Si 251.611  Recovery = 99.12%
Sn 189.927†             2798.8      506.96 ug/L         2.535      506.96 ppb          2.535   0.50%
   QC value within limits for Sn 189.927  Recovery = 101.39%
Sr 421.552†            74031.0      490.63 ug/L         9.573      490.63 ppb          9.573   1.95%
   QC value within limits for Sr 421.552  Recovery = 98.13%
Ti 334.940†           324345.4      490.42 ug/L         0.642      490.42 ppb          0.642   0.13%
   QC value within limits for Ti 334.940  Recovery = 98.08%
Tl 190.801†             1560.8      504.19 ug/L         2.371      504.19 ppb          2.371   0.47%
   QC value within limits for Tl 190.801  Recovery = 100.84%
U 409.014†             17753.2      478.03 ug/L         3.072      478.03 ppb          3.072   0.64%
   QC value within limits for U 409.014  Recovery = 95.61%
V 292.402†             70980.5      499.46 ug/L         5.132      499.46 ppb          5.132   1.03%
   QC value within limits for V 292.402  Recovery = 99.89%
Zn 213.857†            50011.7      497.21 ug/L         5.345      497.21 ppb          5.345   1.08%
   QC value within limits for Zn 213.857  Recovery = 99.44%
SiO2†                  77671.8      5323.1 ug/L        107.35      5323.1 ppb         107.35   2.02%
   QC value within limits for SiO2  Recovery = 99.54%
All analyte(s) passed QC.
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Sequence No.: 4
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/23/2010 13:10:51
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	4372.5	4372.5	103	%			13:12:43
1	Y RADIAL	4827.5	4827.5	102.9	%			13:12:43
1	Al 396.153Radial†	-118.5	-4.5	-4.0590	ug/L	-4.0590	ppb	13:12:43
1	Ca 317.933Radial†	19.9	3.9	7.7435	ug/L	7.7435	ppb	13:13:03
1	Fe 238.204 Radial†	11.2	0.7	9.0474	ug/L	9.0474	ppb	13:13:03
1	K 766.490 Radial†	2650.7	21.8	4.0676	ug/L	4.0676	ppb	13:12:43
1	Mg 279.077 IEC†	0.9	-1.9	-86.589	ug/L	-86.589	ppb	13:13:03
1	Na 589.592 Radial†	-745.9	14.7	4.2694	ug/L	4.2694	ppb	13:12:43
1	Sr 421.552†	7.3	-29.7	-0.1966	ug/L	-0.1966	ppb	13:12:43
1	Sc 361.383	918906.0	918906.0	102.09	%			13:14:00
1	Y 371.029	776503.0	776503.0	101.84	%			13:14:00
1	Ag 328.068†	211.0	-22.7	-0.1032	ug/L	-0.1032	ppb	13:14:05
1	As 188.979†	-19.0	1.9	0.8549	ug/L	0.8549	ppb	13:14:25
1	B 249.677†	-398.6	-17.5	-0.4190	ug/L	-0.4190	ppb	13:14:25
1	Ba 233.527†	15.1	23.9	0.1867	ug/L	0.1867	ppb	13:14:25
1	Be 313.107†	-3826.1	105.7	0.0387	ug/L	0.0387	ppb	13:14:05
1	Cd 226.502†	-188.9	-1.7	-0.0209	ug/L	-0.0209	ppb	13:14:25
1	Co 228.616†	-69.4	-6.0	-0.1258	ug/L	-0.1258	ppb	13:14:25
1	Cr 267.716†	94.1	26.2	0.2941	ug/L	0.2941	ppb	13:14:25
1	Cu 324.752†	6102.8	-99.4	-0.2991	ug/L	-0.2991	ppb	13:14:05
1	Mn 257.610†	467.9	21.4	0.0285	ug/L	0.0285	ppb	13:14:25
1	Mo 202.031†	7.3	1.1	0.0804	ug/L	0.0804	ppb	13:14:25
1	Ni 231.604†	51.2	-2.2	-0.0561	ug/L	-0.0561	ppb	13:14:25
1	P 214.914†	208.7	2.4	1.5147	ug/L	1.5147	ppb	13:14:25
1	Pb 220.353†	-42.6	23.3	2.8812	ug/L	2.8812	ppb	13:14:25
1	S 181.975 Axial†	41.0	3.1	4.5342	ug/L	4.5342	ppb	13:14:25
1	Sb 206.836†	37.5	0.0	0.0098	ug/L	0.0098	ppb	13:14:25
1	Se 196.026†	-20.3	0.9	0.5896	ug/L	0.5896	ppb	13:14:25
1	Si 251.611†	533.9	-11.2	-0.3615	ug/L	-0.3615	ppb	13:14:25
1	Sn 189.927†	8.1	-2.5	-0.4586	ug/L	-0.4586	ppb	13:14:25
1	Ti 334.940†	-1502.8	-190.2	-0.2805	ug/L	-0.2805	ppb	13:14:05
1	Tl 190.801†	-28.3	3.5	1.1147	ug/L	1.1147	ppb	13:14:25
1	U 409.014†	-2806.2	67.6	1.8262	ug/L	1.8262	ppb	13:14:00
1	V 292.402†	-1469.1	-8.6	-0.0577	ug/L	-0.0577	ppb	13:14:05
1	Zn 213.857†	615.3	45.0	0.4506	ug/L	0.4506	ppb	13:14:25
1	SiO2†	551.9	-10.9	-0.7502	ug/L	-0.7502	ppb	13:15:31
2	Sc Radial	4130.3	4130.3	97.1	%			13:13:08
2	Y RADIAL	4597.7	4597.7	97.99	%			13:13:08
2	Al 396.153Radial†	-106.4	1.2	1.1175	ug/L	1.1175	ppb	13:13:08
2	Ca 317.933Radial†	25.1	10.4	20.710	ug/L	20.710	ppb	13:13:28
2	Fe 238.204 Radial†	8.3	-1.6	-20.960	ug/L	-20.960	ppb	13:13:28
2	K 766.490 Radial†	2749.2	274.5	51.341	ug/L	51.341	ppb	13:13:08
2	Mg 279.077 IEC†	-2.7	-5.5	-251.86	ug/L	-251.86	ppb	13:13:28
2	Na 589.592 Radial†	-729.6	-11.0	-3.1879	ug/L	-3.1879	ppb	13:13:08
2	Sr 421.552†	43.3	7.8	0.0513	ug/L	0.0513	ppb	13:13:08
2	Sc 361.383	933569.4	933569.4	103.72	%			13:14:30
2	Y 371.029	788435.0	788435.0	103.41	%			13:14:30
2	Ag 328.068†	328.7	87.6	0.3897	ug/L	0.3897	ppb	13:14:35
2	As 188.979†	-19.7	1.5	0.6646	ug/L	0.6646	ppb	13:14:56
2	B 249.677†	-404.4	-16.9	-0.3999	ug/L	-0.3999	ppb	13:14:56
2	Ba 233.527†	12.6	21.3	0.1654	ug/L	0.1654	ppb	13:14:56
2	Be 313.107†	-3842.7	148.5	0.0551	ug/L	0.0551	ppb	13:14:35
2	Cd 226.502†	-175.6	14.0	0.1665	ug/L	0.1665	ppb	13:14:56
2	Co 228.616†	-61.3	2.9	0.0605	ug/L	0.0605	ppb	13:14:56
2	Cr 267.716†	75.6	6.9	0.0728	ug/L	0.0728	ppb	13:14:56
2	Cu 324.752†	6183.2	-115.9	-0.3526	ug/L	-0.3526	ppb	13:14:35
2	Mn 257.610†	460.2	6.9	0.0159	ug/L	0.0159	ppb	13:14:56
2	Mo 202.031†	7.3	1.0	0.0702	ug/L	0.0702	ppb	13:14:56
2	Ni 231.604†	67.3	12.5	0.3183	ug/L	0.3183	ppb	13:14:56

2	P 214.914†	214.1	4.4	2.7666	ug/L	2.7666 ppb	13:14:56
2	Pb 220.353†	-69.2	-1.7	-0.2115	ug/L	-0.2115 ppb	13:14:56
2	S 181.975 Axial†	48.3	9.5	13.938	ug/L	13.938 ppb	13:14:56
2	Sb 206.836†	43.8	5.5	1.9375	ug/L	1.9375 ppb	13:14:56
2	Se 196.026†	-30.3	-8.5	-5.6950	ug/L	-5.6950 ppb	13:14:56
2	Si 251.611†	554.2	0.2	0.0044	ug/L	0.0044 ppb	13:14:56
2	Sn 189.927†	15.9	4.9	0.8940	ug/L	0.8940 ppb	13:14:56
2	Ti 334.940†	-1412.8	-80.3	-0.1009	ug/L	-0.1009 ppb	13:14:35
2	Tl 190.801†	-30.1	2.2	0.6969	ug/L	0.6969 ppb	13:14:56
2	U 409.014†	-2672.1	240.0	6.4877	ug/L	6.4877 ppb	13:14:30
2	V 292.402†	-1504.2	-19.8	-0.1257	ug/L	-0.1257 ppb	13:14:35
2	Zn 213.857†	617.2	37.3	0.3762	ug/L	0.3762 ppb	13:14:56
2	SiO2†	566.5	-5.3	-0.3656	ug/L	-0.3656 ppb	13:15:36
3	Sc Radial	4238.8	4238.8	99.7	%		13:13:34
3	Y RADIAL	4679.3	4679.3	99.73	%		13:13:34
3	Al 396.153Radial†	-122.1	-11.7	-10.658	ug/L	-10.658 ppb	13:13:34
3	Ca 317.933Radial†	18.6	3.2	6.3833	ug/L	6.3833 ppb	13:13:54
3	Fe 238.204 Radial†	11.0	0.8	10.666	ug/L	10.666 ppb	13:13:54
3	K 766.490 Radial†	2703.5	156.2	29.204	ug/L	29.204 ppb	13:13:34
3	Mg 279.077 IEC†	4.3	1.6	70.715	ug/L	70.715 ppb	13:13:54
3	Na 589.592 Radial†	-666.6	71.5	20.739	ug/L	20.739 ppb	13:13:34
3	Sr 421.552†	13.3	-23.4	-0.1553	ug/L	-0.1553 ppb	13:13:34
3	Sc 361.383	911379.9	911379.9	101.26	%		13:15:01
3	Y 371.029	769704.0	769704.0	100.95	%		13:15:01
3	Ag 328.068†	169.0	-62.4	-0.2871	ug/L	-0.2871 ppb	13:15:06
3	As 188.979†	-24.4	-3.6	-1.6037	ug/L	-1.6037 ppb	13:15:26
3	B 249.677†	-404.4	-26.4	-0.6313	ug/L	-0.6313 ppb	13:15:26
3	Ba 233.527†	4.8	13.8	0.1070	ug/L	0.1070 ppb	13:15:26
3	Be 313.107†	-3844.9	56.1	0.0206	ug/L	0.0206 ppb	13:15:06
3	Cd 226.502†	-179.8	5.7	0.0655	ug/L	0.0655 ppb	13:15:26
3	Co 228.616†	-66.1	-3.4	-0.0698	ug/L	-0.0698 ppb	13:15:26
3	Cr 267.716†	72.9	6.0	0.0671	ug/L	0.0671 ppb	13:15:26
3	Cu 324.752†	6219.2	64.8	0.1946	ug/L	0.1946 ppb	13:15:06
3	Mn 257.610†	456.5	13.9	0.0138	ug/L	0.0138 ppb	13:15:26
3	Mo 202.031†	11.2	5.0	0.3667	ug/L	0.3667 ppb	13:15:26
3	Ni 231.604†	53.0	0.1	0.0014	ug/L	0.0014 ppb	13:15:26
3	P 214.914†	217.5	12.7	7.6748	ug/L	7.6748 ppb	13:15:26
3	Pb 220.353†	-52.7	13.0	1.6032	ug/L	1.6032 ppb	13:15:26
3	S 181.975 Axial†	37.6	0.1	0.1845	ug/L	0.1845 ppb	13:15:26
3	Sb 206.836†	48.6	11.3	3.9619	ug/L	3.9619 ppb	13:15:26
3	Se 196.026†	-25.2	-4.2	-2.7191	ug/L	-2.7191 ppb	13:15:26
3	Si 251.611†	536.6	-4.2	-0.1396	ug/L	-0.1396 ppb	13:15:26
3	Sn 189.927†	11.8	1.3	0.2275	ug/L	0.2275 ppb	13:15:26
3	Ti 334.940†	-1389.7	-90.6	-0.1425	ug/L	-0.1425 ppb	13:15:06
3	Tl 190.801†	-39.9	-8.2	-2.6184	ug/L	-2.6184 ppb	13:15:26
3	U 409.014†	-2805.6	45.5	1.2290	ug/L	1.2290 ppb	13:15:01
3	V 292.402†	-1548.2	-98.5	-0.6764	ug/L	-0.6764 ppb	13:15:06
3	Zn 213.857†	617.5	52.1	0.5210	ug/L	0.5210 ppb	13:15:26
3	SiO2†	566.7	8.1	0.5488	ug/L	0.5488 ppb	13:15:41

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	921285.1	102.36	%	1.254				1.22%
Sc Radial	4247.2	99.9	%	2.85				2.86%
Y 371.029	778214.0	102.07	%	1.244				1.22%
Y RADIAL	4701.5	100.2	%	2.48				2.48%
Ag 328.068†	0.8	-0.0002	ug/L	0.34994	-0.0002	ppb	0.34994	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-5.0	-4.5332	ug/L	5.90208	-4.5332	ppb	5.90208	130.20%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.1	-0.0281	ug/L	1.36788	-0.0281	ppb	1.36788	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-20.3	-0.4834	ug/L	0.12844	-0.4834	ppb	0.12844	26.57%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	19.7	0.1531	ug/L	0.04129	0.1531	ppb	0.04129	26.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	103.4	0.0381	ug/L	0.01724	0.0381	ppb	0.01724	45.21%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.8	11.612	ug/L	7.9084	11.612	ppb	7.9084	68.10%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                6.0      0.0704 ug/L       0.09377      0.0704 ppb        0.09377 133.24%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               -2.2     -0.0450 ug/L       0.09560     -0.0450 ppb        0.09560 212.45%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               13.1      0.1447 ug/L       0.12947      0.1447 ppb        0.12947  89.49%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -50.2     -0.1524 ug/L       0.30168     -0.1524 ppb        0.30168 197.97%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.0     -0.4156 ug/L      17.81049     -0.4156 ppb       17.81049 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        150.8      28.204 ug/L       23.6523      28.204 ppb        23.6523  83.86%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.0     -89.246 ug/L      161.3061     -89.246 ppb       161.3061 180.74%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               14.1      0.0194 ug/L       0.00793      0.0194 ppb        0.00793  40.89%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                2.4      0.1724 ug/L       0.16834      0.1724 ppb        0.16834  97.63%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        25.1      7.2736 ug/L      12.24325      7.2736 ppb       12.24325 168.32%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                3.5      0.0879 ug/L       0.20158      0.0879 ppb        0.20158 229.36%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 6.5      3.9854 ug/L       3.25586      3.9854 ppb        3.25586  81.70%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               11.5      1.4243 ug/L       1.55408      1.4243 ppb        1.55408 109.11%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           4.2      6.2189 ug/L       7.02971      6.2189 ppb        7.02971 113.04%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                5.6      1.9697 ug/L       1.97625      1.9697 ppb        1.97625 100.33%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -4.0     -2.6082 ug/L       3.14377     -2.6082 ppb        3.14377 120.53%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               -5.1     -0.1656 ug/L       0.18435     -0.1656 ppb        0.18435 111.33%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                1.2      0.2209 ug/L       0.67629      0.2209 ppb        0.67629 306.09%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -15.1     -0.1002 ug/L       0.13280     -0.1002 ppb        0.13280 132.51%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -120.4     -0.1746 ug/L       0.09397     -0.1746 ppb        0.09397  53.81%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -0.8     -0.2689 ug/L       2.04540     -0.2689 ppb        2.04540 760.55%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               117.7      3.1810 ug/L       2.87926      3.1810 ppb        2.87926  90.51%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -42.3     -0.2866 ug/L       0.33929     -0.2866 ppb        0.33929 118.39%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               44.8      0.4492 ug/L       0.07242      0.4492 ppb        0.07242  16.12%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     -2.7     -0.1890 ug/L       0.66725     -0.1890 ppb        0.66725 352.98%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
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Analysis Begun

Start Time: 2/23/2010 14:04:56 **Plasma On Time:** 2/22/2010 05:55:10
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\022310B.sif
Batch ID:
Results Data Set: 022310A
Results Library: C:\pe\Optima3\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location:** 7
Sample ID: CCV **Date Collected:** 2/23/2010 14:04:57
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.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3971.4	3971.4	93.4	%			14:07:09
1	Y RADIAL	4487.7	4487.7	95.64	%			14:06:49
1	Al 396.153Radial†	5306.8	5794.6	5223.5	ug/L	5223.5	ppb	14:06:49
1	Ca 317.933Radial†	2539.4	2704.4	5380.7	ug/L	5380.7	ppb	14:07:09
1	Fe 238.204 Radial†	393.3	411.1	5311.3	ug/L	5311.3	ppb	14:07:09
1	K 766.490 Radial†	28933.8	28432.8	5312.7	ug/L	5312.7	ppb	14:06:49
1	Mg 279.077 IEC†	114.2	119.6	5434.6	ug/L	5434.6	ppb	14:07:09
1	Na 589.592 Radial†	33562.3	36687.3	10647	ug/L	10647	ppb	14:06:49
1	Sr 421.552†	73917.1	79132.3	524.44	ug/L	524.44	ppb	14:06:49
1	Sc 361.383	914094.0	914094.0	101.56	%			14:08:06
1	Y 371.029	759983.4	759983.4	99.678	%			14:08:06
1	Ag 328.068†	110716.4	108787.7	502.76	ug/L	502.76	ppb	14:08:11
1	As 188.979†	1115.1	1118.5	508.42	ug/L	508.42	ppb	14:08:31
1	B 249.677†	20401.1	20460.9	486.00	ug/L	486.00	ppb	14:08:11
1	Ba 233.527†	65269.6	64276.9	503.32	ug/L	503.32	ppb	14:08:11
1	Be 313.107†	1352259.2	1335356.0	498.75	ug/L	498.75	ppb	14:08:06
1	Cd 226.502†	44339.1	43841.8	508.75	ug/L	508.75	ppb	14:08:11
1	Co 228.616†	24520.3	24205.8	506.18	ug/L	506.18	ppb	14:08:11
1	Cr 267.716†	45502.0	44737.5	502.78	ug/L	502.78	ppb	14:08:11
1	Cu 324.752†	172499.6	163774.7	491.81	ug/L	491.81	ppb	14:08:11
1	Mn 257.610†	454473.9	447061.1	501.54	ug/L	501.54	ppb	14:08:06
1	Mo 202.031†	6970.2	6857.1	502.30	ug/L	502.30	ppb	14:08:31
1	Ni 231.604†	20295.5	19931.7	506.32	ug/L	506.32	ppb	14:08:11
1	P 214.914†	4456.6	4186.2	2444.3	ug/L	2444.3	ppb	14:08:31
1	Pb 220.353†	4052.3	4055.2	504.02	ug/L	504.02	ppb	14:08:31
1	S 181.975 Axial†	750.5	701.9	1027.3	ug/L	1027.3	ppb	14:08:31
1	Sb 206.836†	1509.6	1449.7	523.51	ug/L	523.51	ppb	14:08:31
1	Se 196.026†	757.6	766.7	523.53	ug/L	523.53	ppb	14:08:31
1	Si 251.611†	79832.4	78072.8	2498.4	ug/L	2498.4	ppb	14:08:11
1	Sn 189.927†	2857.3	2803.0	507.74	ug/L	507.74	ppb	14:08:31
1	Ti 334.940†	324558.1	320858.1	485.16	ug/L	485.16	ppb	14:08:11
1	Tl 190.801†	1560.2	1567.5	506.30	ug/L	506.30	ppb	14:08:31
1	U 409.014†	15448.0	18027.1	485.38	ug/L	485.38	ppb	14:08:11
1	V 292.402†	71182.5	71520.3	503.19	ug/L	503.19	ppb	14:08:11
1	Zn 213.857†	51722.2	50370.6	500.74	ug/L	500.74	ppb	14:08:11
1	SiO2†	78952.9	77189.5	5289.9	ug/L	5289.9	ppb	14:09:39
2	Sc Radial	3957.6	3957.6	93.0	%			14:07:34
2	Y RADIAL	4411.2	4411.2	94.01	%			14:07:14
2	Al 396.153Radial†	5195.9	5695.2	5133.3	ug/L	5133.3	ppb	14:07:14
2	Ca 317.933Radial†	2518.0	2690.8	5353.5	ug/L	5353.5	ppb	14:07:34
2	Fe 238.204 Radial†	393.7	413.0	5335.6	ug/L	5335.6	ppb	14:07:34
2	K 766.490 Radial†	28366.0	27930.4	5218.8	ug/L	5218.8	ppb	14:07:14
2	Mg 279.077 IEC†	114.0	119.7	5441.2	ug/L	5441.2	ppb	14:07:34
2	Na 589.592 Radial†	32484.4	35653.8	10347	ug/L	10347	ppb	14:07:14
2	Sr 421.552†	72022.4	77371.1	512.77	ug/L	512.77	ppb	14:07:14
2	Sc 361.383	910791.4	910791.4	101.19	%			14:08:37
2	Y 371.029	757662.9	757662.9	99.373	%			14:08:37

2	Ag 328.068†	109694.8	108173.4	499.94 ug/L	499.94 ppb	14:08:42
2	As 188.979†	1129.7	1137.0	516.72 ug/L	516.72 ppb	14:09:02
2	B 249.677†	20047.8	20184.6	479.41 ug/L	479.41 ppb	14:08:42
2	Ba 233.527†	64608.4	63856.5	500.03 ug/L	500.03 ppb	14:08:42
2	Be 313.107†	1347737.4	1335715.6	498.88 ug/L	498.88 ppb	14:08:37
2	Cd 226.502†	43886.6	43553.0	505.39 ug/L	505.39 ppb	14:08:42
2	Co 228.616†	24294.0	24069.7	503.35 ug/L	503.35 ppb	14:08:42
2	Cr 267.716†	45099.4	44502.2	500.14 ug/L	500.14 ppb	14:08:42
2	Cu 324.752†	170318.8	162235.5	487.19 ug/L	487.19 ppb	14:08:42
2	Mn 257.610†	451433.5	445679.2	499.99 ug/L	499.99 ppb	14:08:37
2	Mo 202.031†	6995.1	6906.6	505.92 ug/L	505.92 ppb	14:09:02
2	Ni 231.604†	20212.0	19921.6	506.06 ug/L	506.06 ppb	14:08:42
2	P 214.914†	4450.6	4196.1	2451.2 ug/L	2451.2 ppb	14:09:02
2	Pb 220.353†	4091.9	4108.7	510.65 ug/L	510.65 ppb	14:09:02
2	S 181.975 Axial†	750.5	704.7	1031.3 ug/L	1031.3 ppb	14:09:02
2	Sb 206.836†	1514.2	1459.7	527.18 ug/L	527.18 ppb	14:09:02
2	Se 196.026†	747.7	759.6	518.95 ug/L	518.95 ppb	14:09:02
2	Si 251.611†	78932.0	77468.1	2478.9 ug/L	2478.9 ppb	14:08:42
2	Sn 189.927†	2884.3	2839.9	514.42 ug/L	514.42 ppb	14:09:02
2	Ti 334.940†	321112.0	318611.4	481.76 ug/L	481.76 ppb	14:08:42
2	Tl 190.801†	1561.4	1574.2	508.44 ug/L	508.44 ppb	14:09:02
2	U 409.014†	15142.4	17780.3	478.71 ug/L	478.71 ppb	14:08:42
2	V 292.402†	70461.2	71061.7	500.05 ug/L	500.05 ppb	14:08:42
2	Zn 213.857†	51166.5	50006.1	497.09 ug/L	497.09 ppb	14:08:42
2	SiO2†	78594.8	77117.6	5284.9 ug/L	5284.9 ppb	14:09:44
3	Sc Radial	3942.9	3942.9	92.7 %		14:07:59
3	Y RADIAL	4535.9	4535.9	96.67 %		14:07:39
3	Al 396.153Radial†	5342.9	5874.6	5296.3 ug/L	5296.3 ppb	14:07:39
3	Ca 317.933Radial†	2525.7	2709.2	5390.2 ug/L	5390.2 ppb	14:07:59
3	Fe 238.204 Radial†	393.9	414.7	5358.0 ug/L	5358.0 ppb	14:07:59
3	K 766.490 Radial†	29252.2	29000.1	5418.7 ug/L	5418.7 ppb	14:07:39
3	Mg 279.077 IEC†	118.1	124.7	5666.9 ug/L	5666.9 ppb	14:07:59
3	Na 589.592 Radial†	33802.1	37205.5	10797 ug/L	10797 ppb	14:07:39
3	Sr 421.552†	74499.3	80331.9	532.39 ug/L	532.39 ppb	14:07:39
3	Sc 361.383	925606.5	925606.5	102.84 %		14:09:08
3	Y 371.029	769215.3	769215.3	100.89 %		14:09:08
3	Ag 328.068†	110593.2	107311.9	495.99 ug/L	495.99 ppb	14:09:13
3	As 188.979†	1117.5	1107.2	503.30 ug/L	503.30 ppb	14:09:33
3	B 249.677†	20384.1	20194.5	479.65 ug/L	479.65 ppb	14:09:13
3	Ba 233.527†	65176.5	63387.0	496.36 ug/L	496.36 ppb	14:09:13
3	Be 313.107†	1371389.2	1337397.2	499.50 ug/L	499.50 ppb	14:09:08
3	Cd 226.502†	44441.2	43398.1	503.59 ug/L	503.59 ppb	14:09:13
3	Co 228.616†	24552.1	23936.5	500.54 ug/L	500.54 ppb	14:09:13
3	Cr 267.716†	45490.0	44168.7	496.40 ug/L	496.40 ppb	14:09:13
3	Cu 324.752†	172047.6	161222.6	484.16 ug/L	484.16 ppb	14:09:13
3	Mn 257.610†	459168.9	446060.7	500.41 ug/L	500.41 ppb	14:09:08
3	Mo 202.031†	6956.3	6758.3	495.07 ug/L	495.07 ppb	14:09:33
3	Ni 231.604†	20302.8	19690.2	500.18 ug/L	500.18 ppb	14:09:13
3	P 214.914†	4434.3	4109.9	2399.4 ug/L	2399.4 ppb	14:09:33
3	Pb 220.353†	4078.6	4031.0	501.03 ug/L	501.03 ppb	14:09:33
3	S 181.975 Axial†	747.4	689.8	1009.5 ug/L	1009.5 ppb	14:09:33
3	Sb 206.836†	1501.6	1423.4	514.15 ug/L	514.15 ppb	14:09:33
3	Se 196.026†	750.4	750.4	512.91 ug/L	512.91 ppb	14:09:33
3	Si 251.611†	79726.0	76991.7	2463.8 ug/L	2463.8 ppb	14:09:13
3	Sn 189.927†	2874.4	2784.6	504.42 ug/L	504.42 ppb	14:09:33
3	Ti 334.940†	324431.5	316760.2	478.95 ug/L	478.95 ppb	14:09:13
3	Tl 190.801†	1550.0	1538.5	496.96 ug/L	496.96 ppb	14:09:33
3	U 409.014†	15127.1	17525.9	471.85 ug/L	471.85 ppb	14:09:13
3	V 292.402†	71243.7	70708.1	497.43 ug/L	497.43 ppb	14:09:13
3	Zn 213.857†	51741.8	49756.3	494.62 ug/L	494.62 ppb	14:09:13
3	SiO2†	78845.8	76118.5	5216.5 ug/L	5216.5 ppb	14:09:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	916830.6	101.86	%	0.864				0.85%
Sc Radial	3957.3	93.0	%	0.33				0.36%
Y 371.029	762287.2	99.980	%	0.8015				0.80%
Y RADIAL	4478.2	95.44	%	1.340				1.40%
Ag 328.068†	108091.0	499.56	ug/L	3.403	499.56	ppb	3.403	0.68%

```
   QC value within limits for Ag 328.068  Recovery = 99.91%
Al 396.153Radial†       5788.2      5217.7 ug/L        81.65      5217.7 ppb          81.65   1.56%
   QC value within limits for Al 396.153Radial  Recovery = 104.35%
As 188.979†             1120.9      509.48 ug/L        6.769      509.48 ppb          6.769   1.33%
   QC value within limits for As 188.979  Recovery = 101.90%
B 249.677†             20280.0      481.69 ug/L        3.737      481.69 ppb          3.737   0.78%
   QC value within limits for B 249.677  Recovery = 96.34%
Ba 233.527†            63840.2      499.91 ug/L        3.483      499.91 ppb          3.483   0.70%
   QC value within limits for Ba 233.527  Recovery = 99.98%
Be 313.107†          1336156.3      499.04 ug/L        0.400      499.04 ppb          0.400   0.08%
   QC value within limits for Be 313.107  Recovery = 99.81%
Ca 317.933Radial†       2701.5      5374.8 ug/L        19.04      5374.8 ppb          19.04   0.35%
   QC value within limits for Ca 317.933Radial  Recovery = 107.50%
Cd 226.502†            43597.6      505.91 ug/L        2.619      505.91 ppb          2.619   0.52%
   QC value within limits for Cd 226.502  Recovery = 101.18%
Co 228.616†            24070.7      503.36 ug/L        2.818      503.36 ppb          2.818   0.56%
   QC value within limits for Co 228.616  Recovery = 100.67%
Cr 267.716†            44469.5      499.78 ug/L        3.205      499.78 ppb          3.205   0.64%
   QC value within limits for Cr 267.716  Recovery = 99.96%
Cu 324.752†           162410.9      487.72 ug/L        3.854      487.72 ppb          3.854   0.79%
   QC value within limits for Cu 324.752  Recovery = 97.54%
Fe 238.204 Radial†       412.9      5335.0 ug/L        23.37      5335.0 ppb          23.37   0.44%
   QC value within limits for Fe 238.204 Radial  Recovery = 106.70%
K 766.490 Radial†      28454.4      5316.7 ug/L       100.04      5316.7 ppb         100.04   1.88%
   QC value within limits for K 766.490 Radial  Recovery = 106.33%
Mg 279.077 IEC†          121.3      5514.3 ug/L       132.23      5514.3 ppb         132.23   2.40%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 110.29%
Mn 257.610†           446267.0      500.65 ug/L        0.800      500.65 ppb          0.800   0.16%
   QC value within limits for Mn 257.610  Recovery = 100.13%
Mo 202.031†             6840.7      501.10 ug/L        5.525      501.10 ppb          5.525   1.10%
   QC value within limits for Mo 202.031  Recovery = 100.22%
Na 589.592 Radial†     36515.5       10597 ug/L        229.3       10597 ppb          229.3   2.16%
   QC value within limits for Na 589.592 Radial  Recovery = 105.97%
Ni 231.604†            19847.8      504.19 ug/L        3.471      504.19 ppb          3.471   0.69%
   QC value within limits for Ni 231.604  Recovery = 100.84%
P 214.914†              4164.1      2431.6 ug/L        28.11      2431.6 ppb          28.11   1.16%
   QC value within limits for P 214.914  Recovery = 97.27%
Pb 220.353†             4065.0      505.23 ug/L        4.923      505.23 ppb          4.923   0.97%
   QC value within limits for Pb 220.353  Recovery = 101.05%
S 181.975 Axial†         698.8      1022.7 ug/L        11.64      1022.7 ppb          11.64   1.14%
   QC value within limits for S 181.975 Axial  Recovery = 102.27%
Sb 206.836†             1444.3      521.61 ug/L        6.719      521.61 ppb          6.719   1.29%
   QC value within limits for Sb 206.836  Recovery = 104.32%
Se 196.026†              758.9      518.46 ug/L        5.329      518.46 ppb          5.329   1.03%
   QC value within limits for Se 196.026  Recovery = 103.69%
Si 251.611†            77510.9      2480.4 ug/L        17.34      2480.4 ppb          17.34   0.70%
   QC value within limits for Si 251.611  Recovery = 99.22%
Sn 189.927†             2809.2      508.86 ug/L        5.091      508.86 ppb          5.091   1.00%
   QC value within limits for Sn 189.927  Recovery = 101.77%
Sr 421.552†            78945.1      523.20 ug/L        9.870      523.20 ppb          9.870   1.89%
   QC value within limits for Sr 421.552  Recovery = 104.64%
Ti 334.940†           318743.2      481.96 ug/L        3.108      481.96 ppb          3.108   0.64%
   QC value within limits for Ti 334.940  Recovery = 96.39%
Tl 190.801†             1560.1      503.90 ug/L        6.103      503.90 ppb          6.103   1.21%
   QC value within limits for Tl 190.801  Recovery = 100.78%
U 409.014†             17777.8      478.65 ug/L        6.767      478.65 ppb          6.767   1.41%
   QC value within limits for U 409.014  Recovery = 95.73%
V 292.402†             71096.7      500.23 ug/L        2.884      500.23 ppb          2.884   0.58%
   QC value within limits for V 292.402  Recovery = 100.05%
Zn 213.857†            50044.3      497.48 ug/L        3.080      497.48 ppb          3.080   0.62%
   QC value within limits for Zn 213.857  Recovery = 99.50%
SiO2†                  76808.5      5263.8 ug/L        41.00      5263.8 ppb          41.00   0.78%
   QC value within limits for SiO2  Recovery = 98.43%
QC Failed.  Continue with analysis.
```

Sequence No.: 2
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/23/2010 14:11:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3964.8	3964.8	93.2	%			14:14:12
1	Y RADIAL	4413.8	4413.8	94.07	%			14:13:52
1	Al 396.153Radial†	-101.8	1.6	1.4322	ug/L	1.4322	ppb	14:13:52
1	Ca 317.933Radial†	22.9	9.1	18.165	ug/L	18.165	ppb	14:14:12
1	Fe 238.204 Radial†	10.4	0.9	12.003	ug/L	12.003	ppb	14:14:12
1	K 766.490 Radial†	2572.5	203.0	37.982	ug/L	37.982	ppb	14:13:52
1	Mg 279.077 IEC†	3.0	0.5	21.341	ug/L	21.341	ppb	14:14:12
1	Na 589.592 Radial†	-714.3	-26.0	-7.5426	ug/L	-7.5426	ppb	14:13:52
1	Sr 421.552†	33.1	-1.2	-0.0084	ug/L	-0.0084	ppb	14:13:52
1	Sc 361.383	904845.5	904845.5	100.53	%			14:15:09
1	Y 371.029	762943.6	762943.6	100.07	%			14:15:09
1	Ag 328.068†	320.4	89.4	0.4142	ug/L	0.4142	ppb	14:15:14
1	As 188.979†	-19.9	0.7	0.3360	ug/L	0.3360	ppb	14:15:34
1	B 249.677†	-454.0	-78.7	-1.8792	ug/L	-1.8792	ppb	14:15:34
1	Ba 233.527†	4.6	13.7	0.1070	ug/L	0.1070	ppb	14:15:34
1	Be 313.107†	-3951.2	-77.0	-0.0291	ug/L	-0.0291	ppb	14:15:14
1	Cd 226.502†	-194.9	-10.6	-0.1244	ug/L	-0.1244	ppb	14:15:34
1	Co 228.616†	-64.6	-2.3	-0.0472	ug/L	-0.0472	ppb	14:15:34
1	Cr 267.716†	90.2	23.7	0.2673	ug/L	0.2673	ppb	14:15:34
1	Cu 324.752†	6036.1	-72.9	-0.2177	ug/L	-0.2177	ppb	14:15:14
1	Mn 257.610†	465.6	26.3	0.0298	ug/L	0.0298	ppb	14:15:34
1	Mo 202.031†	11.5	5.3	0.3926	ug/L	0.3926	ppb	14:15:34
1	Ni 231.604†	52.6	-0.0	-0.0001	ug/L	-0.0001	ppb	14:15:34
1	P 214.914†	214.7	11.6	7.0601	ug/L	7.0601	ppb	14:15:34
1	Pb 220.353†	-54.5	10.9	1.3466	ug/L	1.3466	ppb	14:15:34
1	S 181.975 Axial†	40.2	2.9	4.2592	ug/L	4.2592	ppb	14:15:34
1	Sb 206.836†	45.4	8.5	2.9843	ug/L	2.9843	ppb	14:15:34
1	Se 196.026†	-23.2	-2.4	-1.5600	ug/L	-1.5600	ppb	14:15:34
1	Si 251.611†	547.5	10.5	0.3306	ug/L	0.3306	ppb	14:15:34
1	Sn 189.927†	16.5	5.9	1.0780	ug/L	1.0780	ppb	14:15:34
1	Ti 334.940†	-1401.5	-112.3	-0.1686	ug/L	-0.1686	ppb	14:15:14
1	Tl 190.801†	-42.9	-11.4	-3.6737	ug/L	-3.6737	ppb	14:15:34
1	U 409.014†	-2881.1	-49.7	-1.3438	ug/L	-1.3438	ppb	14:15:09
1	V 292.402†	-1463.7	-25.6	-0.1758	ug/L	-0.1758	ppb	14:15:14
1	Zn 213.857†	610.5	49.6	0.4963	ug/L	0.4963	ppb	14:15:34
1	SiO2†	547.9	-6.5	-0.4576	ug/L	-0.4576	ppb	14:16:40
2	Sc Radial	3929.9	3929.9	92.4	%			14:14:37
2	Y RADIAL	4523.8	4523.8	96.41	%			14:14:17
2	Al 396.153Radial†	-110.1	-8.4	-7.6239	ug/L	-7.6239	ppb	14:14:17
2	Ca 317.933Radial†	15.5	1.3	2.6435	ug/L	2.6435	ppb	14:14:37
2	Fe 238.204 Radial†	10.5	1.2	15.359	ug/L	15.359	ppb	14:14:37
2	K 766.490 Radial†	2796.6	470.1	87.960	ug/L	87.960	ppb	14:14:17
2	Mg 279.077 IEC†	3.8	1.4	63.946	ug/L	63.946	ppb	14:14:37
2	Na 589.592 Radial†	-768.7	-91.7	-26.598	ug/L	-26.598	ppb	14:14:17
2	Sr 421.552†	42.8	9.6	0.0633	ug/L	0.0633	ppb	14:14:17
2	Sc 361.383	915627.4	915627.4	101.73	%			14:15:39
2	Y 371.029	773618.2	773618.2	101.47	%			14:15:39
2	Ag 328.068†	211.0	-21.9	-0.0958	ug/L	-0.0958	ppb	14:15:44
2	As 188.979†	-27.6	-6.6	-2.9747	ug/L	-2.9747	ppb	14:16:04
2	B 249.677†	-454.3	-73.7	-1.7605	ug/L	-1.7605	ppb	14:16:04
2	Ba 233.527†	-3.8	5.4	0.0423	ug/L	0.0423	ppb	14:16:04
2	Be 313.107†	-3848.3	70.4	0.0257	ug/L	0.0257	ppb	14:15:44
2	Cd 226.502†	-196.7	-10.1	-0.1188	ug/L	-0.1188	ppb	14:16:04
2	Co 228.616†	-62.0	1.0	0.0238	ug/L	0.0238	ppb	14:16:04
2	Cr 267.716†	63.9	-3.1	-0.0334	ug/L	-0.0334	ppb	14:16:04
2	Cu 324.752†	6133.5	-47.9	-0.1422	ug/L	-0.1422	ppb	14:15:44
2	Mn 257.610†	461.6	16.9	0.0179	ug/L	0.0179	ppb	14:16:04
2	Mo 202.031†	20.4	14.0	1.0257	ug/L	1.0257	ppb	14:16:04
2	Ni 231.604†	45.6	-7.5	-0.1900	ug/L	-0.1900	ppb	14:16:04

2	P 214.914†	200.4	-5.0	-3.0207	ug/L	-3.0207 ppb	14:16:04
2	Pb 220.353†	-45.0	20.8	2.5794	ug/L	2.5794 ppb	14:16:04
2	S 181.975 Axial†	40.9	3.2	4.6367	ug/L	4.6367 ppb	14:16:04
2	Sb 206.836†	43.4	6.0	2.1271	ug/L	2.1271 ppb	14:16:04
2	Se 196.026†	-15.4	5.5	3.7094	ug/L	3.7094 ppb	14:16:04
2	Si 251.611†	560.2	16.5	0.5172	ug/L	0.5172 ppb	14:16:04
2	Sn 189.927†	21.3	10.5	1.8984	ug/L	1.8984 ppb	14:16:04
2	Ti 334.940†	-1476.8	-169.9	-0.2610	ug/L	-0.2610 ppb	14:15:44
2	Tl 190.801†	-37.6	-5.8	-1.8480	ug/L	-1.8480 ppb	14:16:04
2	U 409.014†	-2927.3	-61.3	-1.6589	ug/L	-1.6589 ppb	14:15:39
2	V 292.402†	-1493.8	-38.0	-0.2531	ug/L	-0.2531 ppb	14:15:44
2	Zn 213.857†	612.7	44.6	0.4464	ug/L	0.4464 ppb	14:16:04
2	SiO2†	536.1	-24.5	-1.7146	ug/L	-1.7146 ppb	14:16:45
3	Sc Radial	3967.7	3967.7	93.3	%		14:15:02
3	Y RADIAL	4472.1	4472.1	95.31	%		14:14:42
3	Al 396.153Radial†	-114.7	-12.2	-11.094	ug/L	-11.094 ppb	14:14:42
3	Ca 317.933Radial†	21.9	8.0	15.983	ug/L	15.983 ppb	14:15:02
3	Fe 238.204 Radial†	10.2	0.8	10.200	ug/L	10.200 ppb	14:15:02
3	K 766.490 Radial†	2645.4	279.2	52.236	ug/L	52.236 ppb	14:14:42
3	Mg 279.077 IEC†	4.3	1.8	83.555	ug/L	83.555 ppb	14:15:02
3	Na 589.592 Radial†	-701.2	-11.4	-3.3011	ug/L	-3.3011 ppb	14:14:42
3	Sr 421.552†	50.5	17.4	0.1150	ug/L	0.1150 ppb	14:14:42
3	Sc 361.383	907783.6	907783.6	100.86	%		14:16:09
3	Y 371.029	766801.4	766801.4	100.57	%		14:16:09
3	Ag 328.068†	305.0	73.1	0.3381	ug/L	0.3381 ppb	14:16:14
3	As 188.979†	-26.5	-5.8	-2.5959	ug/L	-2.5959 ppb	14:16:34
3	B 249.677†	-491.0	-113.9	-2.7203	ug/L	-2.7203 ppb	14:16:34
3	Ba 233.527†	3.5	12.6	0.0976	ug/L	0.0976 ppb	14:16:34
3	Be 313.107†	-3984.4	-97.3	-0.0366	ug/L	-0.0366 ppb	14:16:14
3	Cd 226.502†	-196.2	-11.2	-0.1313	ug/L	-0.1313 ppb	14:16:34
3	Co 228.616†	-64.3	-1.8	-0.0375	ug/L	-0.0375 ppb	14:16:34
3	Cr 267.716†	81.9	15.2	0.1718	ug/L	0.1718 ppb	14:16:34
3	Cu 324.752†	6161.4	31.9	0.0973	ug/L	0.0973 ppb	14:16:14
3	Mn 257.610†	469.3	28.5	0.0295	ug/L	0.0295 ppb	14:16:34
3	Mo 202.031†	6.1	-0.0	-0.0009	ug/L	-0.0009 ppb	14:16:34
3	Ni 231.604†	33.8	-18.8	-0.4790	ug/L	-0.4790 ppb	14:16:34
3	P 214.914†	207.4	3.6	2.1870	ug/L	2.1870 ppb	14:16:34
3	Pb 220.353†	-61.1	4.5	0.5485	ug/L	0.5485 ppb	14:16:34
3	S 181.975 Axial†	43.5	6.1	8.9119	ug/L	8.9119 ppb	14:16:34
3	Sb 206.836†	36.6	-0.4	-0.1141	ug/L	-0.1141 ppb	14:16:34
3	Se 196.026†	-26.1	-5.2	-3.3809	ug/L	-3.3809 ppb	14:16:34
3	Si 251.611†	536.7	-2.0	-0.0657	ug/L	-0.0657 ppb	14:16:34
3	Sn 189.927†	15.3	4.7	0.8594	ug/L	0.8594 ppb	14:16:34
3	Ti 334.940†	-1409.4	-115.6	-0.1788	ug/L	-0.1788 ppb	14:16:14
3	Tl 190.801†	-34.3	-2.8	-0.8986	ug/L	-0.8986 ppb	14:16:34
3	U 409.014†	-2905.9	-64.9	-1.7560	ug/L	-1.7560 ppb	14:16:09
3	V 292.402†	-1512.4	-69.1	-0.4831	ug/L	-0.4831 ppb	14:16:14
3	Zn 213.857†	602.5	39.7	0.3996	ug/L	0.3996 ppb	14:16:34
3	SiO2†	572.9	16.5	1.1347	ug/L	1.1347 ppb	14:16:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	909418.8	101.04	%	0.619				0.61%
Sc Radial	3954.1	93.0	%	0.49				0.53%
Y 371.029	767787.7	100.70	%	0.709				0.70%
Y RADIAL	4469.9	95.27	%	1.172				1.23%
Ag 328.068†	46.8	0.2188	ug/L	0.27512	0.2188	ppb	0.27512	125.72%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-6.3	-5.7617	ug/L	6.46715	-5.7617	ppb	6.46715	112.24%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.9	-1.7449	ug/L	1.81197	-1.7449	ppb	1.81197	103.85%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-88.7	-2.1200	ug/L	0.52326	-2.1200	ppb	0.52326	24.68%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	10.6	0.0823	ug/L	0.03495	0.0823	ppb	0.03495	42.46%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-34.6	-0.0134	ug/L	0.03400	-0.0134	ppb	0.03400	254.41%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.2	12.264	ug/L	8.4025	12.264	ppb	8.4025	68.52%

```
   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -10.6     -0.1248 ug/L       0.00626     -0.1248 ppb        0.00626   5.02%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               -1.0     -0.0203 ug/L       0.03853     -0.0203 ppb        0.03853 189.58%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               11.9      0.1352 ug/L       0.15362      0.1352 ppb        0.15362 113.59%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -29.7     -0.0875 ug/L       0.16446     -0.0875 ppb        0.16446 187.96%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.0      12.521 ug/L        2.6180      12.521 ppb         2.6180  20.91%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        317.5      59.393 ug/L       25.7461      59.393 ppb        25.7461  43.35%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            1.2      56.280 ug/L       31.8072      56.280 ppb        31.8072  56.52%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               23.9      0.0257 ug/L       0.00681      0.0257 ppb        0.00681  26.46%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                6.4      0.4724 ug/L       0.51792      0.4724 ppb        0.51792 109.63%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -43.0     -12.481 ug/L       12.4085     -12.481 ppb        12.4085  99.42%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -8.8     -0.2230 ug/L       0.24119     -0.2230 ppb        0.24119 108.15%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 3.4      2.0754 ug/L       5.04135      2.0754 ppb        5.04135 242.91%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               12.0      1.4915 ug/L       1.02320      1.4915 ppb        1.02320  68.60%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           4.1      5.9359 ug/L       2.58421      5.9359 ppb        2.58421  43.54%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                4.7      1.6658 ug/L       1.59989      1.6658 ppb        1.59989  96.04%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -0.7     -0.4105 ug/L       3.68225     -0.4105 ppb        3.68225 896.98%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                8.3      0.2607 ug/L       0.29769      0.2607 ppb        0.29769 114.18%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                7.1      1.2786 ug/L       0.54779      1.2786 ppb        0.54779  42.84%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                8.6      0.0567 ug/L       0.06195      0.0567 ppb        0.06195 109.35%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -132.6     -0.2028 ug/L       0.05067     -0.2028 ppb        0.05067  24.98%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -6.7     -2.1401 ug/L       1.41041     -2.1401 ppb        1.41041  65.90%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -58.6     -1.5862 ug/L       0.21549     -1.5862 ppb        0.21549  13.59%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -44.2     -0.3040 ug/L       0.15989     -0.3040 ppb        0.15989  52.59%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               44.6      0.4475 ug/L       0.04834      0.4475 ppb        0.04834  10.80%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     -4.8     -0.3459 ug/L       1.42794     -0.3459 ppb        1.42794 412.86%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 3
Sample ID: 1202030969|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 2/23/2010 14:19:00
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030969|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4106.5	4106.5	96.5	%			14:20:52
1	Y RADIAL	4584.2	4584.2	97.70	%			14:20:52
1	Al 396.153Radial†	-112.1	-5.4	-4.8358	ug/L	-4.8358	ppb	14:20:52
1	Ca 317.933Radial†	30.9	16.6	32.951	ug/L	32.951	ppb	14:21:12
1	Fe 238.204 Radial†	13.9	4.2	54.698	ug/L	54.698	ppb	14:21:12
1	K 766.490 Radial†	2624.0	161.2	30.136	ug/L	30.136	ppb	14:20:52
1	Mg 279.077 IEC†	2.4	-0.3	-13.344	ug/L	-13.344	ppb	14:21:12
1	Na 589.592 Radial†	-618.7	99.5	28.864	ug/L	28.864	ppb	14:20:52
1	Sr 421.552†	64.3	29.8	0.1973	ug/L	0.1973	ppb	14:20:52
1	Sc 361.383	912325.4	912325.4	101.36	%			14:22:09
1	Y 371.029	768422.7	768422.7	100.78	%			14:22:09
1	Ag 328.068†	304.1	70.7	0.3394	ug/L	0.3394	ppb	14:22:14
1	As 188.979†	-16.7	4.0	1.8214	ug/L	1.8214	ppb	14:22:34
1	B 249.677†	-492.1	-112.5	-2.6935	ug/L	-2.6935	ppb	14:22:34
1	Ba 233.527†	22.1	31.0	0.2433	ug/L	0.2433	ppb	14:22:34
1	Be 313.107†	-3841.2	63.6	0.0241	ug/L	0.0241	ppb	14:22:14
1	Cd 226.502†	-176.5	9.2	0.1012	ug/L	0.1012	ppb	14:22:34
1	Co 228.616†	-86.6	-23.5	-0.4938	ug/L	-0.4938	ppb	14:22:34
1	Cr 267.716†	125.2	57.5	0.6493	ug/L	0.6493	ppb	14:22:34
1	Cu 324.752†	6067.4	-91.3	-0.2720	ug/L	-0.2720	ppb	14:22:14
1	Mn 257.610†	818.9	371.0	0.4219	ug/L	0.4219	ppb	14:22:34
1	Mo 202.031†	-1.2	-7.2	-0.5253	ug/L	-0.5253	ppb	14:22:34
1	Ni 231.604†	71.4	18.1	0.4604	ug/L	0.4604	ppb	14:22:34
1	P 214.914†	206.4	1.6	0.9865	ug/L	0.9865	ppb	14:22:34
1	Pb 220.353†	-60.1	5.8	0.7075	ug/L	0.7075	ppb	14:22:34
1	S 181.975 Axial†	40.6	3.0	4.3732	ug/L	4.3732	ppb	14:22:34
1	Sb 206.836†	50.5	13.2	4.5886	ug/L	4.5886	ppb	14:22:34
1	Se 196.026†	-22.7	-1.7	-0.9449	ug/L	-0.9449	ppb	14:22:34
1	Si 251.611†	934.9	388.2	12.459	ug/L	12.459	ppb	14:22:34
1	Sn 189.927†	13.9	3.3	0.5939	ug/L	0.5939	ppb	14:22:34
1	Ti 334.940†	-1198.6	99.3	0.1548	ug/L	0.1548	ppb	14:22:14
1	Tl 190.801†	-36.3	-4.6	-1.4619	ug/L	-1.4619	ppb	14:22:34
1	U 409.014†	-2798.1	55.8	1.5001	ug/L	1.5001	ppb	14:22:09
1	V 292.402†	-1467.8	-17.7	-0.1360	ug/L	-0.1360	ppb	14:22:14
1	Zn 213.857†	782.3	214.1	2.1373	ug/L	2.1373	ppb	14:22:34
1	SiO2†	988.8	424.1	29.151	ug/L	29.151	ppb	14:23:40
2	Sc Radial	4146.2	4146.2	97.5	%			14:21:17
2	Y RADIAL	4520.1	4520.1	96.33	%			14:21:17
2	Al 396.153Radial†	-124.2	-16.7	-15.107	ug/L	-15.107	ppb	14:21:17
2	Ca 317.933Radial†	30.3	15.6	31.045	ug/L	31.045	ppb	14:21:37
2	Fe 238.204 Radial†	17.0	7.2	92.914	ug/L	92.914	ppb	14:21:37
2	K 766.490 Radial†	2613.8	124.7	23.323	ug/L	23.323	ppb	14:21:17
2	Mg 279.077 IEC†	4.2	1.5	70.172	ug/L	70.172	ppb	14:21:37
2	Na 589.592 Radial†	-703.2	18.9	5.4986	ug/L	5.4986	ppb	14:21:17
2	Sr 421.552†	38.8	3.0	0.0195	ug/L	0.0195	ppb	14:21:17
2	Sc 361.383	903813.0	903813.0	100.42	%			14:22:39
2	Y 371.029	762572.0	762572.0	100.02	%			14:22:39
2	Ag 328.068†	309.9	79.3	0.3876	ug/L	0.3876	ppb	14:22:44
2	As 188.979†	-14.8	5.8	2.6422	ug/L	2.6422	ppb	14:23:05
2	B 249.677†	-498.3	-123.3	-2.9568	ug/L	-2.9568	ppb	14:23:05
2	Ba 233.527†	26.1	35.1	0.2768	ug/L	0.2768	ppb	14:23:05
2	Be 313.107†	-3844.7	24.5	0.0096	ug/L	0.0096	ppb	14:22:44
2	Cd 226.502†	-178.2	5.9	0.0599	ug/L	0.0599	ppb	14:23:05
2	Co 228.616†	-57.6	4.5	0.0936	ug/L	0.0936	ppb	14:23:05
2	Cr 267.716†	106.2	39.8	0.4531	ug/L	0.4531	ppb	14:23:05
2	Cu 324.752†	6068.6	-33.7	-0.0990	ug/L	-0.0990	ppb	14:22:44
2	Mn 257.610†	827.9	387.6	0.4409	ug/L	0.4409	ppb	14:23:05
2	Mo 202.031†	12.4	6.3	0.4683	ug/L	0.4683	ppb	14:23:05
2	Ni 231.604†	67.8	15.2	0.3855	ug/L	0.3855	ppb	14:23:05

2	P 214.914†	220.6	17.7	10.692 ug/L	10.692 ppb	14:23:05
2	Pb 220.353†	-44.4	20.8	2.5710 ug/L	2.5710 ppb	14:23:05
2	S 181.975 Axial†	48.3	11.1	16.218 ug/L	16.218 ppb	14:23:05
2	Sb 206.836†	46.6	9.7	3.4226 ug/L	3.4226 ppb	14:23:05
2	Se 196.026†	-22.5	-1.7	-0.8458 ug/L	-0.8458 ppb	14:23:05
2	Si 251.611†	962.6	424.5	13.611 ug/L	13.611 ppb	14:23:05
2	Sn 189.927†	21.9	11.4	2.0597 ug/L	2.0597 ppb	14:23:05
2	Ti 334.940†	-1145.9	140.7	0.2088 ug/L	0.2088 ppb	14:22:44
2	Tl 190.801†	-33.7	-2.4	-0.7528 ug/L	-0.7528 ppb	14:23:05
2	U 409.014†	-2640.8	186.4	5.0256 ug/L	5.0256 ppb	14:22:39
2	V 292.402†	-1460.1	-23.6	-0.1600 ug/L	-0.1600 ppb	14:22:44
2	Zn 213.857†	774.9	214.0	2.1312 ug/L	2.1312 ppb	14:23:05
2	SiO2†	965.8	410.2	28.175 ug/L	28.175 ppb	14:23:45
3	Sc Radial	4033.9	4033.9	94.8 %		14:21:43
3	Y RADIAL	4454.0	4454.0	94.93 %		14:21:43
3	Al 396.153Radial†	-116.9	-12.5	-11.364 ug/L	-11.364 ppb	14:21:43
3	Ca 317.933Radial†	30.0	16.1	32.115 ug/L	32.115 ppb	14:22:03
3	Fe 238.204 Radial†	16.1	6.8	87.863 ug/L	87.863 ppb	14:22:03
3	K 766.490 Radial†	2660.8	248.9	46.555 ug/L	46.555 ppb	14:21:43
3	Mg 279.077 IEC†	1.8	-0.9	-40.071 ug/L	-40.071 ppb	14:22:03
3	Na 589.592 Radial†	-666.1	38.0	11.038 ug/L	11.038 ppb	14:21:43
3	Sr 421.552†	89.3	57.3	0.3799 ug/L	0.3799 ppb	14:21:43
3	Sc 361.383	916225.4	916225.4	101.80 %		14:23:10
3	Y 371.029	773226.3	773226.3	101.41 %		14:23:10
3	Ag 328.068†	270.9	36.8	0.1947 ug/L	0.1947 ppb	14:23:15
3	As 188.979†	-20.1	0.8	0.3770 ug/L	0.3770 ppb	14:23:35
3	B 249.677†	-526.4	-144.1	-3.4550 ug/L	-3.4550 ppb	14:23:35
3	Ba 233.527†	18.4	27.2	0.2159 ug/L	0.2159 ppb	14:23:35
3	Be 313.107†	-3922.6	-0.1	0.0006 ug/L	0.0006 ppb	14:23:15
3	Cd 226.502†	-185.8	0.8	0.0014 ug/L	0.0014 ppb	14:23:35
3	Co 228.616†	-53.8	9.1	0.1895 ug/L	0.1895 ppb	14:23:35
3	Cr 267.716†	107.1	39.2	0.4472 ug/L	0.4472 ppb	14:23:35
3	Cu 324.752†	6178.5	-7.6	-0.0201 ug/L	-0.0201 ppb	14:23:15
3	Mn 257.610†	843.1	391.3	0.4491 ug/L	0.4491 ppb	14:23:35
3	Mo 202.031†	14.5	8.2	0.6062 ug/L	0.6062 ppb	14:23:35
3	Ni 231.604†	73.3	19.7	0.5007 ug/L	0.5007 ppb	14:23:35
3	P 214.914†	211.3	5.5	3.3109 ug/L	3.3109 ppb	14:23:35
3	Pb 220.353†	-57.5	8.5	1.0467 ug/L	1.0467 ppb	14:23:35
3	S 181.975 Axial†	48.1	10.3	15.032 ug/L	15.032 ppb	14:23:35
3	Sb 206.836†	40.6	3.2	1.1510 ug/L	1.1510 ppb	14:23:35
3	Se 196.026†	-28.1	-6.9	-4.2733 ug/L	-4.2733 ppb	14:23:35
3	Si 251.611†	981.4	429.9	13.785 ug/L	13.785 ppb	14:23:35
3	Sn 189.927†	22.5	11.7	2.1156 ug/L	2.1156 ppb	14:23:35
3	Ti 334.940†	-1106.2	195.2	0.3011 ug/L	0.3011 ppb	14:23:15
3	Tl 190.801†	-44.2	-12.2	-3.9268 ug/L	-3.9268 ppb	14:23:35
3	U 409.014†	-2739.9	124.7	3.3575 ug/L	3.3575 ppb	14:23:10
3	V 292.402†	-1389.1	65.9	0.4581 ug/L	0.4581 ppb	14:23:15
3	Zn 213.857†	771.9	200.6	1.9968 ug/L	1.9968 ppb	14:23:35
3	SiO2†	1038.9	469.1	32.215 ug/L	32.215 ppb	14:23:50

Mean Data: 1202030969|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	910787.9	101.19	%	0.705				0.70%
Sc Radial	4095.5	96.3	%	1.34				1.39%
Y 371.029	768073.6	100.74	%	0.700				0.69%
Y RADIAL	4519.4	96.32	%	1.387				1.44%
Ag 328.068†	62.3	0.3072	ug/L	0.10040	0.3072	ppb	0.10040	32.68%
Al 396.153Radial†	-11.5	-10.436	ug/L	5.1983	-10.436	ppb	5.1983	49.81%
As 188.979†	3.5	1.6136	ug/L	1.14684	1.6136	ppb	1.14684	71.08%
B 249.677†	-126.6	-3.0351	ug/L	0.38672	-3.0351	ppb	0.38672	12.74%
Ba 233.527†	31.1	0.2454	ug/L	0.03048	0.2454	ppb	0.03048	12.43%
Be 313.107†	29.3	0.0114	ug/L	0.01182	0.0114	ppb	0.01182	103.41%
Ca 317.933Radial†	16.1	32.037	ug/L	0.9556	32.037	ppb	0.9556	2.98%
Cd 226.502†	5.3	0.0542	ug/L	0.05013	0.0542	ppb	0.05013	92.58%
Co 228.616†	-3.3	-0.0703	ug/L	0.36994	-0.0703	ppb	0.36994	526.56%
Cr 267.716†	45.5	0.5165	ug/L	0.11503	0.5165	ppb	0.11503	22.27%
Cu 324.752†	-44.2	-0.1304	ug/L	0.12885	-0.1304	ppb	0.12885	98.82%
Fe 238.204 Radial†	6.1	78.491	ug/L	20.7601	78.491	ppb	20.7601	26.45%
K 766.490 Radial†	178.3	33.338	ug/L	11.9421	33.338	ppb	11.9421	35.82%

Mg 279.077 IEC†	0.1	5.5853 ug/L	57.50770	5.5853 ppb	57.50770	>999.9%
Mn 257.610†	383.3	0.4373 ug/L	0.01393	0.4373 ppb	0.01393	3.19%
Mo 202.031†	2.4	0.1831 ug/L	0.61735	0.1831 ppb	0.61735	337.24%
Na 589.592 Radial†	52.1	15.134 ug/L	12.2094	15.134 ppb	12.2094	80.68%
Ni 231.604†	17.7	0.4489 ug/L	0.05847	0.4489 ppb	0.05847	13.03%
P 214.914†	8.3	4.9963 ug/L	5.06736	4.9963 ppb	5.06736	101.42%
Pb 220.353†	11.7	1.4417 ug/L	0.99258	1.4417 ppb	0.99258	68.85%
S 181.975 Axial†	8.1	11.874 ug/L	6.5233	11.874 ppb	6.5233	54.94%
Sb 206.836†	8.7	3.0541 ug/L	1.74816	3.0541 ppb	1.74816	57.24%
Se 196.026†	-3.4	-2.0213 ug/L	1.95091	-2.0213 ppb	1.95091	96.52%
Si 251.611†	414.2	13.285 ug/L	0.7209	13.285 ppb	0.7209	5.43%
Sn 189.927†	8.8	1.5897 ug/L	0.86284	1.5897 ppb	0.86284	54.28%
Sr 421.552†	30.0	0.1989 ug/L	0.18020	0.1989 ppb	0.18020	90.62%
Ti 334.940†	145.0	0.2216 ug/L	0.07398	0.2216 ppb	0.07398	33.39%
Tl 190.801†	-6.4	-2.0472 ug/L	1.66598	-2.0472 ppb	1.66598	81.38%
U 409.014†	122.3	3.2944 ug/L	1.76360	3.2944 ppb	1.76360	53.53%
V 292.402†	8.2	0.0540 ug/L	0.35014	0.0540 ppb	0.35014	648.05%
Zn 213.857†	209.6	2.0884 ug/L	0.07943	2.0884 ppb	0.07943	3.80%
SiO2†	434.5	29.847 ug/L	2.1085	29.847 ppb	2.1085	7.06%

Sequence No.: 4
Sample ID: 1202030974|948071|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 2/23/2010 14:26:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030974|948071|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4220.3	4220.3	99.2	%			14:28:14
1	Y RADIAL	5124.8	5124.8	109.2	%			14:28:14
1	Al 396.153Radial†	98662.2	99549.6	90134	ug/L	90134	ppb	14:27:54
1	Ca 317.933Radial†	50202.9	50582.7	100640	ug/L	100640	ppb	14:27:54
1	Fe 238.204 Radial†	13818.0	13916.6	179320	ug/L	179320	ppb	14:28:14
1	K 766.490 Radial†	226481.1	225707.1	42187	ug/L	42187	ppb	14:27:54
1	Mg 279.077 IEC†	845.7	849.6	38433	ug/L	38433	ppb	14:28:14
1	Na 589.592 Radial†	34391.2	35402.2	10274	ug/L	10274	ppb	14:27:54
1	Sr 421.552†	334373.4	336968.8	2232.6	ug/L	2232.6	ppb	14:27:54
1	Sc 361.383	913157.9	913157.9	101.45	%			14:29:15
1	Y 371.029	835696.6	835696.6	109.61	%			14:29:15
1	Ag 328.068†	53829.0	52827.8	301.33	ug/L	301.33	ppb	14:29:15
1	As 188.979†	2176.5	2165.8	1064.9	ug/L	1064.9	ppb	14:29:20
1	B 249.677†	61067.2	60564.5	1413.7	ug/L	1413.7	ppb	14:29:15
1	Ba 233.527†	242020.5	238559.0	1871.5	ug/L	1871.5	ppb	14:29:15
1	Be 313.107†	2010774.2	1985793.0	752.56	ug/L	752.56	ppb	14:29:15
1	Cd 226.502†	51077.6	50528.5	568.75	ug/L	568.75	ppb	14:29:20
1	Co 228.616†	43081.9	42526.0	875.95	ug/L	875.95	ppb	14:29:20
1	Cr 267.716†	202961.6	199985.1	2261.8	ug/L	2261.8	ppb	14:29:15
1	Cu 324.752†	596286.7	581658.8	1756.2	ug/L	1756.2	ppb	14:29:15
1	Mn 257.610†	4557926.6	4492128.9	5052.6	ug/L	5052.6	ppb	14:29:15
1	Mo 202.031†	6359.1	6261.9	473.38	ug/L	473.38	ppb	14:29:20
1	Ni 231.604†	50535.1	49758.1	1264.2	ug/L	1264.2	ppb	14:29:20
1	P 214.914†	14006.5	13603.6	7794.9	ug/L	7794.9	ppb	14:29:20
1	Pb 220.353†	6511.1	6482.8	804.20	ug/L	804.20	ppb	14:29:20
1	S 181.975 Axial†	2833.3	2755.6	4019.9	ug/L	4019.9	ppb	14:29:20
1	Sb 206.836†	3445.9	3359.8	1177.6	ug/L	1177.6	ppb	14:29:20
1	Se 196.026†	3706.2	3673.7	2982.0	ug/L	2982.0	ppb	14:29:20
1	Si 251.611†	1341507.5	1321736.1	42395	ug/L	42395	ppb	14:29:15
1	Sn 189.927†	5536.7	5446.8	992.98	ug/L	992.98	ppb	14:29:20
1	Ti 334.940†	3694889.4	3643186.4	5519.7	ug/L	5519.7	ppb	14:29:15
1	Tl 190.801†	3537.3	3517.8	1192.5	ug/L	1192.5	ppb	14:29:20
1	U 409.014†	-8771.4	-5829.4	-182.97	ug/L	-182.97	ppb	14:29:15
1	V 292.402†	174056.6	172991.0	1175.2	ug/L	1175.2	ppb	14:29:15
1	Zn 213.857†	583691.2	574763.3	5730.0	ug/L	5730.0	ppb	14:29:15
1	SiO2†	1345351.1	1325507.2	91061	ug/L	91061	ppb	14:29:55
2	Sc Radial	4246.9	4246.9	99.8	%			14:28:39
2	Y RADIAL	5137.9	5137.9	109.5	%			14:28:39
2	Al 396.153Radial†	98908.9	99174.8	89795	ug/L	89795	ppb	14:28:19
2	Ca 317.933Radial†	50232.5	50295.8	100070	ug/L	100070	ppb	14:28:19
2	Fe 238.204 Radial†	13890.0	13901.6	179130	ug/L	179130	ppb	14:28:39
2	K 766.490 Radial†	225968.1	223765.7	41824	ug/L	41824	ppb	14:28:19
2	Mg 279.077 IEC†	841.7	840.3	38007	ug/L	38007	ppb	14:28:39
2	Na 589.592 Radial†	34170.6	34964.5	10147	ug/L	10147	ppb	14:28:19
2	Sr 421.552†	333664.9	334151.4	2214.0	ug/L	2214.0	ppb	14:28:19
2	Sc 361.383	909318.9	909318.9	101.03	%			14:29:29
2	Y 371.029	832744.9	832744.9	109.22	%			14:29:29
2	Ag 328.068†	53725.0	52948.8	301.86	ug/L	301.86	ppb	14:29:29
2	As 188.979†	2195.8	2194.0	1077.7	ug/L	1077.7	ppb	14:29:34
2	B 249.677†	61036.2	60787.9	1419.1	ug/L	1419.1	ppb	14:29:29
2	Ba 233.527†	241226.3	238780.1	1873.2	ug/L	1873.2	ppb	14:29:29
2	Be 313.107†	2005805.7	1989242.2	753.87	ug/L	753.87	ppb	14:29:29
2	Cd 226.502†	51078.3	50741.7	571.24	ug/L	571.24	ppb	14:29:34
2	Co 228.616†	43017.6	42641.7	878.35	ug/L	878.35	ppb	14:29:34
2	Cr 267.716†	202252.6	200127.9	2263.4	ug/L	2263.4	ppb	14:29:29
2	Cu 324.752†	595661.0	583520.8	1761.8	ug/L	1761.8	ppb	14:29:29
2	Mn 257.610†	4543091.3	4496411.2	5057.4	ug/L	5057.4	ppb	14:29:29
2	Mo 202.031†	6371.5	6300.6	476.19	ug/L	476.19	ppb	14:29:34
2	Ni 231.604†	50440.5	49874.8	1267.2	ug/L	1267.2	ppb	14:29:34

2	P 214.914†	13970.7	13626.4	7807.7	ug/L	7807.7 ppb	14:29:34
2	Pb 220.353†	6506.1	6504.9	806.88	ug/L	806.88 ppb	14:29:34
2	S 181.975 Axial†	2806.0	2740.4	3997.8	ug/L	3997.8 ppb	14:29:34
2	Sb 206.836†	3431.3	3359.7	1177.6	ug/L	1177.6 ppb	14:29:34
2	Se 196.026†	3682.7	3665.9	2976.2	ug/L	2976.2 ppb	14:29:34
2	Si 251.611†	1337929.0	1323776.4	42461	ug/L	42461 ppb	14:29:29
2	Sn 189.927†	5494.5	5428.1	989.50	ug/L	989.50 ppb	14:29:34
2	Ti 334.940†	3686665.1	3650421.1	5530.6	ug/L	5530.6 ppb	14:29:29
2	Tl 190.801†	3514.0	3509.5	1190.0	ug/L	1190.0 ppb	14:29:34
2	U 409.014†	-8938.6	-6031.3	-188.41	ug/L	-188.41 ppb	14:29:29
2	V 292.402†	173838.4	173499.4	1178.7	ug/L	1178.7 ppb	14:29:29
2	Zn 213.857†	581797.0	575317.3	5735.6	ug/L	5735.6 ppb	14:29:29
2	SiO2†	1352180.4	1337865.3	91910	ug/L	91910 ppb	14:30:01
3	Sc Radial	4230.2	4230.2	99.5	%		14:29:04
3	Y RADIAL	5117.9	5117.9	109.1	%		14:29:04
3	Al 396.153Radial†	98875.8	99532.6	90119	ug/L	90119 ppb	14:28:44
3	Ca 317.933Radial†	50047.5	50308.4	100090	ug/L	100090 ppb	14:28:44
3	Fe 238.204 Radial†	13895.1	13961.7	179900	ug/L	179900 ppb	14:29:04
3	K 766.490 Radial†	225787.9	224478.0	41957	ug/L	41957 ppb	14:28:44
3	Mg 279.077 IEC†	838.5	840.4	38011	ug/L	38011 ppb	14:29:04
3	Na 589.592 Radial†	34180.6	35109.7	10189	ug/L	10189 ppb	14:28:44
3	Sr 421.552†	333307.3	335111.1	2220.3	ug/L	2220.3 ppb	14:28:44
3	Sc 361.383	915194.0	915194.0	101.68	%		14:29:43
3	Y 371.029	838564.3	838564.3	109.98	%		14:29:43
3	Ag 328.068†	53991.6	52869.6	301.72	ug/L	301.72 ppb	14:29:43
3	As 188.979†	2170.1	2154.7	1060.1	ug/L	1060.1 ppb	14:29:48
3	B 249.677†	61586.3	60941.1	1422.6	ug/L	1422.6 ppb	14:29:43
3	Ba 233.527†	242484.7	238484.8	1870.9	ug/L	1870.9 ppb	14:29:43
3	Be 313.107†	2018494.9	1988976.5	753.75	ug/L	753.75 ppb	14:29:43
3	Cd 226.502†	51353.0	50687.3	570.53	ug/L	570.53 ppb	14:29:48
3	Co 228.616†	43357.5	42702.6	879.64	ug/L	879.64 ppb	14:29:48
3	Cr 267.716†	203480.9	200050.8	2262.6	ug/L	2262.6 ppb	14:29:43
3	Cu 324.752†	599152.1	583169.2	1760.8	ug/L	1760.8 ppb	14:29:43
3	Mn 257.610†	4564983.0	4489073.6	5049.3	ug/L	5049.3 ppb	14:29:43
3	Mo 202.031†	6415.5	6303.4	476.45	ug/L	476.45 ppb	14:29:48
3	Ni 231.604†	50864.0	49970.7	1269.6	ug/L	1269.6 ppb	14:29:48
3	P 214.914†	13996.9	13563.4	7769.2	ug/L	7769.2 ppb	14:29:48
3	Pb 220.353†	6581.5	6537.7	810.93	ug/L	810.93 ppb	14:29:48
3	S 181.975 Axial†	2853.2	2769.0	4039.5	ug/L	4039.5 ppb	14:29:48
3	Sb 206.836†	3496.6	3402.1	1192.6	ug/L	1192.6 ppb	14:29:48
3	Se 196.026†	3739.3	3698.2	2999.9	ug/L	2999.9 ppb	14:29:48
3	Si 251.611†	1344526.7	1321763.6	42396	ug/L	42396 ppb	14:29:43
3	Sn 189.927†	5593.1	5490.2	1000.7	ug/L	1000.7 ppb	14:29:48
3	Ti 334.940†	3704023.6	3644067.1	5521.0	ug/L	5521.0 ppb	14:29:43
3	Tl 190.801†	3530.8	3503.7	1188.0	ug/L	1188.0 ppb	14:29:48
3	U 409.014†	-8855.9	-5893.2	-184.77	ug/L	-184.77 ppb	14:29:43
3	V 292.402†	174605.7	173149.4	1176.2	ug/L	1176.2 ppb	14:29:43
3	Zn 213.857†	584663.5	574439.6	5726.7	ug/L	5726.7 ppb	14:29:43
3	SiO2†	1350149.4	1327276.0	91183	ug/L	91183 ppb	14:30:06

Mean Data: 1202030974|948071|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	912556.9	101.39	%	0.331				0.33%
Sc Radial	4232.5	99.5	%	0.32				0.32%
Y 371.029	835668.6	109.60	%	0.382				0.35%
Y RADIAL	5126.9	109.3	%	0.22				0.20%
Ag 328.068†	52882.1	301.63	ug/L	0.271	301.63	ppb	0.271	0.09%
Al 396.153Radial†	99419.0	90016	ug/L	191.8	90016	ppb	191.8	0.21%
As 188.979†	2171.5	1067.6	ug/L	9.08	1067.6	ppb	9.08	0.85%
B 249.677†	60764.5	1418.5	ug/L	4.47	1418.5	ppb	4.47	0.32%
Ba 233.527†	238608.0	1871.9	ug/L	1.19	1871.9	ppb	1.19	0.06%
Be 313.107†	1988003.9	753.39	ug/L	0.724	753.39	ppb	0.724	0.10%
Ca 317.933Radial†	50395.6	100270	ug/L	322.5	100270	ppb	322.5	0.32%
Cd 226.502†	50652.5	570.17	ug/L	1.286	570.17	ppb	1.286	0.23%
Co 228.616†	42623.4	877.98	ug/L	1.872	877.98	ppb	1.872	0.21%
Cr 267.716†	200054.6	2262.6	ug/L	0.79	2262.6	ppb	0.79	0.04%
Cu 324.752†	582782.9	1759.6	ug/L	2.97	1759.6	ppb	2.97	0.17%
Fe 238.204 Radial†	13926.6	179450	ug/L	403.0	179450	ppb	403.0	0.22%
K 766.490 Radial†	224650.3	41989	ug/L	183.6	41989	ppb	183.6	0.44%

Mg 279.077 IEC†	226.5	1.48	0.65%	[10000]	ug/L
Mn 257.610†	895639.0	5759.03	0.64%	[1000]	ug/L
Mo 202.031†	13689.3	134.80	0.98%	[1000]	ug/L
Na 589.592 Radial†	34040.4	127.76	0.38%	[10000]	ug/L
Ni 231.604†	39431.0	72.66	0.18%	[1000]	ug/L
P 214.914†	8277.8	76.67	0.93%	[5000]	ug/L
Pb 220.353†	8099.3	63.08	0.78%	[1000]	ug/L
S 181.975 Axial†	1367.6	18.17	1.33%	[2000]	ug/L
Sb 206.836†	2880.8	36.47	1.27%	[1000]	ug/L
Se 196.026†	1522.5	14.14	0.93%	[1000]	ug/L
Si 251.611†	156368.7	322.03	0.21%	[5000]	ug/L
Sn 189.927†	5544.1	49.81	0.90%	[1000]	ug/L
Sr 421.552†	150544.6	936.80	0.62%	[1000]	ug/L
Ti 334.940†	663545.9	4690.80	0.71%	[1000]	ug/L
Tl 190.801†	3123.2	26.50	0.85%	[1000]	ug/L
U 409.014†	37142.4	138.32	0.37%	[1000]	ug/L
V 292.402†	144645.9	346.78	0.24%	[1000]	ug/L
Zn 213.857†	99891.0	289.99	0.29%	[1000]	ug/L
SiO2†	156299.2	1202.33	0.77%	[10695]	ug/L

Sequence No.: 5
Sample ID: 245806001|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 2/23/2010 14:32:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806001|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4330.7	4330.7	102	%			14:34:10
1	Y RADIAL	5164.9	5164.9	110.1	%			14:34:10
1	Al 396.153Radial†	20045.6	19799.1	17931	ug/L	17931	ppb	14:34:10
1	Ca 317.933Radial†	2809.6	2744.0	5459.4	ug/L	5459.4	ppb	14:34:30
1	Fe 238.204 Radial†	3616.5	3541.9	45632	ug/L	45632	ppb	14:34:10
1	K 766.490 Radial†	16236.4	13390.3	2502.7	ug/L	2502.7	ppb	14:34:10
1	Mg 279.077 IEC†	83.4	79.1	3548.2	ug/L	3548.2	ppb	14:34:30
1	Na 589.592 Radial†	1381.6	2097.3	608.66	ug/L	608.66	ppb	14:34:10
1	Sr 421.552†	6037.4	5893.0	39.017	ug/L	39.017	ppb	14:34:10
1	Sc 361.383	928472.0	928472.0	103.16	%			14:35:27
1	Y 371.029	845469.3	845469.3	110.89	%			14:35:27
1	Ag 328.068†	-2648.0	-2796.3	1.0419	ug/L	1.0419	ppb	14:35:27
1	As 188.979†	-24.1	-2.9	16.853	ug/L	16.853	ppb	14:35:47
1	B 249.677†	325.7	688.7	8.9725	ug/L	8.9725	ppb	14:35:27
1	Ba 233.527†	33048.2	32046.2	251.81	ug/L	251.81	ppb	14:35:27
1	Be 313.107†	6452.2	10108.1	5.7205	ug/L	5.7205	ppb	14:35:27
1	Cd 226.502†	199.2	376.4	-0.2530	ug/L	-0.2530	ppb	14:35:47
1	Co 228.616†	838.4	874.7	15.918	ug/L	15.918	ppb	14:35:47
1	Cr 267.716†	6128.6	5875.1	70.174	ug/L	70.174	ppb	14:35:47
1	Cu 324.752†	202356.3	190087.6	573.05	ug/L	573.05	ppb	14:35:27
1	Mn 257.610†	881714.3	854299.3	962.19	ug/L	962.19	ppb	14:35:27
1	Mo 202.031†	14.3	7.8	4.1764	ug/L	4.1764	ppb	14:35:47
1	Ni 231.604†	1847.1	1738.3	44.172	ug/L	44.172	ppb	14:35:47
1	P 214.914†	779.1	553.2	190.01	ug/L	190.01	ppb	14:35:47
1	Pb 220.353†	24189.1	23514.0	2912.1	ug/L	2912.1	ppb	14:35:27
1	S 181.975 Axial†	85.3	45.6	63.467	ug/L	63.467	ppb	14:35:47
1	Sb 206.836†	98.8	59.0	16.909	ug/L	16.909	ppb	14:35:47
1	Se 196.026†	-214.9	-187.6	18.453	ug/L	18.453	ppb	14:35:47
1	Si 251.611†	576923.1	558736.6	17924	ug/L	17924	ppb	14:35:27
1	Sn 189.927†	1.9	-8.6	-3.2059	ug/L	-3.2059	ppb	14:35:47
1	Ti 334.940†	585571.2	568936.0	860.75	ug/L	860.75	ppb	14:35:27
1	Tl 190.801†	-84.5	-50.7	-4.7398	ug/L	-4.7398	ppb	14:35:47
1	U 409.014†	9482.3	12008.4	319.13	ug/L	319.13	ppb	14:35:27
1	V 292.402†	5752.8	7007.2	41.765	ug/L	41.765	ppb	14:35:27
1	Zn 213.857†	20986.3	19786.4	190.66	ug/L	190.66	ppb	14:35:27
1	SiO2†	565319.0	547470.2	37616	ug/L	37616	ppb	14:36:45
2	Sc Radial	4214.5	4214.5	99.1	%			14:34:35
2	Y RADIAL	5061.2	5061.2	107.9	%			14:34:35
2	Al 396.153Radial†	20029.3	20325.7	18408	ug/L	18408	ppb	14:34:35
2	Ca 317.933Radial†	2756.2	2766.3	5503.8	ug/L	5503.8	ppb	14:34:55
2	Fe 238.204 Radial†	3614.7	3638.0	46870	ug/L	46870	ppb	14:34:35
2	K 766.490 Radial†	16138.6	13731.4	2566.5	ug/L	2566.5	ppb	14:34:35
2	Mg 279.077 IEC†	76.3	74.2	3325.3	ug/L	3325.3	ppb	14:34:55
2	Na 589.592 Radial†	1307.4	2059.9	597.78	ug/L	597.78	ppb	14:34:35
2	Sr 421.552†	6034.2	6053.4	40.080	ug/L	40.080	ppb	14:34:35
2	Sc 361.383	932311.5	932311.5	103.58	%			14:35:53
2	Y 371.029	847483.3	847483.3	111.15	%			14:35:53
2	Ag 328.068†	-2664.6	-2801.8	1.4069	ug/L	1.4069	ppb	14:35:53
2	As 188.979†	-16.7	4.4	20.395	ug/L	20.395	ppb	14:36:13
2	B 249.677†	337.0	698.3	9.0031	ug/L	9.0031	ppb	14:35:53
2	Ba 233.527†	33041.9	31908.1	250.77	ug/L	250.77	ppb	14:35:53
2	Be 313.107†	6451.4	10081.5	5.7013	ug/L	5.7013	ppb	14:35:53
2	Cd 226.502†	228.9	404.3	-0.0591	ug/L	-0.0591	ppb	14:36:13
2	Co 228.616†	797.7	832.0	15.015	ug/L	15.015	ppb	14:36:13
2	Cr 267.716†	6047.2	5772.0	69.140	ug/L	69.140	ppb	14:36:13
2	Cu 324.752†	202690.0	189601.9	571.66	ug/L	571.66	ppb	14:35:53
2	Mn 257.610†	881601.3	850670.1	958.25	ug/L	958.25	ppb	14:35:53
2	Mo 202.031†	7.0	0.7	3.7537	ug/L	3.7537	ppb	14:36:13
2	Ni 231.604†	1822.2	1706.8	43.373	ug/L	43.373	ppb	14:36:13

2	P 214.914†	783.5	554.4	190.12 ug/L	190.12 ppb	14:36:13
2	Pb 220.353†	24212.0	23439.6	2902.8 ug/L	2902.8 ppb	14:35:53
2	S 181.975 Axial†	87.9	47.8	66.568 ug/L	66.568 ppb	14:36:13
2	Sb 206.836†	109.8	69.3	20.463 ug/L	20.463 ppb	14:36:13
2	Se 196.026†	-218.6	-190.3	20.516 ug/L	20.516 ppb	14:36:13
2	Si 251.611†	577885.2	557362.2	17880 ug/L	17880 ppb	14:35:53
2	Sn 189.927†	3.6	-7.0	-2.9737 ug/L	-2.9737 ppb	14:36:13
2	Ti 334.940†	585177.9	566218.6	856.67 ug/L	856.67 ppb	14:35:53
2	Tl 190.801†	-80.1	-46.1	-3.3037 ug/L	-3.3037 ppb	14:36:13
2	U 409.014†	9178.8	11677.6	310.05 ug/L	310.05 ppb	14:35:53
2	V 292.402†	5884.9	7111.8	42.287 ug/L	42.287 ppb	14:35:53
2	Zn 213.857†	21011.3	19726.8	189.88 ug/L	189.88 ppb	14:35:53
2	SiO2†	560497.9	540558.9	37141 ug/L	37141 ppb	14:36:50
3	Sc Radial	4187.0	4187.0	98.4 %		14:35:00
3	Y RADIAL	5027.4	5027.4	107.1 %		14:35:00
3	Al 396.153Radial†	20160.1	20591.1	18648 ug/L	18648 ppb	14:35:00
3	Ca 317.933Radial†	2751.6	2779.8	5530.7 ug/L	5530.7 ppb	14:35:20
3	Fe 238.204 Radial†	3637.2	3684.8	47473 ug/L	47473 ppb	14:35:00
3	K 766.490 Radial†	16125.9	13825.3	2584.1 ug/L	2584.1 ppb	14:35:00
3	Mg 279.077 IEC†	81.6	80.1	3590.9 ug/L	3590.9 ppb	14:35:20
3	Na 589.592 Radial†	1375.1	2137.3	620.24 ug/L	620.24 ppb	14:35:00
3	Sr 421.552†	6099.7	6159.8	40.785 ug/L	40.785 ppb	14:35:00
3	Sc 361.383	936635.5	936635.5	104.06 %		14:36:19
3	Y 371.029	850104.6	850104.6	111.50 %		14:36:19
3	Ag 328.068†	-2723.5	-2846.5	1.3805 ug/L	1.3805 ppb	14:36:19
3	As 188.979†	-11.2	9.8	22.879 ug/L	22.879 ppb	14:36:39
3	B 249.677†	377.2	735.5	9.7916 ug/L	9.7916 ppb	14:36:19
3	Ba 233.527†	32755.2	31485.4	247.49 ug/L	247.49 ppb	14:36:19
3	Be 313.107†	6356.7	9961.8	5.6411 ug/L	5.6411 ppb	14:36:19
3	Cd 226.502†	229.9	404.2	-0.1220 ug/L	-0.1220 ppb	14:36:39
3	Co 228.616†	829.7	859.2	15.589 ug/L	15.589 ppb	14:36:39
3	Cr 267.716†	6073.4	5770.3	69.176 ug/L	69.176 ppb	14:36:39
3	Cu 324.752†	202032.7	188066.9	567.08 ug/L	567.08 ppb	14:36:19
3	Mn 257.610†	877514.7	842814.0	949.49 ug/L	949.49 ppb	14:36:19
3	Mo 202.031†	15.1	8.4	4.3674 ug/L	4.3674 ppb	14:36:39
3	Ni 231.604†	1830.0	1706.2	43.357 ug/L	43.357 ppb	14:36:39
3	P 214.914†	772.9	540.7	182.31 ug/L	182.31 ppb	14:36:39
3	Pb 220.353†	24055.0	23180.8	2870.8 ug/L	2870.8 ppb	14:36:19
3	S 181.975 Axial†	87.0	46.6	64.707 ug/L	64.707 ppb	14:36:39
3	Sb 206.836†	111.2	70.2	20.798 ug/L	20.798 ppb	14:36:39
3	Se 196.026†	-205.7	-177.0	31.187 ug/L	31.187 ppb	14:36:39
3	Si 251.611†	575508.3	552502.6	17724 ug/L	17724 ppb	14:36:19
3	Sn 189.927†	6.8	-3.9	-2.4512 ug/L	-2.4512 ppb	14:36:39
3	Ti 334.940†	583176.4	561687.2	849.79 ug/L	849.79 ppb	14:36:19
3	Tl 190.801†	-76.8	-42.6	-2.2818 ug/L	-2.2818 ppb	14:36:39
3	U 409.014†	9398.1	11847.4	314.57 ug/L	314.57 ppb	14:36:19
3	V 292.402†	5832.0	7034.8	41.693 ug/L	41.693 ppb	14:36:19
3	Zn 213.857†	20920.6	19546.0	187.98 ug/L	187.98 ppb	14:36:19
3	SiO2†	574161.8	551191.3	37872 ug/L	37872 ppb	14:36:56

Mean Data: 245806001|948071|2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	932473.0	103.60	%	0.454				0.44%
Sc Radial	4244.1	99.8	%	1.79				1.80%
Y 371.029	847685.7	111.18	%	0.305				0.27%
Y RADIAL	5084.5	108.4	%	1.53				1.41%
Ag 328.068†	-2814.9	1.2764	ug/L	0.20355	1.2764	ppb	0.20355	15.95%
Al 396.153Radial†	20238.6	18329	ug/L	365.1	18329	ppb	365.1	1.99%
As 188.979†	3.8	20.042	ug/L	3.0283	20.042	ppb	3.0283	15.11%
B 249.677†	707.5	9.2558	ug/L	0.46432	9.2558	ppb	0.46432	5.02%
Ba 233.527†	31813.2	250.02	ug/L	2.257	250.02	ppb	2.257	0.90%
Be 313.107†	10050.4	5.6876	ug/L	0.04143	5.6876	ppb	0.04143	0.73%
Ca 317.933Radial†	2763.4	5498.0	ug/L	36.00	5498.0	ppb	36.00	0.65%
Cd 226.502†	395.0	-0.1447	ug/L	0.09892	-0.1447	ppb	0.09892	68.37%
Co 228.616†	855.3	15.508	ug/L	0.4572	15.508	ppb	0.4572	2.95%
Cr 267.716†	5805.8	69.497	ug/L	0.5866	69.497	ppb	0.5866	0.84%
Cu 324.752†	189252.1	570.60	ug/L	3.123	570.60	ppb	3.123	0.55%
Fe 238.204 Radial†	3621.6	46658	ug/L	938.7	46658	ppb	938.7	2.01%
K 766.490 Radial†	13649.0	2551.1	ug/L	42.82	2551.1	ppb	42.82	1.68%

Mg 279.077 IEC†	77.8	3488.1	ug/L	142.60	3488.1	ppb	142.60	4.09%
Mn 257.610†	849261.1	956.64	ug/L	6.499	956.64	ppb	6.499	0.68%
Mo 202.031†	5.6	4.0992	ug/L	0.31406	4.0992	ppb	0.31406	7.66%
Na 589.592 Radial†	2098.2	608.89	ug/L	11.233	608.89	ppb	11.233	1.84%
Ni 231.604†	1717.1	43.634	ug/L	0.4661	43.634	ppb	0.4661	1.07%
P 214.914†	549.4	187.48	ug/L	4.480	187.48	ppb	4.480	2.39%
Pb 220.353†	23378.1	2895.2	ug/L	21.69	2895.2	ppb	21.69	0.75%
S 181.975 Axial†	46.7	64.914	ug/L	1.5612	64.914	ppb	1.5612	2.40%
Sb 206.836†	66.2	19.390	ug/L	2.1551	19.390	ppb	2.1551	11.11%
Se 196.026†	-185.0	23.385	ug/L	6.8346	23.385	ppb	6.8346	29.23%
Si 251.611†	556200.4	17843	ug/L	105.1	17843	ppb	105.1	0.59%
Sn 189.927†	-6.5	-2.8770	ug/L	0.38654	-2.8770	ppb	0.38654	13.44%
Sr 421.552†	6035.4	39.961	ug/L	0.8900	39.961	ppb	0.8900	2.23%
Ti 334.940†	565613.9	855.74	ug/L	5.537	855.74	ppb	5.537	0.65%
Tl 190.801†	-46.5	-3.4418	ug/L	1.23484	-3.4418	ppb	1.23484	35.88%
U 409.014†	11844.5	314.58	ug/L	4.539	314.58	ppb	4.539	1.44%
V 292.402†	7051.3	41.915	ug/L	0.3240	41.915	ppb	0.3240	0.77%
Zn 213.857†	19686.4	189.51	ug/L	1.376	189.51	ppb	1.376	0.73%
SiO2†	546406.8	37543	ug/L	370.7	37543	ppb	370.7	0.99%

Sequence No.: 6
Sample ID: 1202030970|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 2/23/2010 14:39:06
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030970|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4184.8	4184.8	98.4	%			14:40:59
1	Y RADIAL	5024.7	5024.7	107.1	%			14:40:59
1	Al 396.153Radial†	19569.9	20002.1	18115	ug/L	18115	ppb	14:40:59
1	Ca 317.933Radial†	2649.7	2677.8	5327.7	ug/L	5327.7	ppb	14:41:19
1	Fe 238.204 Radial†	3656.7	3706.6	47754	ug/L	47754	ppb	14:40:59
1	K 766.490 Radial†	16283.9	13994.6	2615.8	ug/L	2615.8	ppb	14:40:59
1	Mg 279.077 IEC†	76.8	75.3	3372.7	ug/L	3372.7	ppb	14:41:19
1	Na 589.592 Radial†	1387.7	2150.8	624.17	ug/L	624.17	ppb	14:40:59
1	Sr 421.552†	5808.4	5867.0	38.846	ug/L	38.846	ppb	14:40:59
1	Sc 361.383	923825.0	923825.0	102.64	%			14:42:16
1	Y 371.029	841468.1	841468.1	110.36	%			14:42:16
1	Ag 328.068†	-2800.3	-2957.6	1.0549	ug/L	1.0549	ppb	14:42:21
1	As 188.979†	-27.1	-5.9	16.024	ug/L	16.024	ppb	14:42:41
1	B 249.677†	147.3	516.5	4.5276	ug/L	4.5276	ppb	14:42:21
1	Ba 233.527†	30840.1	30056.0	236.33	ug/L	236.33	ppb	14:42:21
1	Be 313.107†	4332.9	8074.7	4.9764	ug/L	4.9764	ppb	14:42:21
1	Cd 226.502†	223.1	400.7	-0.2215	ug/L	-0.2215	ppb	14:42:41
1	Co 228.616†	686.0	730.3	12.857	ug/L	12.857	ppb	14:42:41
1	Cr 267.716†	4220.7	4046.2	49.912	ug/L	49.912	ppb	14:42:21
1	Cu 324.752†	60751.0	53111.3	161.91	ug/L	161.91	ppb	14:42:21
1	Mn 257.610†	979086.8	953466.7	1073.6	ug/L	1073.6	ppb	14:42:16
1	Mo 202.031†	16.1	9.6	4.4726	ug/L	4.4726	ppb	14:42:41
1	Ni 231.604†	1389.9	1301.8	33.080	ug/L	33.080	ppb	14:42:41
1	P 214.914†	586.2	369.1	158.33	ug/L	158.33	ppb	14:42:41
1	Pb 220.353†	1257.3	1290.0	158.43	ug/L	158.43	ppb	14:42:41
1	S 181.975 Axial†	81.4	42.2	58.470	ug/L	58.470	ppb	14:42:41
1	Sb 206.836†	65.4	27.0	5.6564	ug/L	5.6564	ppb	14:42:41
1	Se 196.026†	-228.1	-201.5	15.891	ug/L	15.891	ppb	14:42:41
1	Si 251.611†	574333.1	559026.4	17933	ug/L	17933	ppb	14:42:16
1	Sn 189.927†	-5.5	-15.8	-4.6469	ug/L	-4.6469	ppb	14:42:41
1	Ti 334.940†	586739.7	572929.9	866.85	ug/L	866.85	ppb	14:42:16
1	Tl 190.801†	-69.2	-36.2	0.5265	ug/L	0.5265	ppb	14:42:41
1	U 409.014†	4686.2	7381.9	193.92	ug/L	193.92	ppb	14:42:16
1	V 292.402†	5635.4	6920.9	40.617	ug/L	40.617	ppb	14:42:21
1	Zn 213.857†	20044.2	18970.9	182.79	ug/L	182.79	ppb	14:42:21
1	SiO2†	569107.5	553917.9	38059	ug/L	38059	ppb	14:43:48
2	Sc Radial	4160.4	4160.4	97.8	%			14:41:24
2	Y RADIAL	4943.5	4943.5	105.4	%			14:41:24
2	Al 396.153Radial†	19298.3	19841.1	17969	ug/L	17969	ppb	14:41:24
2	Ca 317.933Radial†	2657.2	2701.2	5374.2	ug/L	5374.2	ppb	14:41:44
2	Fe 238.204 Radial†	3620.3	3691.2	47555	ug/L	47555	ppb	14:41:24
2	K 766.490 Radial†	15962.8	13763.4	2572.5	ug/L	2572.5	ppb	14:41:24
2	Mg 279.077 IEC†	76.0	75.0	3357.3	ug/L	3357.3	ppb	14:41:44
2	Na 589.592 Radial†	1442.3	2214.9	642.77	ug/L	642.77	ppb	14:41:24
2	Sr 421.552†	5711.9	5803.0	38.421	ug/L	38.421	ppb	14:41:24
2	Sc 361.383	921711.8	921711.8	102.41	%			14:42:46
2	Y 371.029	839160.1	839160.1	110.06	%			14:42:46
2	Ag 328.068†	-2831.5	-2994.3	0.8301	ug/L	0.8301	ppb	14:42:51
2	As 188.979†	-40.7	-19.2	10.002	ug/L	10.002	ppb	14:43:11
2	B 249.677†	186.2	554.8	5.4745	ug/L	5.4745	ppb	14:42:51
2	Ba 233.527†	30728.8	30016.2	236.01	ug/L	236.01	ppb	14:42:51
2	Be 313.107†	4351.6	8102.6	4.9866	ug/L	4.9866	ppb	14:42:51
2	Cd 226.502†	235.0	412.8	-0.0626	ug/L	-0.0626	ppb	14:43:11
2	Co 228.616†	685.3	731.2	12.879	ug/L	12.879	ppb	14:43:11
2	Cr 267.716†	4181.6	4017.4	49.572	ug/L	49.572	ppb	14:42:51
2	Cu 324.752†	60872.7	53365.8	162.66	ug/L	162.66	ppb	14:42:51
2	Mn 257.610†	976602.7	953228.0	1073.3	ug/L	1073.3	ppb	14:42:46
2	Mo 202.031†	13.8	7.4	4.2959	ug/L	4.2959	ppb	14:43:11
2	Ni 231.604†	1373.0	1288.4	32.740	ug/L	32.740	ppb	14:43:11

2	P 214.914†	588.9	373.0	160.68	ug/L	160.68 ppb	14:43:11
2	Pb 220.353†	1259.8	1295.3	159.08	ug/L	159.08 ppb	14:43:11
2	S 181.975 Axial†	81.9	42.9	59.486	ug/L	59.486 ppb	14:43:11
2	Sb 206.836†	55.6	17.6	2.3938	ug/L	2.3938 ppb	14:43:11
2	Se 196.026†	-219.6	-193.7	20.448	ug/L	20.448 ppb	14:43:11
2	Si 251.611†	572464.5	558484.7	17916	ug/L	17916 ppb	14:42:46
2	Sn 189.927†	-7.5	-17.7	-4.9828	ug/L	-4.9828 ppb	14:43:11
2	Ti 334.940†	585306.4	572840.9	866.72	ug/L	866.72 ppb	14:42:46
2	Tl 190.801†	-77.8	-44.8	-2.2278	ug/L	-2.2278 ppb	14:43:11
2	U 409.014†	4446.4	7158.2	187.90	ug/L	187.90 ppb	14:42:46
2	V 292.402†	5650.5	6948.2	40.822	ug/L	40.822 ppb	14:42:51
2	Zn 213.857†	20052.5	19023.8	183.35	ug/L	183.35 ppb	14:42:51
2	SiO2†	573318.3	559301.0	38429	ug/L	38429 ppb	14:43:53
3	Sc Radial	4238.3	4238.3	99.6	%		14:41:49
3	Y RADIAL	5057.1	5057.1	107.8	%		14:41:49
3	Al 396.153Radial†	19697.4	19878.9	18003	ug/L	18003 ppb	14:41:49
3	Ca 317.933Radial†	2647.9	2642.0	5256.5	ug/L	5256.5 ppb	14:42:09
3	Fe 238.204 Radial†	3695.5	3698.6	47651	ug/L	47651 ppb	14:41:49
3	K 766.490 Radial†	16407.4	13909.6	2599.9	ug/L	2599.9 ppb	14:41:49
3	Mg 279.077 IEC†	78.6	76.2	3411.6	ug/L	3411.6 ppb	14:42:09
3	Na 589.592 Radial†	1437.5	2183.0	633.52	ug/L	633.52 ppb	14:41:49
3	Sr 421.552†	5817.5	5801.7	38.413	ug/L	38.413 ppb	14:41:49
3	Sc 361.383	930341.2	930341.2	103.36	%		14:43:17
3	Y 371.029	845765.0	845765.0	110.93	%		14:43:17
3	Ag 328.068†	-2784.2	-2922.9	1.1857	ug/L	1.1857 ppb	14:43:22
3	As 188.979†	-36.8	-15.1	11.864	ug/L	11.864 ppb	14:43:42
3	B 249.677†	166.5	534.1	4.9646	ug/L	4.9646 ppb	14:43:22
3	Ba 233.527†	30657.8	29669.2	233.30	ug/L	233.30 ppb	14:43:22
3	Be 313.107†	4401.8	8111.8	4.9864	ug/L	4.9864 ppb	14:43:22
3	Cd 226.502†	229.9	405.7	-0.1538	ug/L	-0.1538 ppb	14:43:42
3	Co 228.616†	683.5	723.1	12.711	ug/L	12.711 ppb	14:43:42
3	Cr 267.716†	4279.9	4074.6	50.222	ug/L	50.222 ppb	14:43:22
3	Cu 324.752†	60621.9	52571.9	160.28	ug/L	160.28 ppb	14:43:22
3	Mn 257.610†	983140.6	950707.4	1070.5	ug/L	1070.5 ppb	14:43:17
3	Mo 202.031†	8.9	2.6	3.9489	ug/L	3.9489 ppb	14:43:42
3	Ni 231.604†	1357.6	1261.1	32.045	ug/L	32.045 ppb	14:43:42
3	P 214.914†	576.3	355.5	150.44	ug/L	150.44 ppb	14:43:42
3	Pb 220.353†	1237.7	1262.4	155.01	ug/L	155.01 ppb	14:43:42
3	S 181.975 Axial†	75.6	36.1	49.541	ug/L	49.541 ppb	14:43:42
3	Sb 206.836†	60.7	22.0	3.9278	ug/L	3.9278 ppb	14:43:42
3	Se 196.026†	-216.2	-188.5	24.188	ug/L	24.188 ppb	14:43:42
3	Si 251.611†	576672.1	557370.1	17880	ug/L	17880 ppb	14:43:17
3	Sn 189.927†	-4.1	-14.4	-4.4122	ug/L	-4.4122 ppb	14:43:42
3	Ti 334.940†	589709.8	571799.5	865.13	ug/L	865.13 ppb	14:43:17
3	Tl 190.801†	-84.1	-50.1	-3.9682	ug/L	-3.9682 ppb	14:43:42
3	U 409.014†	4587.7	7254.6	190.49	ug/L	190.49 ppb	14:43:17
3	V 292.402†	5651.7	6898.2	40.463	ug/L	40.463 ppb	14:43:22
3	Zn 213.857†	20038.5	18828.7	181.38	ug/L	181.38 ppb	14:43:22
3	SiO2†	572408.6	553228.0	38011	ug/L	38011 ppb	14:43:59

Mean Data: 1202030970|948071|2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	925292.6	102.80	%	0.500				0.49%
Sc Radial	4194.5	98.6	%	0.94				0.95%
Y 371.029	842131.1	110.45	%	0.440				0.40%
Y RADIAL	5008.5	106.7	%	1.25				1.17%
Ag 328.068†	-2958.3	1.0236	ug/L	0.17989	1.0236	ppb	0.17989	17.57%
Al 396.153Radial†	19907.4	18029	ug/L	76.3	18029	ppb	76.3	0.42%
As 188.979†	-13.4	12.630	ug/L	3.0829	12.630	ppb	3.0829	24.41%
B 249.677†	535.1	4.9889	ug/L	0.47392	4.9889	ppb	0.47392	9.50%
Ba 233.527†	29913.8	235.21	ug/L	1.663	235.21	ppb	1.663	0.71%
Be 313.107†	8096.4	4.9831	ug/L	0.00579	4.9831	ppb	0.00579	0.12%
Ca 317.933Radial†	2673.7	5319.5	ug/L	59.29	5319.5	ppb	59.29	1.11%
Cd 226.502†	406.4	-0.1460	ug/L	0.07975	-0.1460	ppb	0.07975	54.64%
Co 228.616†	728.2	12.816	ug/L	0.0915	12.816	ppb	0.0915	0.71%
Cr 267.716†	4046.0	49.902	ug/L	0.3247	49.902	ppb	0.3247	0.65%
Cu 324.752†	53016.3	161.62	ug/L	1.216	161.62	ppb	1.216	0.75%
Fe 238.204 Radial†	3698.8	47653	ug/L	99.4	47653	ppb	99.4	0.21%
K 766.490 Radial†	13889.2	2596.0	ug/L	21.90	2596.0	ppb	21.90	0.84%

Mg 279.077 IEC†	75.5	3380.5	ug/L	27.99	3380.5	ppb	27.99	0.83%
Mn 257.610†	952467.4	1072.5	ug/L	1.72	1072.5	ppb	1.72	0.16%
Mo 202.031†	6.5	4.2391	ug/L	0.26640	4.2391	ppb	0.26640	6.28%
Na 589.592 Radial†	2182.9	633.49	ug/L	9.300	633.49	ppb	9.300	1.47%
Ni 231.604†	1283.8	32.622	ug/L	0.5274	32.622	ppb	0.5274	1.62%
P 214.914†	365.9	156.48	ug/L	5.364	156.48	ppb	5.364	3.43%
Pb 220.353†	1282.6	157.51	ug/L	2.189	157.51	ppb	2.189	1.39%
S 181.975 Axial†	40.4	55.832	ug/L	5.4722	55.832	ppb	5.4722	9.80%
Sb 206.836†	22.2	3.9927	ug/L	1.63230	3.9927	ppb	1.63230	40.88%
Se 196.026†	-194.6	20.175	ug/L	4.1553	20.175	ppb	4.1553	20.60%
Si 251.611†	558293.7	17910	ug/L	27.1	17910	ppb	27.1	0.15%
Sn 189.927†	-16.0	-4.6806	ug/L	0.28676	-4.6806	ppb	0.28676	6.13%
Sr 421.552†	5823.9	38.560	ug/L	0.2476	38.560	ppb	0.2476	0.64%
Ti 334.940†	572523.4	866.23	ug/L	0.960	866.23	ppb	0.960	0.11%
Tl 190.801†	-43.7	-1.8898	ug/L	2.26631	-1.8898	ppb	2.26631	119.92%
U 409.014†	7264.9	190.77	ug/L	3.021	190.77	ppb	3.021	1.58%
V 292.402†	6922.4	40.634	ug/L	0.1798	40.634	ppb	0.1798	0.44%
Zn 213.857†	18941.1	182.50	ug/L	1.012	182.50	ppb	1.012	0.55%
SiO2†	555482.3	38166	ug/L	228.5	38166	ppb	228.5	0.60%

Sequence No.: 7
Sample ID: 1202030972|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 2/23/2010 14:46:09
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030972|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4134.6	4134.6	97.2	%			14:48:02
1	Y RADIAL	4992.4	4992.4	106.4	%			14:48:02
1	Al 396.153Radial†	43126.8	44478.0	40270	ug/L	40270	ppb	14:48:02
1	Ca 317.933Radial†	4140.2	4243.8	8443.5	ug/L	8443.5	ppb	14:48:02
1	Fe 238.204 Radial†	4092.0	4199.5	54112	ug/L	54112	ppb	14:48:02
1	K 766.490 Radial†	35622.8	34090.7	6373.1	ug/L	6373.1	ppb	14:48:02
1	Mg 279.077 IEC†	168.3	170.4	7689.7	ug/L	7689.7	ppb	14:48:22
1	Na 589.592 Radial†	9755.2	10776.1	3127.3	ug/L	3127.3	ppb	14:48:02
1	Sr 421.552†	42845.0	44040.6	291.83	ug/L	291.83	ppb	14:48:02
1	Sc 361.383	910340.1	910340.1	101.14	%			14:49:20
1	Y 371.029	839987.2	839987.2	110.17	%			14:49:20
1	Ag 328.068†	49873.0	49080.6	242.69	ug/L	242.69	ppb	14:49:20
1	As 188.979†	498.5	513.4	255.29	ug/L	255.29	ppb	14:49:40
1	B 249.677†	10005.9	10265.9	235.49	ug/L	235.49	ppb	14:49:20
1	Ba 233.527†	70585.7	69798.0	547.47	ug/L	547.47	ppb	14:49:20
1	Be 313.107†	655000.6	651459.5	245.86	ug/L	245.86	ppb	14:49:20
1	Cd 226.502†	21123.7	21068.6	239.23	ug/L	239.23	ppb	14:49:40
1	Co 228.616†	12122.5	12047.6	248.94	ug/L	248.94	ppb	14:49:40
1	Cr 267.716†	25584.2	25229.4	288.34	ug/L	288.34	ppb	14:49:40
1	Cu 324.752†	1071328.9	1053157.4	3165.1	ug/L	3165.1	ppb	14:49:20
1	Mn 257.610†	1128576.5	1115399.0	1255.6	ug/L	1255.6	ppb	14:49:20
1	Mo 202.031†	3164.7	3122.9	232.84	ug/L	232.84	ppb	14:49:40
1	Ni 231.604†	11011.4	10834.8	275.25	ug/L	275.25	ppb	14:49:40
1	P 214.914†	2175.5	1948.9	523.40	ug/L	523.40	ppb	14:49:40
1	Pb 220.353†	3376.7	3403.6	423.14	ug/L	423.14	ppb	14:49:40
1	S 181.975 Axial†	1798.5	1741.2	2543.2	ug/L	2543.2	ppb	14:49:40
1	Sb 206.836†	660.6	616.4	218.58	ug/L	218.58	ppb	14:49:40
1	Se 196.026†	138.9	158.0	273.26	ug/L	273.26	ppb	14:49:40
1	Si 251.611†	618389.4	610874.1	19594	ug/L	19594	ppb	14:49:20
1	Sn 189.927†	1505.7	1478.3	265.83	ug/L	265.83	ppb	14:49:40
1	Ti 334.940†	904493.2	895564.1	1354.7	ug/L	1354.7	ppb	14:49:20
1	Tl 190.801†	678.2	701.8	240.77	ug/L	240.77	ppb	14:49:40
1	U 409.014†	14763.9	17413.5	463.72	ug/L	463.72	ppb	14:49:20
1	V 292.402†	40508.5	41481.7	282.85	ug/L	282.85	ppb	14:49:20
1	Zn 213.857†	45476.8	44405.7	431.45	ug/L	431.45	ppb	14:49:20
1	SiO2†	624944.9	617338.3	42410	ug/L	42410	ppb	14:50:37
2	Sc Radial	4097.2	4097.2	96.3	%			14:48:27
2	Y RADIAL	5023.4	5023.4	107.1	%			14:48:27
2	Al 396.153Radial†	42740.5	44482.1	40274	ug/L	40274	ppb	14:48:27
2	Ca 317.933Radial†	4080.6	4220.8	8397.8	ug/L	8397.8	ppb	14:48:27
2	Fe 238.204 Radial†	4055.5	4200.0	54118	ug/L	54118	ppb	14:48:27
2	K 766.490 Radial†	35294.2	34084.1	6371.9	ug/L	6371.9	ppb	14:48:27
2	Mg 279.077 IEC†	172.6	176.4	7962.6	ug/L	7962.6	ppb	14:48:47
2	Na 589.592 Radial†	9584.4	10690.5	3102.4	ug/L	3102.4	ppb	14:48:27
2	Sr 421.552†	42396.1	43976.9	291.41	ug/L	291.41	ppb	14:48:27
2	Sc 361.383	923996.8	923996.8	102.66	%			14:49:46
2	Y 371.029	851901.3	851901.3	111.73	%			14:49:46
2	Ag 328.068†	50735.0	49191.5	243.20	ug/L	243.20	ppb	14:49:46
2	As 188.979†	511.8	519.1	257.86	ug/L	257.86	ppb	14:50:06
2	B 249.677†	10191.9	10300.9	236.33	ug/L	236.33	ppb	14:49:46
2	Ba 233.527†	71527.2	69683.7	546.58	ug/L	546.58	ppb	14:49:46
2	Be 313.107†	664662.0	651299.0	245.79	ug/L	245.79	ppb	14:49:46
2	Cd 226.502†	21321.0	20952.0	237.87	ug/L	237.87	ppb	14:50:06
2	Co 228.616†	12178.0	11924.5	246.36	ug/L	246.36	ppb	14:50:06
2	Cr 267.716†	25739.8	25007.1	285.84	ug/L	285.84	ppb	14:50:06
2	Cu 324.752†	1087053.7	1052819.4	3164.1	ug/L	3164.1	ppb	14:49:46
2	Mn 257.610†	1144648.3	1114562.5	1254.6	ug/L	1254.6	ppb	14:49:46
2	Mo 202.031†	3185.4	3096.8	230.93	ug/L	230.93	ppb	14:50:06
2	Ni 231.604†	11074.4	10735.3	272.72	ug/L	272.72	ppb	14:50:06

2	P 214.914†	2191.2	1932.4	513.53	ug/L	513.53 ppb	14:50:06
2	Pb 220.353†	3410.5	3387.2	421.10	ug/L	421.10 ppb	14:50:06
2	S 181.975 Axial†	1816.6	1732.6	2530.6	ug/L	2530.6 ppb	14:50:06
2	Sb 206.836†	661.8	607.9	215.51	ug/L	215.51 ppb	14:50:06
2	Se 196.026†	146.9	163.8	277.07	ug/L	277.07 ppb	14:50:06
2	Si 251.611†	628007.6	611206.6	19605	ug/L	19605 ppb	14:49:46
2	Sn 189.927†	1500.7	1451.4	260.96	ug/L	260.96 ppb	14:50:06
2	Ti 334.940†	917464.9	894982.3	1353.8	ug/L	1353.8 ppb	14:49:46
2	Tl 190.801†	677.1	690.7	237.24	ug/L	237.24 ppb	14:50:06
2	U 409.014†	15084.9	17510.4	466.35	ug/L	466.35 ppb	14:49:46
2	V 292.402†	41006.4	41374.7	282.09	ug/L	282.09 ppb	14:49:46
2	Zn 213.857†	46116.3	44364.0	431.04	ug/L	431.04 ppb	14:49:46
2	SiO2†	623697.4	606990.7	41699	ug/L	41699 ppb	14:50:43
3	Sc Radial	4249.6	4249.6	99.9	%		14:48:52
3	Y RADIAL	5149.7	5149.7	109.8	%		14:48:52
3	Al 396.153Radial†	43750.0	43901.0	39748	ug/L	39748 ppb	14:48:52
3	Ca 317.933Radial†	4189.5	4177.9	8312.3	ug/L	8312.3 ppb	14:48:52
3	Fe 238.204 Radial†	4130.7	4124.3	53143	ug/L	53143 ppb	14:48:52
3	K 766.490 Radial†	36190.6	33667.1	6294.0	ug/L	6294.0 ppb	14:48:52
3	Mg 279.077 IEC†	173.3	170.7	7706.0	ug/L	7706.0 ppb	14:49:12
3	Na 589.592 Radial†	9843.6	10593.0	3074.1	ug/L	3074.1 ppb	14:48:52
3	Sr 421.552†	43355.6	43358.7	287.31	ug/L	287.31 ppb	14:48:52
3	Sc 361.383	917756.1	917756.1	101.97	%		14:50:12
3	Y 371.029	845538.5	845538.5	110.90	%		14:50:12
3	Ag 328.068†	50381.1	49180.5	242.86	ug/L	242.86 ppb	14:50:12
3	As 188.979†	499.5	510.4	253.73	ug/L	253.73 ppb	14:50:32
3	B 249.677†	10064.0	10242.9	235.11	ug/L	235.11 ppb	14:50:12
3	Ba 233.527†	71423.1	70055.3	549.46	ug/L	549.46 ppb	14:50:12
3	Be 313.107†	659725.8	650860.5	245.64	ug/L	245.64 ppb	14:50:12
3	Cd 226.502†	21225.2	20999.3	238.52	ug/L	238.52 ppb	14:50:32
3	Co 228.616†	12172.4	11999.7	247.94	ug/L	247.94 ppb	14:50:32
3	Cr 267.716†	25693.2	25131.9	287.15	ug/L	287.15 ppb	14:50:32
3	Cu 324.752†	1079712.6	1052820.2	3164.1	ug/L	3164.1 ppb	14:50:12
3	Mn 257.610†	1139445.4	1117041.7	1257.3	ug/L	1257.3 ppb	14:50:12
3	Mo 202.031†	3151.9	3085.1	230.00	ug/L	230.00 ppb	14:50:32
3	Ni 231.604†	11037.4	10772.3	273.66	ug/L	273.66 ppb	14:50:32
3	P 214.914†	2167.4	1923.6	508.86	ug/L	508.86 ppb	14:50:32
3	Pb 220.353†	3394.8	3394.3	421.98	ug/L	421.98 ppb	14:50:32
3	S 181.975 Axial†	1813.5	1741.5	2543.8	ug/L	2543.8 ppb	14:50:32
3	Sb 206.836†	646.7	597.5	211.92	ug/L	211.92 ppb	14:50:32
3	Se 196.026†	143.8	161.7	272.67	ug/L	272.67 ppb	14:50:32
3	Si 251.611†	625094.0	612509.0	19646	ug/L	19646 ppb	14:50:12
3	Sn 189.927†	1505.0	1465.5	263.56	ug/L	263.56 ppb	14:50:32
3	Ti 334.940†	913198.6	896875.4	1356.6	ug/L	1356.6 ppb	14:50:12
3	Tl 190.801†	681.8	699.9	240.20	ug/L	240.20 ppb	14:50:32
3	U 409.014†	14701.9	17234.7	459.01	ug/L	459.01 ppb	14:50:12
3	V 292.402†	40932.9	41574.2	283.58	ug/L	283.58 ppb	14:50:12
3	Zn 213.857†	45891.1	44448.7	432.03	ug/L	432.03 ppb	14:50:12
3	SiO2†	629475.0	616788.2	42372	ug/L	42372 ppb	14:50:48

Mean Data: 1202030972|948071|2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	917364.3	101.92	%	0.760				0.75%
Sc Radial	4160.5	97.8	%	1.87				1.91%
Y 371.029	845809.0	110.93	%	0.782				0.70%
Y RADIAL	5055.2	107.7	%	1.78				1.65%
Ag 328.068†	49150.9	242.92	ug/L	0.258	242.92	ppb	0.258	0.11%
Al 396.153Radial†	44287.0	40097	ug/L	302.7	40097	ppb	302.7	0.75%
As 188.979†	514.3	255.63	ug/L	2.081	255.63	ppb	2.081	0.81%
B 249.677†	10269.9	235.64	ug/L	0.628	235.64	ppb	0.628	0.27%
Ba 233.527†	69845.7	547.84	ug/L	1.472	547.84	ppb	1.472	0.27%
Be 313.107†	651206.3	245.76	ug/L	0.113	245.76	ppb	0.113	0.05%
Ca 317.933Radial†	4214.2	8384.5	ug/L	66.56	8384.5	ppb	66.56	0.79%
Cd 226.502†	21006.6	238.54	ug/L	0.678	238.54	ppb	0.678	0.28%
Co 228.616†	11990.6	247.75	ug/L	1.299	247.75	ppb	1.299	0.52%
Cr 267.716†	25122.8	287.11	ug/L	1.248	287.11	ppb	1.248	0.43%
Cu 324.752†	1052932.3	3164.4	ug/L	0.60	3164.4	ppb	0.60	0.02%
Fe 238.204 Radial†	4174.6	53791	ug/L	561.1	53791	ppb	561.1	1.04%
K 766.490 Radial†	33947.3	6346.3	ug/L	45.37	6346.3	ppb	45.37	0.71%

Mg 279.077 IEC†	172.5	7786.1 ug/L	153.09	7786.1 ppb	153.09	1.97%
Mn 257.610†	1115667.7	1255.9 ug/L	1.37	1255.9 ppb	1.37	0.11%
Mo 202.031†	3101.6	231.26 ug/L	1.447	231.26 ppb	1.447	0.63%
Na 589.592 Radial†	10686.5	3101.3 ug/L	26.59	3101.3 ppb	26.59	0.86%
Ni 231.604†	10780.8	273.87 ug/L	1.278	273.87 ppb	1.278	0.47%
P 214.914†	1935.0	515.26 ug/L	7.424	515.26 ppb	7.424	1.44%
Pb 220.353†	3395.0	422.07 ug/L	1.023	422.07 ppb	1.023	0.24%
S 181.975 Axial†	1738.4	2539.2 ug/L	7.47	2539.2 ppb	7.47	0.29%
Sb 206.836†	607.3	215.34 ug/L	3.330	215.34 ppb	3.330	1.55%
Se 196.026†	161.2	274.33 ug/L	2.390	274.33 ppb	2.390	0.87%
Si 251.611†	611529.9	19615 ug/L	27.7	19615 ppb	27.7	0.14%
Sn 189.927†	1465.1	263.45 ug/L	2.436	263.45 ppb	2.436	0.92%
Sr 421.552†	43792.1	290.19 ug/L	2.496	290.19 ppb	2.496	0.86%
Ti 334.940†	895807.2	1355.0 ug/L	1.47	1355.0 ppb	1.47	0.11%
Tl 190.801†	697.5	239.40 ug/L	1.895	239.40 ppb	1.895	0.79%
U 409.014†	17386.2	463.03 ug/L	3.720	463.03 ppb	3.720	0.80%
V 292.402†	41476.9	282.84 ug/L	0.746	282.84 ppb	0.746	0.26%
Zn 213.857†	44406.1	431.51 ug/L	0.498	431.51 ppb	0.498	0.12%
SiO2†	613705.7	42161 ug/L	400.0	42161 ppb	400.0	0.95%

Sequence No.: 8
Sample ID: 1202030973|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 2/23/2010 14:52:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030973|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4094.4	4094.4	96.3	%			14:54:52
1	Y RADIAL	4956.7	4956.7	105.6	%			14:54:52
1	Al 396.153Radial†	40681.5	42373.0	38363	ug/L	38363	ppb	14:54:52
1	Ca 317.933Radial†	3963.9	4102.5	8162.2	ug/L	8162.2	ppb	14:54:52
1	Fe 238.204 Radial†	3801.9	3939.5	50762	ug/L	50762	ppb	14:54:52
1	K 766.490 Radial†	35001.0	33804.2	6319.6	ug/L	6319.6	ppb	14:54:52
1	Mg 279.077 IEC†	160.8	164.3	7418.0	ug/L	7418.0	ppb	14:55:12
1	Na 589.592 Radial†	9861.7	10985.3	3188.0	ug/L	3188.0	ppb	14:54:52
1	Sr 421.552†	43248.7	44892.4	297.48	ug/L	297.48	ppb	14:54:52
1	Sc 361.383	902816.7	902816.7	100.31	%			14:56:09
1	Y 371.029	826939.9	826939.9	108.46	%			14:56:09
1	Ag 328.068†	51901.9	51514.3	252.90	ug/L	252.90	ppb	14:56:09
1	As 188.979†	525.6	544.5	267.66	ug/L	267.66	ppb	14:56:29
1	B 249.677†	10353.6	10694.9	246.24	ug/L	246.24	ppb	14:56:09
1	Ba 233.527†	62928.5	62745.7	492.30	ug/L	492.30	ppb	14:56:09
1	Be 313.107†	676371.4	678161.8	255.59	ug/L	255.59	ppb	14:56:09
1	Cd 226.502†	22023.4	22139.6	252.01	ug/L	252.01	ppb	14:56:29
1	Co 228.616†	12662.2	12685.5	262.51	ug/L	262.51	ppb	14:56:29
1	Cr 267.716†	28370.5	28218.0	321.56	ug/L	321.56	ppb	14:56:29
1	Cu 324.752†	189976.9	183320.3	552.94	ug/L	552.94	ppb	14:56:09
1	Mn 257.610†	1045955.1	1042328.1	1173.4	ug/L	1173.4	ppb	14:56:09
1	Mo 202.031†	3325.7	3309.5	246.24	ug/L	246.24	ppb	14:56:29
1	Ni 231.604†	11826.5	11738.2	298.20	ug/L	298.20	ppb	14:56:29
1	P 214.914†	1145.5	939.9	432.10	ug/L	432.10	ppb	14:56:29
1	Pb 220.353†	3635.1	3689.1	460.01	ug/L	460.01	ppb	14:56:29
1	S 181.975 Axial†	1852.8	1810.1	2644.6	ug/L	2644.6	ppb	14:56:29
1	Sb 206.836†	689.7	650.9	231.17	ug/L	231.17	ppb	14:56:29
1	Se 196.026†	163.8	184.0	279.97	ug/L	279.97	ppb	14:56:29
1	Si 251.611†	639204.5	636720.8	20423	ug/L	20423	ppb	14:56:09
1	Sn 189.927†	1437.7	1422.8	255.94	ug/L	255.94	ppb	14:56:29
1	Ti 334.940†	833892.6	832631.1	1259.5	ug/L	1259.5	ppb	14:56:09
1	Tl 190.801†	726.4	755.4	256.74	ug/L	256.74	ppb	14:56:29
1	U 409.014†	13521.4	16296.5	433.85	ug/L	433.85	ppb	14:56:09
1	V 292.402†	41245.2	42549.8	290.97	ug/L	290.97	ppb	14:56:09
1	Zn 213.857†	44174.1	43481.7	426.06	ug/L	426.06	ppb	14:56:09
1	SiO2†	647982.0	645454.2	44342	ug/L	44342	ppb	14:57:27
2	Sc Radial	4097.9	4097.9	96.3	%			14:55:17
2	Y RADIAL	4933.3	4933.3	105.1	%			14:55:17
2	Al 396.153Radial†	40391.4	42036.3	38058	ug/L	38058	ppb	14:55:17
2	Ca 317.933Radial†	3946.2	4080.6	8118.7	ug/L	8118.7	ppb	14:55:17
2	Fe 238.204 Radial†	3799.5	3933.6	50686	ug/L	50686	ppb	14:55:17
2	K 766.490 Radial†	34720.0	33481.9	6259.3	ug/L	6259.3	ppb	14:55:17
2	Mg 279.077 IEC†	160.1	163.4	7376.2	ug/L	7376.2	ppb	14:55:37
2	Na 589.592 Radial†	9769.8	10881.3	3157.8	ug/L	3157.8	ppb	14:55:17
2	Sr 421.552†	42884.6	44476.6	294.72	ug/L	294.72	ppb	14:55:17
2	Sc 361.383	913074.5	913074.5	101.45	%			14:56:35
2	Y 371.029	835370.7	835370.7	109.57	%			14:56:35
2	Ag 328.068†	52589.6	51610.9	253.32	ug/L	253.32	ppb	14:56:35
2	As 188.979†	529.9	542.9	266.94	ug/L	266.94	ppb	14:56:55
2	B 249.677†	10503.2	10726.5	247.01	ug/L	247.01	ppb	14:56:35
2	Ba 233.527†	63802.5	62902.5	493.53	ug/L	493.53	ppb	14:56:35
2	Be 313.107†	685685.5	679767.7	256.19	ug/L	256.19	ppb	14:56:35
2	Cd 226.502†	22112.1	21980.3	250.17	ug/L	250.17	ppb	14:56:55
2	Co 228.616†	12704.7	12585.6	260.42	ug/L	260.42	ppb	14:56:55
2	Cr 267.716†	28349.7	27879.7	317.76	ug/L	317.76	ppb	14:56:55
2	Cu 324.752†	192063.8	183249.8	552.72	ug/L	552.72	ppb	14:56:35
2	Mn 257.610†	1060767.0	1045214.1	1176.6	ug/L	1176.6	ppb	14:56:35
2	Mo 202.031†	3355.2	3301.3	245.63	ug/L	245.63	ppb	14:56:55
2	Ni 231.604†	11821.8	11601.0	294.71	ug/L	294.71	ppb	14:56:55

2	P 214.914†	1155.5	937.0	430.32 ug/L	430.32 ppb	14:56:55
2	Pb 220.353†	3638.8	3651.9	455.35 ug/L	455.35 ppb	14:56:55
2	S 181.975 Axial†	1872.6	1808.9	2642.9 ug/L	2642.9 ppb	14:56:55
2	Sb 206.836†	704.4	657.6	233.48 ug/L	233.48 ppb	14:56:55
2	Se 196.026†	152.7	171.2	271.35 ug/L	271.35 ppb	14:56:55
2	Si 251.611†	648213.4	638442.2	20478 ug/L	20478 ppb	14:56:35
2	Sn 189.927†	1444.6	1413.6	254.27 ug/L	254.27 ppb	14:56:55
2	Ti 334.940†	844028.0	833282.3	1260.5 ug/L	1260.5 ppb	14:56:35
2	Tl 190.801†	713.5	734.5	250.06 ug/L	250.06 ppb	14:56:55
2	U 409.014†	13746.1	16366.5	435.76 ug/L	435.76 ppb	14:56:35
2	V 292.402†	41833.6	42667.9	291.80 ug/L	291.80 ppb	14:56:35
2	Zn 213.857†	44784.0	43588.1	427.16 ug/L	427.16 ppb	14:56:35
2	SiO2†	646496.2	636732.1	43742 ug/L	43742 ppb	14:57:33
3	Sc Radial	4072.5	4072.5	95.7 %		14:55:42
3	Y RADIAL	4916.9	4916.9	104.8 %		14:55:42
3	Al 396.153Radial†	40131.3	42025.8	38049 ug/L	38049 ppb	14:55:42
3	Ca 317.933Radial†	3910.1	4068.5	8094.6 ug/L	8094.6 ppb	14:55:42
3	Fe 238.204 Radial†	3770.8	3928.2	50616 ug/L	50616 ppb	14:55:42
3	K 766.490 Radial†	34369.2	33340.1	6232.8 ug/L	6232.8 ppb	14:55:42
3	Mg 279.077 IEC†	161.8	166.3	7505.8 ug/L	7505.8 ppb	14:56:02
3	Na 589.592 Radial†	9659.9	10829.6	3142.8 ug/L	3142.8 ppb	14:55:42
3	Sr 421.552†	42593.4	44449.8	294.55 ug/L	294.55 ppb	14:55:42
3	Sc 361.383	900183.2	900183.2	100.01 %		14:57:01
3	Y 371.029	822398.2	822398.2	107.86 %		14:57:01
3	Ag 328.068†	51869.5	51633.3	253.40 ug/L	253.40 ppb	14:57:01
3	As 188.979†	540.1	560.5	274.86 ug/L	274.86 ppb	14:57:21
3	B 249.677†	10362.4	10734.0	247.19 ug/L	247.19 ppb	14:57:01
3	Ba 233.527†	63090.0	63090.8	494.99 ug/L	494.99 ppb	14:57:01
3	Be 313.107†	674044.8	677808.2	255.46 ug/L	255.46 ppb	14:57:01
3	Cd 226.502†	22015.8	22196.2	252.68 ug/L	252.68 ppb	14:57:21
3	Co 228.616†	12642.2	12702.4	262.87 ug/L	262.87 ppb	14:57:21
3	Cr 267.716†	28255.1	28185.4	321.18 ug/L	321.18 ppb	14:57:21
3	Cu 324.752†	189307.2	183204.9	552.58 ug/L	552.58 ppb	14:57:01
3	Mn 257.610†	1046627.8	1046051.4	1177.5 ug/L	1177.5 ppb	14:57:01
3	Mo 202.031†	3321.4	3314.9	246.62 ug/L	246.62 ppb	14:57:21
3	Ni 231.604†	11795.4	11741.5	298.28 ug/L	298.28 ppb	14:57:21
3	P 214.914†	1141.8	939.6	432.04 ug/L	432.04 ppb	14:57:21
3	Pb 220.353†	3619.6	3684.1	459.34 ug/L	459.34 ppb	14:57:21
3	S 181.975 Axial†	1871.0	1833.7	2679.1 ug/L	2679.1 ppb	14:57:21
3	Sb 206.836†	689.3	652.5	231.75 ug/L	231.75 ppb	14:57:21
3	Se 196.026†	169.8	190.5	283.83 ug/L	283.83 ppb	14:57:21
3	Si 251.611†	639198.9	638579.5	20483 ug/L	20483 ppb	14:57:01
3	Sn 189.927†	1442.3	1431.7	257.54 ug/L	257.54 ppb	14:57:21
3	Ti 334.940†	832532.5	833703.3	1261.1 ug/L	1261.1 ppb	14:57:01
3	Tl 190.801†	714.8	745.9	253.73 ug/L	253.73 ppb	14:57:21
3	U 409.014†	13476.3	16290.8	433.71 ug/L	433.71 ppb	14:57:01
3	V 292.402†	41123.2	42548.1	290.99 ug/L	290.99 ppb	14:57:01
3	Zn 213.857†	44119.5	43555.9	426.83 ug/L	426.83 ppb	14:57:01
3	SiO2†	644064.5	643427.1	44202 ug/L	44202 ppb	14:57:38

Mean Data: 1202030973|948071|2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	905358.1	100.59	%	0.757				0.75%
Sc Radial	4088.3	96.1	%	0.32				0.34%
Y 371.029	828236.3	108.63	%	0.863				0.79%
Y RADIAL	4935.6	105.2	%	0.43				0.41%
Ag 328.068†	51586.1	253.21	ug/L	0.270	253.21	ppb	0.270	0.11%
Al 396.153Radial†	42145.0	38157	ug/L	178.8	38157	ppb	178.8	0.47%
As 188.979†	549.3	269.82	ug/L	4.381	269.82	ppb	4.381	1.62%
B 249.677†	10718.5	246.81	ug/L	0.506	246.81	ppb	0.506	0.21%
Ba 233.527†	62913.0	493.61	ug/L	1.347	493.61	ppb	1.347	0.27%
Be 313.107†	678579.2	255.75	ug/L	0.389	255.75	ppb	0.389	0.15%
Ca 317.933Radial†	4083.8	8125.2	ug/L	34.28	8125.2	ppb	34.28	0.42%
Cd 226.502†	22105.3	251.62	ug/L	1.302	251.62	ppb	1.302	0.52%
Co 228.616†	12657.9	261.93	ug/L	1.321	261.93	ppb	1.321	0.50%
Cr 267.716†	28094.3	320.17	ug/L	2.093	320.17	ppb	2.093	0.65%
Cu 324.752†	183258.3	552.75	ug/L	0.179	552.75	ppb	0.179	0.03%
Fe 238.204 Radial†	3933.8	50688	ug/L	72.9	50688	ppb	72.9	0.14%
K 766.490 Radial†	33542.1	6270.6	ug/L	44.48	6270.6	ppb	44.48	0.71%

Mg 279.077 IEC†	164.7	7433.3	ug/L	66.14	7433.3	ppb	66.14	0.89%
Mn 257.610†	1044531.2	1175.8	ug/L	2.18	1175.8	ppb	2.18	0.19%
Mo 202.031†	3308.6	246.16	ug/L	0.499	246.16	ppb	0.499	0.20%
Na 589.592 Radial†	10898.7	3162.8	ug/L	23.02	3162.8	ppb	23.02	0.73%
Ni 231.604†	11693.6	297.07	ug/L	2.037	297.07	ppb	2.037	0.69%
P 214.914†	938.8	431.48	ug/L	1.012	431.48	ppb	1.012	0.23%
Pb 220.353†	3675.0	458.23	ug/L	2.519	458.23	ppb	2.519	0.55%
S 181.975 Axial†	1817.6	2655.5	ug/L	20.46	2655.5	ppb	20.46	0.77%
Sb 206.836†	653.7	232.13	ug/L	1.202	232.13	ppb	1.202	0.52%
Se 196.026†	181.9	278.38	ug/L	6.390	278.38	ppb	6.390	2.30%
Si 251.611†	637914.2	20461	ug/L	33.2	20461	ppb	33.2	0.16%
Sn 189.927†	1422.7	255.91	ug/L	1.636	255.91	ppb	1.636	0.64%
Sr 421.552†	44606.3	295.58	ug/L	1.644	295.58	ppb	1.644	0.56%
Ti 334.940†	833205.6	1260.3	ug/L	0.81	1260.3	ppb	0.81	0.06%
Tl 190.801†	745.3	253.51	ug/L	3.347	253.51	ppb	3.347	1.32%
U 409.014†	16317.9	434.44	ug/L	1.144	434.44	ppb	1.144	0.26%
V 292.402†	42588.6	291.25	ug/L	0.472	291.25	ppb	0.472	0.16%
Zn 213.857†	43541.9	426.69	ug/L	0.565	426.69	ppb	0.565	0.13%
SiO2†	641871.1	44095	ug/L	313.6	44095	ppb	313.6	0.71%

Sequence No.: 9
Sample ID: 1202030971|948071|10
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 2/23/2010 14:59:49
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202030971|948071|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4347.3	4347.3	102	%			15:01:42
1	Y RADIAL	4882.1	4882.1	104.1	%			15:01:42
1	Al 396.153Radial†	3863.0	3890.4	3523.3	ug/L	3523.3	ppb	15:01:42
1	Ca 317.933Radial†	583.8	555.7	1105.7	ug/L	1105.7	ppb	15:02:02
1	Fe 238.204 Radial†	727.4	701.5	9038.4	ug/L	9038.4	ppb	15:02:02
1	K 766.490 Radial†	5320.7	2649.2	495.14	ug/L	495.14	ppb	15:01:42
1	Mg 279.077 IEC†	18.9	15.8	707.08	ug/L	707.08	ppb	15:02:02
1	Na 589.592 Radial†	-396.8	352.1	102.17	ug/L	102.17	ppb	15:01:42
1	Sr 421.552†	1215.8	1152.8	7.6322	ug/L	7.6322	ppb	15:01:42
1	Sc 361.383	920371.9	920371.9	102.26	%			15:02:59
1	Y 371.029	787435.2	787435.2	103.28	%			15:02:59
1	Ag 328.068†	-363.3	-584.6	0.0644	ug/L	0.0644	ppb	15:03:04
1	As 188.979†	-25.4	-4.3	1.6281	ug/L	1.6281	ppb	15:03:24
1	B 249.677†	-340.4	40.0	-0.5233	ug/L	-0.5233	ppb	15:03:04
1	Ba 233.527†	6576.3	6440.3	50.601	ug/L	50.601	ppb	15:03:04
1	Be 313.107†	-1866.6	2027.9	1.1388	ug/L	1.1388	ppb	15:03:04
1	Cd 226.502†	-107.1	78.6	-0.0031	ug/L	-0.0031	ppb	15:03:24
1	Co 228.616†	116.1	175.5	3.2048	ug/L	3.2048	ppb	15:03:24
1	Cr 267.716†	1252.9	1159.2	13.849	ug/L	13.849	ppb	15:03:24
1	Cu 324.752†	43937.6	36891.0	111.22	ug/L	111.22	ppb	15:03:04
1	Mn 257.610†	177818.8	173458.3	195.34	ug/L	195.34	ppb	15:02:59
1	Mo 202.031†	17.1	10.6	1.4935	ug/L	1.4935	ppb	15:03:24
1	Ni 231.604†	418.3	356.8	9.0657	ug/L	9.0657	ppb	15:03:24
1	P 214.914†	320.8	111.7	39.370	ug/L	39.370	ppb	15:03:24
1	Pb 220.353†	4657.8	4620.0	572.16	ug/L	572.16	ppb	15:03:24
1	S 181.975 Axial†	53.7	15.5	21.978	ug/L	21.978	ppb	15:03:24
1	Sb 206.836†	52.8	15.0	4.4965	ug/L	4.4965	ppb	15:03:24
1	Se 196.026†	-55.1	-33.2	6.2836	ug/L	6.2836	ppb	15:03:24
1	Si 251.611†	113676.5	110634.0	3549.1	ug/L	3549.1	ppb	15:03:04
1	Sn 189.927†	5.2	-5.3	-1.2886	ug/L	-1.2886	ppb	15:03:24
1	Ti 334.940†	112757.4	111551.1	168.77	ug/L	168.77	ppb	15:03:04
1	Tl 190.801†	-53.3	-20.9	-4.4163	ug/L	-4.4163	ppb	15:03:24
1	U 409.014†	-445.4	2380.7	63.269	ug/L	63.269	ppb	15:02:59
1	V 292.402†	-67.5	1364.4	8.1207	ug/L	8.1207	ppb	15:03:04
1	Zn 213.857†	4516.7	3859.3	37.165	ug/L	37.165	ppb	15:03:24
1	SiO2†	115556.1	112454.8	7726.6	ug/L	7726.6	ppb	15:04:30
2	Sc Radial	4101.8	4101.8	96.4	%			15:02:07
2	Y RADIAL	4620.9	4620.9	98.48	%			15:02:07
2	Al 396.153Radial†	3876.8	4130.9	3741.2	ug/L	3741.2	ppb	15:02:07
2	Ca 317.933Radial†	580.7	586.7	1167.3	ug/L	1167.3	ppb	15:02:27
2	Fe 238.204 Radial†	727.5	744.2	9588.0	ug/L	9588.0	ppb	15:02:27
2	K 766.490 Radial†	5282.0	2920.6	545.88	ug/L	545.88	ppb	15:02:07
2	Mg 279.077 IEC†	16.4	14.2	636.21	ug/L	636.21	ppb	15:02:27
2	Na 589.592 Radial†	-307.8	421.2	122.23	ug/L	122.23	ppb	15:02:07
2	Sr 421.552†	1238.5	1247.5	8.2596	ug/L	8.2596	ppb	15:02:07
2	Sc 361.383	870949.9	870949.9	96.765	%			15:03:29
2	Y 371.029	744609.0	744609.0	97.661	%			15:03:29
2	Ag 328.068†	-275.1	-513.7	0.5645	ug/L	0.5645	ppb	15:03:34
2	As 188.979†	-20.7	-0.8	3.4514	ug/L	3.4514	ppb	15:03:54
2	B 249.677†	-293.1	70.1	0.1053	ug/L	0.1053	ppb	15:03:34
2	Ba 233.527†	6702.5	6935.7	54.490	ug/L	54.490	ppb	15:03:34
2	Be 313.107†	-1985.8	1801.1	1.0838	ug/L	1.0838	ppb	15:03:34
2	Cd 226.502†	-109.4	70.3	-0.1562	ug/L	-0.1562	ppb	15:03:54
2	Co 228.616†	111.1	176.7	3.1964	ug/L	3.1964	ppb	15:03:54
2	Cr 267.716†	1291.3	1268.5	15.130	ug/L	15.130	ppb	15:03:54
2	Cu 324.752†	44690.0	40106.8	120.91	ug/L	120.91	ppb	15:03:34
2	Mn 257.610†	180124.4	185708.6	209.13	ug/L	209.13	ppb	15:03:29
2	Mo 202.031†	10.7	5.0	1.1238	ug/L	1.1238	ppb	15:03:54
2	Ni 231.604†	428.1	390.0	9.9119	ug/L	9.9119	ppb	15:03:54

2	P 214.914†	328.5	137.5	52.719 ug/L	52.719 ppb	15:03:54
2	Pb 220.353†	4672.9	4894.2	606.11 ug/L	606.11 ppb	15:03:54
2	S 181.975 Axial†	53.3	18.0	25.658 ug/L	25.658 ppb	15:03:54
2	Sb 206.836†	49.0	13.9	4.1025 ug/L	4.1025 ppb	15:03:54
2	Se 196.026†	-65.4	-46.9	-1.0378 ug/L	-1.0378 ppb	15:03:54
2	Si 251.611†	115826.5	119164.1	3822.8 ug/L	3822.8 ppb	15:03:34
2	Sn 189.927†	15.7	5.8	0.6998 ug/L	0.6998 ppb	15:03:54
2	Ti 334.940†	115015.2	120141.6	181.78 ug/L	181.78 ppb	15:03:34
2	Tl 190.801†	-44.4	-14.7	-2.2577 ug/L	-2.2577 ppb	15:03:54
2	U 409.014†	-523.9	2274.9	60.343 ug/L	60.343 ppb	15:03:29
2	V 292.402†	76.6	1509.6	9.0216 ug/L	9.0216 ppb	15:03:34
2	Zn 213.857†	4502.0	4094.8	39.427 ug/L	39.427 ppb	15:03:54
2	SiO2†	115874.3	119196.1	8189.8 ug/L	8189.8 ppb	15:04:35
3	Sc Radial	4135.8	4135.8	97.2 %		15:02:32
3	Y RADIAL	4643.8	4643.8	98.97 %		15:02:32
3	Al 396.153Radial†	3814.0	4033.4	3652.8 ug/L	3652.8 ppb	15:02:32
3	Ca 317.933Radial†	575.7	576.6	1147.3 ug/L	1147.3 ppb	15:02:52
3	Fe 238.204 Radial†	734.2	744.9	9597.4 ug/L	9597.4 ppb	15:02:52
3	K 766.490 Radial†	5226.1	2818.2	526.73 ug/L	526.73 ppb	15:02:32
3	Mg 279.077 IEC†	17.7	15.5	692.31 ug/L	692.31 ppb	15:02:52
3	Na 589.592 Radial†	-258.3	474.7	137.77 ug/L	137.77 ppb	15:02:32
3	Sr 421.552†	1186.4	1183.4	7.8347 ug/L	7.8347 ppb	15:02:32
3	Sc 361.383	926177.6	926177.6	102.90 %		15:04:00
3	Y 371.029	790463.1	790463.1	103.68 %		15:04:00
3	Ag 328.068†	-341.5	-561.2	0.3415 ug/L	0.3415 ppb	15:04:05
3	As 188.979†	-24.9	-3.7	2.0277 ug/L	2.0277 ppb	15:04:25
3	B 249.677†	-418.4	-33.6	-2.3705 ug/L	-2.3705 ppb	15:04:05
3	Ba 233.527†	6546.0	6370.6	50.074 ug/L	50.074 ppb	15:04:05
3	Be 313.107†	-1920.1	1987.4	1.1176 ug/L	1.1176 ppb	15:04:05
3	Cd 226.502†	-118.7	67.9	-0.1846 ug/L	-0.1846 ppb	15:04:25
3	Co 228.616†	95.5	154.8	2.7680 ug/L	2.7680 ppb	15:04:25
3	Cr 267.716†	1266.1	1164.5	13.960 ug/L	13.960 ppb	15:04:25
3	Cu 324.752†	43432.1	36130.4	108.97 ug/L	108.97 ppb	15:04:05
3	Mn 257.610†	179760.8	174255.5	196.29 ug/L	196.29 ppb	15:04:00
3	Mo 202.031†	9.2	2.9	0.9717 ug/L	0.9717 ppb	15:04:25
3	Ni 231.604†	407.3	343.5	8.7292 ug/L	8.7292 ppb	15:04:25
3	P 214.914†	317.6	106.6	36.289 ug/L	36.289 ppb	15:04:25
3	Pb 220.353†	4649.1	4583.0	567.55 ug/L	567.55 ppb	15:04:25
3	S 181.975 Axial†	45.5	7.2	9.8537 ug/L	9.8537 ppb	15:04:25
3	Sb 206.836†	41.4	3.5	0.5006 ug/L	0.5006 ppb	15:04:25
3	Se 196.026†	-60.9	-38.5	4.5005 ug/L	4.5005 ppb	15:04:25
3	Si 251.611†	112629.8	108919.9	3494.1 ug/L	3494.1 ppb	15:04:05
3	Sn 189.927†	8.8	-1.9	-0.6888 ug/L	-0.6888 ppb	15:04:25
3	Ti 334.940†	111645.3	109779.2	166.10 ug/L	166.10 ppb	15:04:05
3	Tl 190.801†	-38.7	-6.4	0.2267 ug/L	0.2267 ppb	15:04:25
3	U 409.014†	-394.4	2433.0	64.618 ug/L	64.618 ppb	15:04:00
3	V 292.402†	-69.5	1362.9	8.0259 ug/L	8.0259 ppb	15:04:05
3	Zn 213.857†	4542.8	3857.1	37.064 ug/L	37.064 ppb	15:04:25
3	SiO2†	115832.7	112015.2	7696.4 ug/L	7696.4 ppb	15:04:40

Mean Data: 1202030971|948071|10

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	905833.1	100.64	%	3.372				3.35%
Sc Radial	4195.0	98.6	%	3.13				3.17%
Y 371.029	774169.1	101.54	%	3.363				3.31%
Y RADIAL	4715.6	100.5	%	3.08				3.07%
Ag 328.068†	-553.2	0.3235	ug/L	0.25056	0.3235	ppb	0.25056	77.46%
Al 396.153Radial†	4018.2	3639.1	ug/L	109.57	3639.1	ppb	109.57	3.01%
As 188.979†	-2.9	2.3690	ug/L	0.95839	2.3690	ppb	0.95839	40.46%
B 249.677†	25.5	-0.9295	ug/L	1.28688	-0.9295	ppb	1.28688	138.45%
Ba 233.527†	6582.2	51.722	ug/L	2.4119	51.722	ppb	2.4119	4.66%
Be 313.107†	1938.8	1.1134	ug/L	0.02774	1.1134	ppb	0.02774	2.49%
Ca 317.933Radial†	573.0	1140.1	ug/L	31.44	1140.1	ppb	31.44	2.76%
Cd 226.502†	72.3	-0.1146	ug/L	0.09766	-0.1146	ppb	0.09766	85.20%
Co 228.616†	169.0	3.0564	ug/L	0.24982	3.0564	ppb	0.24982	8.17%
Cr 267.716†	1197.4	14.313	ug/L	0.7094	14.313	ppb	0.7094	4.96%
Cu 324.752†	37709.4	113.70	ug/L	6.345	113.70	ppb	6.345	5.58%
Fe 238.204 Radial†	730.2	9408.0	ug/L	320.06	9408.0	ppb	320.06	3.40%
K 766.490 Radial†	2796.0	522.58	ug/L	25.624	522.58	ppb	25.624	4.90%

Mg 279.077 IEC†	15.1	678.53	ug/L	37.386	678.53	ppb	37.386	5.51%
Mn 257.610†	177807.5	200.26	ug/L	7.703	200.26	ppb	7.703	3.85%
Mo 202.031†	6.2	1.1963	ug/L	0.26833	1.1963	ppb	0.26833	22.43%
Na 589.592 Radial†	416.0	120.72	ug/L	17.848	120.72	ppb	17.848	14.78%
Ni 231.604†	363.4	9.2356	ug/L	0.60941	9.2356	ppb	0.60941	6.60%
P 214.914†	118.6	42.793	ug/L	8.7331	42.793	ppb	8.7331	20.41%
Pb 220.353†	4699.1	581.94	ug/L	21.059	581.94	ppb	21.059	3.62%
S 181.975 Axial†	13.5	19.163	ug/L	8.2696	19.163	ppb	8.2696	43.15%
Sb 206.836†	10.8	3.0332	ug/L	2.20215	3.0332	ppb	2.20215	72.60%
Se 196.026†	-39.5	3.2488	ug/L	3.81788	3.2488	ppb	3.81788	117.52%
Si 251.611†	112906.0	3622.0	ug/L	176.02	3622.0	ppb	176.02	4.86%
Sn 189.927†	-0.5	-0.4259	ug/L	1.01992	-0.4259	ppb	1.01992	239.50%
Sr 421.552†	1194.6	7.9089	ug/L	0.32021	7.9089	ppb	0.32021	4.05%
Ti 334.940†	113824.0	172.21	ug/L	8.389	172.21	ppb	8.389	4.87%
Tl 190.801†	-14.0	-2.1491	ug/L	2.32344	-2.1491	ppb	2.32344	108.11%
U 409.014†	2362.9	62.744	ug/L	2.1853	62.744	ppb	2.1853	3.48%
V 292.402†	1412.3	8.3894	ug/L	0.54954	8.3894	ppb	0.54954	6.55%
Zn 213.857†	3937.1	37.885	ug/L	1.3364	37.885	ppb	1.3364	3.53%
SiO2†	114555.4	7870.9	ug/L	276.55	7870.9	ppb	276.55	3.51%

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

Autosampler Location: 7
Date Collected: 2/23/2010 15:06:51
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3924.9	3924.9	92.3	%			15:09:03
1	Y RADIAL	4390.1	4390.1	93.57	%			15:08:43
1	Al 396.153Radial†	5169.0	5712.6	5148.9	ug/L	5148.9	ppb	15:08:43
1	Ca 317.933Radial†	2496.3	2689.9	5351.7	ug/L	5351.7	ppb	15:09:03
1	Fe 238.204 Radial†	387.9	410.2	5299.7	ug/L	5299.7	ppb	15:09:03
1	K 766.490 Radial†	28286.9	28098.9	5250.4	ug/L	5250.4	ppb	15:08:43
1	Mg 279.077 IEC†	112.5	119.2	5416.5	ug/L	5416.5	ppb	15:09:03
1	Na 589.592 Radial†	31678.4	35071.6	10178	ug/L	10178	ppb	15:08:43
1	Sr 421.552†	70985.5	76893.2	509.60	ug/L	509.60	ppb	15:08:43
1	Sc 361.383	893296.7	893296.7	99.248	%			15:10:01
1	Y 371.029	743691.4	743691.4	97.541	%			15:10:01
1	Ag 328.068†	109119.8	109717.0	507.03	ug/L	507.03	ppb	15:10:06
1	As 188.979†	1106.2	1135.1	516.00	ug/L	516.00	ppb	15:10:26
1	B 249.677†	19977.9	20502.2	486.97	ug/L	486.97	ppb	15:10:06
1	Ba 233.527†	64286.9	64783.0	507.28	ug/L	507.28	ppb	15:10:06
1	Be 313.107†	1328064.1	1341977.0	501.25	ug/L	501.25	ppb	15:10:01
1	Cd 226.502†	43642.0	44155.9	512.40	ug/L	512.40	ppb	15:10:06
1	Co 228.616†	24200.3	24445.5	511.18	ug/L	511.18	ppb	15:10:06
1	Cr 267.716†	44865.4	45139.2	507.29	ug/L	507.29	ppb	15:10:06
1	Cu 324.752†	169272.4	164477.5	493.92	ug/L	493.92	ppb	15:10:06
1	Mn 257.610†	445117.5	448052.3	502.65	ug/L	502.65	ppb	15:10:01
1	Mo 202.031†	6908.3	6954.6	509.43	ug/L	509.43	ppb	15:10:26
1	Ni 231.604†	20015.4	20114.7	510.97	ug/L	510.97	ppb	15:10:06
1	P 214.914†	4381.8	4213.0	2460.1	ug/L	2460.1	ppb	15:10:26
1	Pb 220.353†	4041.9	4137.6	514.24	ug/L	514.24	ppb	15:10:26
1	S 181.975 Axial†	738.6	707.1	1034.9	ug/L	1034.9	ppb	15:10:26
1	Sb 206.836†	1477.5	1452.0	524.54	ug/L	524.54	ppb	15:10:26
1	Se 196.026†	743.4	769.7	525.50	ug/L	525.50	ppb	15:10:26
1	Si 251.611†	78681.3	78743.2	2519.8	ug/L	2519.8	ppb	15:10:06
1	Sn 189.927†	2829.3	2840.3	514.49	ug/L	514.49	ppb	15:10:26
1	Ti 334.940†	326380.3	330134.3	499.18	ug/L	499.18	ppb	15:10:01
1	Tl 190.801†	1552.7	1595.6	515.42	ug/L	515.42	ppb	15:10:26
1	U 409.014†	15141.3	18072.2	486.59	ug/L	486.59	ppb	15:10:06
1	V 292.402†	69952.5	71912.8	506.01	ug/L	506.01	ppb	15:10:06
1	Zn 213.857†	50920.0	50748.0	504.50	ug/L	504.50	ppb	15:10:06
1	SiO2†	77937.1	77976.0	5343.8	ug/L	5343.8	ppb	15:11:34
2	Sc Radial	3923.7	3923.7	92.2	%			15:09:28
2	Y RADIAL	4432.9	4432.9	94.48	%			15:09:08
2	Al 396.153Radial†	5237.5	5788.5	5218.3	ug/L	5218.3	ppb	15:09:08
2	Ca 317.933Radial†	2482.1	2675.3	5322.8	ug/L	5322.8	ppb	15:09:28
2	Fe 238.204 Radial†	380.3	402.1	5194.7	ug/L	5194.7	ppb	15:09:28
2	K 766.490 Radial†	28616.6	28465.1	5318.9	ug/L	5318.9	ppb	15:09:08
2	Mg 279.077 IEC†	111.7	118.4	5378.9	ug/L	5378.9	ppb	15:09:28
2	Na 589.592 Radial†	32166.3	35610.3	10334	ug/L	10334	ppb	15:09:08
2	Sr 421.552†	72055.4	78075.1	517.43	ug/L	517.43	ppb	15:09:08
2	Sc 361.383	910274.8	910274.8	101.13	%			15:10:32
2	Y 371.029	757544.9	757544.9	99.358	%			15:10:32
2	Ag 328.068†	109461.9	108004.7	499.12	ug/L	499.12	ppb	15:10:37
2	As 188.979†	1086.2	1094.6	497.67	ug/L	497.67	ppb	15:10:57
2	B 249.677†	20220.0	20366.1	483.77	ug/L	483.77	ppb	15:10:37
2	Ba 233.527†	64267.4	63555.5	497.68	ug/L	497.68	ppb	15:10:37
2	Be 313.107†	1330740.0	1319664.8	492.92	ug/L	492.92	ppb	15:10:32
2	Cd 226.502†	43777.5	43469.8	504.44	ug/L	504.44	ppb	15:10:37
2	Co 228.616†	24147.0	23938.1	500.56	ug/L	500.56	ppb	15:10:37
2	Cr 267.716†	44895.3	44325.7	498.15	ug/L	498.15	ppb	15:10:37
2	Cu 324.752†	170176.9	162190.7	487.05	ug/L	487.05	ppb	15:10:37
2	Mn 257.610†	446423.9	440979.0	494.71	ug/L	494.71	ppb	15:10:32
2	Mo 202.031†	6847.1	6764.2	495.49	ug/L	495.49	ppb	15:10:57
2	Ni 231.604†	20108.9	19831.0	503.76	ug/L	503.76	ppb	15:10:37

2	P 214.914†	4353.5	4102.6	2394.5	ug/L	2394.5 ppb	15:10:57
2	Pb 220.353†	4025.6	4045.4	502.81	ug/L	502.81 ppb	15:10:57
2	S 181.975 Axial†	740.5	695.1	1017.4	ug/L	1017.4 ppb	15:10:57
2	Sb 206.836†	1463.5	1410.4	509.54	ug/L	509.54 ppb	15:10:57
2	Se 196.026†	732.8	745.2	508.98	ug/L	508.98 ppb	15:10:57
2	Si 251.611†	78873.8	77454.8	2478.6	ug/L	2478.6 ppb	15:10:37
2	Sn 189.927†	2816.4	2774.4	502.57	ug/L	502.57 ppb	15:10:57
2	Ti 334.940†	326791.2	324407.0	490.53	ug/L	490.53 ppb	15:10:32
2	Tl 190.801†	1527.7	1541.8	498.09	ug/L	498.09 ppb	15:10:57
2	U 409.014†	14981.0	17629.2	474.65	ug/L	474.65 ppb	15:10:37
2	V 292.402†	70259.6	70901.8	498.80	ug/L	498.80 ppb	15:10:37
2	Zn 213.857†	51017.7	49887.7	495.94	ug/L	495.94 ppb	15:10:37
2	SiO2†	78251.7	76822.3	5264.9	ug/L	5264.9 ppb	15:11:39
3	Sc Radial	3944.6	3944.6	92.7	%		15:09:53
3	Y RADIAL	4371.9	4371.9	93.18	%		15:09:33
3	Al 396.153Radial†	5165.6	5680.9	5120.7	ug/L	5120.7 ppb	15:09:33
3	Ca 317.933Radial†	2473.3	2651.6	5275.6	ug/L	5275.6 ppb	15:09:53
3	Fe 238.204 Radial†	383.4	403.2	5209.9	ug/L	5209.9 ppb	15:09:53
3	K 766.490 Radial†	28222.9	27876.6	5208.9	ug/L	5208.9 ppb	15:09:33
3	Mg 279.077 IEC†	108.0	113.7	5168.6	ug/L	5168.6 ppb	15:09:53
3	Na 589.592 Radial†	31526.2	34735.7	10080	ug/L	10080 ppb	15:09:33
3	Sr 421.552†	70861.9	76375.0	506.16	ug/L	506.16 ppb	15:09:33
3	Sc 361.383	907260.5	907260.5	100.80	%		15:11:03
3	Y 371.029	754666.7	754666.7	98.980	%		15:11:03
3	Ag 328.068†	108853.1	107760.3	498.00	ug/L	498.00 ppb	15:11:08
3	As 188.979†	1097.2	1109.0	504.20	ug/L	504.20 ppb	15:11:28
3	B 249.677†	20051.3	20265.2	481.36	ug/L	481.36 ppb	15:11:08
3	Ba 233.527†	63960.6	63462.3	496.94	ug/L	496.94 ppb	15:11:08
3	Be 313.107†	1324183.5	1317531.9	492.12	ug/L	492.12 ppb	15:11:03
3	Cd 226.502†	43470.6	43309.0	502.57	ug/L	502.57 ppb	15:11:08
3	Co 228.616†	24073.4	23944.3	500.69	ug/L	500.69 ppb	15:11:08
3	Cr 267.716†	44671.2	44250.9	497.31	ug/L	497.31 ppb	15:11:08
3	Cu 324.752†	169018.4	161600.5	485.28	ug/L	485.28 ppb	15:11:08
3	Mn 257.610†	444795.9	440830.5	494.55	ug/L	494.55 ppb	15:11:03
3	Mo 202.031†	6866.7	6806.2	498.56	ug/L	498.56 ppb	15:11:28
3	Ni 231.604†	19942.8	19732.3	501.25	ug/L	501.25 ppb	15:11:08
3	P 214.914†	4368.7	4132.0	2412.7	ug/L	2412.7 ppb	15:11:28
3	Pb 220.353†	4028.2	4061.3	504.77	ug/L	504.77 ppb	15:11:28
3	S 181.975 Axial†	754.8	711.8	1041.8	ug/L	1041.8 ppb	15:11:28
3	Sb 206.836†	1464.5	1416.2	511.64	ug/L	511.64 ppb	15:11:28
3	Se 196.026†	739.8	754.6	515.24	ug/L	515.24 ppb	15:11:28
3	Si 251.611†	78337.6	77182.0	2469.9	ug/L	2469.9 ppb	15:11:08
3	Sn 189.927†	2815.3	2782.6	504.04	ug/L	504.04 ppb	15:11:28
3	Ti 334.940†	326076.7	324771.7	491.09	ug/L	491.09 ppb	15:11:03
3	Tl 190.801†	1529.6	1548.7	500.31	ug/L	500.31 ppb	15:11:28
3	U 409.014†	14873.5	17571.8	473.10	ug/L	473.10 ppb	15:11:08
3	V 292.402†	69735.8	70613.1	496.83	ug/L	496.83 ppb	15:11:08
3	Zn 213.857†	50693.6	49733.7	494.41	ug/L	494.41 ppb	15:11:08
3	SiO2†	77432.5	76266.7	5226.6	ug/L	5226.6 ppb	15:11:44

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	903610.7	100.39	%	1.006				1.00%
Sc Radial	3931.1	92.4	%	0.28				0.30%
Y 371.029	751967.7	98.626	%	0.9588				0.97%
Y RADIAL	4398.3	93.74	%	0.668				0.71%
Ag 328.068†	108494.0	501.38	ug/L	4.926	501.38	ppb	4.926	0.98%
QC value within limits for Ag 328.068 Recovery = 100.28%								
Al 396.153Radial†	5727.4	5162.7	ug/L	50.22	5162.7	ppb	50.22	0.97%
QC value within limits for Al 396.153Radial Recovery = 103.25%								
As 188.979†	1112.9	505.96	ug/L	9.288	505.96	ppb	9.288	1.84%
QC value within limits for As 188.979 Recovery = 101.19%								
B 249.677†	20377.8	484.04	ug/L	2.815	484.04	ppb	2.815	0.58%
QC value within limits for B 249.677 Recovery = 96.81%								
Ba 233.527†	63933.6	500.63	ug/L	5.769	500.63	ppb	5.769	1.15%
QC value within limits for Ba 233.527 Recovery = 100.13%								
Be 313.107†	1326391.3	495.43	ug/L	5.057	495.43	ppb	5.057	1.02%
QC value within limits for Be 313.107 Recovery = 99.09%								
Ca 317.933Radial†	2672.3	5316.7	ug/L	38.44	5316.7	ppb	38.44	0.72%

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   QC value within limits for Ca 317.933Radial  Recovery = 106.33%
Cd 226.502†            43644.9      506.47 ug/L         5.220      506.47 ppb          5.220   1.03%
   QC value within limits for Cd 226.502  Recovery = 101.29%
Co 228.616†            24109.3      504.14 ug/L         6.094      504.14 ppb          6.094   1.21%
   QC value within limits for Co 228.616  Recovery = 100.83%
Cr 267.716†            44571.9      500.92 ug/L         5.535      500.92 ppb          5.535   1.11%
   QC value within limits for Cr 267.716  Recovery = 100.18%
Cu 324.752†           162756.2      488.75 ug/L         4.562      488.75 ppb          4.562   0.93%
   QC value within limits for Cu 324.752  Recovery = 97.75%
Fe 238.204 Radial†       405.2      5234.8 ug/L        56.76      5234.8 ppb         56.76   1.08%
   QC value within limits for Fe 238.204 Radial  Recovery = 104.70%
K 766.490 Radial†      28146.9      5259.4 ug/L        55.55      5259.4 ppb         55.55   1.06%
   QC value within limits for K 766.490 Radial  Recovery = 105.19%
Mg 279.077 IEC†          117.1      5321.3 ug/L       133.56      5321.3 ppb        133.56   2.51%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.43%
Mn 257.610†           443287.3      497.31 ug/L         4.630      497.31 ppb          4.630   0.93%
   QC value within limits for Mn 257.610  Recovery = 99.46%
Mo 202.031†             6841.7      501.16 ug/L         7.324      501.16 ppb          7.324   1.46%
   QC value within limits for Mo 202.031  Recovery = 100.23%
Na 589.592 Radial†     35139.2       10198 ug/L       128.0        10198 ppb        128.0   1.26%
   QC value within limits for Na 589.592 Radial  Recovery = 101.98%
Ni 231.604†            19892.7      505.33 ug/L         5.042      505.33 ppb          5.042   1.00%
   QC value within limits for Ni 231.604  Recovery = 101.07%
P 214.914†              4149.2      2422.4 ug/L        33.89      2422.4 ppb         33.89   1.40%
   QC value within limits for P 214.914  Recovery = 96.90%
Pb 220.353†             4081.4      507.27 ug/L         6.109      507.27 ppb          6.109   1.20%
   QC value within limits for Pb 220.353  Recovery = 101.45%
S 181.975 Axial†         704.7      1031.4 ug/L        12.61      1031.4 ppb         12.61   1.22%
   QC value within limits for S 181.975 Axial  Recovery = 103.14%
Sb 206.836†             1426.2      515.24 ug/L         8.122      515.24 ppb          8.122   1.58%
   QC value within limits for Sb 206.836  Recovery = 103.05%
Se 196.026†              756.5      516.58 ug/L         8.339      516.58 ppb          8.339   1.61%
   QC value within limits for Se 196.026  Recovery = 103.32%
Si 251.611†            77793.3      2489.4 ug/L        26.66      2489.4 ppb         26.66   1.07%
   QC value within limits for Si 251.611  Recovery = 99.58%
Sn 189.927†             2799.1      507.03 ug/L         6.502      507.03 ppb          6.502   1.28%
   QC value within limits for Sn 189.927  Recovery = 101.41%
Sr 421.552†            77114.4      511.06 ug/L         5.775      511.06 ppb          5.775   1.13%
   QC value within limits for Sr 421.552  Recovery = 102.21%
Ti 334.940†           326437.7      493.60 ug/L         4.842      493.60 ppb          4.842   0.98%
   QC value within limits for Ti 334.940  Recovery = 98.72%
Tl 190.801†             1562.0      504.61 ug/L         9.429      504.61 ppb          9.429   1.87%
   QC value within limits for Tl 190.801  Recovery = 100.92%
U 409.014†             17757.7      478.11 ug/L         7.382      478.11 ppb          7.382   1.54%
   QC value within limits for U 409.014  Recovery = 95.62%
V 292.402†             71142.6      500.54 ug/L         4.834      500.54 ppb          4.834   0.97%
   QC value within limits for V 292.402  Recovery = 100.11%
Zn 213.857†            50123.1      498.28 ug/L         5.439      498.28 ppb          5.439   1.09%
   QC value within limits for Zn 213.857  Recovery = 99.66%
SiO2†                  77021.7      5278.4 ug/L        59.73      5278.4 ppb         59.73   1.13%
   QC value within limits for SiO2  Recovery = 98.71%
All analyte(s) passed QC.
```

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

Autosampler Location: 8
Date Collected: 2/23/2010 15:13:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4078.5	4078.5	95.9	%			15:15:47
1	Y RADIAL	4502.1	4502.1	95.95	%			15:15:47
1	Al 396.153Radial†	-119.2	-13.6	-12.277	ug/L	-12.277	ppb	15:15:47
1	Ca 317.933Radial†	23.6	9.1	18.112	ug/L	18.112	ppb	15:16:07
1	Fe 238.204 Radial†	11.0	1.3	16.826	ug/L	16.826	ppb	15:16:07
1	K 766.490 Radial†	2674.5	232.6	43.509	ug/L	43.509	ppb	15:15:47
1	Mg 279.077 IEC†	1.2	-1.5	-68.108	ug/L	-68.108	ppb	15:16:07
1	Na 589.592 Radial†	-759.4	-51.6	-14.986	ug/L	-14.986	ppb	15:15:47
1	Sr 421.552†	35.2	-0.1	-0.0005	ug/L	-0.0005	ppb	15:15:47
1	Sc 361.383	894448.4	894448.4	99.376	%			15:17:04
1	Y 371.029	757508.1	757508.1	99.353	%			15:17:04
1	Ag 328.068†	196.3	-31.8	-0.1407	ug/L	-0.1407	ppb	15:17:04
1	As 188.979†	-21.3	-0.9	-0.4226	ug/L	-0.4226	ppb	15:17:24
1	B 249.677†	-402.0	-31.5	-0.7553	ug/L	-0.7553	ppb	15:17:24
1	Ba 233.527†	4.2	13.4	0.1041	ug/L	0.1041	ppb	15:17:24
1	Be 313.107†	-3835.3	-6.1	-0.0026	ug/L	-0.0026	ppb	15:17:04
1	Cd 226.502†	-179.0	3.2	0.0348	ug/L	0.0348	ppb	15:17:24
1	Co 228.616†	-67.0	-5.5	-0.1168	ug/L	-0.1168	ppb	15:17:24
1	Cr 267.716†	67.4	1.8	0.0222	ug/L	0.0222	ppb	15:17:24
1	Cu 324.752†	6165.4	127.0	0.3839	ug/L	0.3839	ppb	15:17:04
1	Mn 257.610†	485.1	51.3	0.0620	ug/L	0.0620	ppb	15:17:24
1	Mo 202.031†	-0.9	-6.9	-0.5068	ug/L	-0.5068	ppb	15:17:24
1	Ni 231.604†	81.9	30.1	0.7661	ug/L	0.7661	ppb	15:17:24
1	P 214.914†	211.8	11.1	6.6497	ug/L	6.6497	ppb	15:17:24
1	Pb 220.353†	-45.9	18.9	2.3323	ug/L	2.3323	ppb	15:17:24
1	S 181.975 Axial†	42.0	5.2	7.5949	ug/L	7.5949	ppb	15:17:24
1	Sb 206.836†	28.4	-8.1	-2.8146	ug/L	-2.8146	ppb	15:17:24
1	Se 196.026†	-22.3	-1.8	-1.1269	ug/L	-1.1269	ppb	15:17:24
1	Si 251.611†	633.7	103.5	3.3280	ug/L	3.3280	ppb	15:17:24
1	Sn 189.927†	14.8	4.5	0.8079	ug/L	0.8079	ppb	15:17:24
1	Ti 334.940†	-1380.2	-107.0	-0.1527	ug/L	-0.1527	ppb	15:17:04
1	Tl 190.801†	-42.8	-11.8	-3.7957	ug/L	-3.7957	ppb	15:17:24
1	U 409.014†	-2903.4	-105.3	-2.8486	ug/L	-2.8486	ppb	15:17:04
1	V 292.402†	-1489.7	-68.6	-0.4926	ug/L	-0.4926	ppb	15:17:04
1	Zn 213.857†	635.9	82.2	0.8171	ug/L	0.8171	ppb	15:17:24
1	SiO2†	661.1	113.8	7.8295	ug/L	7.8295	ppb	15:18:20
2	Sc Radial	4131.3	4131.3	97.1	%			15:16:12
2	Y RADIAL	4570.0	4570.0	97.40	%			15:16:12
2	Al 396.153Radial†	-120.3	-13.1	-11.893	ug/L	-11.893	ppb	15:16:12
2	Ca 317.933Radial†	24.5	9.8	19.509	ug/L	19.509	ppb	15:16:32
2	Fe 238.204 Radial†	8.9	-1.0	-13.298	ug/L	-13.298	ppb	15:16:32
2	K 766.490 Radial†	2716.1	239.6	44.830	ug/L	44.830	ppb	15:16:12
2	Mg 279.077 IEC†	-0.1	-2.8	-128.57	ug/L	-128.57	ppb	15:16:32
2	Na 589.592 Radial†	-746.3	-28.0	-8.1282	ug/L	-8.1282	ppb	15:16:12
2	Sr 421.552†	30.2	-5.7	-0.0380	ug/L	-0.0380	ppb	15:16:12
2	Sc 361.383	897558.7	897558.7	99.722	%			15:17:29
2	Y 371.029	760068.8	760068.8	99.689	%			15:17:29
2	Ag 328.068†	213.1	-15.6	-0.0700	ug/L	-0.0700	ppb	15:17:29
2	As 188.979†	-26.3	-5.8	-2.6238	ug/L	-2.6238	ppb	15:17:50
2	B 249.677†	-344.1	27.9	0.6684	ug/L	0.6684	ppb	15:17:50
2	Ba 233.527†	-6.2	2.9	0.0223	ug/L	0.0223	ppb	15:17:50
2	Be 313.107†	-3774.8	68.0	0.0249	ug/L	0.0249	ppb	15:17:29
2	Cd 226.502†	-175.9	6.9	0.0805	ug/L	0.0805	ppb	15:17:50
2	Co 228.616†	-77.3	-15.6	-0.3252	ug/L	-0.3252	ppb	15:17:50
2	Cr 267.716†	79.6	13.9	0.1574	ug/L	0.1574	ppb	15:17:50
2	Cu 324.752†	6133.3	73.2	0.2234	ug/L	0.2234	ppb	15:17:29
2	Mn 257.610†	481.3	45.8	0.0553	ug/L	0.0553	ppb	15:17:50
2	Mo 202.031†	11.2	5.1	0.3745	ug/L	0.3745	ppb	15:17:50
2	Ni 231.604†	51.5	-0.6	-0.0160	ug/L	-0.0160	ppb	15:17:50

2	P 214.914†	209.9	8.4	5.0797	ug/L	5.0797 ppb	15:17:50
2	Pb 220.353†	-44.1	20.8	2.5808	ug/L	2.5808 ppb	15:17:50
2	S 181.975 Axial†	43.8	6.9	10.137	ug/L	10.137 ppb	15:17:50
2	Sb 206.836†	37.3	0.7	0.2918	ug/L	0.2918 ppb	15:17:50
2	Se 196.026†	-29.1	-8.5	-5.6634	ug/L	-5.6634 ppb	15:17:50
2	Si 251.611†	649.6	117.3	3.7575	ug/L	3.7575 ppb	15:17:50
2	Sn 189.927†	20.9	10.5	1.9031	ug/L	1.9031 ppb	15:17:50
2	Ti 334.940†	-1400.6	-122.7	-0.1693	ug/L	-0.1693 ppb	15:17:29
2	Tl 190.801†	-27.0	4.1	1.3223	ug/L	1.3223 ppb	15:17:50
2	U 409.014†	-3083.3	-275.6	-7.4464	ug/L	-7.4464 ppb	15:17:29
2	V 292.402†	-1426.0	0.4	-0.0063	ug/L	-0.0063 ppb	15:17:29
2	Zn 213.857†	638.1	82.2	0.8266	ug/L	0.8266 ppb	15:17:50
2	SiO2†	683.2	133.6	9.1687	ug/L	9.1687 ppb	15:18:25
3	Sc Radial	4084.3	4084.3	96.0	%		15:16:38
3	Y RADIAL	4492.4	4492.4	95.75	%		15:16:38
3	Al 396.153Radial†	-121.6	-15.8	-14.342	ug/L	-14.342 ppb	15:16:38
3	Ca 317.933Radial†	23.9	9.4	18.665	ug/L	18.665 ppb	15:16:58
3	Fe 238.204 Radial†	13.1	3.4	44.399	ug/L	44.399 ppb	15:16:58
3	K 766.490 Radial†	2692.5	247.3	46.256	ug/L	46.256 ppb	15:16:38
3	Mg 279.077 IEC†	2.5	-0.1	-5.3111	ug/L	-5.3111 ppb	15:16:58
3	Na 589.592 Radial†	-726.8	-16.5	-4.7922	ug/L	-4.7922 ppb	15:16:38
3	Sr 421.552†	51.3	16.7	0.1102	ug/L	0.1102 ppb	15:16:38
3	Sc 361.383	904841.5	904841.5	100.53	%		15:17:55
3	Y 371.029	765641.5	765641.5	100.42	%		15:17:55
3	Ag 328.068†	288.0	57.1	0.2773	ug/L	0.2773 ppb	15:17:55
3	As 188.979†	-18.0	2.6	1.1824	ug/L	1.1824 ppb	15:18:15
3	B 249.677†	-413.1	-38.0	-0.9149	ug/L	-0.9149 ppb	15:18:15
3	Ba 233.527†	5.7	14.8	0.1176	ug/L	0.1176 ppb	15:18:15
3	Be 313.107†	-3858.1	15.6	0.0051	ug/L	0.0051 ppb	15:17:55
3	Cd 226.502†	-189.2	-4.9	-0.0619	ug/L	-0.0619 ppb	15:18:15
3	Co 228.616†	-54.7	7.5	0.1573	ug/L	0.1573 ppb	15:18:15
3	Cr 267.716†	86.2	19.8	0.2269	ug/L	0.2269 ppb	15:18:15
3	Cu 324.752†	6096.4	-12.9	-0.0362	ug/L	-0.0362 ppb	15:17:55
3	Mn 257.610†	475.6	36.2	0.0452	ug/L	0.0452 ppb	15:18:15
3	Mo 202.031†	8.8	2.7	0.1999	ug/L	0.1999 ppb	15:18:15
3	Ni 231.604†	49.9	-2.7	-0.0692	ug/L	-0.0692 ppb	15:18:15
3	P 214.914†	186.5	-16.6	-10.065	ug/L	-10.065 ppb	15:18:15
3	Pb 220.353†	-40.6	24.6	3.0429	ug/L	3.0429 ppb	15:18:15
3	S 181.975 Axial†	45.7	8.4	12.265	ug/L	12.265 ppb	15:18:15
3	Sb 206.836†	35.5	-1.3	-0.4420	ug/L	-0.4420 ppb	15:18:15
3	Se 196.026†	-24.6	-3.7	-2.3234	ug/L	-2.3234 ppb	15:18:15
3	Si 251.611†	625.3	87.8	2.8156	ug/L	2.8156 ppb	15:18:15
3	Sn 189.927†	18.0	7.5	1.3531	ug/L	1.3531 ppb	15:18:15
3	Ti 334.940†	-1504.7	-215.0	-0.3220	ug/L	-0.3220 ppb	15:17:55
3	Tl 190.801†	-23.3	8.0	2.5688	ug/L	2.5688 ppb	15:18:15
3	U 409.014†	-2848.5	-17.2	-0.4700	ug/L	-0.4700 ppb	15:17:55
3	V 292.402†	-1398.6	39.2	0.2678	ug/L	0.2678 ppb	15:17:55
3	Zn 213.857†	631.8	70.8	0.7043	ug/L	0.7043 ppb	15:18:15
3	SiO2†	685.4	130.3	8.9482	ug/L	8.9482 ppb	15:18:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	898949.6	99.876	%	0.5927				0.59%
Sc Radial	4098.0	96.3	%	0.68				0.71%
Y 371.029	761072.8	99.820	%	0.5454				0.55%
Y RADIAL	4521.5	96.37	%	0.900				0.93%
Ag 328.068†	3.2	0.0222	ug/L	0.22371	0.0222	ppb	0.22371	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-14.2	-12.837	ug/L	1.3174	-12.837	ppb	1.3174	10.26%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.4	-0.6213	ug/L	1.91090	-0.6213	ppb	1.91090	307.55%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-13.9	-0.3339	ug/L	0.87167	-0.3339	ppb	0.87167	261.03%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	10.4	0.0814	ug/L	0.05155	0.0814	ppb	0.05155	63.36%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	25.8	0.0091	ug/L	0.01421	0.0091	ppb	0.01421	155.96%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	9.4	18.762	ug/L	0.7039	18.762	ppb	0.7039	3.75%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                 1.7      0.0178 ug/L       0.07270      0.0178 ppb        0.07270 408.00%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                -4.6     -0.0949 ug/L       0.24200     -0.0949 ppb        0.24200 254.98%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                11.8      0.1355 ug/L       0.10409      0.1355 ppb        0.10409  76.83%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                62.4      0.1904 ug/L       0.21195      0.1904 ppb        0.21195 111.34%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          1.2     15.976 ug/L      28.8576     15.976 ppb        28.8576 180.63%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         239.8     44.865 ug/L       1.3737     44.865 ppb         1.3737   3.06%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -1.5    -67.330 ug/L      61.6338    -67.330 ppb        61.6338  91.54%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                44.5      0.0542 ug/L       0.00845      0.0542 ppb        0.00845  15.59%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 0.3      0.0226 ug/L       0.46664      0.0226 ppb        0.46664 >999.9%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -32.1     -9.3022 ug/L       5.19738     -9.3022 ppb        5.19738  55.87%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 8.9      0.2270 ug/L       0.46765      0.2270 ppb        0.46765 206.06%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  1.0      0.5546 ug/L       9.23071      0.5546 ppb        9.23071 >999.9%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                21.4      2.6520 ug/L       0.36058      2.6520 ppb        0.36058  13.60%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            6.8      9.9989 ug/L       2.33816      9.9989 ppb        2.33816  23.38%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -2.9     -0.9883 ug/L       1.62362     -0.9883 ppb        1.62362 164.29%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -4.7     -3.0379 ug/L       2.35116     -3.0379 ppb        2.35116  77.39%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               102.9      3.3004 ug/L       0.47153      3.3004 ppb        0.47153  14.29%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 7.5      1.3547 ug/L       0.54760      1.3547 ppb        0.54760  40.42%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 3.6      0.0239 ug/L       0.07709      0.0239 ppb        0.07709 322.63%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -148.2     -0.2147 ug/L       0.09337     -0.2147 ppb        0.09337  43.49%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 0.1      0.0318 ug/L       3.37277      0.0318 ppb        3.37277 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -132.7     -3.5883 ug/L       3.54653     -3.5883 ppb        3.54653  98.84%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                 -9.7     -0.0770 ug/L       0.38513     -0.0770 ppb        0.38513 499.87%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                78.4      0.7827 ug/L       0.06804      0.7827 ppb        0.06804   8.69%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     125.9      8.6488 ug/L       0.71803      8.6488 ppb        0.71803   8.30%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 13
Sample ID: 245806003|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 2/23/2010 15:27:30
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806003|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4166.7	4166.7	98.0	%			15:29:23
1	Y RADIAL	4850.4	4850.4	103.4	%			15:29:23
1	Al 396.153Radial†	15794.8	16234.8	14703	ug/L	14703	ppb	15:29:23
1	Ca 317.933Radial†	2966.0	3012.4	5993.4	ug/L	5993.4	ppb	15:29:43
1	Fe 238.204 Radial†	2827.9	2876.7	37062	ug/L	37062	ppb	15:29:43
1	K 766.490 Radial†	16037.6	13815.1	2582.1	ug/L	2582.1	ppb	15:29:23
1	Mg 279.077 IEC†	71.7	70.4	3161.2	ug/L	3161.2	ppb	15:29:43
1	Na 589.592 Radial†	916.2	1675.6	486.27	ug/L	486.27	ppb	15:29:23
1	Sr 421.552†	5932.9	6019.8	39.853	ug/L	39.853	ppb	15:29:23
1	Sc 361.383	928675.4	928675.4	103.18	%			15:30:41
1	Y 371.029	821125.4	821125.4	107.70	%			15:30:41
1	Ag 328.068†	-1735.3	-1911.1	2.1991	ug/L	2.1991	ppb	15:30:46
1	As 188.979†	-28.5	-7.1	12.765	ug/L	12.765	ppb	15:31:06
1	B 249.677†	73.6	444.3	4.5062	ug/L	4.5062	ppb	15:30:46
1	Ba 233.527†	41301.9	40038.6	313.99	ug/L	313.99	ppb	15:30:46
1	Be 313.107†	53357.4	55566.7	22.620	ug/L	22.620	ppb	15:30:46
1	Cd 226.502†	273.5	448.4	1.5248	ug/L	1.5248	ppb	15:31:06
1	Co 228.616†	1278.3	1300.8	25.035	ug/L	25.035	ppb	15:31:06
1	Cr 267.716†	2695.9	2546.8	31.898	ug/L	31.898	ppb	15:31:06
1	Cu 324.752†	1645047.1	1588286.5	4771.1	ug/L	4771.1	ppb	15:30:41
1	Mn 257.610†	867072.1	839920.9	945.24	ug/L	945.24	ppb	15:30:41
1	Mo 202.031†	4.6	-1.6	2.8331	ug/L	2.8331	ppb	15:31:06
1	Ni 231.604†	1222.8	1132.8	28.777	ug/L	28.777	ppb	15:31:06
1	P 214.914†	2893.6	2602.4	605.69	ug/L	605.69	ppb	15:31:06
1	Pb 220.353†	7209.7	7052.6	870.26	ug/L	870.26	ppb	15:31:06
1	S 181.975 Axial†	224.1	180.2	261.20	ug/L	261.20	ppb	15:31:06
1	Sb 206.836†	93.3	53.7	15.442	ug/L	15.442	ppb	15:31:06
1	Se 196.026†	-162.8	-137.0	25.099	ug/L	25.099	ppb	15:31:06
1	Si 251.611†	447893.8	433560.2	13909	ug/L	13909	ppb	15:30:41
1	Sn 189.927†	64.5	52.1	8.3582	ug/L	8.3582	ppb	15:31:06
1	Ti 334.940†	573040.2	556666.8	842.16	ug/L	842.16	ppb	15:30:41
1	Tl 190.801†	-80.5	-46.8	-3.7387	ug/L	-3.7387	ppb	15:31:06
1	U 409.014†	22645.4	24763.9	664.85	ug/L	664.85	ppb	15:30:46
1	V 292.402†	6307.9	7544.0	47.415	ug/L	47.415	ppb	15:30:46
1	Zn 213.857†	29265.6	27806.2	266.83	ug/L	266.83	ppb	15:30:46
1	SiO2†	445481.9	431205.2	29627	ug/L	29627	ppb	15:32:14
2	Sc Radial	4129.0	4129.0	97.1	%			15:29:48
2	Y RADIAL	4829.9	4829.9	102.9	%			15:29:48
2	Al 396.153Radial†	15880.4	16470.3	14916	ug/L	14916	ppb	15:29:48
2	Ca 317.933Radial†	2957.6	3031.3	6031.1	ug/L	6031.1	ppb	15:30:09
2	Fe 238.204 Radial†	2812.7	2887.4	37200	ug/L	37200	ppb	15:30:09
2	K 766.490 Radial†	16056.7	13984.4	2613.7	ug/L	2613.7	ppb	15:29:48
2	Mg 279.077 IEC†	65.4	64.6	2897.4	ug/L	2897.4	ppb	15:30:09
2	Na 589.592 Radial†	944.7	1713.6	497.28	ug/L	497.28	ppb	15:29:48
2	Sr 421.552†	5901.1	6042.4	40.003	ug/L	40.003	ppb	15:29:48
2	Sc 361.383	931435.5	931435.5	103.49	%			15:31:12
2	Y 371.029	824425.5	824425.5	108.13	%			15:31:12
2	Ag 328.068†	-1762.4	-1932.3	2.1434	ug/L	2.1434	ppb	15:31:17
2	As 188.979†	-31.8	-10.2	11.358	ug/L	11.358	ppb	15:31:37
2	B 249.677†	55.4	426.5	4.0604	ug/L	4.0604	ppb	15:31:17
2	Ba 233.527†	41361.4	39977.4	313.51	ug/L	313.51	ppb	15:31:17
2	Be 313.107†	53568.8	55617.7	22.631	ug/L	22.631	ppb	15:31:17
2	Cd 226.502†	274.0	448.1	1.5080	ug/L	1.5080	ppb	15:31:37
2	Co 228.616†	1265.1	1284.4	24.699	ug/L	24.699	ppb	15:31:37
2	Cr 267.716†	2696.2	2539.4	31.828	ug/L	31.828	ppb	15:31:37
2	Cu 324.752†	1645353.5	1583858.0	4757.8	ug/L	4757.8	ppb	15:31:12
2	Mn 257.610†	865300.6	835719.0	940.55	ug/L	940.55	ppb	15:31:12
2	Mo 202.031†	13.1	6.6	3.4427	ug/L	3.4427	ppb	15:31:37
2	Ni 231.604†	1238.2	1144.2	29.066	ug/L	29.066	ppb	15:31:37

2	P 214.914†	2890.3	2590.9	601.31 ug/L	601.31 ppb	15:31:37
2	Pb 220.353†	7215.4	7037.4	868.41 ug/L	868.41 ppb	15:31:37
2	S 181.975 Axial†	217.3	172.9	250.57 ug/L	250.57 ppb	15:31:37
2	Sb 206.836†	105.1	64.9	19.344 ug/L	19.344 ppb	15:31:37
2	Se 196.026†	-170.3	-143.9	21.029 ug/L	21.029 ppb	15:31:37
2	Si 251.611†	446685.2	431105.9	13830 ug/L	13830 ppb	15:31:12
2	Sn 189.927†	63.9	51.3	8.2155 ug/L	8.2155 ppb	15:31:37
2	Ti 334.940†	572439.8	554440.9	838.82 ug/L	838.82 ppb	15:31:12
2	Tl 190.801†	-80.1	-46.2	-3.6191 ug/L	-3.6191 ppb	15:31:37
2	U 409.014†	22773.5	24822.7	666.42 ug/L	666.42 ppb	15:31:17
2	V 292.402†	6370.1	7586.0	47.697 ug/L	47.697 ppb	15:31:17
2	Zn 213.857†	29296.9	27752.4	266.29 ug/L	266.29 ppb	15:31:17
2	SiO2†	445274.8	429725.6	29526 ug/L	29526 ppb	15:32:20
3	Sc Radial	4112.8	4112.8	96.7 %		15:30:14
3	Y RADIAL	4811.0	4811.0	102.5 %		15:30:14
3	Al 396.153Radial†	15583.5	16227.4	14696 ug/L	14696 ppb	15:30:14
3	Ca 317.933Radial†	2956.3	3041.9	6052.2 ug/L	6052.2 ppb	15:30:34
3	Fe 238.204 Radial†	2809.7	2895.7	37307 ug/L	37307 ppb	15:30:34
3	K 766.490 Radial†	15886.2	13872.9	2592.9 ug/L	2592.9 ppb	15:30:14
3	Mg 279.077 IEC†	69.0	68.6	3080.2 ug/L	3080.2 ppb	15:30:34
3	Na 589.592 Radial†	929.7	1701.9	493.89 ug/L	493.89 ppb	15:30:14
3	Sr 421.552†	5833.7	5996.5	39.699 ug/L	39.699 ppb	15:30:14
3	Sc 361.383	938451.2	938451.2	104.27 %		15:31:44
3	Y 371.029	829685.9	829685.9	108.82 %		15:31:44
3	Ag 328.068†	-1703.6	-1863.2	2.4995 ug/L	2.4995 ppb	15:31:49
3	As 188.979†	-18.5	2.7	17.247 ug/L	17.247 ppb	15:32:09
3	B 249.677†	-0.6	372.3	2.7503 ug/L	2.7503 ppb	15:31:49
3	Ba 233.527†	41163.4	39488.7	309.70 ug/L	309.70 ppb	15:31:49
3	Be 313.107†	53247.8	54922.9	22.374 ug/L	22.374 ppb	15:31:49
3	Cd 226.502†	248.0	421.1	1.1815 ug/L	1.1815 ppb	15:32:09
3	Co 228.616†	1283.7	1293.1	24.874 ug/L	24.874 ppb	15:32:09
3	Cr 267.716†	2702.9	2526.3	31.695 ug/L	31.695 ppb	15:32:09
3	Cu 324.752†	1656151.6	1582328.3	4753.2 ug/L	4753.2 ppb	15:31:44
3	Mn 257.610†	874002.7	837814.1	942.90 ug/L	942.90 ppb	15:31:44
3	Mo 202.031†	5.1	-1.1	2.8850 ug/L	2.8850 ppb	15:32:09
3	Ni 231.604†	1223.9	1121.5	28.490 ug/L	28.490 ppb	15:32:09
3	P 214.914†	2908.0	2587.0	599.73 ug/L	599.73 ppb	15:32:09
3	Pb 220.353†	7215.1	6985.0	861.86 ug/L	861.86 ppb	15:32:09
3	S 181.975 Axial†	218.0	172.1	249.30 ug/L	249.30 ppb	15:32:09
3	Sb 206.836†	89.1	48.7	13.718 ug/L	13.718 ppb	15:32:09
3	Se 196.026†	-175.6	-147.7	18.841 ug/L	18.841 ppb	15:32:09
3	Si 251.611†	451111.4	432124.2	13862 ug/L	13862 ppb	15:31:44
3	Sn 189.927†	66.5	53.4	8.5917 ug/L	8.5917 ppb	15:32:09
3	Ti 334.940†	577400.9	555063.6	839.75 ug/L	839.75 ppb	15:31:44
3	Tl 190.801†	-81.2	-46.7	-3.7320 ug/L	-3.7320 ppb	15:32:09
3	U 409.014†	22530.2	24424.8	655.66 ug/L	655.66 ppb	15:31:49
3	V 292.402†	6314.3	7486.5	46.965 ug/L	46.965 ppb	15:31:49
3	Zn 213.857†	29136.1	27386.6	262.61 ug/L	262.61 ppb	15:31:49
3	SiO2†	451026.5	432025.4	29684 ug/L	29684 ppb	15:32:25

Mean Data: 245806003|948071|2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	932854.1	103.64	%	0.560				0.54%
Sc Radial	4136.2	97.2	%	0.65				0.67%
Y 371.029	825078.9	108.22	%	0.566				0.52%
Y RADIAL	4830.4	102.9	%	0.42				0.41%
Ag 328.068†	-1902.2	2.2806	ug/L	0.19157	2.2806	ppb	0.19157	8.40%
Al 396.153Radial†	16310.8	14772	ug/L	125.1	14772	ppb	125.1	0.85%
As 188.979†	-4.9	13.790	ug/L	3.0754	13.790	ppb	3.0754	22.30%
B 249.677†	414.4	3.7723	ug/L	0.91274	3.7723	ppb	0.91274	24.20%
Ba 233.527†	39834.9	312.40	ug/L	2.351	312.40	ppb	2.351	0.75%
Be 313.107†	55369.1	22.542	ug/L	0.1451	22.542	ppb	0.1451	0.64%
Ca 317.933Radial†	3028.6	6025.6	ug/L	29.80	6025.6	ppb	29.80	0.49%
Cd 226.502†	439.2	1.4048	ug/L	0.19353	1.4048	ppb	0.19353	13.78%
Co 228.616†	1292.8	24.869	ug/L	0.1683	24.869	ppb	0.1683	0.68%
Cr 267.716†	2537.5	31.807	ug/L	0.1034	31.807	ppb	0.1034	0.33%
Cu 324.752†	1584824.3	4760.7	ug/L	9.28	4760.7	ppb	9.28	0.20%
Fe 238.204 Radial†	2886.6	37190	ug/L	122.6	37190	ppb	122.6	0.33%
K 766.490 Radial†	13890.8	2596.2	ug/L	16.09	2596.2	ppb	16.09	0.62%

Mg 279.077 IEC†	67.9	3046.3	ug/L	135.15	3046.3	ppb	135.15	4.44%
Mn 257.610†	837818.0	942.90	ug/L	2.343	942.90	ppb	2.343	0.25%
Mo 202.031†	1.3	3.0536	ug/L	0.33798	3.0536	ppb	0.33798	11.07%
Na 589.592 Radial†	1697.0	492.48	ug/L	5.640	492.48	ppb	5.640	1.15%
Ni 231.604†	1132.8	28.778	ug/L	0.2879	28.778	ppb	0.2879	1.00%
P 214.914†	2593.5	602.24	ug/L	3.086	602.24	ppb	3.086	0.51%
Pb 220.353†	7025.0	866.85	ug/L	4.414	866.85	ppb	4.414	0.51%
S 181.975 Axial†	175.1	253.69	ug/L	6.538	253.69	ppb	6.538	2.58%
Sb 206.836†	55.8	16.168	ug/L	2.8826	16.168	ppb	2.8826	17.83%
Se 196.026†	-142.9	21.656	ug/L	3.1760	21.656	ppb	3.1760	14.67%
Si 251.611†	432263.4	13867	ug/L	39.6	13867	ppb	39.6	0.29%
Sn 189.927†	52.3	8.3885	ug/L	0.18991	8.3885	ppb	0.18991	2.26%
Sr 421.552†	6019.5	39.852	ug/L	0.1522	39.852	ppb	0.1522	0.38%
Ti 334.940†	555390.4	840.24	ug/L	1.723	840.24	ppb	1.723	0.21%
Tl 190.801†	-46.6	-3.6966	ug/L	0.06716	-3.6966	ppb	0.06716	1.82%
U 409.014†	24670.5	662.31	ug/L	5.813	662.31	ppb	5.813	0.88%
V 292.402†	7538.8	47.359	ug/L	0.3695	47.359	ppb	0.3695	0.78%
Zn 213.857†	27648.4	265.24	ug/L	2.296	265.24	ppb	2.296	0.87%
SiO2†	430985.4	29612	ug/L	80.1	29612	ppb	80.1	0.27%

Sequence No.: 14
Sample ID: 245806004|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 2/23/2010 15:34:37
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806004|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4022.0	4022.0	94.6	%			15:36:50
1	Y RADIAL	4724.7	4724.7	100.7	%			15:36:30
1	Al 396.153Radial†	15772.0	16790.5	15206	ug/L	15206	ppb	15:36:30
1	Ca 317.933Radial†	2927.9	3081.0	6129.9	ug/L	6129.9	ppb	15:36:50
1	Fe 238.204 Radial†	2317.2	2440.4	31441	ug/L	31441	ppb	15:36:50
1	K 766.490 Radial†	12212.2	10358.4	1935.4	ug/L	1935.4	ppb	15:36:30
1	Mg 279.077 IEC†	82.0	84.0	3783.9	ug/L	3783.9	ppb	15:36:50
1	Na 589.592 Radial†	721.2	1503.0	436.19	ug/L	436.19	ppb	15:36:30
1	Sr 421.552†	4002.7	4196.3	27.767	ug/L	27.767	ppb	15:36:30
1	Sc 361.383	913987.5	913987.5	101.55	%			15:37:47
1	Y 371.029	791464.5	791464.5	103.81	%			15:37:47
1	Ag 328.068†	602.7	364.2	9.8434	ug/L	9.8434	ppb	15:37:53
1	As 188.979†	762.1	771.0	361.67	ug/L	361.67	ppb	15:38:13
1	B 249.677†	-24.0	349.3	3.1906	ug/L	3.1906	ppb	15:37:53
1	Ba 233.527†	54384.8	53565.4	419.46	ug/L	419.46	ppb	15:37:53
1	Be 313.107†	116884.5	118957.0	46.100	ug/L	46.100	ppb	15:37:53
1	Cd 226.502†	229.8	409.6	1.9189	ug/L	1.9189	ppb	15:38:13
1	Co 228.616†	625.0	677.5	12.257	ug/L	12.257	ppb	15:38:13
1	Cr 267.716†	4495.5	4361.1	51.193	ug/L	51.193	ppb	15:38:13
1	Cu 324.752†	971929.9	951045.7	2856.5	ug/L	2856.5	ppb	15:37:47
1	Mn 257.610†	582533.0	573221.5	645.64	ug/L	645.64	ppb	15:37:47
1	Mo 202.031†	-2.9	-8.9	1.8636	ug/L	1.8636	ppb	15:38:13
1	Ni 231.604†	1981.3	1898.8	48.255	ug/L	48.255	ppb	15:38:13
1	P 214.914†	2616.5	2374.6	852.43	ug/L	852.43	ppb	15:38:13
1	Pb 220.353†	2248139.4	2213954.8	274320	ug/L	274320	ppb	15:37:47
1	S 181.975 Axial†	127.7	88.7	127.11	ug/L	127.11	ppb	15:38:13
1	Sb 206.836†	3555.5	3464.6	1205.0	ug/L	1205.0	ppb	15:38:13
1	Se 196.026†	-154.3	-131.2	11.389	ug/L	11.389	ppb	15:38:13
1	Si 251.611†	358664.5	352666.2	11313	ug/L	11313	ppb	15:37:53
1	Sn 189.927†	198.4	184.9	32.739	ug/L	32.739	ppb	15:38:13
1	Ti 334.940†	521540.5	514876.8	778.35	ug/L	778.35	ppb	15:37:47
1	Tl 190.801†	-73.5	-41.2	-3.8363	ug/L	-3.8363	ppb	15:38:13
1	U 409.014†	70699.0	72438.2	1953.6	ug/L	1953.6	ppb	15:37:53
1	V 292.402†	5357.6	6706.5	44.949	ug/L	44.949	ppb	15:37:53
1	Zn 213.857†	59322.2	57860.7	571.71	ug/L	571.71	ppb	15:37:53
1	SiO2†	367854.5	361698.9	24852	ug/L	24852	ppb	15:39:21
2	Sc Radial	3954.8	3954.8	93.0	%			15:37:15
2	Y RADIAL	4682.3	4682.3	99.79	%			15:36:55
2	Al 396.153Radial†	15667.1	16961.4	15361	ug/L	15361	ppb	15:36:55
2	Ca 317.933Radial†	2891.6	3094.6	6157.0	ug/L	6157.0	ppb	15:37:15
2	Fe 238.204 Radial†	2278.6	2440.6	31444	ug/L	31444	ppb	15:37:15
2	K 766.490 Radial†	12079.2	10435.0	1949.8	ug/L	1949.8	ppb	15:36:55
2	Mg 279.077 IEC†	86.1	89.9	4052.8	ug/L	4052.8	ppb	15:37:15
2	Na 589.592 Radial†	702.6	1496.1	434.16	ug/L	434.16	ppb	15:36:55
2	Sr 421.552†	3909.6	4168.1	27.580	ug/L	27.580	ppb	15:36:55
2	Sc 361.383	907732.0	907732.0	100.85	%			15:38:19
2	Y 371.029	786730.2	786730.2	103.19	%			15:38:19
2	Ag 328.068†	549.9	315.9	9.6265	ug/L	9.6265	ppb	15:38:24
2	As 188.979†	772.8	786.8	368.78	ug/L	368.78	ppb	15:38:44
2	B 249.677†	-80.4	293.3	1.8525	ug/L	1.8525	ppb	15:38:24
2	Ba 233.527†	53842.0	53396.3	418.14	ug/L	418.14	ppb	15:38:24
2	Be 313.107†	116252.7	119123.8	46.161	ug/L	46.161	ppb	15:38:24
2	Cd 226.502†	227.9	409.3	1.9133	ug/L	1.9133	ppb	15:38:44
2	Co 228.616†	616.0	672.7	12.156	ug/L	12.156	ppb	15:38:44
2	Cr 267.716†	4469.2	4365.5	51.245	ug/L	51.245	ppb	15:38:44
2	Cu 324.752†	965509.5	951275.4	2857.2	ug/L	2857.2	ppb	15:38:19
2	Mn 257.610†	577436.3	572121.1	644.39	ug/L	644.39	ppb	15:38:19
2	Mo 202.031†	-8.0	-14.0	1.4862	ug/L	1.4862	ppb	15:38:44
2	Ni 231.604†	1952.0	1883.2	47.858	ug/L	47.858	ppb	15:38:44

2	P 214.914†	2646.7	2422.3	881.26	ug/L	881.26 ppb	15:38:44
2	Pb 220.353†	2230215.4	2211438.7	274010	ug/L	274010 ppb	15:38:19
2	S 181.975 Axial†	142.3	104.0	149.54	ug/L	149.54 ppb	15:38:44
2	Sb 206.836†	3542.2	3475.6	1208.8	ug/L	1208.8 ppb	15:38:44
2	Se 196.026†	-147.3	-125.4	15.261	ug/L	15.261 ppb	15:38:44
2	Si 251.611†	355852.2	352311.7	11302	ug/L	11302 ppb	15:38:24
2	Sn 189.927†	189.3	177.3	31.363	ug/L	31.363 ppb	15:38:44
2	Ti 334.940†	517520.1	514429.7	777.66	ug/L	777.66 ppb	15:38:19
2	Tl 190.801†	-84.4	-52.5	-7.4816	ug/L	-7.4816 ppb	15:38:44
2	U 409.014†	70042.6	72267.1	1949.0	ug/L	1949.0 ppb	15:38:24
2	V 292.402†	5336.5	6721.9	45.047	ug/L	45.047 ppb	15:38:24
2	Zn 213.857†	58884.2	57829.0	571.39	ug/L	571.39 ppb	15:38:24
2	SiO2†	365658.5	362017.8	24874	ug/L	24874 ppb	15:39:26
3	Sc Radial	4001.5	4001.5	94.1	%		15:37:40
3	Y RADIAL	4598.2	4598.2	98.00	%		15:37:20
3	Al 396.153Radial†	15470.9	16556.2	14994	ug/L	14994 ppb	15:37:20
3	Ca 317.933Radial†	2920.3	3088.8	6145.5	ug/L	6145.5 ppb	15:37:40
3	Fe 238.204 Radial†	2304.8	2439.8	31433	ug/L	31433 ppb	15:37:40
3	K 766.490 Radial†	12033.7	10235.0	1912.4	ug/L	1912.4 ppb	15:37:20
3	Mg 279.077 IEC†	84.7	87.3	3935.0	ug/L	3935.0 ppb	15:37:40
3	Na 589.592 Radial†	706.0	1490.8	432.63	ug/L	432.63 ppb	15:37:20
3	Sr 421.552†	3905.2	4114.4	27.224	ug/L	27.224 ppb	15:37:20
3	Sc 361.383	906308.7	906308.7	100.69	%		15:38:50
3	Y 371.029	784921.9	784921.9	102.95	%		15:38:50
3	Ag 328.068†	484.2	251.6	9.3144	ug/L	9.3144 ppb	15:38:55
3	As 188.979†	763.5	778.8	365.17	ug/L	365.17 ppb	15:39:15
3	B 249.677†	-34.0	339.2	2.9500	ug/L	2.9500 ppb	15:38:55
3	Ba 233.527†	54150.5	53786.5	421.19	ug/L	421.19 ppb	15:38:55
3	Be 313.107†	116620.5	119670.1	46.363	ug/L	46.363 ppb	15:38:55
3	Cd 226.502†	231.4	413.1	1.9632	ug/L	1.9632 ppb	15:39:15
3	Co 228.616†	628.1	685.7	12.434	ug/L	12.434 ppb	15:39:15
3	Cr 267.716†	4476.6	4379.8	51.397	ug/L	51.397 ppb	15:39:15
3	Cu 324.752†	959674.9	946984.5	2844.3	ug/L	2844.3 ppb	15:38:50
3	Mn 257.610†	577574.3	573157.3	645.56	ug/L	645.56 ppb	15:38:50
3	Mo 202.031†	6.4	0.3	2.5342	ug/L	2.5342 ppb	15:39:15
3	Ni 231.604†	1982.8	1916.9	48.714	ug/L	48.714 ppb	15:39:15
3	P 214.914†	2631.1	2410.9	876.82	ug/L	876.82 ppb	15:39:15
3	Pb 220.353†	2234836.4	2219500.7	275010	ug/L	275010 ppb	15:38:50
3	S 181.975 Axial†	140.7	102.7	147.62	ug/L	147.62 ppb	15:39:15
3	Sb 206.836†	3552.2	3491.0	1214.2	ug/L	1214.2 ppb	15:39:15
3	Se 196.026†	-141.3	-119.6	19.026	ug/L	19.026 ppb	15:39:15
3	Si 251.611†	358622.7	355617.2	11408	ug/L	11408 ppb	15:38:55
3	Sn 189.927†	180.2	168.5	29.771	ug/L	29.771 ppb	15:39:15
3	Ti 334.940†	516298.1	514022.0	777.04	ug/L	777.04 ppb	15:38:50
3	Tl 190.801†	-66.3	-34.6	-1.7462	ug/L	-1.7462 ppb	15:39:15
3	U 409.014†	70713.9	73042.8	1970.0	ug/L	1970.0 ppb	15:38:55
3	V 292.402†	5449.0	6841.9	45.935	ug/L	45.935 ppb	15:38:55
3	Zn 213.857†	59329.6	58363.1	576.77	ug/L	576.77 ppb	15:38:55
3	SiO2†	363930.2	360870.7	24795	ug/L	24795 ppb	15:39:31

Mean Data: 245806004|948071|2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	909342.7	101.03	%	0.454				0.45%
Sc Radial	3992.8	93.9	%	0.81				0.86%
Y 371.029	787705.6	103.31	%	0.443				0.43%
Y RADIAL	4668.4	99.50	%	1.372				1.38%
Ag 328.068†	310.6	9.5948	ug/L	0.26596	9.5948	ppb	0.26596	2.77%
Al 396.153Radial†	16769.4	15187	ug/L	184.3	15187	ppb	184.3	1.21%
As 188.979†	778.9	365.21	ug/L	3.556	365.21	ppb	3.556	0.97%
B 249.677†	327.3	2.6644	ug/L	0.71331	2.6644	ppb	0.71331	26.77%
Ba 233.527†	53582.7	419.60	ug/L	1.529	419.60	ppb	1.529	0.36%
Be 313.107†	119250.3	46.208	ug/L	0.1376	46.208	ppb	0.1376	0.30%
Ca 317.933Radial†	3088.2	6144.2	ug/L	13.60	6144.2	ppb	13.60	0.22%
Cd 226.502†	410.7	1.9318	ug/L	0.02735	1.9318	ppb	0.02735	1.42%
Co 228.616†	678.6	12.282	ug/L	0.1405	12.282	ppb	0.1405	1.14%
Cr 267.716†	4368.8	51.278	ug/L	0.1061	51.278	ppb	0.1061	0.21%
Cu 324.752†	949768.5	2852.6	ug/L	7.25	2852.6	ppb	7.25	0.25%
Fe 238.204 Radial†	2440.3	31439	ug/L	5.3	31439	ppb	5.3	0.02%
K 766.490 Radial†	10342.8	1932.5	ug/L	18.88	1932.5	ppb	18.88	0.98%

Mg 279.077 IEC†	87.1	3923.9	ug/L	134.77	3923.9	ppb	134.77	3.43%
Mn 257.610†	572833.3	645.20	ug/L	0.697	645.20	ppb	0.697	0.11%
Mo 202.031†	-7.5	1.9613	ug/L	0.53080	1.9613	ppb	0.53080	27.06%
Na 589.592 Radial†	1496.6	434.33	ug/L	1.785	434.33	ppb	1.785	0.41%
Ni 231.604†	1899.6	48.275	ug/L	0.4283	48.275	ppb	0.4283	0.89%
P 214.914†	2402.6	870.17	ug/L	15.521	870.17	ppb	15.521	1.78%
Pb 220.353†	2214964.7	274450	ug/L	511.1	274450	ppb	511.1	0.19%
S 181.975 Axial†	98.5	141.42	ug/L	12.433	141.42	ppb	12.433	8.79%
Sb 206.836†	3477.1	1209.4	ug/L	4.61	1209.4	ppb	4.61	0.38%
Se 196.026†	-125.4	15.225	ug/L	3.8183	15.225	ppb	3.8183	25.08%
Si 251.611†	353531.7	11341	ug/L	58.2	11341	ppb	58.2	0.51%
Sn 189.927†	176.9	31.291	ug/L	1.4853	31.291	ppb	1.4853	4.75%
Sr 421.552†	4159.6	27.523	ug/L	0.2758	27.523	ppb	0.2758	1.00%
Ti 334.940†	514442.8	777.68	ug/L	0.655	777.68	ppb	0.655	0.08%
Tl 190.801†	-42.8	-4.3547	ug/L	2.90267	-4.3547	ppb	2.90267	66.66%
U 409.014†	72582.7	1957.5	ug/L	11.01	1957.5	ppb	11.01	0.56%
V 292.402†	6756.8	45.310	ug/L	0.5434	45.310	ppb	0.5434	1.20%
Zn 213.857†	58017.6	573.29	ug/L	3.014	573.29	ppb	3.014	0.53%
SiO2†	361529.1	24840	ug/L	40.7	24840	ppb	40.7	0.16%

Sequence No.: 16
Sample ID: 245806006|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 2/23/2010 15:48:49
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806006|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4030.7	4030.7	94.8	%			15:50:43
1	Y RADIAL	4673.4	4673.4	99.60	%			15:50:43
1	Al 396.153Radial†	13619.1	14482.7	13116	ug/L	13116	ppb	15:50:43
1	Ca 317.933Radial†	3074.4	3228.8	6424.1	ug/L	6424.1	ppb	15:51:03
1	Fe 238.204 Radial†	2239.8	2353.4	30321	ug/L	30321	ppb	15:51:03
1	K 766.490 Radial†	11915.8	10017.7	1871.6	ug/L	1871.6	ppb	15:50:43
1	Mg 279.077 IEC†	65.0	65.8	2960.8	ug/L	2960.8	ppb	15:51:03
1	Na 589.592 Radial†	983.4	1778.2	516.03	ug/L	516.03	ppb	15:50:43
1	Sr 421.552†	4597.7	4815.1	31.866	ug/L	31.866	ppb	15:50:43
1	Sc 361.383	913322.1	913322.1	101.47	%			15:52:00
1	Y 371.029	806757.3	806757.3	105.81	%			15:52:00
1	Ag 328.068†	-654.7	-874.6	4.3172	ug/L	4.3172	ppb	15:52:05
1	As 188.979†	-1.3	19.2	21.098	ug/L	21.098	ppb	15:52:25
1	B 249.677†	-226.0	150.2	-1.3926	ug/L	-1.3926	ppb	15:52:05
1	Ba 233.527†	51246.0	50511.2	395.55	ug/L	395.55	ppb	15:52:05
1	Be 313.107†	461605.9	458757.9	172.36	ug/L	172.36	ppb	15:52:00
1	Cd 226.502†	168.7	349.6	1.2041	ug/L	1.2041	ppb	15:52:25
1	Co 228.616†	853.1	902.7	17.317	ug/L	17.317	ppb	15:52:25
1	Cr 267.716†	4135.1	4009.1	47.390	ug/L	47.390	ppb	15:52:05
1	Cu 324.752†	674532.8	658663.3	1978.8	ug/L	1978.8	ppb	15:52:00
1	Mn 257.610†	591454.7	582431.6	655.89	ug/L	655.89	ppb	15:52:00
1	Mo 202.031†	10.6	4.4	2.7537	ug/L	2.7537	ppb	15:52:25
1	Ni 231.604†	1670.5	1593.9	40.502	ug/L	40.502	ppb	15:52:25
1	P 214.914†	2316.7	2081.0	848.86	ug/L	848.86	ppb	15:52:25
1	Pb 220.353†	34621.5	34183.9	4234.0	ug/L	4234.0	ppb	15:52:05
1	S 181.975 Axial†	114.6	75.9	108.76	ug/L	108.76	ppb	15:52:25
1	Sb 206.836†	137.2	98.5	31.964	ug/L	31.964	ppb	15:52:25
1	Se 196.026†	-144.7	-121.9	14.066	ug/L	14.066	ppb	15:52:25
1	Si 251.611†	411217.0	404713.1	12983	ug/L	12983	ppb	15:52:00
1	Sn 189.927†	85.5	73.8	12.760	ug/L	12.760	ppb	15:52:25
1	Ti 334.940†	411351.0	406661.1	615.08	ug/L	615.08	ppb	15:52:00
1	Tl 190.801†	-64.1	-32.0	-2.1927	ug/L	-2.1927	ppb	15:52:25
1	U 409.014†	45904.5	48054.4	1294.9	ug/L	1294.9	ppb	15:52:00
1	V 292.402†	4376.9	5743.8	37.340	ug/L	37.340	ppb	15:52:05
1	Zn 213.857†	25764.8	24833.1	241.71	ug/L	241.71	ppb	15:52:05
1	SiO2†	409208.7	402716.6	27670	ug/L	27670	ppb	15:53:32
2	Sc Radial	4077.7	4077.7	95.9	%			15:51:08
2	Y RADIAL	4711.3	4711.3	100.4	%			15:51:08
2	Al 396.153Radial†	13598.1	14295.5	12947	ug/L	12947	ppb	15:51:08
2	Ca 317.933Radial†	2987.8	3101.3	6170.2	ug/L	6170.2	ppb	15:51:28
2	Fe 238.204 Radial†	2185.7	2269.8	29243	ug/L	29243	ppb	15:51:28
2	K 766.490 Radial†	11952.2	9911.0	1851.7	ug/L	1851.7	ppb	15:51:08
2	Mg 279.077 IEC†	66.0	66.1	2974.5	ug/L	2974.5	ppb	15:51:28
2	Na 589.592 Radial†	991.9	1775.0	515.11	ug/L	515.11	ppb	15:51:08
2	Sr 421.552†	4529.5	4688.1	31.026	ug/L	31.026	ppb	15:51:08
2	Sc 361.383	905537.5	905537.5	100.61	%			15:52:30
2	Y 371.029	799854.6	799854.6	104.91	%			15:52:30
2	Ag 328.068†	-681.1	-906.3	3.8459	ug/L	3.8459	ppb	15:52:36
2	As 188.979†	-12.4	8.2	15.855	ug/L	15.855	ppb	15:52:56
2	B 249.677†	-226.8	147.6	-1.2816	ug/L	-1.2816	ppb	15:52:36
2	Ba 233.527†	51324.2	51023.1	399.52	ug/L	399.52	ppb	15:52:36
2	Be 313.107†	458176.6	459260.0	172.55	ug/L	172.55	ppb	15:52:30
2	Cd 226.502†	190.5	372.7	1.5834	ug/L	1.5834	ppb	15:52:56
2	Co 228.616†	853.6	910.3	17.496	ug/L	17.496	ppb	15:52:56
2	Cr 267.716†	4081.4	3990.8	47.084	ug/L	47.084	ppb	15:52:36
2	Cu 324.752†	667213.9	657103.2	1974.1	ug/L	1974.1	ppb	15:52:30
2	Mn 257.610†	586842.4	582857.9	656.26	ug/L	656.26	ppb	15:52:30
2	Mo 202.031†	6.8	0.7	2.3958	ug/L	2.3958	ppb	15:52:56
2	Ni 231.604†	1685.7	1623.2	41.248	ug/L	41.248	ppb	15:52:56

2	P 214.914†	2341.6	2125.4	877.53 ug/L	877.53 ppb	15:52:56
2	Pb 220.353†	34605.4	34461.2	4268.5 ug/L	4268.5 ppb	15:52:36
2	S 181.975 Axial†	114.7	76.9	110.27 ug/L	110.27 ppb	15:52:56
2	Sb 206.836†	155.1	117.5	38.602 ug/L	38.602 ppb	15:52:56
2	Se 196.026†	-151.3	-129.7	5.5578 ug/L	5.5578 ppb	15:52:56
2	Si 251.611†	407675.1	404676.4	12982 ug/L	12982 ppb	15:52:30
2	Sn 189.927†	83.0	72.1	12.458 ug/L	12.458 ppb	15:52:56
2	Ti 334.940†	407282.0	406101.6	614.20 ug/L	614.20 ppb	15:52:30
2	Tl 190.801†	-68.2	-36.6	-3.6845 ug/L	-3.6845 ppb	15:52:56
2	U 409.014†	45280.0	47822.5	1288.8 ug/L	1288.8 ppb	15:52:30
2	V 292.402†	4240.0	5644.8	36.796 ug/L	36.796 ppb	15:52:36
2	Zn 213.857†	25764.4	25050.9	244.06 ug/L	244.06 ppb	15:52:36
2	SiO2†	411939.3	408897.4	28095 ug/L	28095 ppb	15:53:38
3	Sc Radial	3990.7	3990.7	93.8 %		15:51:33
3	Y RADIAL	4663.9	4663.9	99.40 %		15:51:33
3	Al 396.153Radial†	13652.1	14662.2	13279 ug/L	13279 ppb	15:51:33
3	Ca 317.933Radial†	3034.6	3219.0	6404.6 ug/L	6404.6 ppb	15:51:53
3	Fe 238.204 Radial†	2229.5	2366.1	30484 ug/L	30484 ppb	15:51:53
3	K 766.490 Radial†	11987.2	10220.0	1909.4 ug/L	1909.4 ppb	15:51:33
3	Mg 279.077 IEC†	61.1	62.3	2801.1 ug/L	2801.1 ppb	15:51:53
3	Na 589.592 Radial†	959.7	1763.3	511.72 ug/L	511.72 ppb	15:51:33
3	Sr 421.552†	4570.4	4834.7	31.996 ug/L	31.996 ppb	15:51:33
3	Sc 361.383	914302.9	914302.9	101.58 %		15:53:01
3	Y 371.029	806830.4	806830.4	105.82 %		15:53:01
3	Ag 328.068†	-773.7	-991.0	3.8264 ug/L	3.8264 ppb	15:53:06
3	As 188.979†	-7.4	13.3	18.451 ug/L	18.451 ppb	15:53:26
3	B 249.677†	-175.4	200.3	-0.2240 ug/L	-0.2240 ppb	15:53:06
3	Ba 233.527†	51459.8	50667.5	396.78 ug/L	396.78 ppb	15:53:06
3	Be 313.107†	461864.2	458524.2	172.28 ug/L	172.28 ppb	15:53:01
3	Cd 226.502†	177.2	357.8	1.2833 ug/L	1.2833 ppb	15:53:26
3	Co 228.616†	856.3	904.9	17.359 ug/L	17.359 ppb	15:53:26
3	Cr 267.716†	4168.8	4037.9	47.727 ug/L	47.727 ppb	15:53:06
3	Cu 324.752†	675560.8	658962.2	1979.7 ug/L	1979.7 ppb	15:53:01
3	Mn 257.610†	593179.9	583504.6	657.11 ug/L	657.11 ppb	15:53:01
3	Mo 202.031†	2.6	-3.5	2.1855 ug/L	2.1855 ppb	15:53:26
3	Ni 231.604†	1651.9	1573.9	39.993 ug/L	39.993 ppb	15:53:26
3	P 214.914†	2307.0	2069.0	841.29 ug/L	841.29 ppb	15:53:26
3	Pb 220.353†	34674.7	34199.7	4236.0 ug/L	4236.0 ppb	15:53:06
3	S 181.975 Axial†	109.7	71.0	101.52 ug/L	101.52 ppb	15:53:26
3	Sb 206.836†	147.3	108.3	35.330 ug/L	35.330 ppb	15:53:26
3	Se 196.026†	-145.8	-122.8	13.995 ug/L	13.995 ppb	15:53:26
3	Si 251.611†	412922.9	405957.7	13023 ug/L	13023 ppb	15:53:01
3	Sn 189.927†	77.1	65.5	11.229 ug/L	11.229 ppb	15:53:26
3	Ti 334.940†	412248.9	407110.2	615.77 ug/L	615.77 ppb	15:53:01
3	Tl 190.801†	-69.8	-37.5	-3.9614 ug/L	-3.9614 ppb	15:53:26
3	U 409.014†	46128.6	48226.4	1299.5 ug/L	1299.5 ppb	15:53:01
3	V 292.402†	4273.3	5637.2	36.573 ug/L	36.573 ppb	15:53:06
3	Zn 213.857†	25972.1	25009.9	243.46 ug/L	243.46 ppb	15:53:06
3	SiO2†	409751.5	402818.4	27677 ug/L	27677 ppb	15:53:43

Mean Data: 245806006|948071|2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	911054.2	101.22	%	0.534				0.53%
Sc Radial	4033.0	94.8	%	1.02				1.08%
Y 371.029	804480.8	105.51	%	0.525				0.50%
Y RADIAL	4682.9	99.80	%	0.534				0.54%
Ag 328.068†	-924.0	3.9965	ug/L	0.27792	3.9965	ppb	0.27792	6.95%
Al 396.153Radial†	14480.1	13114	ug/L	166.1	13114	ppb	166.1	1.27%
As 188.979†	13.6	18.468	ug/L	2.6218	18.468	ppb	2.6218	14.20%
B 249.677†	166.0	-0.9661	ug/L	0.64507	-0.9661	ppb	0.64507	66.77%
Ba 233.527†	50733.9	397.28	ug/L	2.030	397.28	ppb	2.030	0.51%
Be 313.107†	458847.3	172.40	ug/L	0.138	172.40	ppb	0.138	0.08%
Ca 317.933Radial†	3183.0	6333.0	ug/L	141.26	6333.0	ppb	141.26	2.23%
Cd 226.502†	360.0	1.3569	ug/L	0.20007	1.3569	ppb	0.20007	14.74%
Co 228.616†	906.0	17.391	ug/L	0.0937	17.391	ppb	0.0937	0.54%
Cr 267.716†	4012.6	47.400	ug/L	0.3214	47.400	ppb	0.3214	0.68%
Cu 324.752†	658242.9	1977.5	ug/L	3.03	1977.5	ppb	3.03	0.15%
Fe 238.204 Radial†	2329.8	30016	ug/L	674.2	30016	ppb	674.2	2.25%
K 766.490 Radial†	10049.6	1877.6	ug/L	29.33	1877.6	ppb	29.33	1.56%

Mg 279.077 IEC†	64.8	2912.1	ug/L	96.40	2912.1	ppb	96.40	3.31%
Mn 257.610†	582931.4	656.42	ug/L	0.629	656.42	ppb	0.629	0.10%
Mo 202.031†	0.5	2.4450	ug/L	0.28730	2.4450	ppb	0.28730	11.75%
Na 589.592 Radial†	1772.2	514.29	ug/L	2.272	514.29	ppb	2.272	0.44%
Ni 231.604†	1597.0	40.581	ug/L	0.6310	40.581	ppb	0.6310	1.56%
P 214.914†	2091.8	855.89	ug/L	19.119	855.89	ppb	19.119	2.23%
Pb 220.353†	34281.6	4246.2	ug/L	19.34	4246.2	ppb	19.34	0.46%
S 181.975 Axial†	74.6	106.85	ug/L	4.681	106.85	ppb	4.681	4.38%
Sb 206.836†	108.1	35.298	ug/L	3.3192	35.298	ppb	3.3192	9.40%
Se 196.026†	-124.8	11.206	ug/L	4.8918	11.206	ppb	4.8918	43.65%
Si 251.611†	405115.7	12996	ug/L	23.4	12996	ppb	23.4	0.18%
Sn 189.927†	70.5	12.149	ug/L	0.8106	12.149	ppb	0.8106	6.67%
Sr 421.552†	4779.3	31.629	ug/L	0.5263	31.629	ppb	0.5263	1.66%
Ti 334.940†	406624.3	615.01	ug/L	0.785	615.01	ppb	0.785	0.13%
Tl 190.801†	-35.4	-3.2795	ug/L	0.95135	-3.2795	ppb	0.95135	29.01%
U 409.014†	48034.4	1294.4	ug/L	5.40	1294.4	ppb	5.40	0.42%
V 292.402†	5675.3	36.903	ug/L	0.3949	36.903	ppb	0.3949	1.07%
Zn 213.857†	24964.6	243.08	ug/L	1.221	243.08	ppb	1.221	0.50%
SiO2†	404810.8	27814	ug/L	243.2	27814	ppb	243.2	0.87%

Sequence No.: 17
Sample ID: 245806007|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 2/23/2010 15:55:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806007|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4143.4	4143.4	97.4	%			15:57:48
1	Y RADIAL	4798.6	4798.6	102.3	%			15:57:48
1	Al 396.153Radial†	28500.8	29369.1	26598	ug/L	26598	ppb	15:57:48
1	Ca 317.933Radial†	6113.6	6260.6	12456	ug/L	12456	ppb	15:57:48
1	Fe 238.204 Radial†	2816.9	2881.6	37125	ug/L	37125	ppb	15:58:08
1	K 766.490 Radial†	30059.6	28301.8	5290.2	ug/L	5290.2	ppb	15:57:48
1	Mg 279.077 IEC†	121.1	121.6	5487.1	ug/L	5487.1	ppb	15:58:08
1	Na 589.592 Radial†	62.6	804.6	233.50	ug/L	233.50	ppb	15:57:48
1	Sr 421.552†	14403.6	14749.6	97.666	ug/L	97.666	ppb	15:57:48
1	Sc 361.383	910865.1	910865.1	101.20	%			15:59:05
1	Y 371.029	796082.4	796082.4	104.41	%			15:59:05
1	Ag 328.068†	-1963.1	-2169.1	1.4628	ug/L	1.4628	ppb	15:59:05
1	As 188.979†	-17.1	3.6	19.112	ug/L	19.112	ppb	15:59:25
1	B 249.677†	18.8	391.6	3.2538	ug/L	3.2538	ppb	15:59:05
1	Ba 233.527†	50030.9	49446.7	387.53	ug/L	387.53	ppb	15:59:05
1	Be 313.107†	18074.3	21713.2	10.391	ug/L	10.391	ppb	15:59:05
1	Cd 226.502†	420.4	598.8	3.1656	ug/L	3.1656	ppb	15:59:25
1	Co 228.616†	986.9	1037.1	19.193	ug/L	19.193	ppb	15:59:25
1	Cr 267.716†	3360.1	3254.2	40.076	ug/L	40.076	ppb	15:59:25
1	Cu 324.752†	169417.9	161331.6	486.34	ug/L	486.34	ppb	15:59:05
1	Mn 257.610†	1121945.6	1108203.5	1245.9	ug/L	1245.9	ppb	15:59:05
1	Mo 202.031†	-9.8	-15.8	1.8754	ug/L	1.8754	ppb	15:59:25
1	Ni 231.604†	1355.7	1287.3	32.708	ug/L	32.708	ppb	15:59:25
1	P 214.914†	1594.3	1373.3	713.68	ug/L	713.68	ppb	15:59:25
1	Pb 220.353†	3708.9	3730.0	463.59	ug/L	463.59	ppb	15:59:25
1	S 181.975 Axial†	582.9	539.0	784.61	ug/L	784.61	ppb	15:59:25
1	Sb 206.836†	60.3	22.9	3.4626	ug/L	3.4626	ppb	15:59:25
1	Se 196.026†	-170.9	-148.2	17.818	ug/L	17.818	ppb	15:59:25
1	Si 251.611†	578196.6	570805.6	18311	ug/L	18311	ppb	15:59:05
1	Sn 189.927†	-78.0	-87.5	-15.750	ug/L	-15.750	ppb	15:59:25
1	Ti 334.940†	676285.5	669547.2	1013.8	ug/L	1013.8	ppb	15:59:05
1	Tl 190.801†	-86.9	-54.7	-3.4475	ug/L	-3.4475	ppb	15:59:25
1	U 409.014†	2860.3	5642.7	148.16	ug/L	148.16	ppb	15:59:05
1	V 292.402†	9617.4	10933.7	69.798	ug/L	69.798	ppb	15:59:05
1	Zn 213.857†	24371.3	23524.6	229.63	ug/L	229.63	ppb	15:59:05
1	SiO2†	582366.8	574909.0	39501	ug/L	39501	ppb	16:00:23
2	Sc Radial	4207.7	4207.7	98.9	%			15:58:13
2	Y RADIAL	4839.5	4839.5	103.1	%			15:58:13
2	Al 396.153Radial†	28890.8	29316.6	26550	ug/L	26550	ppb	15:58:13
2	Ca 317.933Radial†	6213.8	6266.1	12467	ug/L	12467	ppb	15:58:13
2	Fe 238.204 Radial†	2833.1	2853.8	36767	ug/L	36767	ppb	15:58:33
2	K 766.490 Radial†	30435.1	28210.2	5273.0	ug/L	5273.0	ppb	15:58:13
2	Mg 279.077 IEC†	117.8	116.3	5247.0	ug/L	5247.0	ppb	15:58:33
2	Na 589.592 Radial†	107.9	849.5	246.52	ug/L	246.52	ppb	15:58:13
2	Sr 421.552†	14579.4	14701.6	97.347	ug/L	97.347	ppb	15:58:13
2	Sc 361.383	907776.6	907776.6	100.86	%			15:59:31
2	Y 371.029	793522.7	793522.7	104.08	%			15:59:31
2	Ag 328.068†	-2028.7	-2240.8	1.0284	ug/L	1.0284	ppb	15:59:31
2	As 188.979†	-23.2	-2.5	16.275	ug/L	16.275	ppb	15:59:51
2	B 249.677†	54.2	426.7	4.1499	ug/L	4.1499	ppb	15:59:31
2	Ba 233.527†	50130.4	49713.6	389.60	ug/L	389.60	ppb	15:59:31
2	Be 313.107†	18223.0	21921.5	10.470	ug/L	10.470	ppb	15:59:31
2	Cd 226.502†	415.7	595.5	3.1632	ug/L	3.1632	ppb	15:59:51
2	Co 228.616†	984.1	1037.6	19.210	ug/L	19.210	ppb	15:59:51
2	Cr 267.716†	3362.8	3268.2	40.202	ug/L	40.202	ppb	15:59:51
2	Cu 324.752†	168111.7	160606.1	484.15	ug/L	484.15	ppb	15:59:31
2	Mn 257.610†	1121804.1	1111835.2	1250.0	ug/L	1250.0	ppb	15:59:31
2	Mo 202.031†	-1.6	-7.6	2.4448	ug/L	2.4448	ppb	15:59:51
2	Ni 231.604†	1319.5	1256.0	31.911	ug/L	31.911	ppb	15:59:51

2	P 214.914†	1586.2	1370.7	712.80	ug/L	712.80 ppb	15:59:51
2	Pb 220.353†	3692.2	3725.9	463.11	ug/L	463.11 ppb	15:59:51
2	S 181.975 Axial†	586.0	544.0	791.91	ug/L	791.91 ppb	15:59:51
2	Sb 206.836†	73.3	36.0	8.0627	ug/L	8.0627 ppb	15:59:51
2	Se 196.026†	-169.8	-147.6	17.080	ug/L	17.080 ppb	15:59:51
2	Si 251.611†	576507.1	571074.3	18320	ug/L	18320 ppb	15:59:31
2	Sn 189.927†	-73.9	-83.7	-15.035	ug/L	-15.035 ppb	15:59:51
2	Ti 334.940†	674432.3	669983.5	1014.5	ug/L	1014.5 ppb	15:59:31
2	Tl 190.801†	-90.6	-58.6	-4.6884	ug/L	-4.6884 ppb	15:59:51
2	U 409.014†	2567.4	5361.9	140.61	ug/L	140.61 ppb	15:59:31
2	V 292.402†	9538.9	10888.3	69.523	ug/L	69.523 ppb	15:59:31
2	Zn 213.857†	24283.1	23519.1	229.64	ug/L	229.64 ppb	15:59:31
2	SiO2†	577982.7	572520.1	39337	ug/L	39337 ppb	16:00:28
3	Sc Radial	4127.9	4127.9	97.0	%		15:58:38
3	Y RADIAL	4762.6	4762.6	101.5	%		15:58:38
3	Al 396.153Radial†	28478.4	29455.9	26677	ug/L	26677 ppb	15:58:38
3	Ca 317.933Radial†	6087.9	6257.7	12450	ug/L	12450 ppb	15:58:38
3	Fe 238.204 Radial†	2820.7	2896.4	37316	ug/L	37316 ppb	15:58:58
3	K 766.490 Radial†	29761.1	28110.0	5254.3	ug/L	5254.3 ppb	15:58:38
3	Mg 279.077 IEC†	120.3	121.2	5467.6	ug/L	5467.6 ppb	15:58:58
3	Na 589.592 Radial†	70.4	812.9	235.89	ug/L	235.89 ppb	15:58:38
3	Sr 421.552†	14295.0	14693.3	97.292	ug/L	97.292 ppb	15:58:38
3	Sc 361.383	904274.3	904274.3	100.47	%		15:59:57
3	Y 371.029	789669.1	789669.1	103.57	%		15:59:57
3	Ag 328.068†	-1935.9	-2156.2	1.5800	ug/L	1.5800 ppb	15:59:57
3	As 188.979†	-25.1	-4.4	15.527	ug/L	15.527 ppb	16:00:17
3	B 249.677†	-42.4	330.7	1.7711	ug/L	1.7711 ppb	15:59:57
3	Ba 233.527†	49806.1	49583.3	388.60	ug/L	388.60 ppb	15:59:57
3	Be 313.107†	17893.1	21663.0	10.374	ug/L	10.374 ppb	15:59:57
3	Cd 226.502†	433.0	614.3	3.3251	ug/L	3.3251 ppb	16:00:17
3	Co 228.616†	986.4	1043.7	19.329	ug/L	19.329 ppb	16:00:17
3	Cr 267.716†	3345.8	3264.2	40.207	ug/L	40.207 ppb	16:00:17
3	Cu 324.752†	167640.4	160782.6	484.71	ug/L	484.71 ppb	15:59:57
3	Mn 257.610†	1116572.2	1110935.6	1249.0	ug/L	1249.0 ppb	15:59:57
3	Mo 202.031†	-0.4	-6.5	2.5679	ug/L	2.5679 ppb	16:00:17
3	Ni 231.604†	1350.2	1291.6	32.818	ug/L	32.818 ppb	16:00:17
3	P 214.914†	1593.6	1384.2	720.45	ug/L	720.45 ppb	16:00:17
3	Pb 220.353†	3668.1	3716.1	461.86	ug/L	461.86 ppb	16:00:17
3	S 181.975 Axial†	584.4	544.6	792.86	ug/L	792.86 ppb	16:00:17
3	Sb 206.836†	60.4	23.4	3.6667	ug/L	3.6667 ppb	16:00:17
3	Se 196.026†	-181.1	-159.6	10.907	ug/L	10.907 ppb	16:00:17
3	Si 251.611†	574705.3	571494.8	18333	ug/L	18333 ppb	15:59:57
3	Sn 189.927†	-72.0	-82.1	-14.785	ug/L	-14.785 ppb	16:00:17
3	Ti 334.940†	671854.4	670007.5	1014.5	ug/L	1014.5 ppb	15:59:57
3	Tl 190.801†	-81.8	-50.2	-1.9920	ug/L	-1.9920 ppb	16:00:17
3	U 409.014†	2670.5	5474.4	143.59	ug/L	143.59 ppb	15:59:57
3	V 292.402†	9381.5	10768.2	68.620	ug/L	68.620 ppb	15:59:57
3	Zn 213.857†	24166.7	23496.4	229.32	ug/L	229.32 ppb	15:59:57
3	SiO2†	572884.6	569665.2	39141	ug/L	39141 ppb	16:00:34

Mean Data: 245806007|948071|2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	907638.7	100.84	%	0.366				0.36%
Sc Radial	4159.7	97.8	%	0.99				1.02%
Y 371.029	793091.4	104.02	%	0.423				0.41%
Y RADIAL	4800.2	102.3	%	0.82				0.80%
Ag 328.068†	-2188.7	1.3571	ug/L	0.29063	1.3571	ppb	0.29063	21.42%
Al 396.153Radial†	29380.5	26608	ug/L	63.7	26608	ppb	63.7	0.24%
As 188.979†	-1.1	16.971	ug/L	1.8912	16.971	ppb	1.8912	11.14%
B 249.677†	383.0	3.0583	ug/L	1.20141	3.0583	ppb	1.20141	39.28%
Ba 233.527†	49581.2	388.57	ug/L	1.037	388.57	ppb	1.037	0.27%
Be 313.107†	21765.9	10.412	ug/L	0.0513	10.412	ppb	0.0513	0.49%
Ca 317.933Radial†	6261.5	12458	ug/L	8.4	12458	ppb	8.4	0.07%
Cd 226.502†	602.8	3.2180	ug/L	0.09276	3.2180	ppb	0.09276	2.88%
Co 228.616†	1039.5	19.244	ug/L	0.0743	19.244	ppb	0.0743	0.39%
Cr 267.716†	3262.2	40.162	ug/L	0.0739	40.162	ppb	0.0739	0.18%
Cu 324.752†	160906.8	485.07	ug/L	1.140	485.07	ppb	1.140	0.24%
Fe 238.204 Radial†	2877.3	37069	ug/L	278.9	37069	ppb	278.9	0.75%
K 766.490 Radial†	28207.3	5272.5	ug/L	17.94	5272.5	ppb	17.94	0.34%

Mg 279.077 IEC†	119.7	5400.6	ug/L	133.35	5400.6	ppb	133.35	2.47%
Mn 257.610†	1110324.8	1248.3	ug/L	2.11	1248.3	ppb	2.11	0.17%
Mo 202.031†	-10.0	2.2960	ug/L	0.36944	2.2960	ppb	0.36944	16.09%
Na 589.592 Radial†	822.3	238.64	ug/L	6.929	238.64	ppb	6.929	2.90%
Ni 231.604†	1278.3	32.479	ug/L	0.4949	32.479	ppb	0.4949	1.52%
P 214.914†	1376.1	715.64	ug/L	4.186	715.64	ppb	4.186	0.58%
Pb 220.353†	3724.0	462.86	ug/L	0.891	462.86	ppb	0.891	0.19%
S 181.975 Axial†	542.5	789.80	ug/L	4.515	789.80	ppb	4.515	0.57%
Sb 206.836†	27.4	5.0640	ug/L	2.59897	5.0640	ppb	2.59897	51.32%
Se 196.026†	-151.8	15.268	ug/L	3.7953	15.268	ppb	3.7953	24.86%
Si 251.611†	571124.9	18322	ug/L	11.1	18322	ppb	11.1	0.06%
Sn 189.927†	-84.4	-15.190	ug/L	0.5012	-15.190	ppb	0.5012	3.30%
Sr 421.552†	14714.8	97.435	ug/L	0.2017	97.435	ppb	0.2017	0.21%
Ti 334.940†	669846.0	1014.2	ug/L	0.40	1014.2	ppb	0.40	0.04%
Tl 190.801†	-54.5	-3.3760	ug/L	1.34964	-3.3760	ppb	1.34964	39.98%
U 409.014†	5493.0	144.12	ug/L	3.801	144.12	ppb	3.801	2.64%
V 292.402†	10863.4	69.314	ug/L	0.6160	69.314	ppb	0.6160	0.89%
Zn 213.857†	23513.4	229.53	ug/L	0.181	229.53	ppb	0.181	0.08%
SiO2†	572364.8	39326	ug/L	180.4	39326	ppb	180.4	0.46%

Sequence No.: 19
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/23/2010 16:09:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4074.5	4074.5	95.8	%			16:11:40
1	Y RADIAL	4466.8	4466.8	95.20	%			16:11:40
1	Al 396.153Radial†	5168.3	5506.3	4962.8	ug/L	4962.8	ppb	16:11:40
1	Ca 317.933Radial†	2483.6	2577.3	5127.8	ug/L	5127.8	ppb	16:12:00
1	Fe 238.204 Radial†	382.6	389.2	5029.5	ug/L	5029.5	ppb	16:12:00
1	K 766.490 Radial†	28349.6	27038.9	5052.3	ug/L	5052.3	ppb	16:11:40
1	Mg 279.077 IEC†	111.2	113.3	5149.8	ug/L	5149.8	ppb	16:12:00
1	Na 589.592 Radial†	31834.0	33973.6	9859.3	ug/L	9859.3	ppb	16:11:40
1	Sr 421.552†	71143.0	74233.2	491.97	ug/L	491.97	ppb	16:11:40
1	Sc 361.383	915957.5	915957.5	101.77	%			16:12:57
1	Y 371.029	761917.7	761917.7	99.931	%			16:12:57
1	Ag 328.068†	108312.5	106203.7	490.77	ug/L	490.77	ppb	16:13:03
1	As 188.979†	1100.2	1101.7	500.69	ug/L	500.69	ppb	16:13:23
1	B 249.677†	19704.7	19735.7	468.78	ug/L	468.78	ppb	16:13:03
1	Ba 233.527†	63748.1	62651.1	490.59	ug/L	490.59	ppb	16:13:03
1	Be 313.107†	1333845.9	1314553.4	490.97	ug/L	490.97	ppb	16:12:57
1	Cd 226.502†	43136.9	42571.6	494.03	ug/L	494.03	ppb	16:13:03
1	Co 228.616†	23905.0	23552.1	492.52	ug/L	492.52	ppb	16:13:03
1	Cr 267.716†	44346.6	43511.1	488.99	ug/L	488.99	ppb	16:13:03
1	Cu 324.752†	167978.8	158986.8	477.42	ug/L	477.42	ppb	16:13:03
1	Mn 257.610†	447493.5	439291.4	492.81	ug/L	492.81	ppb	16:12:57
1	Mo 202.031†	6865.4	6740.2	493.72	ug/L	493.72	ppb	16:13:23
1	Ni 231.604†	19795.5	19399.7	492.80	ug/L	492.80	ppb	16:13:03
1	P 214.914†	4357.6	4080.0	2382.7	ug/L	2382.7	ppb	16:13:23
1	Pb 220.353†	4183.6	4176.0	518.95	ug/L	518.95	ppb	16:13:23
1	S 181.975 Axial†	735.6	685.8	1003.8	ug/L	1003.8	ppb	16:13:23
1	Sb 206.836†	1462.4	1400.3	505.95	ug/L	505.95	ppb	16:13:23
1	Se 196.026†	731.8	739.8	504.86	ug/L	504.86	ppb	16:13:23
1	Si 251.611†	77780.3	75896.4	2428.7	ug/L	2428.7	ppb	16:13:03
1	Sn 189.927†	2799.6	2740.6	496.43	ug/L	496.43	ppb	16:13:23
1	Ti 334.940†	316918.7	312701.2	472.82	ug/L	472.82	ppb	16:13:03
1	Tl 190.801†	1515.0	1519.9	490.97	ug/L	490.97	ppb	16:13:23
1	U 409.014†	15057.4	17612.4	474.24	ug/L	474.24	ppb	16:13:03
1	V 292.402†	69445.3	69670.6	490.26	ug/L	490.26	ppb	16:13:03
1	Zn 213.857†	50348.9	48917.5	486.31	ug/L	486.31	ppb	16:13:03
1	SiO2†	78349.1	76438.1	5238.5	ug/L	5238.5	ppb	16:14:30
2	Sc Radial	4060.0	4060.0	95.4	%			16:12:05
2	Y RADIAL	4461.9	4461.9	95.10	%			16:12:05
2	Al 396.153Radial†	5229.2	5589.2	5037.5	ug/L	5037.5	ppb	16:12:05
2	Ca 317.933Radial†	2458.1	2559.8	5093.0	ug/L	5093.0	ppb	16:12:25
2	Fe 238.204 Radial†	382.3	390.4	5044.3	ug/L	5044.3	ppb	16:12:25
2	K 766.490 Radial†	28453.3	27252.9	5092.3	ug/L	5092.3	ppb	16:12:05
2	Mg 279.077 IEC†	111.5	114.1	5183.9	ug/L	5183.9	ppb	16:12:25
2	Na 589.592 Radial†	32145.8	34418.6	9988.4	ug/L	9988.4	ppb	16:12:05
2	Sr 421.552†	71917.5	75309.1	499.10	ug/L	499.10	ppb	16:12:05
2	Sc 361.383	897731.4	897731.4	99.741	%			16:13:28
2	Y 371.029	748121.4	748121.4	98.122	%			16:13:28
2	Ag 328.068†	110089.2	110145.8	508.93	ug/L	508.93	ppb	16:13:34
2	As 188.979†	1094.7	1118.0	508.20	ug/L	508.20	ppb	16:13:54
2	B 249.677†	20205.3	20630.7	490.09	ug/L	490.09	ppb	16:13:34
2	Ba 233.527†	64403.0	64579.4	505.69	ug/L	505.69	ppb	16:13:34
2	Be 313.107†	1306911.1	1314158.9	490.86	ug/L	490.86	ppb	16:13:28
2	Cd 226.502†	43768.2	44065.2	511.37	ug/L	511.37	ppb	16:13:34
2	Co 228.616†	24261.7	24386.7	509.96	ug/L	509.96	ppb	16:13:34
2	Cr 267.716†	44986.3	45037.1	506.12	ug/L	506.12	ppb	16:13:34
2	Cu 324.752†	171449.8	165818.0	497.93	ug/L	497.93	ppb	16:13:34
2	Mn 257.610†	437942.5	438643.2	492.09	ug/L	492.09	ppb	16:13:28
2	Mo 202.031†	6857.7	6869.4	503.18	ug/L	503.18	ppb	16:13:54
2	Ni 231.604†	20098.1	20098.0	510.54	ug/L	510.54	ppb	16:13:34

2	P 214.914†	4347.0	4156.3	2425.1 ug/L	2425.1 ppb	16:13:54
2	Pb 220.353†	4197.0	4272.9	530.99 ug/L	530.99 ppb	16:13:54
2	S 181.975 Axial†	730.1	694.9	1017.1 ug/L	1017.1 ppb	16:13:54
2	Sb 206.836†	1448.7	1415.8	511.70 ug/L	511.70 ppb	16:13:54
2	Se 196.026†	735.4	758.1	516.99 ug/L	516.99 ppb	16:13:54
2	Si 251.611†	79239.7	78911.3	2525.3 ug/L	2525.3 ppb	16:13:34
2	Sn 189.927†	2805.9	2802.8	507.67 ug/L	507.67 ppb	16:13:54
2	Ti 334.940†	321889.1	324006.9	489.90 ug/L	489.90 ppb	16:13:34
2	Tl 190.801†	1529.1	1564.3	505.23 ug/L	505.23 ppb	16:13:54
2	U 409.014†	15183.8	18039.5	485.74 ug/L	485.74 ppb	16:13:34
2	V 292.402†	70444.6	72058.0	506.97 ug/L	506.97 ppb	16:13:34
2	Zn 213.857†	51140.7	50715.8	504.21 ug/L	504.21 ppb	16:13:34
2	SiO2†	77437.7	77087.3	5282.9 ug/L	5282.9 ppb	16:14:35
3	Sc Radial	4025.0	4025.0	94.6 %		16:12:30
3	Y RADIAL	4432.7	4432.7	94.47 %		16:12:30
3	Al 396.153Radial†	5150.6	5553.8	5005.8 ug/L	5005.8 ppb	16:12:30
3	Ca 317.933Radial†	2465.8	2590.4	5153.8 ug/L	5153.8 ppb	16:12:50
3	Fe 238.204 Radial†	384.7	396.4	5121.4 ug/L	5121.4 ppb	16:12:50
3	K 766.490 Radial†	28185.4	27229.1	5087.8 ug/L	5087.8 ppb	16:12:30
3	Mg 279.077 IEC†	112.5	116.1	5275.9 ug/L	5275.9 ppb	16:12:50
3	Na 589.592 Radial†	31707.7	34248.5	9939.0 ug/L	9939.0 ppb	16:12:30
3	Sr 421.552†	70879.0	74866.9	496.17 ug/L	496.17 ppb	16:12:30
3	Sc 361.383	910144.2	910144.2	101.12 %		16:13:59
3	Y 371.029	757936.6	757936.6	99.409 %		16:13:59
3	Ag 328.068†	107929.6	106504.8	492.18 ug/L	492.18 ppb	16:14:05
3	As 188.979†	1085.8	1094.3	497.39 ug/L	497.39 ppb	16:14:25
3	B 249.677†	19711.3	19865.9	471.87 ug/L	471.87 ppb	16:14:05
3	Ba 233.527†	63522.2	62827.7	491.97 ug/L	491.97 ppb	16:14:05
3	Be 313.107†	1323555.5	1312748.6	490.30 ug/L	490.30 ppb	16:13:59
3	Cd 226.502†	43080.4	42786.5	496.51 ug/L	496.51 ppb	16:14:05
3	Co 228.616†	23826.6	23624.6	494.04 ug/L	494.04 ppb	16:14:05
3	Cr 267.716†	44215.9	43660.2	490.67 ug/L	490.67 ppb	16:14:05
3	Cu 324.752†	167502.7	159570.2	479.18 ug/L	479.18 ppb	16:14:05
3	Mn 257.610†	444655.0	439293.0	492.82 ug/L	492.82 ppb	16:13:59
3	Mo 202.031†	6847.6	6765.7	495.59 ug/L	495.59 ppb	16:14:25
3	Ni 231.604†	19755.7	19484.6	494.96 ug/L	494.96 ppb	16:14:05
3	P 214.914†	4354.0	4103.8	2396.8 ug/L	2396.8 ppb	16:14:25
3	Pb 220.353†	4190.8	4209.4	523.10 ug/L	523.10 ppb	16:14:25
3	S 181.975 Axial†	729.7	684.6	1001.9 ug/L	1001.9 ppb	16:14:25
3	Sb 206.836†	1469.7	1416.7	511.75 ug/L	511.75 ppb	16:14:25
3	Se 196.026†	729.6	742.3	506.79 ug/L	506.79 ppb	16:14:25
3	Si 251.611†	77539.7	76146.7	2436.7 ug/L	2436.7 ppb	16:14:05
3	Sn 189.927†	2803.6	2762.1	500.32 ug/L	500.32 ppb	16:14:25
3	Ti 334.940†	315909.5	313692.1	474.31 ug/L	474.31 ppb	16:14:05
3	Tl 190.801†	1519.0	1533.4	495.29 ug/L	495.29 ppb	16:14:25
3	U 409.014†	14925.9	17576.9	473.26 ug/L	473.26 ppb	16:14:05
3	V 292.402†	69145.4	69809.9	491.24 ug/L	491.24 ppb	16:14:05
3	Zn 213.857†	50291.0	49176.3	488.88 ug/L	488.88 ppb	16:14:05
3	SiO2†	77224.2	75817.4	5195.8 ug/L	5195.8 ppb	16:14:40

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	907944.4	100.88	%	1.034				1.03%
Sc Radial	4053.1	95.3	%	0.60				0.63%
Y 371.029	755991.9	99.154	%	0.9313				0.94%
Y RADIAL	4453.8	94.92	%	0.394				0.41%
Ag 328.068†	107618.1	497.29	ug/L	10.104	497.29	ppb	10.104	2.03%
QC value within limits for Ag 328.068 Recovery = 99.46%								
Al 396.153Radial†	5549.8	5002.0	ug/L	37.47	5002.0	ppb	37.47	0.75%
QC value within limits for Al 396.153Radial Recovery = 100.04%								
As 188.979†	1104.7	502.09	ug/L	5.542	502.09	ppb	5.542	1.10%
QC value within limits for As 188.979 Recovery = 100.42%								
B 249.677†	20077.5	476.91	ug/L	11.514	476.91	ppb	11.514	2.41%
QC value within limits for B 249.677 Recovery = 95.38%								
Ba 233.527†	63352.7	496.08	ug/L	8.347	496.08	ppb	8.347	1.68%
QC value within limits for Ba 233.527 Recovery = 99.22%								
Be 313.107†	1313820.3	490.71	ug/L	0.359	490.71	ppb	0.359	0.07%
QC value within limits for Be 313.107 Recovery = 98.14%								
Ca 317.933Radial†	2575.8	5124.9	ug/L	30.53	5124.9	ppb	30.53	0.60%

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   QC value within limits for Ca 317.933Radial  Recovery = 102.50%
Cd 226.502†            43141.1      500.64 ug/L         9.381      500.64 ppb          9.381   1.87%
   QC value within limits for Cd 226.502  Recovery = 100.13%
Co 228.616†            23854.5      498.84 ug/L         9.658      498.84 ppb          9.658   1.94%
   QC value within limits for Co 228.616  Recovery = 99.77%
Cr 267.716†            44069.5      495.26 ug/L         9.445      495.26 ppb          9.445   1.91%
   QC value within limits for Cr 267.716  Recovery = 99.05%
Cu 324.752†           161458.3      484.85 ug/L        11.367      484.85 ppb         11.367   2.34%
   QC value within limits for Cu 324.752  Recovery = 96.97%
Fe 238.204 Radial†       392.0      5065.1 ug/L         49.31      5065.1 ppb          49.31   0.97%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.30%
K 766.490 Radial†      27173.6      5077.5 ug/L         21.92      5077.5 ppb          21.92   0.43%
   QC value within limits for K 766.490 Radial  Recovery = 101.55%
Mg 279.077 IEC†          114.5      5203.2 ug/L         65.19      5203.2 ppb          65.19   1.25%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.06%
Mn 257.610†           439075.9      492.57 ug/L         0.421      492.57 ppb          0.421   0.09%
   QC value within limits for Mn 257.610  Recovery = 98.51%
Mo 202.031†             6791.8      497.49 ug/L         5.008      497.49 ppb          5.008   1.01%
   QC value within limits for Mo 202.031  Recovery = 99.50%
Na 589.592 Radial†     34213.6      9928.9 ug/L         65.16      9928.9 ppb          65.16   0.66%
   QC value within limits for Na 589.592 Radial  Recovery = 99.29%
Ni 231.604†            19660.8      499.43 ug/L         9.679      499.43 ppb          9.679   1.94%
   QC value within limits for Ni 231.604  Recovery = 99.89%
P 214.914†              4113.3      2401.5 ug/L         21.58      2401.5 ppb          21.58   0.90%
   QC value within limits for P 214.914  Recovery = 96.06%
Pb 220.353†             4219.4      524.35 ug/L         6.114      524.35 ppb          6.114   1.17%
   QC value within limits for Pb 220.353  Recovery = 104.87%
S 181.975 Axial†         688.4      1007.6 ug/L          8.26      1007.6 ppb           8.26   0.82%
   QC value within limits for S 181.975 Axial  Recovery = 100.76%
Sb 206.836†             1410.9      509.80 ug/L         3.330      509.80 ppb          3.330   0.65%
   QC value within limits for Sb 206.836  Recovery = 101.96%
Se 196.026†              746.7      509.54 ug/L         6.517      509.54 ppb          6.517   1.28%
   QC value within limits for Se 196.026  Recovery = 101.91%
Si 251.611†            76984.8      2463.5 ug/L         53.61      2463.5 ppb          53.61   2.18%
   QC value within limits for Si 251.611  Recovery = 98.54%
Sn 189.927†             2768.5      501.47 ug/L         5.711      501.47 ppb          5.711   1.14%
   QC value within limits for Sn 189.927  Recovery = 100.29%
Sr 421.552†            74803.1      495.75 ug/L         3.584      495.75 ppb          3.584   0.72%
   QC value within limits for Sr 421.552  Recovery = 99.15%
Ti 334.940†           316800.1      479.01 ug/L         9.460      479.01 ppb          9.460   1.97%
   QC value within limits for Ti 334.940  Recovery = 95.80%
Tl 190.801†             1539.2      497.16 ug/L         7.310      497.16 ppb          7.310   1.47%
   QC value within limits for Tl 190.801  Recovery = 99.43%
U 409.014†             17742.9      477.75 ug/L         6.939      477.75 ppb          6.939   1.45%
   QC value within limits for U 409.014  Recovery = 95.55%
V 292.402†             70512.9      496.16 ug/L         9.375      496.16 ppb          9.375   1.89%
   QC value within limits for V 292.402  Recovery = 99.23%
Zn 213.857†            49603.2      493.13 ug/L         9.680      493.13 ppb          9.680   1.96%
   QC value within limits for Zn 213.857  Recovery = 98.63%
SiO2†                  76447.6      5239.1 ug/L         43.53      5239.1 ppb          43.53   0.83%
   QC value within limits for SiO2  Recovery = 97.97%
All analyte(s) passed QC.
```

Sequence No.: 20
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/23/2010 16:16:50
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4059.7	4059.7	95.4	%			16:18:43
1	Y RADIAL	4484.4	4484.4	95.57	%			16:18:43
1	Al 396.153Radial†	-104.4	1.3	1.2056	ug/L	1.2056	ppb	16:18:43
1	Ca 317.933Radial†	19.3	4.8	9.4994	ug/L	9.4994	ppb	16:19:03
1	Fe 238.204 Radial†	10.4	0.7	9.0777	ug/L	9.0777	ppb	16:19:03
1	K 766.490 Radial†	2540.7	105.2	19.686	ug/L	19.686	ppb	16:18:43
1	Mg 279.077 IEC†	1.9	-0.8	-36.410	ug/L	-36.410	ppb	16:19:03
1	Na 589.592 Radial†	-704.1	2.7	0.7736	ug/L	0.7736	ppb	16:18:43
1	Sr 421.552†	74.1	40.9	0.2710	ug/L	0.2710	ppb	16:18:43
1	Sc 361.383	890757.6	890757.6	98.966	%			16:20:00
1	Y 371.029	753742.0	753742.0	98.859	%			16:20:00
1	Ag 328.068†	255.5	28.8	0.1372	ug/L	0.1372	ppb	16:20:00
1	As 188.979†	-13.5	6.9	3.1206	ug/L	3.1206	ppb	16:20:20
1	B 249.677†	-448.2	-79.9	-1.9074	ug/L	-1.9074	ppb	16:20:20
1	Ba 233.527†	-15.6	-6.6	-0.0524	ug/L	-0.0524	ppb	16:20:20
1	Be 313.107†	-3846.2	-33.1	-0.0128	ug/L	-0.0128	ppb	16:20:00
1	Cd 226.502†	-178.6	2.8	0.0307	ug/L	0.0307	ppb	16:20:20
1	Co 228.616†	-77.5	-16.4	-0.3413	ug/L	-0.3413	ppb	16:20:20
1	Cr 267.716†	71.7	6.4	0.0745	ug/L	0.0745	ppb	16:20:20
1	Cu 324.752†	6177.4	164.8	0.4985	ug/L	0.4985	ppb	16:20:00
1	Mn 257.610†	476.6	44.8	0.0526	ug/L	0.0526	ppb	16:20:20
1	Mo 202.031†	8.2	2.3	0.1661	ug/L	0.1661	ppb	16:20:20
1	Ni 231.604†	58.0	6.3	0.1606	ug/L	0.1606	ppb	16:20:20
1	P 214.914†	212.9	13.1	7.8471	ug/L	7.8471	ppb	16:20:20
1	Pb 220.353†	120.6	186.9	23.158	ug/L	23.158	ppb	16:20:20
1	S 181.975 Axial†	42.0	5.4	7.9821	ug/L	7.9821	ppb	16:20:20
1	Sb 206.836†	41.0	4.7	1.6637	ug/L	1.6637	ppb	16:20:20
1	Se 196.026†	-17.7	2.8	1.8644	ug/L	1.8644	ppb	16:20:20
1	Si 251.611†	595.9	68.0	2.1790	ug/L	2.1790	ppb	16:20:20
1	Sn 189.927†	16.2	6.0	1.0835	ug/L	1.0835	ppb	16:20:20
1	Ti 334.940†	-1401.8	-134.7	-0.1971	ug/L	-0.1971	ppb	16:20:00
1	Tl 190.801†	-34.0	-3.1	-1.0025	ug/L	-1.0025	ppb	16:20:20
1	U 409.014†	-2989.8	-204.8	-5.5339	ug/L	-5.5339	ppb	16:20:00
1	V 292.402†	-1493.3	-78.5	-0.5550	ug/L	-0.5550	ppb	16:20:00
1	Zn 213.857†	629.8	78.7	0.7870	ug/L	0.7870	ppb	16:20:20
1	SiO2†	576.5	31.1	2.1294	ug/L	2.1294	ppb	16:21:16
2	Sc Radial	3897.0	3897.0	91.6	%			16:19:08
2	Y RADIAL	4299.2	4299.2	91.63	%			16:19:08
2	Al 396.153Radial†	-125.6	-26.3	-23.855	ug/L	-23.855	ppb	16:19:08
2	Ca 317.933Radial†	25.2	12.0	23.956	ug/L	23.956	ppb	16:19:28
2	Fe 238.204 Radial†	12.1	3.0	38.864	ug/L	38.864	ppb	16:19:28
2	K 766.490 Radial†	2624.3	307.7	57.553	ug/L	57.553	ppb	16:19:08
2	Mg 279.077 IEC†	1.8	-0.8	-36.585	ug/L	-36.585	ppb	16:19:28
2	Na 589.592 Radial†	-703.1	-27.1	-7.8717	ug/L	-7.8717	ppb	16:19:08
2	Sr 421.552†	31.4	-2.5	-0.0167	ug/L	-0.0167	ppb	16:19:08
2	Sc 361.383	911609.3	911609.3	101.28	%			16:20:25
2	Y 371.029	771686.3	771686.3	101.21	%			16:20:25
2	Ag 328.068†	212.1	-20.0	-0.0823	ug/L	-0.0823	ppb	16:20:25
2	As 188.979†	-22.9	-2.0	-0.9107	ug/L	-0.9107	ppb	16:20:45
2	B 249.677†	-482.0	-102.9	-2.4617	ug/L	-2.4617	ppb	16:20:45
2	Ba 233.527†	2.9	12.0	0.0939	ug/L	0.0939	ppb	16:20:45
2	Be 313.107†	-3867.6	34.7	0.0125	ug/L	0.0125	ppb	16:20:25
2	Cd 226.502†	-177.9	7.7	0.0855	ug/L	0.0855	ppb	16:20:45
2	Co 228.616†	-73.1	-10.2	-0.2117	ug/L	-0.2117	ppb	16:20:45
2	Cr 267.716†	69.3	2.5	0.0306	ug/L	0.0306	ppb	16:20:45
2	Cu 324.752†	6144.6	-10.4	-0.0296	ug/L	-0.0296	ppb	16:20:25
2	Mn 257.610†	500.5	57.4	0.0696	ug/L	0.0696	ppb	16:20:45
2	Mo 202.031†	16.4	10.2	0.7464	ug/L	0.7464	ppb	16:20:45
2	Ni 231.604†	63.0	9.9	0.2518	ug/L	0.2518	ppb	16:20:45

2	P 214.914†	208.9	4.2	2.5135 ug/L	2.5135 ppb	16:20:45
2	Pb 220.353†	99.3	163.1	20.197 ug/L	20.197 ppb	16:20:45
2	S 181.975 Axial†	48.0	10.4	15.179 ug/L	15.179 ppb	16:20:45
2	Sb 206.836†	41.1	3.9	1.3724 ug/L	1.3724 ppb	16:20:45
2	Se 196.026†	-33.9	-12.8	-8.2863 ug/L	-8.2863 ppb	16:20:45
2	Si 251.611†	602.2	60.4	1.9297 ug/L	1.9297 ppb	16:20:45
2	Sn 189.927†	14.1	3.5	0.6413 ug/L	0.6413 ppb	16:20:45
2	Ti 334.940†	-1434.7	-134.7	-0.1979 ug/L	-0.1979 ppb	16:20:25
2	Tl 190.801†	-24.6	6.9	2.2184 ug/L	2.2184 ppb	16:20:45
2	U 409.014†	-2821.9	30.1	0.8078 ug/L	0.8078 ppb	16:20:25
2	V 292.402†	-1504.7	-55.2	-0.3770 ug/L	-0.3770 ppb	16:20:25
2	Zn 213.857†	633.4	67.7	0.6717 ug/L	0.6717 ppb	16:20:45
2	SiO2†	628.5	69.1	4.7257 ug/L	4.7257 ppb	16:21:21
3	Sc Radial	4155.6	4155.6	97.7 %		16:19:33
3	Y RADIAL	4616.6	4616.6	98.39 %		16:19:33
3	Al 396.153Radial†	-113.5	-5.4	-4.9417 ug/L	-4.9417 ppb	16:19:33
3	Ca 317.933Radial†	24.3	9.4	18.749 ug/L	18.749 ppb	16:19:54
3	Fe 238.204 Radial†	9.6	-0.3	-4.2419 ug/L	-4.2419 ppb	16:19:54
3	K 766.490 Radial†	2696.2	203.0	37.963 ug/L	37.963 ppb	16:19:33
3	Mg 279.077 IEC†	0.9	-1.8	-82.717 ug/L	-82.717 ppb	16:19:54
3	Na 589.592 Radial†	-652.3	72.7	21.089 ug/L	21.089 ppb	16:19:33
3	Sr 421.552†	61.1	25.8	0.1707 ug/L	0.1707 ppb	16:19:33
3	Sc 361.383	901597.6	901597.6	100.17 %		16:20:51
3	Y 371.029	763905.7	763905.7	100.19 %		16:20:51
3	Ag 328.068†	229.6	-0.1	-0.0039 ug/L	-0.0039 ppb	16:20:51
3	As 188.979†	-23.5	-3.0	-1.3440 ug/L	-1.3440 ppb	16:21:11
3	B 249.677†	-457.3	-83.6	-1.9945 ug/L	-1.9945 ppb	16:21:11
3	Ba 233.527†	-0.9	8.2	0.0628 ug/L	0.0628 ppb	16:21:11
3	Be 313.107†	-3913.0	-53.1	-0.0201 ug/L	-0.0201 ppb	16:20:51
3	Cd 226.502†	-190.3	-6.7	-0.0775 ug/L	-0.0775 ppb	16:21:11
3	Co 228.616†	-61.1	0.9	0.0196 ug/L	0.0196 ppb	16:21:11
3	Cr 267.716†	75.0	8.9	0.0985 ug/L	0.0985 ppb	16:21:11
3	Cu 324.752†	6102.8	15.2	0.0461 ug/L	0.0461 ppb	16:20:51
3	Mn 257.610†	514.4	76.7	0.0889 ug/L	0.0889 ppb	16:21:11
3	Mo 202.031†	9.0	2.9	0.2096 ug/L	0.2096 ppb	16:21:11
3	Ni 231.604†	59.0	6.5	0.1663 ug/L	0.1663 ppb	16:21:11
3	P 214.914†	212.1	9.7	5.8912 ug/L	5.8912 ppb	16:21:11
3	Pb 220.353†	100.9	165.7	20.534 ug/L	20.534 ppb	16:21:11
3	S 181.975 Axial†	37.8	0.7	1.0278 ug/L	1.0278 ppb	16:21:11
3	Sb 206.836†	39.6	2.9	0.9980 ug/L	0.9980 ppb	16:21:11
3	Se 196.026†	-31.6	-10.8	-7.1640 ug/L	-7.1640 ppb	16:21:11
3	Si 251.611†	587.8	52.6	1.6853 ug/L	1.6853 ppb	16:21:11
3	Sn 189.927†	7.6	-2.8	-0.5079 ug/L	-0.5079 ppb	16:21:11
3	Ti 334.940†	-1365.4	-81.3	-0.1132 ug/L	-0.1132 ppb	16:20:51
3	Tl 190.801†	-26.4	4.8	1.5477 ug/L	1.5477 ppb	16:21:11
3	U 409.014†	-2860.0	-38.8	-1.0494 ug/L	-1.0494 ppb	16:20:51
3	V 292.402†	-1524.6	-91.6	-0.6359 ug/L	-0.6359 ppb	16:20:51
3	Zn 213.857†	625.2	66.4	0.6661 ug/L	0.6661 ppb	16:21:11
3	SiO2†	578.8	26.3	1.8002 ug/L	1.8002 ppb	16:21:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	901321.5	100.14	%	1.159				1.16%
Sc Radial	4037.4	94.9	%	3.07				3.24%
Y 371.029	763111.3	100.09	%	1.180				1.18%
Y RADIAL	4466.7	95.20	%	3.397				3.57%
Ag 328.068†	2.9	0.0170	ug/L	0.11122	0.0170	ppb	0.11122	653.76%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-10.1	-9.1970	ug/L	13.06094	-9.1970	ppb	13.06094	142.01%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.6	0.2886	ug/L	2.46209	0.2886	ppb	2.46209	852.98%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-88.8	-2.1212	ug/L	0.29805	-2.1212	ppb	0.29805	14.05%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	4.5	0.0348	ug/L	0.07706	0.0348	ppb	0.07706	221.48%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-17.2	-0.0068	ug/L	0.01707	-0.0068	ppb	0.01707	251.09%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.7	17.401	ug/L	7.3218	17.401	ppb	7.3218	42.08%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                 1.3      0.0129 ug/L       0.08294      0.0129 ppb        0.08294 643.52%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                -8.6     -0.1778 ug/L       0.18281     -0.1778 ppb        0.18281 102.84%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 5.9      0.0679 ug/L       0.03445      0.0679 ppb        0.03445  50.75%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                56.6      0.1717 ug/L       0.28553      0.1717 ppb        0.28553 166.32%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          1.1      14.567 ug/L       22.0710      14.567 ppb        22.0710 151.52%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         205.3      38.401 ug/L       18.9369      38.401 ppb        18.9369  49.31%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -1.1     -51.904 ug/L       26.6851     -51.904 ppb        26.6851  51.41%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                59.6      0.0704 ug/L       0.01818      0.0704 ppb        0.01818  25.83%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 5.1      0.3740 ug/L       0.32320      0.3740 ppb        0.32320  86.42%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         16.1      4.6636 ug/L      14.86691      4.6636 ppb       14.86691 318.79%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 7.6      0.1929 ug/L       0.05107      0.1929 ppb        0.05107  26.48%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  9.0      5.4172 ug/L       2.69820      5.4172 ppb        2.69820  49.81%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               171.9      21.297 ug/L        1.6208      21.297 ppb         1.6208   7.61%
   QC value greater than the upper limit for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            5.5      8.0630 ug/L       7.07599      8.0630 ppb        7.07599  87.76%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 3.8      1.3447 ug/L       0.33370      1.3447 ppb        0.33370  24.82%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -6.9     -4.5286 ug/L       5.56490     -4.5286 ppb        5.56490 122.88%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                60.3      1.9313 ug/L       0.24689      1.9313 ppb        0.24689  12.78%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 2.2      0.4057 ug/L       0.82143      0.4057 ppb        0.82143 202.49%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                21.4      0.1416 ug/L       0.14605      0.1416 ppb        0.14605 103.11%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -116.9     -0.1694 ug/L       0.04867     -0.1694 ppb        0.04867  28.73%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 2.9      0.9212 ug/L       1.69939      0.9212 ppb        1.69939 184.47%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                -71.2     -1.9252 ug/L       3.26030     -1.9252 ppb        3.26030 169.35%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                -75.1     -0.5226 ug/L       0.13241     -0.5226 ppb        0.13241  25.34%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                70.9      0.7083 ug/L       0.06821      0.7083 ppb        0.06821   9.63%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      42.1      2.8851 ug/L       1.60248      2.8851 ppb        1.60248  55.54%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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Analysis Begun

Start Time: 2/23/2010 16:57:44 **Plasma On Time:** 2/22/2010 05:55:10
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\022310C.sif
Batch ID:
Results Data Set: 022310A
Results Library: C:\pe\Optima3\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location:** 7
Sample ID: CCV **Date Collected:** 2/23/2010 16:57:45
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	4106.2	4106.2	96.5	%			16:59:37
1	Y RADIAL	4490.6	4490.6	95.71	%			16:59:37
1	Al 396.153Radial†	5225.7	5524.0	4978.4	ug/L	4978.4	ppb	16:59:37
1	Ca 317.933Radial†	2453.7	2526.3	5026.4	ug/L	5026.4	ppb	16:59:57
1	Fe 238.204 Radial†	379.9	383.3	4953.7	ug/L	4953.7	ppb	16:59:57
1	K 766.490 Radial†	28306.7	26765.8	5001.2	ug/L	5001.2	ppb	16:59:37
1	Mg 279.077 IEC†	109.5	110.7	5031.2	ug/L	5031.2	ppb	16:59:57
1	Na 589.592 Radial†	32107.9	34000.5	9867.1	ug/L	9867.1	ppb	16:59:37
1	Sr 421.552†	71659.7	74194.6	491.71	ug/L	491.71	ppb	16:59:37
1	Sc 361.383	898824.3	898824.3	99.862	%			17:00:55
1	Y 371.029	748492.7	748492.7	98.170	%			17:00:55
1	Ag 328.068†	106888.8	106806.8	493.53	ug/L	493.53	ppb	17:01:00
1	As 188.979†	1077.8	1099.8	499.83	ug/L	499.83	ppb	17:01:20
1	B 249.677†	19370.8	19770.4	469.61	ug/L	469.61	ppb	17:01:00
1	Ba 233.527†	62886.6	62982.4	493.18	ug/L	493.18	ppb	17:01:00
1	Be 313.107†	1313541.7	1319205.5	492.71	ug/L	492.71	ppb	17:00:55
1	Cd 226.502†	42718.3	42960.5	498.55	ug/L	498.55	ppb	17:01:00
1	Co 228.616†	23615.5	23710.0	495.84	ug/L	495.84	ppb	17:01:00
1	Cr 267.716†	43805.9	43800.3	492.23	ug/L	492.23	ppb	17:01:00
1	Cu 324.752†	165723.7	159875.0	480.09	ug/L	480.09	ppb	17:01:00
1	Mn 257.610†	440367.7	440537.8	494.21	ug/L	494.21	ppb	17:00:55
1	Mo 202.031†	6860.1	6863.5	502.74	ug/L	502.74	ppb	17:01:20
1	Ni 231.604†	19621.0	19595.7	497.78	ug/L	497.78	ppb	17:01:00
1	P 214.914†	4340.7	4144.6	2421.6	ug/L	2421.6	ppb	17:01:20
1	Pb 220.353†	4104.0	4174.7	518.82	ug/L	518.82	ppb	17:01:20
1	S 181.975 Axial†	738.1	702.1	1027.6	ug/L	1027.6	ppb	17:01:20
1	Sb 206.836†	1455.9	1421.2	513.56	ug/L	513.56	ppb	17:01:20
1	Se 196.026†	732.5	754.2	514.15	ug/L	514.15	ppb	17:01:20
1	Si 251.611†	76758.0	76329.6	2442.5	ug/L	2442.5	ppb	17:01:00
1	Sn 189.927†	2799.3	2792.7	505.85	ug/L	505.85	ppb	17:01:20
1	Ti 334.940†	312841.4	314554.4	475.62	ug/L	475.62	ppb	17:01:00
1	Tl 190.801†	1526.6	1559.9	503.82	ug/L	503.82	ppb	17:01:20
1	U 409.014†	14700.5	17537.1	472.20	ug/L	472.20	ppb	17:01:00
1	V 292.402†	68596.8	70121.8	493.53	ug/L	493.53	ppb	17:01:00
1	Zn 213.857†	49795.4	49306.3	490.19	ug/L	490.19	ppb	17:01:00
1	SiO2†	76812.2	76366.5	5233.4	ug/L	5233.4	ppb	17:02:27
2	Sc Radial	3981.5	3981.5	93.6	%			17:00:02
2	Y RADIAL	4401.0	4401.0	93.80	%			17:00:02
2	Al 396.153Radial†	5090.1	5548.7	5000.7	ug/L	5000.7	ppb	17:00:02
2	Ca 317.933Radial†	2445.5	2597.2	5167.3	ug/L	5167.3	ppb	17:00:22
2	Fe 238.204 Radial†	376.5	392.1	5066.4	ug/L	5066.4	ppb	17:00:22
2	K 766.490 Radial†	27980.6	27335.8	5107.8	ug/L	5107.8	ppb	17:00:02
2	Mg 279.077 IEC†	112.7	117.7	5347.8	ug/L	5347.8	ppb	17:00:22
2	Na 589.592 Radial†	31326.9	34207.8	9927.2	ug/L	9927.2	ppb	17:00:02
2	Sr 421.552†	70050.6	74800.4	495.73	ug/L	495.73	ppb	17:00:02
2	Sc 361.383	892062.3	892062.3	99.111	%			17:01:26
2	Y 371.029	742174.7	742174.7	97.342	%			17:01:26

2	Ag 328.068†	107549.0	108284.2	500.36 ug/L	500.36 ppb	17:01:31
2	As 188.979†	1087.4	1117.7	507.95 ug/L	507.95 ppb	17:01:51
2	B 249.677†	19518.3	20066.3	476.64 ug/L	476.64 ppb	17:01:31
2	Ba 233.527†	63005.8	63580.1	497.86 ug/L	497.86 ppb	17:01:31
2	Be 313.107†	1301873.5	1317403.2	492.05 ug/L	492.05 ppb	17:01:26
2	Cd 226.502†	42819.8	43387.1	503.49 ug/L	503.49 ppb	17:01:31
2	Co 228.616†	23722.5	23997.2	501.84 ug/L	501.84 ppb	17:01:31
2	Cr 267.716†	44030.3	44359.2	498.51 ug/L	498.51 ppb	17:01:31
2	Cu 324.752†	166333.2	161747.9	485.72 ug/L	485.72 ppb	17:01:31
2	Mn 257.610†	437501.2	440988.3	494.71 ug/L	494.71 ppb	17:01:26
2	Mo 202.031†	6838.8	6894.1	504.98 ug/L	504.98 ppb	17:01:51
2	Ni 231.604†	19638.0	19761.8	502.00 ug/L	502.00 ppb	17:01:31
2	P 214.914†	4337.7	4174.6	2438.6 ug/L	2438.6 ppb	17:01:51
2	Pb 220.353†	4066.5	4168.0	517.99 ug/L	517.99 ppb	17:01:51
2	S 181.975 Axial†	727.3	696.8	1019.9 ug/L	1019.9 ppb	17:01:51
2	Sb 206.836†	1463.5	1440.0	520.17 ug/L	520.17 ppb	17:01:51
2	Se 196.026†	724.8	752.0	513.07 ug/L	513.07 ppb	17:01:51
2	Si 251.611†	77025.2	77181.9	2469.8 ug/L	2469.8 ppb	17:01:31
2	Sn 189.927†	2787.8	2802.4	507.60 ug/L	507.60 ppb	17:01:51
2	Ti 334.940†	314156.9	318256.4	481.21 ug/L	481.21 ppb	17:01:31
2	Tl 190.801†	1524.1	1569.0	506.74 ug/L	506.74 ppb	17:01:51
2	U 409.014†	14784.5	17733.4	477.48 ug/L	477.48 ppb	17:01:31
2	V 292.402†	68752.5	70799.6	498.25 ug/L	498.25 ppb	17:01:31
2	Zn 213.857†	49935.9	49826.1	495.35 ug/L	495.35 ppb	17:01:31
2	SiO2†	76296.8	76429.6	5237.6 ug/L	5237.6 ppb	17:02:32
3	Sc Radial	4008.9	4008.9	94.2 %		17:00:27
3	Y RADIAL	4385.8	4385.8	93.47 %		17:00:27
3	Al 396.153Radial†	5104.2	5526.4	4980.8 ug/L	4980.8 ppb	17:00:27
3	Ca 317.933Radial†	2453.0	2587.2	5147.6 ug/L	5147.6 ppb	17:00:47
3	Fe 238.204 Radial†	380.2	393.2	5080.9 ug/L	5080.9 ppb	17:00:47
3	K 766.490 Radial†	28068.6	27224.5	5087.0 ug/L	5087.0 ppb	17:00:27
3	Mg 279.077 IEC†	111.0	115.0	5228.7 ug/L	5228.7 ppb	17:00:47
3	Na 589.592 Radial†	31534.8	34199.3	9924.8 ug/L	9924.8 ppb	17:00:27
3	Sr 421.552†	70670.7	74946.0	496.69 ug/L	496.69 ppb	17:00:27
3	Sc 361.383	896894.6	896894.6	99.648 %		17:01:57
3	Y 371.029	747047.1	747047.1	97.981 %		17:01:57
3	Ag 328.068†	106815.7	106963.7	494.28 ug/L	494.28 ppb	17:02:02
3	As 188.979†	1083.7	1108.0	503.59 ug/L	503.59 ppb	17:02:22
3	B 249.677†	19389.2	19830.7	471.03 ug/L	471.03 ppb	17:02:02
3	Ba 233.527†	62762.9	62993.8	493.27 ug/L	493.27 ppb	17:02:02
3	Be 313.107†	1310115.6	1318597.3	492.49 ug/L	492.49 ppb	17:01:57
3	Cd 226.502†	42625.9	42959.8	498.53 ug/L	498.53 ppb	17:02:02
3	Co 228.616†	23542.1	23687.2	495.35 ug/L	495.35 ppb	17:02:02
3	Cr 267.716†	43785.1	43873.8	493.06 ug/L	493.06 ppb	17:02:02
3	Cu 324.752†	165456.7	159964.1	480.36 ug/L	480.36 ppb	17:02:02
3	Mn 257.610†	440344.8	441463.6	495.25 ug/L	495.25 ppb	17:01:57
3	Mo 202.031†	6797.4	6815.3	499.22 ug/L	499.22 ppb	17:02:22
3	Ni 231.604†	19508.3	19524.9	495.98 ug/L	495.98 ppb	17:02:02
3	P 214.914†	4311.3	4124.5	2409.2 ug/L	2409.2 ppb	17:02:22
3	Pb 220.353†	4064.7	4144.1	515.01 ug/L	515.01 ppb	17:02:22
3	S 181.975 Axial†	732.6	698.2	1021.9 ug/L	1021.9 ppb	17:02:22
3	Sb 206.836†	1457.3	1425.7	515.05 ug/L	515.05 ppb	17:02:22
3	Se 196.026†	743.2	766.5	522.69 ug/L	522.69 ppb	17:02:22
3	Si 251.611†	76553.8	76290.2	2441.2 ug/L	2441.2 ppb	17:02:02
3	Sn 189.927†	2787.2	2786.6	504.75 ug/L	504.75 ppb	17:02:22
3	Ti 334.940†	312598.3	314984.5	476.27 ug/L	476.27 ppb	17:02:02
3	Tl 190.801†	1530.7	1567.4	506.21 ug/L	506.21 ppb	17:02:22
3	U 409.014†	14879.2	17748.0	477.89 ug/L	477.89 ppb	17:02:02
3	V 292.402†	68349.0	70020.9	492.77 ug/L	492.77 ppb	17:02:02
3	Zn 213.857†	49583.2	49200.7	489.12 ug/L	489.12 ppb	17:02:02
3	SiO2†	77728.0	77451.1	5308.0 ug/L	5308.0 ppb	17:02:37

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	895927.0	99.540	%	0.3870				0.39%
Sc Radial	4032.2	94.8	%	1.54				1.63%
Y 371.029	745904.8	97.831	%	0.4342				0.44%
Y RADIAL	4425.8	94.33	%	1.207				1.28%
Ag 328.068†	107351.6	496.06	ug/L	3.747	496.06	ppb	3.747	0.76%

```
   QC value within limits for Ag 328.068  Recovery = 99.21%
Al 396.153Radial†       5533.0      4986.6 ug/L        12.20      4986.6 ppb          12.20   0.24%
   QC value within limits for Al 396.153Radial  Recovery = 99.73%
As 188.979†             1108.5      503.79 ug/L        4.064      503.79 ppb          4.064   0.81%
   QC value within limits for As 188.979  Recovery = 100.76%
B 249.677†             19889.1      472.43 ug/L        3.716      472.43 ppb          3.716   0.79%
   QC value within limits for B 249.677  Recovery = 94.49%
Ba 233.527†            63185.4      494.77 ug/L        2.677      494.77 ppb          2.677   0.54%
   QC value within limits for Ba 233.527  Recovery = 98.95%
Be 313.107†          1318402.0      492.42 ug/L        0.335      492.42 ppb          0.335   0.07%
   QC value within limits for Be 313.107  Recovery = 98.48%
Ca 317.933Radial†       2570.2      5113.7 ug/L        76.31      5113.7 ppb          76.31   1.49%
   QC value within limits for Ca 317.933Radial  Recovery = 102.27%
Cd 226.502†            43102.5      500.19 ug/L        2.861      500.19 ppb          2.861   0.57%
   QC value within limits for Cd 226.502  Recovery = 100.04%
Co 228.616†            23798.1      497.68 ug/L        3.611      497.68 ppb          3.611   0.73%
   QC value within limits for Co 228.616  Recovery = 99.54%
Cr 267.716†            44011.1      494.60 ug/L        3.413      494.60 ppb          3.413   0.69%
   QC value within limits for Cr 267.716  Recovery = 98.92%
Cu 324.752†           160529.0      482.05 ug/L        3.173      482.05 ppb          3.173   0.66%
   QC value within limits for Cu 324.752  Recovery = 96.41%
Fe 238.204 Radial†       389.6      5033.6 ug/L        69.65      5033.6 ppb          69.65   1.38%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.67%
K 766.490 Radial†      27108.7      5065.3 ug/L        56.49      5065.3 ppb          56.49   1.12%
   QC value within limits for K 766.490 Radial  Recovery = 101.31%
Mg 279.077 IEC†          114.5      5202.6 ug/L       159.89      5202.6 ppb         159.89   3.07%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.05%
Mn 257.610†           440996.6      494.72 ug/L        0.521      494.72 ppb          0.521   0.11%
   QC value within limits for Mn 257.610  Recovery = 98.94%
Mo 202.031†             6857.6      502.31 ug/L        2.906      502.31 ppb          2.906   0.58%
   QC value within limits for Mo 202.031  Recovery = 100.46%
Na 589.592 Radial†     34135.8      9906.4 ug/L        34.04      9906.4 ppb          34.04   0.34%
   QC value within limits for Na 589.592 Radial  Recovery = 99.06%
Ni 231.604†            19627.5      498.59 ug/L        3.088      498.59 ppb          3.088   0.62%
   QC value within limits for Ni 231.604  Recovery = 99.72%
P 214.914†              4147.9      2423.1 ug/L        14.75      2423.1 ppb          14.75   0.61%
   QC value within limits for P 214.914  Recovery = 96.92%
Pb 220.353†             4162.3      517.28 ug/L        2.003      517.28 ppb          2.003   0.39%
   QC value within limits for Pb 220.353  Recovery = 103.46%
S 181.975 Axial†         699.0      1023.1 ug/L         3.97      1023.1 ppb           3.97   0.39%
   QC value within limits for S 181.975 Axial  Recovery = 102.31%
Sb 206.836†             1429.0      516.26 ug/L        3.470      516.26 ppb          3.470   0.67%
   QC value within limits for Sb 206.836  Recovery = 103.25%
Se 196.026†              757.6      516.64 ug/L        5.268      516.64 ppb          5.268   1.02%
   QC value within limits for Se 196.026  Recovery = 103.33%
Si 251.611†            76600.6      2451.2 ug/L        16.13      2451.2 ppb          16.13   0.66%
   QC value within limits for Si 251.611  Recovery = 98.05%
Sn 189.927†             2793.9      506.07 ug/L        1.437      506.07 ppb          1.437   0.28%
   QC value within limits for Sn 189.927  Recovery = 101.21%
Sr 421.552†            74647.0      494.71 ug/L        2.641      494.71 ppb          2.641   0.53%
   QC value within limits for Sr 421.552  Recovery = 98.94%
Ti 334.940†           315931.7      477.70 ug/L        3.056      477.70 ppb          3.056   0.64%
   QC value within limits for Ti 334.940  Recovery = 95.54%
Tl 190.801†             1565.4      505.59 ug/L        1.556      505.59 ppb          1.556   0.31%
   QC value within limits for Tl 190.801  Recovery = 101.12%
U 409.014†             17672.8      475.86 ug/L        3.171      475.86 ppb          3.171   0.67%
   QC value within limits for U 409.014  Recovery = 95.17%
V 292.402†             70314.1      494.85 ug/L        2.972      494.85 ppb          2.972   0.60%
   QC value within limits for V 292.402  Recovery = 98.97%
Zn 213.857†            49444.4      491.55 ug/L        3.333      491.55 ppb          3.333   0.68%
   QC value within limits for Zn 213.857  Recovery = 98.31%
SiO2†                  76749.1      5259.7 ug/L        41.90      5259.7 ppb          41.90   0.80%
   QC value within limits for SiO2  Recovery = 98.36%
All analyte(s) passed QC.
```

Sequence No.: 2
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/23/2010 17:04:47
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	3968.0	3968.0	93.3	%			17:07:00
1	Y RADIAL	4383.8	4383.8	93.43	%			17:06:40
1	Al 396.153Radial†	-90.7	13.5	12.207	ug/L	12.207	ppb	17:06:40
1	Ca 317.933Radial†	21.5	7.6	15.131	ug/L	15.131	ppb	17:07:00
1	Fe 238.204 Radial†	11.2	1.8	23.468	ug/L	23.468	ppb	17:07:00
1	K 766.490 Radial†	2690.7	327.5	61.273	ug/L	61.273	ppb	17:06:40
1	Mg 279.077 IEC†	1.1	-1.6	-73.139	ug/L	-73.139	ppb	17:07:00
1	Na 589.592 Radial†	-716.7	-27.9	-8.1095	ug/L	-8.1095	ppb	17:06:40
1	Sr 421.552†	52.8	19.8	0.1310	ug/L	0.1310	ppb	17:06:40
1	Sc 361.383	889032.5	889032.5	98.774	%			17:07:57
1	Y 371.029	752324.2	752324.2	98.673	%			17:07:57
1	Ag 328.068†	306.3	80.8	0.3812	ug/L	0.3812	ppb	17:07:57
1	As 188.979†	-25.9	-5.7	-2.5512	ug/L	-2.5512	ppb	17:08:17
1	B 249.677†	-454.3	-87.0	-2.0792	ug/L	-2.0792	ppb	17:08:17
1	Ba 233.527†	-10.3	-1.3	-0.0108	ug/L	-0.0108	ppb	17:08:17
1	Be 313.107†	-3789.5	16.8	0.0058	ug/L	0.0058	ppb	17:07:57
1	Cd 226.502†	-194.8	-13.9	-0.1656	ug/L	-0.1656	ppb	17:08:17
1	Co 228.616†	-71.9	-10.9	-0.2264	ug/L	-0.2264	ppb	17:08:17
1	Cr 267.716†	51.5	-13.9	-0.1517	ug/L	-0.1517	ppb	17:08:17
1	Cu 324.752†	6040.1	37.9	0.1188	ug/L	0.1188	ppb	17:07:57
1	Mn 257.610†	488.8	58.0	0.0704	ug/L	0.0704	ppb	17:08:17
1	Mo 202.031†	8.5	2.6	0.1891	ug/L	0.1891	ppb	17:08:17
1	Ni 231.604†	49.2	-2.5	-0.0624	ug/L	-0.0624	ppb	17:08:17
1	P 214.914†	196.9	-2.7	-1.6827	ug/L	-1.6827	ppb	17:08:17
1	Pb 220.353†	26.8	92.2	11.420	ug/L	11.420	ppb	17:08:17
1	S 181.975 Axial†	31.4	-5.3	-7.7184	ug/L	-7.7184	ppb	17:08:17
1	Sb 206.836†	33.6	-2.6	-0.8864	ug/L	-0.8864	ppb	17:08:17
1	Se 196.026†	-27.2	-6.8	-4.4301	ug/L	-4.4301	ppb	17:08:17
1	Si 251.611†	540.9	13.5	0.4305	ug/L	0.4305	ppb	17:08:17
1	Sn 189.927†	22.5	12.3	2.2321	ug/L	2.2321	ppb	17:08:17
1	Ti 334.940†	-1407.3	-143.0	-0.2052	ug/L	-0.2052	ppb	17:07:57
1	Tl 190.801†	-31.5	-0.7	-0.2103	ug/L	-0.2103	ppb	17:08:17
1	U 409.014†	-3025.8	-247.1	-6.6789	ug/L	-6.6789	ppb	17:07:57
1	V 292.402†	-1495.9	-84.0	-0.5978	ug/L	-0.5978	ppb	17:07:57
1	Zn 213.857†	646.2	96.6	0.9656	ug/L	0.9656	ppb	17:08:17
1	SiO2†	555.8	11.2	0.7638	ug/L	0.7638	ppb	17:09:13
2	Sc Radial	3990.8	3990.8	93.8	%			17:07:25
2	Y RADIAL	4522.7	4522.7	96.39	%			17:07:05
2	Al 396.153Radial†	-104.7	-0.8	-0.7963	ug/L	-0.7963	ppb	17:07:05
2	Ca 317.933Radial†	19.9	5.7	11.437	ug/L	11.437	ppb	17:07:25
2	Fe 238.204 Radial†	11.6	2.2	28.406	ug/L	28.406	ppb	17:07:25
2	K 766.490 Radial†	2633.6	250.2	46.810	ug/L	46.810	ppb	17:07:05
2	Mg 279.077 IEC†	4.6	2.2	99.490	ug/L	99.490	ppb	17:07:25
2	Na 589.592 Radial†	-678.5	17.2	4.9936	ug/L	4.9936	ppb	17:07:05
2	Sr 421.552†	25.8	-9.2	-0.0614	ug/L	-0.0614	ppb	17:07:05
2	Sc 361.383	887062.8	887062.8	98.556	%			17:08:22
2	Y 371.029	750654.2	750654.2	98.454	%			17:08:22
2	Ag 328.068†	205.4	-20.9	-0.0865	ug/L	-0.0865	ppb	17:08:22
2	As 188.979†	-26.3	-6.1	-2.7523	ug/L	-2.7523	ppb	17:08:42
2	B 249.677†	-494.3	-128.6	-3.0723	ug/L	-3.0723	ppb	17:08:42
2	Ba 233.527†	9.5	18.8	0.1460	ug/L	0.1460	ppb	17:08:42
2	Be 313.107†	-3885.0	-88.7	-0.0337	ug/L	-0.0337	ppb	17:08:22
2	Cd 226.502†	-165.5	15.4	0.1751	ug/L	0.1751	ppb	17:08:42
2	Co 228.616†	-65.7	-4.7	-0.0964	ug/L	-0.0964	ppb	17:08:42
2	Cr 267.716†	68.3	3.3	0.0408	ug/L	0.0408	ppb	17:08:42
2	Cu 324.752†	6073.7	85.6	0.2610	ug/L	0.2610	ppb	17:08:22
2	Mn 257.610†	491.1	61.4	0.0676	ug/L	0.0676	ppb	17:08:42
2	Mo 202.031†	21.3	15.6	1.1425	ug/L	1.1425	ppb	17:08:42
2	Ni 231.604†	54.4	2.9	0.0740	ug/L	0.0740	ppb	17:08:42

2	P 214.914†	210.0	11.0	6.5997	ug/L	6.5997 ppb	17:08:42
2	Pb 220.353†	22.9	88.3	10.940	ug/L	10.940 ppb	17:08:42
2	S 181.975 Axial†	45.8	9.5	13.883	ug/L	13.883 ppb	17:08:42
2	Sb 206.836†	34.2	-2.0	-0.6531	ug/L	-0.6531 ppb	17:08:42
2	Se 196.026†	-23.3	-2.9	-1.8326	ug/L	-1.8326 ppb	17:08:42
2	Si 251.611†	550.7	24.6	0.7761	ug/L	0.7761 ppb	17:08:42
2	Sn 189.927†	12.5	2.2	0.3991	ug/L	0.3991 ppb	17:08:42
2	Ti 334.940†	-1440.9	-180.2	-0.2772	ug/L	-0.2772 ppb	17:08:22
2	Tl 190.801†	-33.0	-2.3	-0.7381	ug/L	-0.7381 ppb	17:08:42
2	U 409.014†	-2935.6	-162.4	-4.3915	ug/L	-4.3915 ppb	17:08:22
2	V 292.402†	-1504.3	-95.9	-0.6600	ug/L	-0.6600 ppb	17:08:22
2	Zn 213.857†	627.6	79.1	0.7886	ug/L	0.7886 ppb	17:08:42
2	SiO2†	529.4	-14.4	-1.0187	ug/L	-1.0187 ppb	17:09:18
3	Sc Radial	3967.1	3967.1	93.3	%		17:07:50
3	Y RADIAL	4436.9	4436.9	94.56	%		17:07:30
3	Al 396.153Radial†	-108.3	-5.3	-4.8405	ug/L	-4.8405 ppb	17:07:30
3	Ca 317.933Radial†	24.5	10.8	21.447	ug/L	21.447 ppb	17:07:50
3	Fe 238.204 Radial†	11.0	1.6	21.162	ug/L	21.162 ppb	17:07:50
3	K 766.490 Radial†	2617.7	249.9	46.745	ug/L	46.745 ppb	17:07:30
3	Mg 279.077 IEC†	3.6	1.1	49.192	ug/L	49.192 ppb	17:07:50
3	Na 589.592 Radial†	-718.7	-30.3	-8.7800	ug/L	-8.7800 ppb	17:07:30
3	Sr 421.552†	12.8	-23.1	-0.1531	ug/L	-0.1531 ppb	17:07:30
3	Sc 361.383	895237.9	895237.9	99.464	%		17:08:48
3	Y 371.029	758264.4	758264.4	99.452	%		17:08:48
3	Ag 328.068†	186.1	-42.3	-0.1856	ug/L	-0.1856 ppb	17:08:48
3	As 188.979†	-16.0	4.5	2.0216	ug/L	2.0216 ppb	17:09:08
3	B 249.677†	-444.6	-74.1	-1.7703	ug/L	-1.7703 ppb	17:09:08
3	Ba 233.527†	8.9	18.1	0.1422	ug/L	0.1422 ppb	17:09:08
3	Be 313.107†	-3904.1	-71.9	-0.0274	ug/L	-0.0274 ppb	17:08:48
3	Cd 226.502†	-180.6	1.8	0.0182	ug/L	0.0182 ppb	17:09:08
3	Co 228.616†	-71.4	-9.8	-0.2053	ug/L	-0.2053 ppb	17:09:08
3	Cr 267.716†	81.8	16.3	0.1855	ug/L	0.1855 ppb	17:09:08
3	Cu 324.752†	6102.5	58.3	0.1778	ug/L	0.1778 ppb	17:08:48
3	Mn 257.610†	481.4	47.2	0.0529	ug/L	0.0529 ppb	17:09:08
3	Mo 202.031†	8.1	2.1	0.1569	ug/L	0.1569 ppb	17:09:08
3	Ni 231.604†	65.6	13.7	0.3471	ug/L	0.3471 ppb	17:09:08
3	P 214.914†	210.8	9.9	5.9851	ug/L	5.9851 ppb	17:09:08
3	Pb 220.353†	39.1	104.3	12.920	ug/L	12.920 ppb	17:09:08
3	S 181.975 Axial†	39.8	3.0	4.3755	ug/L	4.3755 ppb	17:09:08
3	Sb 206.836†	44.5	8.1	2.8238	ug/L	2.8238 ppb	17:09:08
3	Se 196.026†	-17.7	2.9	2.0100	ug/L	2.0100 ppb	17:09:08
3	Si 251.611†	558.7	27.6	0.8819	ug/L	0.8819 ppb	17:09:08
3	Sn 189.927†	14.1	3.7	0.6776	ug/L	0.6776 ppb	17:09:08
3	Ti 334.940†	-1446.2	-172.2	-0.2604	ug/L	-0.2604 ppb	17:08:48
3	Tl 190.801†	-35.4	-4.4	-1.4194	ug/L	-1.4194 ppb	17:09:08
3	U 409.014†	-2906.2	-105.6	-2.8572	ug/L	-2.8572 ppb	17:08:48
3	V 292.402†	-1423.7	-1.0	-0.0119	ug/L	-0.0119 ppb	17:08:48
3	Zn 213.857†	616.2	61.8	0.6145	ug/L	0.6145 ppb	17:09:08
3	SiO2†	545.0	-3.5	-0.2462	ug/L	-0.2462 ppb	17:09:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	890444.4	98.931	%	0.4740				0.48%
Sc Radial	3975.3	93.5	%	0.32				0.34%
Y 371.029	753747.6	98.860	%	0.5246				0.53%
Y RADIAL	4447.8	94.79	%	1.493				1.58%
Ag 328.068†	5.9	0.0364	ug/L	0.30274	0.0364	ppb	0.30274	832.18%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	2.4	2.1900	ug/L	8.90738	2.1900	ppb	8.90738	406.73%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.4	-1.0940	ug/L	2.70000	-1.0940	ppb	2.70000	246.81%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-96.5	-2.3073	ug/L	0.68030	-2.3073	ppb	0.68030	29.49%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	11.9	0.0925	ug/L	0.08943	0.0925	ppb	0.08943	96.71%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-47.9	-0.0184	ug/L	0.02119	-0.0184	ppb	0.02119	114.99%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.0	16.005	ug/L	5.0618	16.005	ppb	5.0618	31.63%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                1.1      0.0093 ug/L       0.17053      0.0093 ppb        0.17053 >999.9%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               -8.5     -0.1760 ug/L       0.06978     -0.1760 ppb        0.06978  39.64%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                1.9      0.0249 ug/L       0.16917      0.0249 ppb        0.16917 680.35%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               60.6      0.1859 ug/L       0.07147      0.1859 ppb        0.07147  38.45%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.9     24.345 ug/L        3.7005     24.345 ppb         3.7005  15.20%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        275.9     51.609 ug/L        8.3692     51.609 ppb         8.3692  16.22%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            0.6     25.181 ug/L       88.7841     25.181 ppb        88.7841 352.58%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               55.5      0.0636 ug/L       0.00936      0.0636 ppb        0.00936  14.71%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                6.8      0.4962 ug/L       0.55996      0.4962 ppb        0.55996 112.85%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -13.7     -3.9653 ug/L       7.76590     -3.9653 ppb        7.76590 195.85%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                4.7      0.1196 ug/L       0.20854      0.1196 ppb        0.20854 174.39%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 6.1      3.6340 ug/L       4.61470      3.6340 ppb        4.61470 126.99%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               94.9     11.760 ug/L        1.0326     11.760 ppb         1.0326   8.78%
   QC value greater than the upper limit for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           2.4      3.5132 ug/L      10.82628      3.5132 ppb       10.82628 308.16%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                1.2      0.4281 ug/L       2.07802      0.4281 ppb        2.07802 485.44%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -2.3     -1.4176 ug/L       3.24007     -1.4176 ppb        3.24007 228.57%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               21.9      0.6962 ug/L       0.23608      0.6962 ppb        0.23608  33.91%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                6.1      1.1029 ug/L       0.98774      1.1029 ppb        0.98774  89.56%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -4.2     -0.0278 ug/L       0.14499     -0.0278 ppb        0.14499 521.38%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -165.1     -0.2476 ug/L       0.03767     -0.2476 ppb        0.03767  15.21%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -2.5     -0.7893 ug/L       0.60619     -0.7893 ppb        0.60619  76.80%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              -171.7     -4.6425 ug/L       1.92316     -4.6425 ppb        1.92316  41.42%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -60.3     -0.4232 ug/L       0.35758     -0.4232 ppb        0.35758  84.49%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               79.2      0.7896 ug/L       0.17558      0.7896 ppb        0.17558  22.24%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     -2.2     -0.1670 ug/L       0.89390     -0.1670 ppb        0.89390 535.15%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

==========

Analysis Begun

Start Time: 2/23/2010 17:25:38 **Plasma On Time: 2/22/2010 05:55:10**
Logged In Analyst: Optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\022310C.sif
Batch ID:
Results Data Set: 022310A
Results Library: C:\pe\Optima3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 2/23/2010 17:25:39**
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.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3991.4	3991.4	93.8	%			17:27:32
1	Y RADIAL	4358.2	4358.2	92.88	%			17:27:32
1	Al 396.153Radial†	5151.5	5600.7	5047.9	ug/L	5047.9	ppb	17:27:32
1	Ca 317.933Radial†	2489.4	2637.4	5247.4	ug/L	5247.4	ppb	17:27:52
1	Fe 238.204 Radial†	384.9	400.0	5168.6	ug/L	5168.6	ppb	17:27:52
1	K 766.490 Radial†	28009.5	27292.6	5099.6	ug/L	5099.6	ppb	17:27:32
1	Mg 279.077 IEC†	115.3	120.1	5459.1	ug/L	5459.1	ppb	17:27:52
1	Na 589.592 Radial†	32214.8	35071.3	10178	ug/L	10178	ppb	17:27:32
1	Sr 421.552†	71131.1	75766.7	502.13	ug/L	502.13	ppb	17:27:32
1	Sc 361.383	888136.2	888136.2	98.675	%			17:28:49
1	Y 371.029	739501.5	739501.5	96.991	%			17:28:49
1	Ag 328.068†	106829.5	108034.8	499.25	ug/L	499.25	ppb	17:28:54
1	As 188.979†	1071.9	1106.9	503.10	ug/L	503.10	ppb	17:29:14
1	B 249.677†	19349.3	19982.1	474.61	ug/L	474.61	ppb	17:28:54
1	Ba 233.527†	62716.1	63567.4	497.77	ug/L	497.77	ppb	17:28:54
1	Be 313.107†	1302809.7	1324158.6	494.57	ug/L	494.57	ppb	17:28:49
1	Cd 226.502†	42610.9	43366.5	503.24	ug/L	503.24	ppb	17:28:54
1	Co 228.616†	23572.8	23951.3	500.87	ug/L	500.87	ppb	17:28:54
1	Cr 267.716†	43775.7	44297.6	497.83	ug/L	497.83	ppb	17:28:54
1	Cu 324.752†	165839.6	161989.5	486.45	ug/L	486.45	ppb	17:28:54
1	Mn 257.610†	437072.3	442505.0	496.42	ug/L	496.42	ppb	17:28:49
1	Mo 202.031†	6787.9	6873.0	503.45	ug/L	503.45	ppb	17:29:14
1	Ni 231.604†	19542.0	19752.1	501.76	ug/L	501.76	ppb	17:28:54
1	P 214.914†	4334.5	4190.6	2448.1	ug/L	2448.1	ppb	17:29:14
1	Pb 220.353†	4034.2	4153.4	516.18	ug/L	516.18	ppb	17:29:14
1	S 181.975 Axial†	726.1	698.8	1022.7	ug/L	1022.7	ppb	17:29:14
1	Sb 206.836†	1445.8	1428.5	516.14	ug/L	516.14	ppb	17:29:14
1	Se 196.026†	722.9	753.3	514.25	ug/L	514.25	ppb	17:29:14
1	Si 251.611†	76672.2	77167.7	2469.3	ug/L	2469.3	ppb	17:28:54
1	Sn 189.927†	2776.5	2803.4	507.80	ug/L	507.80	ppb	17:29:14
1	Ti 334.940†	312510.8	317989.4	480.80	ug/L	480.80	ppb	17:28:54
1	Tl 190.801†	1520.0	1571.6	507.58	ug/L	507.58	ppb	17:29:14
1	U 409.014†	14791.5	17806.4	479.44	ug/L	479.44	ppb	17:28:54
1	V 292.402†	68465.3	70815.1	498.33	ug/L	498.33	ppb	17:28:54
1	Zn 213.857†	49646.6	49755.6	494.63	ug/L	494.63	ppb	17:28:54
1	SiO2†	76750.6	77229.8	5292.6	ug/L	5292.6	ppb	17:30:22
2	Sc Radial	3982.8	3982.8	93.6	%			17:27:57
2	Y RADIAL	4375.7	4375.7	93.26	%			17:27:57
2	Al 396.153Radial†	5134.8	5594.6	5042.5	ug/L	5042.5	ppb	17:27:57
2	Ca 317.933Radial†	2442.9	2593.4	5159.9	ug/L	5159.9	ppb	17:28:17
2	Fe 238.204 Radial†	379.1	394.7	5099.7	ug/L	5099.7	ppb	17:28:17
2	K 766.490 Radial†	28009.4	27356.5	5111.6	ug/L	5111.6	ppb	17:27:57
2	Mg 279.077 IEC†	113.5	118.4	5382.4	ug/L	5382.4	ppb	17:28:17
2	Na 589.592 Radial†	32016.9	34933.4	10138	ug/L	10138	ppb	17:27:57
2	Sr 421.552†	70935.6	75720.3	501.83	ug/L	501.83	ppb	17:27:57
2	Sc 361.383	891162.3	891162.3	99.011	%			17:29:20
2	Y 371.029	741011.3	741011.3	97.189	%			17:29:20

2	Ag 328.068†	109321.2	110183.8	509.11 ug/L	509.11 ppb	17:29:25
2	As 188.979†	1080.5	1111.9	505.43 ug/L	505.43 ppb	17:29:45
2	B 249.677†	20039.1	20612.2	489.64 ug/L	489.64 ppb	17:29:25
2	Ba 233.527†	64018.3	64666.9	506.37 ug/L	506.37 ppb	17:29:25
2	Be 313.107†	1303773.8	1320649.0	493.28 ug/L	493.28 ppb	17:29:20
2	Cd 226.502†	43399.9	44016.7	510.81 ug/L	510.81 ppb	17:29:25
2	Co 228.616†	24054.8	24357.0	509.33 ug/L	509.33 ppb	17:29:25
2	Cr 267.716†	44534.1	44912.9	504.73 ug/L	504.73 ppb	17:29:25
2	Cu 324.752†	170515.5	166141.5	498.90 ug/L	498.90 ppb	17:29:25
2	Mn 257.610†	439631.6	443585.8	497.62 ug/L	497.62 ppb	17:29:20
2	Mo 202.031†	6761.4	6822.8	499.77 ug/L	499.77 ppb	17:29:45
2	Ni 231.604†	19910.1	20056.6	509.49 ug/L	509.49 ppb	17:29:25
2	P 214.914†	4323.7	4164.9	2430.0 ug/L	2430.0 ppb	17:29:45
2	Pb 220.353†	4012.5	4117.6	511.74 ug/L	511.74 ppb	17:29:45
2	S 181.975 Axial†	723.8	694.0	1015.7 ug/L	1015.7 ppb	17:29:45
2	Sb 206.836†	1446.8	1424.5	514.60 ug/L	514.60 ppb	17:29:45
2	Se 196.026†	728.9	756.9	516.37 ug/L	516.37 ppb	17:29:45
2	Si 251.611†	78535.3	78785.6	2521.3 ug/L	2521.3 ppb	17:29:25
2	Sn 189.927†	2757.3	2774.4	502.54 ug/L	502.54 ppb	17:29:45
2	Ti 334.940†	319592.7	324066.6	489.98 ug/L	489.98 ppb	17:29:25
2	Tl 190.801†	1507.3	1553.6	501.82 ug/L	501.82 ppb	17:29:45
2	U 409.014†	15349.7	18319.3	493.29 ug/L	493.29 ppb	17:29:25
2	V 292.402†	69783.8	71911.2	505.91 ug/L	505.91 ppb	17:29:25
2	Zn 213.857†	50722.9	50671.8	503.77 ug/L	503.77 ppb	17:29:25
2	SiO2†	76406.1	76617.7	5250.7 ug/L	5250.7 ppb	17:30:27
3	Sc Radial	4077.8	4077.8	95.9 %		17:28:22
3	Y RADIAL	4474.1	4474.1	95.36 %		17:28:22
3	Al 396.153Radial†	5261.7	5599.2	5046.4 ug/L	5046.4 ppb	17:28:22
3	Ca 317.933Radial†	2480.0	2571.4	5116.1 ug/L	5116.1 ppb	17:28:42
3	Fe 238.204 Radial†	387.1	393.6	5085.6 ug/L	5085.6 ppb	17:28:42
3	K 766.490 Radial†	28765.8	27448.7	5128.8 ug/L	5128.8 ppb	17:28:22
3	Mg 279.077 IEC†	110.4	112.4	5108.6 ug/L	5108.6 ppb	17:28:42
3	Na 589.592 Radial†	32900.2	35058.4	10174 ug/L	10174 ppb	17:28:22
3	Sr 421.552†	72960.1	76067.6	504.13 ug/L	504.13 ppb	17:28:22
3	Sc 361.383	882659.4	882659.4	98.066 %		17:29:51
3	Y 371.029	735061.8	735061.8	96.409 %		17:29:51
3	Ag 328.068†	108265.3	110170.7	509.06 ug/L	509.06 ppb	17:29:56
3	As 188.979†	1074.7	1116.4	507.47 ug/L	507.47 ppb	17:30:16
3	B 249.677†	19821.0	20584.8	488.99 ug/L	488.99 ppb	17:29:56
3	Ba 233.527†	63361.4	64619.8	506.00 ug/L	506.00 ppb	17:29:56
3	Be 313.107†	1290713.5	1320016.2	493.05 ug/L	493.05 ppb	17:29:51
3	Cd 226.502†	43080.9	44113.6	511.93 ug/L	511.93 ppb	17:29:56
3	Co 228.616†	23806.4	24337.7	508.94 ug/L	508.94 ppb	17:29:56
3	Cr 267.716†	44303.5	45111.1	506.96 ug/L	506.96 ppb	17:29:56
3	Cu 324.752†	168019.4	165255.2	496.24 ug/L	496.24 ppb	17:29:56
3	Mn 257.610†	433903.7	442022.3	495.88 ug/L	495.88 ppb	17:29:51
3	Mo 202.031†	6786.4	6914.1	506.45 ug/L	506.45 ppb	17:30:16
3	Ni 231.604†	19710.0	20046.4	509.23 ug/L	509.23 ppb	17:29:56
3	P 214.914†	4291.7	4174.3	2436.3 ug/L	2436.3 ppb	17:30:16
3	Pb 220.353†	4031.6	4176.1	519.00 ug/L	519.00 ppb	17:30:16
3	S 181.975 Axial†	732.5	709.9	1039.1 ug/L	1039.1 ppb	17:30:16
3	Sb 206.836†	1449.5	1441.4	520.73 ug/L	520.73 ppb	17:30:16
3	Se 196.026†	727.5	762.6	520.12 ug/L	520.12 ppb	17:30:16
3	Si 251.611†	77582.9	78578.5	2514.6 ug/L	2514.6 ppb	17:29:56
3	Sn 189.927†	2769.7	2813.9	509.69 ug/L	509.69 ppb	17:30:16
3	Ti 334.940†	316415.9	323936.6	489.80 ug/L	489.80 ppb	17:29:56
3	Tl 190.801†	1519.9	1581.1	510.64 ug/L	510.64 ppb	17:30:16
3	U 409.014†	14943.0	18053.9	486.12 ug/L	486.12 ppb	17:29:56
3	V 292.402†	69342.7	72140.4	507.58 ug/L	507.58 ppb	17:29:56
3	Zn 213.857†	50181.5	50613.3	503.19 ug/L	503.19 ppb	17:29:56
3	SiO2†	78336.3	79329.3	5436.8 ug/L	5436.8 ppb	17:30:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	887319.3	98.584	%	0.4788				0.49%
Sc Radial	4017.3	94.4	%	1.24				1.31%
Y 371.029	738524.8	96.863	%	0.4056				0.42%
Y RADIAL	4402.7	93.83	%	1.332				1.42%
Ag 328.068†	109463.1	505.81	ug/L	5.683	505.81	ppb	5.683	1.12%

```
   QC value within limits for Ag 328.068  Recovery = 101.16%
Al 396.153Radial†       5598.2      5045.6 ug/L          2.77      5045.6 ppb          2.77   0.05%
   QC value within limits for Al 396.153Radial  Recovery = 100.91%
As 188.979†             1111.7      505.34 ug/L         2.185      505.34 ppb         2.185   0.43%
   QC value within limits for As 188.979  Recovery = 101.07%
B 249.677†             20393.0      484.41 ug/L         8.492      484.41 ppb         8.492   1.75%
   QC value within limits for B 249.677  Recovery = 96.88%
Ba 233.527†            64284.7      503.38 ug/L         4.865      503.38 ppb         4.865   0.97%
   QC value within limits for Ba 233.527  Recovery = 100.68%
Be 313.107†          1321608.0      493.63 ug/L         0.820      493.63 ppb         0.820   0.17%
   QC value within limits for Be 313.107  Recovery = 98.73%
Ca 317.933Radial†       2600.8      5174.5 ug/L         66.85      5174.5 ppb         66.85   1.29%
   QC value within limits for Ca 317.933Radial  Recovery = 103.49%
Cd 226.502†            43832.3      508.66 ug/L         4.724      508.66 ppb         4.724   0.93%
   QC value within limits for Cd 226.502  Recovery = 101.73%
Co 228.616†            24215.3      506.38 ug/L         4.774      506.38 ppb         4.774   0.94%
   QC value within limits for Co 228.616  Recovery = 101.28%
Cr 267.716†            44773.9      503.17 ug/L         4.758      503.17 ppb         4.758   0.95%
   QC value within limits for Cr 267.716  Recovery = 100.63%
Cu 324.752†           164462.1      493.86 ug/L         6.561      493.86 ppb         6.561   1.33%
   QC value within limits for Cu 324.752  Recovery = 98.77%
Fe 238.204 Radial†       396.1      5118.0 ug/L         44.41      5118.0 ppb         44.41   0.87%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.36%
K 766.490 Radial†      27365.9      5113.3 ug/L         14.70      5113.3 ppb         14.70   0.29%
   QC value within limits for K 766.490 Radial  Recovery = 102.27%
Mg 279.077 IEC†          117.0      5316.7 ug/L        184.27      5316.7 ppb        184.27   3.47%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.33%
Mn 257.610†           442704.4      496.64 ug/L         0.893      496.64 ppb         0.893   0.18%
   QC value within limits for Mn 257.610  Recovery = 99.33%
Mo 202.031†             6870.0      503.22 ug/L         3.346      503.22 ppb         3.346   0.66%
   QC value within limits for Mo 202.031  Recovery = 100.64%
Na 589.592 Radial†     35021.0       10163 ug/L          22.1       10163 ppb          22.1   0.22%
   QC value within limits for Na 589.592 Radial  Recovery = 101.63%
Ni 231.604†            19951.7      506.82 ug/L         4.392      506.82 ppb         4.392   0.87%
   QC value within limits for Ni 231.604  Recovery = 101.36%
P 214.914†              4176.6      2438.1 ug/L         9.19      2438.1 ppb          9.19   0.38%
   QC value within limits for P 214.914  Recovery = 97.53%
Pb 220.353†             4149.1      515.64 ug/L         3.662      515.64 ppb         3.662   0.71%
   QC value within limits for Pb 220.353  Recovery = 103.13%
S 181.975 Axial†         700.9      1025.9 ug/L         11.99      1025.9 ppb         11.99   1.17%
   QC value within limits for S 181.975 Axial  Recovery = 102.59%
Sb 206.836†             1431.5      517.15 ug/L         3.189      517.15 ppb         3.189   0.62%
   QC value within limits for Sb 206.836  Recovery = 103.43%
Se 196.026†              757.6      516.91 ug/L         2.970      516.91 ppb         2.970   0.57%
   QC value within limits for Se 196.026  Recovery = 103.38%
Si 251.611†            78177.3      2501.7 ug/L         28.25      2501.7 ppb         28.25   1.13%
   QC value within limits for Si 251.611  Recovery = 100.07%
Sn 189.927†             2797.2      506.67 ug/L         3.701      506.67 ppb         3.701   0.73%
   QC value within limits for Sn 189.927  Recovery = 101.33%
Sr 421.552†            75851.5      502.70 ug/L         1.250      502.70 ppb         1.250   0.25%
   QC value within limits for Sr 421.552  Recovery = 100.54%
Ti 334.940†           321997.5      486.86 ug/L         5.248      486.86 ppb         5.248   1.08%
   QC value within limits for Ti 334.940  Recovery = 97.37%
Tl 190.801†             1568.7      506.68 ug/L         4.475      506.68 ppb         4.475   0.88%
   QC value within limits for Tl 190.801  Recovery = 101.34%
U 409.014†             18059.9      486.29 ug/L         6.927      486.29 ppb         6.927   1.42%
   QC value within limits for U 409.014  Recovery = 97.26%
V 292.402†             71622.2      503.94 ug/L         4.929      503.94 ppb         4.929   0.98%
   QC value within limits for V 292.402  Recovery = 100.79%
Zn 213.857†            50346.9      500.53 ug/L         5.116      500.53 ppb         5.116   1.02%
   QC value within limits for Zn 213.857  Recovery = 100.11%
SiO2†                  77725.6      5326.7 ug/L         97.63      5326.7 ppb         97.63   1.83%
   QC value within limits for SiO2  Recovery = 99.61%
All analyte(s) passed QC.
```

Sequence No.: 2
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/23/2010 17:32:43
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3935.7	3935.7	92.5	%			17:34:56
1	Y RADIAL	4539.1	4539.1	96.74	%			17:34:36
1	Al 396.153Radial†	-94.2	8.9	8.0821	ug/L	8.0821	ppb	17:34:36
1	Ca 317.933Radial†	15.2	0.9	1.8312	ug/L	1.8312	ppb	17:34:56
1	Fe 238.204 Radial†	11.8	2.6	33.149	ug/L	33.149	ppb	17:34:56
1	K 766.490 Radial†	2675.3	334.6	62.602	ug/L	62.602	ppb	17:34:36
1	Mg 279.077 IEC†	1.8	-0.9	-38.709	ug/L	-38.709	ppb	17:34:56
1	Na 589.592 Radial†	-720.8	-38.6	-11.215	ug/L	-11.215	ppb	17:34:36
1	Sr 421.552†	35.6	1.6	0.0109	ug/L	0.0109	ppb	17:34:36
1	Sc 361.383	915744.6	915744.6	101.74	%			17:35:52
1	Y 371.029	774721.8	774721.8	101.61	%			17:35:52
1	Ag 328.068†	274.3	40.2	0.1958	ug/L	0.1958	ppb	17:35:57
1	As 188.979†	-19.5	1.3	0.6129	ug/L	0.6129	ppb	17:36:17
1	B 249.677†	-426.7	-46.4	-1.1131	ug/L	-1.1131	ppb	17:36:17
1	Ba 233.527†	5.8	14.8	0.1169	ug/L	0.1169	ppb	17:36:17
1	Be 313.107†	-3870.5	49.0	0.0180	ug/L	0.0180	ppb	17:35:57
1	Cd 226.502†	-173.8	12.5	0.1419	ug/L	0.1419	ppb	17:36:17
1	Co 228.616†	-70.6	-7.5	-0.1558	ug/L	-0.1558	ppb	17:36:17
1	Cr 267.716†	88.5	21.0	0.2385	ug/L	0.2385	ppb	17:36:17
1	Cu 324.752†	6161.6	-21.0	-0.0613	ug/L	-0.0613	ppb	17:35:57
1	Mn 257.610†	439.8	-4.6	-0.0003	ug/L	-0.0003	ppb	17:36:17
1	Mo 202.031†	12.0	5.7	0.4194	ug/L	0.4194	ppb	17:36:17
1	Ni 231.604†	63.9	10.5	0.2678	ug/L	0.2678	ppb	17:36:17
1	P 214.914†	210.7	5.0	3.0468	ug/L	3.0468	ppb	17:36:17
1	Pb 220.353†	12.0	76.8	9.5129	ug/L	9.5129	ppb	17:36:17
1	S 181.975 Axial†	38.1	0.4	0.5467	ug/L	0.5467	ppb	17:36:17
1	Sb 206.836†	44.2	6.8	2.3767	ug/L	2.3767	ppb	17:36:17
1	Se 196.026†	-26.7	-5.5	-3.5186	ug/L	-3.5186	ppb	17:36:17
1	Si 251.611†	526.0	-17.2	-0.5569	ug/L	-0.5569	ppb	17:36:17
1	Sn 189.927†	13.5	2.8	0.5035	ug/L	0.5035	ppb	17:36:17
1	Ti 334.940†	-1380.7	-75.2	-0.1104	ug/L	-0.1104	ppb	17:35:57
1	Tl 190.801†	-43.2	-11.3	-3.6260	ug/L	-3.6260	ppb	17:36:17
1	U 409.014†	-2873.8	-8.3	-0.2290	ug/L	-0.2290	ppb	17:35:52
1	V 292.402†	-1432.9	22.1	0.1534	ug/L	0.1534	ppb	17:35:57
1	Zn 213.857†	570.5	3.1	0.0242	ug/L	0.0242	ppb	17:36:17
1	SiO2†	557.6	-3.4	-0.2458	ug/L	-0.2458	ppb	17:37:23
2	Sc Radial	3951.6	3951.6	92.9	%			17:35:21
2	Y RADIAL	4479.2	4479.2	95.46	%			17:35:01
2	Al 396.153Radial†	-127.7	-26.7	-24.210	ug/L	-24.210	ppb	17:35:01
2	Ca 317.933Radial†	19.8	5.8	11.622	ug/L	11.622	ppb	17:35:21
2	Fe 238.204 Radial†	12.3	3.1	39.980	ug/L	39.980	ppb	17:35:21
2	K 766.490 Radial†	2570.1	209.7	39.244	ug/L	39.244	ppb	17:35:01
2	Mg 279.077 IEC†	0.9	-1.8	-82.747	ug/L	-82.747	ppb	17:35:21
2	Na 589.592 Radial†	-745.3	-61.9	-17.967	ug/L	-17.967	ppb	17:35:01
2	Sr 421.552†	51.3	18.4	0.1219	ug/L	0.1219	ppb	17:35:01
2	Sc 361.383	901866.4	901866.4	100.20	%			17:36:23
2	Y 371.029	762131.7	762131.7	99.959	%			17:36:23
2	Ag 328.068†	275.8	46.0	0.2204	ug/L	0.2204	ppb	17:36:28
2	As 188.979†	-25.1	-4.5	-2.0223	ug/L	-2.0223	ppb	17:36:48
2	B 249.677†	-427.4	-53.6	-1.2851	ug/L	-1.2851	ppb	17:36:48
2	Ba 233.527†	-10.8	-1.7	-0.0127	ug/L	-0.0127	ppb	17:36:48
2	Be 313.107†	-3927.6	-66.4	-0.0253	ug/L	-0.0253	ppb	17:36:28
2	Cd 226.502†	-189.3	-5.6	-0.0684	ug/L	-0.0684	ppb	17:36:48
2	Co 228.616†	-67.3	-5.3	-0.1104	ug/L	-0.1104	ppb	17:36:48
2	Cr 267.716†	86.4	20.2	0.2295	ug/L	0.2295	ppb	17:36:48
2	Cu 324.752†	6093.6	4.3	0.0142	ug/L	0.0142	ppb	17:36:28
2	Mn 257.610†	453.2	15.4	0.0246	ug/L	0.0246	ppb	17:36:48
2	Mo 202.031†	7.3	1.3	0.0951	ug/L	0.0951	ppb	17:36:48
2	Ni 231.604†	52.0	-0.4	-0.0101	ug/L	-0.0101	ppb	17:36:48

2	P 214.914†	207.4	4.9	2.9332 ug/L	2.9332 ppb	17:36:48
2	Pb 220.353†	-8.6	56.5	6.9865 ug/L	6.9865 ppb	17:36:48
2	S 181.975 Axial†	39.2	2.1	3.1220 ug/L	3.1220 ppb	17:36:48
2	Sb 206.836†	44.6	7.8	2.7257 ug/L	2.7257 ppb	17:36:48
2	Se 196.026†	-25.0	-4.3	-2.7002 ug/L	-2.7002 ppb	17:36:48
2	Si 251.611†	546.7	11.4	0.3660 ug/L	0.3660 ppb	17:36:48
2	Sn 189.927†	10.3	-0.2	-0.0279 ug/L	-0.0279 ppb	17:36:48
2	Ti 334.940†	-1451.7	-167.0	-0.2451 ug/L	-0.2451 ppb	17:36:28
2	Tl 190.801†	-33.8	-2.6	-0.8202 ug/L	-0.8202 ppb	17:36:48
2	U 409.014†	-2757.7	64.1	1.7275 ug/L	1.7275 ppb	17:36:23
2	V 292.402†	-1481.4	-48.0	-0.3361 ug/L	-0.3361 ppb	17:36:28
2	Zn 213.857†	575.7	16.8	0.1631 ug/L	0.1631 ppb	17:36:48
2	SiO2†	574.1	21.4	1.4690 ug/L	1.4690 ppb	17:37:28
3	Sc Radial	3967.2	3967.2	93.3 %		17:35:46
3	Y RADIAL	4492.5	4492.5	95.75 %		17:35:26
3	Al 396.153Radial†	-117.2	-14.9	-13.490 ug/L	-13.490 ppb	17:35:26
3	Ca 317.933Radial†	17.7	3.5	6.9224 ug/L	6.9224 ppb	17:35:46
3	Fe 238.204 Radial†	12.3	3.0	38.084 ug/L	38.084 ppb	17:35:46
3	K 766.490 Radial†	2720.1	359.7	67.293 ug/L	67.293 ppb	17:35:26
3	Mg 279.077 IEC†	2.6	0.1	2.7160 ug/L	2.7160 ppb	17:35:46
3	Na 589.592 Radial†	-712.4	-23.4	-6.8014 ug/L	-6.8014 ppb	17:35:26
3	Sr 421.552†	48.1	14.8	0.0982 ug/L	0.0982 ppb	17:35:26
3	Sc 361.383	905862.8	905862.8	100.64 %		17:36:53
3	Y 371.029	765400.7	765400.7	100.39 %		17:36:53
3	Ag 328.068†	257.1	26.2	0.1373 ug/L	0.1373 ppb	17:36:58
3	As 188.979†	-16.9	3.8	1.7067 ug/L	1.7067 ppb	17:37:18
3	B 249.677†	-476.4	-100.4	-2.4029 ug/L	-2.4029 ppb	17:37:18
3	Ba 233.527†	-12.4	-3.2	-0.0233 ug/L	-0.0233 ppb	17:37:18
3	Be 313.107†	-3839.6	38.3	0.0141 ug/L	0.0141 ppb	17:36:58
3	Cd 226.502†	-192.1	-7.6	-0.0932 ug/L	-0.0932 ppb	17:37:18
3	Co 228.616†	-64.3	-2.0	-0.0406 ug/L	-0.0406 ppb	17:37:18
3	Cr 267.716†	58.8	-7.6	-0.0788 ug/L	-0.0788 ppb	17:37:18
3	Cu 324.752†	6041.9	-73.9	-0.2164 ug/L	-0.2164 ppb	17:36:58
3	Mn 257.610†	463.2	23.4	0.0299 ug/L	0.0299 ppb	17:37:18
3	Mo 202.031†	17.1	10.9	0.8004 ug/L	0.8004 ppb	17:37:18
3	Ni 231.604†	54.6	2.0	0.0503 ug/L	0.0503 ppb	17:37:18
3	P 214.914†	214.0	10.6	6.4522 ug/L	6.4522 ppb	17:37:18
3	Pb 220.353†	13.8	78.7	9.7517 ug/L	9.7517 ppb	17:37:18
3	S 181.975 Axial†	43.4	6.0	8.8555 ug/L	8.8555 ppb	17:37:18
3	Sb 206.836†	39.7	2.8	1.0056 ug/L	1.0056 ppb	17:37:18
3	Se 196.026†	-21.7	-0.8	-0.4206 ug/L	-0.4206 ppb	17:37:18
3	Si 251.611†	547.9	10.3	0.3195 ug/L	0.3195 ppb	17:37:18
3	Sn 189.927†	15.9	5.4	0.9792 ug/L	0.9792 ppb	17:37:18
3	Ti 334.940†	-1326.6	-36.3	-0.0514 ug/L	-0.0514 ppb	17:36:58
3	Tl 190.801†	-40.5	-9.0	-2.9021 ug/L	-2.9021 ppb	17:37:18
3	U 409.014†	-3068.7	-232.8	-6.2953 ug/L	-6.2953 ppb	17:36:53
3	V 292.402†	-1427.3	12.2	0.0788 ug/L	0.0788 ppb	17:36:58
3	Zn 213.857†	583.2	21.7	0.2125 ug/L	0.2125 ppb	17:37:18
3	SiO2†	554.2	-0.9	-0.0806 ug/L	-0.0806 ppb	17:37:33

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	907824.6	100.86	%	0.794				0.79%
Sc Radial	3951.5	92.9	%	0.37				0.40%
Y 371.029	767418.0	100.65	%	0.857				0.85%
Y RADIAL	4503.6	95.98	%	0.671				0.70%
Ag 328.068†	37.5	0.1845	ug/L	0.04268	0.1845	ppb	0.04268	23.13%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-10.9	-9.8727	ug/L	16.44711	-9.8727	ppb	16.44711	166.59%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.2	0.0991	ug/L	1.91687	0.0991	ppb	1.91687	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-66.8	-1.6004	ug/L	0.70031	-1.6004	ppb	0.70031	43.76%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	3.3	0.0270	ug/L	0.07807	0.0270	ppb	0.07807	289.64%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	6.9	0.0023	ug/L	0.02398	0.0023	ppb	0.02398	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.4	6.7920	ug/L	4.89682	6.7920	ppb	4.89682	72.10%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                -0.2     -0.0065 ug/L       0.12920     -0.0065 ppb        0.12920 >999.9%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                -4.9     -0.1023 ug/L       0.05806     -0.1023 ppb        0.05806  56.78%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                11.2      0.1297 ug/L       0.18067      0.1297 ppb        0.18067 139.28%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -30.2     -0.0878 ug/L       0.11756     -0.0878 ppb        0.11756 133.85%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          2.9      37.071 ug/L        3.5268      37.071 ppb         3.5268   9.51%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         301.3      56.379 ug/L       15.0242      56.379 ppb        15.0242  26.65%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -0.9     -39.580 ug/L       42.7384     -39.580 ppb        42.7384 107.98%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                11.4      0.0181 ug/L       0.01609      0.0181 ppb        0.01609  89.08%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 5.9      0.4383 ug/L       0.35301      0.4383 ppb        0.35301  80.54%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -41.3     -11.995 ug/L        5.6236     -11.995 ppb         5.6236  46.88%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 4.0      0.1026 ug/L       0.14615      0.1026 ppb        0.14615 142.40%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  6.8      4.1441 ug/L       1.99971      4.1441 ppb        1.99971  48.25%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                70.7      8.7504 ug/L       1.53222      8.7504 ppb        1.53222  17.51%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            2.8      4.1747 ug/L       4.25329      4.1747 ppb        4.25329 101.88%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 5.8      2.0360 ug/L       0.90925      2.0360 ppb        0.90925  44.66%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -3.5     -2.2131 ug/L       1.60538     -2.2131 ppb        1.60538  72.54%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                 1.5      0.0429 ug/L       0.51993      0.0429 ppb        0.51993 >999.9%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 2.7      0.4849 ug/L       0.50380      0.4849 ppb        0.50380 103.89%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                11.6      0.0770 ug/L       0.05848      0.0770 ppb        0.05848  75.96%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -92.8     -0.1356 ug/L       0.09926     -0.1356 ppb        0.09926  73.19%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -7.6     -2.4494 ug/L       1.45665     -2.4494 ppb        1.45665  59.47%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                -59.0     -1.5989 ug/L       4.18313     -1.5989 ppb        4.18313 261.62%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                 -4.6     -0.0346 ug/L       0.26370     -0.0346 ppb        0.26370 761.50%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                13.9      0.1333 ug/L       0.09763      0.1333 ppb        0.09763  73.26%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                       5.7      0.3809 ug/L       0.94599      0.3809 ppb        0.94599 248.37%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 4
Sample ID: 245806004|948071|100
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 2/23/2010 17:46:49
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806004|948071|100

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3999.4	3999.4	94.0	%			17:48:41
1	Y RADIAL	4411.1	4411.1	94.01	%			17:48:41
1	Al 396.153Radial†	540.9	686.1	621.30	ug/L	621.30	ppb	17:48:41
1	Ca 317.933Radial†	143.0	136.6	271.77	ug/L	271.77	ppb	17:49:02
1	Fe 238.204 Radial†	105.9	102.4	1319.7	ug/L	1319.7	ppb	17:49:02
1	K 766.490 Radial†	3015.8	650.7	121.62	ug/L	121.62	ppb	17:48:41
1	Mg 279.077 IEC†	5.1	2.7	122.39	ug/L	122.39	ppb	17:49:02
1	Na 589.592 Radial†	-584.6	118.6	34.415	ug/L	34.415	ppb	17:48:41
1	Sr 421.552†	184.8	159.7	1.0566	ug/L	1.0566	ppb	17:48:41
1	Sc 361.383	887103.1	887103.1	98.560	%			17:49:58
1	Y 371.029	750509.9	750509.9	98.435	%			17:49:58
1	Ag 328.068†	258.6	33.1	0.4913	ug/L	0.4913	ppb	17:49:58
1	As 188.979†	8.6	29.3	13.779	ug/L	13.779	ppb	17:50:18
1	B 249.677†	-571.3	-206.7	-5.1496	ug/L	-5.1496	ppb	17:50:18
1	Ba 233.527†	2217.3	2258.8	17.687	ug/L	17.687	ppb	17:50:18
1	Be 313.107†	1060.2	4929.0	1.9114	ug/L	1.9114	ppb	17:49:58
1	Cd 226.502†	-174.4	6.3	-0.0447	ug/L	-0.0447	ppb	17:50:18
1	Co 228.616†	-40.9	20.4	0.3486	ug/L	0.3486	ppb	17:50:18
1	Cr 267.716†	247.1	184.7	2.1659	ug/L	2.1659	ppb	17:50:18
1	Cu 324.752†	44880.9	39459.5	118.52	ug/L	118.52	ppb	17:49:58
1	Mn 257.610†	24824.2	24750.1	27.875	ug/L	27.875	ppb	17:49:58
1	Mo 202.031†	15.1	9.2	0.7813	ug/L	0.7813	ppb	17:50:18
1	Ni 231.604†	147.7	97.6	2.4798	ug/L	2.4798	ppb	17:50:18
1	P 214.914†	309.1	111.6	43.280	ug/L	43.280	ppb	17:50:18
1	Pb 220.353†	100078.4	101605.5	12590	ug/L	12590	ppb	17:49:58
1	S 181.975 Axial†	40.0	3.5	5.0238	ug/L	5.0238	ppb	17:50:18
1	Sb 206.836†	192.2	158.3	55.078	ug/L	55.078	ppb	17:50:18
1	Se 196.026†	-30.4	-10.1	-2.5633	ug/L	-2.5633	ppb	17:50:18
1	Si 251.611†	15915.7	15614.1	500.89	ug/L	500.89	ppb	17:49:58
1	Sn 189.927†	14.0	3.8	0.6633	ug/L	0.6633	ppb	17:50:18
1	Ti 334.940†	20121.1	21696.9	32.804	ug/L	32.804	ppb	17:49:58
1	Tl 190.801†	-29.7	1.1	0.7563	ug/L	0.7563	ppb	17:50:18
1	U 409.014†	282.5	3102.9	83.688	ug/L	83.688	ppb	17:49:58
1	V 292.402†	-1207.6	205.2	1.3694	ug/L	1.3694	ppb	17:49:58
1	Zn 213.857†	2977.5	2463.3	24.344	ug/L	24.344	ppb	17:50:18
1	SiO2†	15946.6	15628.1	1073.8	ug/L	1073.8	ppb	17:51:15
2	Sc Radial	4029.2	4029.2	94.7	%			17:49:07
2	Y RADIAL	4430.8	4430.8	94.43	%			17:49:07
2	Al 396.153Radial†	522.2	662.1	599.60	ug/L	599.60	ppb	17:49:07
2	Ca 317.933Radial†	142.5	134.9	268.45	ug/L	268.45	ppb	17:49:27
2	Fe 238.204 Radial†	107.2	103.0	1326.6	ug/L	1326.6	ppb	17:49:27
2	K 766.490 Radial†	2877.1	480.5	89.793	ug/L	89.793	ppb	17:49:07
2	Mg 279.077 IEC†	3.9	1.4	60.714	ug/L	60.714	ppb	17:49:27
2	Na 589.592 Radial†	-660.4	43.2	12.526	ug/L	12.526	ppb	17:49:07
2	Sr 421.552†	206.0	180.7	1.1957	ug/L	1.1957	ppb	17:49:07
2	Sc 361.383	895212.0	895212.0	99.461	%			17:50:24
2	Y 371.029	756854.1	756854.1	99.267	%			17:50:24
2	Ag 328.068†	194.4	-33.9	0.1881	ug/L	0.1881	ppb	17:50:24
2	As 188.979†	16.2	36.8	17.185	ug/L	17.185	ppb	17:50:44
2	B 249.677†	-587.8	-218.0	-5.4199	ug/L	-5.4199	ppb	17:50:44
2	Ba 233.527†	2208.7	2229.8	17.461	ug/L	17.461	ppb	17:50:44
2	Be 313.107†	1021.2	4880.0	1.8928	ug/L	1.8928	ppb	17:50:24
2	Cd 226.502†	-166.6	15.8	0.0639	ug/L	0.0639	ppb	17:50:44
2	Co 228.616†	-39.2	22.5	0.3903	ug/L	0.3903	ppb	17:50:44
2	Cr 267.716†	261.7	197.1	2.3066	ug/L	2.3066	ppb	17:50:44
2	Cu 324.752†	45258.3	39426.4	118.42	ug/L	118.42	ppb	17:50:24
2	Mn 257.610†	24979.8	24678.3	27.797	ug/L	27.797	ppb	17:50:24
2	Mo 202.031†	6.4	0.3	0.1295	ug/L	0.1295	ppb	17:50:44
2	Ni 231.604†	139.3	87.7	2.2294	ug/L	2.2294	ppb	17:50:44

2	P 214.914†	320.5	120.1	48.488 ug/L	48.488 ppb	17:50:44
2	Pb 220.353†	100789.6	101400.8	12564 ug/L	12564 ppb	17:50:24
2	S 181.975 Axial†	40.6	3.8	5.4975 ug/L	5.4975 ppb	17:50:44
2	Sb 206.836†	178.3	142.5	49.580 ug/L	49.580 ppb	17:50:44
2	Se 196.026†	-26.2	-5.7	0.3953 ug/L	0.3953 ppb	17:50:44
2	Si 251.611†	16022.0	15574.7	499.63 ug/L	499.63 ppb	17:50:24
2	Sn 189.927†	20.6	10.3	1.8378 ug/L	1.8378 ppb	17:50:44
2	Ti 334.940†	20192.1	21583.3	32.637 ug/L	32.637 ppb	17:50:24
2	Tl 190.801†	-27.7	3.4	1.4853 ug/L	1.4853 ppb	17:50:44
2	U 409.014†	212.0	3029.4	81.699 ug/L	81.699 ppb	17:50:24
2	V 292.402†	-1189.9	234.1	1.5547 ug/L	1.5547 ppb	17:50:24
2	Zn 213.857†	2968.6	2427.0	23.980 ug/L	23.980 ppb	17:50:44
2	SiO2†	15795.5	15329.6	1053.3 ug/L	1053.3 ppb	17:51:20
3	Sc Radial	4112.4	4112.4	96.7 %		17:49:32
3	Y RADIAL	4529.9	4529.9	96.54 %		17:49:32
3	Al 396.153Radial†	533.9	663.0	600.43 ug/L	600.43 ppb	17:49:32
3	Ca 317.933Radial†	142.8	132.2	263.06 ug/L	263.06 ppb	17:49:52
3	Fe 238.204 Radial†	107.3	100.8	1298.9 ug/L	1298.9 ppb	17:49:52
3	K 766.490 Radial†	2995.0	541.0	101.11 ug/L	101.11 ppb	17:49:32
3	Mg 279.077 IEC†	6.7	4.2	188.91 ug/L	188.91 ppb	17:49:52
3	Na 589.592 Radial†	-658.2	59.6	17.286 ug/L	17.286 ppb	17:49:32
3	Sr 421.552†	161.8	130.6	0.8633 ug/L	0.8633 ppb	17:49:32
3	Sc 361.383	888085.6	888085.6	98.669 %		17:50:49
3	Y 371.029	751603.2	751603.2	98.578 %		17:50:49
3	Ag 328.068†	174.9	-52.0	0.0990 ug/L	0.0990 ppb	17:50:49
3	As 188.979†	5.9	26.5	12.524 ug/L	12.524 ppb	17:51:09
3	B 249.677†	-580.9	-215.8	-5.3630 ug/L	-5.3630 ppb	17:51:09
3	Ba 233.527†	2184.6	2223.2	17.409 ug/L	17.409 ppb	17:51:09
3	Be 313.107†	973.9	4840.3	1.8776 ug/L	1.8776 ppb	17:50:49
3	Cd 226.502†	-172.9	8.1	-0.0229 ug/L	-0.0229 ppb	17:51:09
3	Co 228.616†	-41.6	19.8	0.3345 ug/L	0.3345 ppb	17:51:09
3	Cr 267.716†	245.7	183.0	2.1473 ug/L	2.1473 ppb	17:51:09
3	Cu 324.752†	44483.4	39006.2	117.16 ug/L	117.16 ppb	17:50:49
3	Mn 257.610†	24655.5	24551.2	27.647 ug/L	27.647 ppb	17:50:49
3	Mo 202.031†	8.1	2.1	0.2572 ug/L	0.2572 ppb	17:51:09
3	Ni 231.604†	133.1	82.5	2.0979 ug/L	2.0979 ppb	17:51:09
3	P 214.914†	296.2	98.2	35.419 ug/L	35.419 ppb	17:51:09
3	Pb 220.353†	99464.0	100870.5	12498 ug/L	12498 ppb	17:50:49
3	S 181.975 Axial†	33.7	-2.9	-4.4096 ug/L	-4.4096 ppb	17:51:09
3	Sb 206.836†	175.1	140.7	48.944 ug/L	48.944 ppb	17:51:09
3	Se 196.026†	-24.3	-3.9	1.4558 ug/L	1.4558 ppb	17:51:09
3	Si 251.611†	15745.4	15423.6	494.78 ug/L	494.78 ppb	17:50:49
3	Sn 189.927†	16.2	6.0	1.0610 ug/L	1.0610 ppb	17:51:09
3	Ti 334.940†	19919.1	21469.6	32.455 ug/L	32.455 ppb	17:50:49
3	Tl 190.801†	-32.0	-1.2	-0.0006 ug/L	-0.0006 ppb	17:51:09
3	U 409.014†	169.8	2988.4	80.596 ug/L	80.596 ppb	17:50:49
3	V 292.402†	-1126.5	288.7	1.9406 ug/L	1.9406 ppb	17:50:49
3	Zn 213.857†	2972.5	2454.9	24.266 ug/L	24.266 ppb	17:51:09
3	SiO2†	15745.3	15406.2	1058.5 ug/L	1058.5 ppb	17:51:25

Mean Data: 245806004|948071|100

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	890133.6	98.897	%	0.4917				0.50%
Sc Radial	4047.0	95.1	%	1.38				1.45%
Y 371.029	752989.1	98.760	%	0.4448				0.45%
Y RADIAL	4457.3	95.00	%	1.357				1.43%
Ag 328.068†	-17.6	0.2594	ug/L	0.20565	0.2594	ppb	0.20565	79.27%
Al 396.153Radial†	670.4	607.11	ug/L	12.299	607.11	ppb	12.299	2.03%
As 188.979†	30.8	14.496	ug/L	2.4116	14.496	ppb	2.4116	16.64%
B 249.677†	-213.5	-5.3108	ug/L	0.14253	-5.3108	ppb	0.14253	2.68%
Ba 233.527†	2237.3	17.519	ug/L	0.1478	17.519	ppb	0.1478	0.84%
Be 313.107†	4883.1	1.8939	ug/L	0.01695	1.8939	ppb	0.01695	0.89%
Ca 317.933Radial†	134.6	267.76	ug/L	4.394	267.76	ppb	4.394	1.64%
Cd 226.502†	10.1	-0.0013	ug/L	0.05747	-0.0013	ppb	0.05747	>999.9%
Co 228.616†	20.9	0.3578	ug/L	0.02901	0.3578	ppb	0.02901	8.11%
Cr 267.716†	188.3	2.2066	ug/L	0.08707	2.2066	ppb	0.08707	3.95%
Cu 324.752†	39297.4	118.03	ug/L	0.759	118.03	ppb	0.759	0.64%
Fe 238.204 Radial†	102.1	1315.1	ug/L	14.44	1315.1	ppb	14.44	1.10%
K 766.490 Radial†	557.4	104.17	ug/L	16.133	104.17	ppb	16.133	15.49%

Mg 279.077 IEC†	2.8	124.01 ug/L	64.115	124.01 ppb	64.115	51.70%
Mn 257.610†	24659.8	27.773 ug/L	0.1158	27.773 ppb	0.1158	0.42%
Mo 202.031†	3.9	0.3893 ug/L	0.34542	0.3893 ppb	0.34542	88.72%
Na 589.592 Radial†	73.8	21.409 ug/L	11.5125	21.409 ppb	11.5125	53.77%
Ni 231.604†	89.3	2.2691 ug/L	0.19400	2.2691 ppb	0.19400	8.55%
P 214.914†	110.0	42.396 ug/L	6.5794	42.396 ppb	6.5794	15.52%
Pb 220.353†	101292.3	12551 ug/L	47.0	12551 ppb	47.0	0.37%
S 181.975 Axial†	1.5	2.0372 ug/L	5.58814	2.0372 ppb	5.58814	274.30%
Sb 206.836†	147.2	51.201 ug/L	3.3727	51.201 ppb	3.3727	6.59%
Se 196.026†	-6.6	-0.2374 ug/L	2.08289	-0.2374 ppb	2.08289	877.41%
Si 251.611†	15537.5	498.44 ug/L	3.224	498.44 ppb	3.224	0.65%
Sn 189.927†	6.7	1.1874 ug/L	0.59733	1.1874 ppb	0.59733	50.31%
Sr 421.552†	157.0	1.0385 ug/L	0.16691	1.0385 ppb	0.16691	16.07%
Ti 334.940†	21583.3	32.632 ug/L	0.1746	32.632 ppb	0.1746	0.53%
Tl 190.801†	1.1	0.7470 ug/L	0.74302	0.7470 ppb	0.74302	99.47%
U 409.014†	3040.2	81.994 ug/L	1.5672	81.994 ppb	1.5672	1.91%
V 292.402†	242.7	1.6215 ug/L	0.29141	1.6215 ppb	0.29141	17.97%
Zn 213.857†	2448.4	24.197 ug/L	0.1916	24.197 ppb	0.1916	0.79%
SiO2†	15454.6	1061.9 ug/L	10.64	1061.9 ppb	10.64	1.00%

Sequence No.: 5
Sample ID: 245806005|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 2/23/2010 17:53:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806005|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4120.6	4120.6	96.9	%			17:55:27
1	Y RADIAL	5181.7	5181.7	110.4	%			17:55:27
1	Al 396.153Radial†	10805.6	11265.1	10202	ug/L	10202	ppb	17:55:27
1	Ca 317.933Radial†	1466.9	1498.8	2981.9	ug/L	2981.9	ppb	17:55:47
1	Fe 238.204 Radial†	3065.1	3153.8	40632	ug/L	40632	ppb	17:55:47
1	K 766.490 Radial†	15097.2	13027.7	2435.1	ug/L	2435.1	ppb	17:55:27
1	Mg 279.077 IEC†	45.0	43.7	1944.4	ug/L	1944.4	ppb	17:55:47
1	Na 589.592 Radial†	3759.1	4620.7	1341.0	ug/L	1341.0	ppb	17:55:27
1	Sr 421.552†	3404.3	3477.4	23.025	ug/L	23.025	ppb	17:55:27
1	Sc 361.383	924978.0	924978.0	102.77	%			17:56:45
1	Y 371.029	883916.1	883916.1	115.93	%			17:56:45
1	Ag 328.068†	-2353.8	-2519.8	1.1035	ug/L	1.1035	ppb	17:56:50
1	As 188.979†	-24.2	-3.0	13.563	ug/L	13.563	ppb	17:57:10
1	B 249.677†	-267.9	112.2	-3.9923	ug/L	-3.9923	ppb	17:56:50
1	Ba 233.527†	30933.3	30109.2	236.48	ug/L	236.48	ppb	17:56:50
1	Be 313.107†	-3736.4	217.5	1.5020	ug/L	1.5020	ppb	17:56:50
1	Cd 226.502†	151.2	330.4	-0.3420	ug/L	-0.3420	ppb	17:57:10
1	Co 228.616†	1185.8	1215.8	23.588	ug/L	23.588	ppb	17:57:10
1	Cr 267.716†	10753.1	10397.5	120.58	ug/L	120.58	ppb	17:56:50
1	Cu 324.752†	12211.5	5805.4	19.665	ug/L	19.665	ppb	17:56:50
1	Mn 257.610†	1569696.4	1526978.9	1716.0	ug/L	1716.0	ppb	17:56:45
1	Mo 202.031†	41.6	34.4	5.7099	ug/L	5.7099	ppb	17:57:10
1	Ni 231.604†	3134.7	2998.0	76.187	ug/L	76.187	ppb	17:57:10
1	P 214.914†	534.0	317.5	159.04	ug/L	159.04	ppb	17:57:10
1	Pb 220.353†	253.6	311.8	36.406	ug/L	36.406	ppb	17:57:10
1	S 181.975 Axial†	75.4	36.3	51.328	ug/L	51.328	ppb	17:57:10
1	Sb 206.836†	56.4	18.2	3.7402	ug/L	3.7402	ppb	17:57:10
1	Se 196.026†	-197.2	-171.1	13.802	ug/L	13.802	ppb	17:57:10
1	Si 251.611†	457940.6	445071.5	14278	ug/L	14278	ppb	17:56:45
1	Sn 189.927†	11.9	1.2	-1.5889	ug/L	-1.5889	ppb	17:57:10
1	Ti 334.940†	423972.9	413834.7	626.16	ug/L	626.16	ppb	17:56:45
1	Tl 190.801†	-89.7	-56.1	-4.7931	ug/L	-4.7931	ppb	17:57:10
1	U 409.014†	-8463.2	-5419.0	-151.32	ug/L	-151.32	ppb	17:56:45
1	V 292.402†	2454.1	3818.4	19.680	ug/L	19.680	ppb	17:56:50
1	Zn 213.857†	19869.2	18776.3	181.82	ug/L	181.82	ppb	17:56:50
1	SiO2†	442508.9	430038.1	29547	ug/L	29547	ppb	17:58:18
2	Sc Radial	4050.8	4050.8	95.2	%			17:55:53
2	Y RADIAL	5073.8	5073.8	108.1	%			17:55:53
2	Al 396.153Radial†	10554.1	11193.1	10137	ug/L	10137	ppb	17:55:53
2	Ca 317.933Radial†	1463.8	1521.6	3027.3	ug/L	3027.3	ppb	17:56:13
2	Fe 238.204 Radial†	3058.6	3201.5	41247	ug/L	41247	ppb	17:56:13
2	K 766.490 Radial†	14891.6	13080.3	2445.0	ug/L	2445.0	ppb	17:55:53
2	Mg 279.077 IEC†	40.8	40.1	1778.5	ug/L	1778.5	ppb	17:56:13
2	Na 589.592 Radial†	3597.8	4518.3	1311.2	ug/L	1311.2	ppb	17:55:53
2	Sr 421.552†	3287.4	3415.2	22.613	ug/L	22.613	ppb	17:55:53
2	Sc 361.383	914032.3	914032.3	101.55	%			17:57:16
2	Y 371.029	873019.4	873019.4	114.50	%			17:57:16
2	Ag 328.068†	-2345.2	-2538.7	1.2079	ug/L	1.2079	ppb	17:57:21
2	As 188.979†	-22.1	-1.3	14.463	ug/L	14.463	ppb	17:57:41
2	B 249.677†	-165.4	210.1	-1.7571	ug/L	-1.7571	ppb	17:57:21
2	Ba 233.527†	30904.4	30441.2	239.09	ug/L	239.09	ppb	17:57:21
2	Be 313.107†	-3790.8	120.4	1.4558	ug/L	1.4558	ppb	17:57:21
2	Cd 226.502†	147.4	328.5	-0.4289	ug/L	-0.4289	ppb	17:57:41
2	Co 228.616†	1162.3	1206.4	23.394	ug/L	23.394	ppb	17:57:41
2	Cr 267.716†	10681.0	10451.8	121.25	ug/L	121.25	ppb	17:57:21
2	Cu 324.752†	12202.3	5938.7	20.098	ug/L	20.098	ppb	17:57:21
2	Mn 257.610†	1543862.3	1519830.6	1708.0	ug/L	1708.0	ppb	17:57:16
2	Mo 202.031†	43.0	36.3	5.8937	ug/L	5.8937	ppb	17:57:41
2	Ni 231.604†	3066.5	2967.3	75.408	ug/L	75.408	ppb	17:57:41

2	P 214.914†	511.3	301.5	148.71 ug/L	148.71 ppb	17:57:41
2	Pb 220.353†	251.9	313.1	36.482 ug/L	36.482 ppb	17:57:41
2	S 181.975 Axial†	77.4	39.2	55.516 ug/L	55.516 ppb	17:57:41
2	Sb 206.836†	47.0	9.6	0.7480 ug/L	0.7480 ppb	17:57:41
2	Se 196.026†	-184.0	-160.5	22.753 ug/L	22.753 ppb	17:57:41
2	Si 251.611†	448960.4	441564.8	14165 ug/L	14165 ppb	17:57:16
2	Sn 189.927†	13.0	2.3	-1.4074 ug/L	-1.4074 ppb	17:57:41
2	Ti 334.940†	415990.6	410914.8	621.76 ug/L	621.76 ppb	17:57:16
2	Tl 190.801†	-79.1	-46.7	-1.8486 ug/L	-1.8486 ppb	17:57:41
2	U 409.014†	-8429.7	-5484.6	-153.16 ug/L	-153.16 ppb	17:57:16
2	V 292.402†	2472.8	3865.5	19.917 ug/L	19.917 ppb	17:57:21
2	Zn 213.857†	19887.5	19025.8	184.23 ug/L	184.23 ppb	17:57:21
2	SiO2†	445696.8	438333.8	30117 ug/L	30117 ppb	17:58:24
3	Sc Radial	4065.2	4065.2	95.6 %		17:56:18
3	Y RADIAL	5130.9	5130.9	109.4 %		17:56:18
3	Al 396.153Radial†	10563.3	11163.4	10110 ug/L	10110 ppb	17:56:18
3	Ca 317.933Radial†	1453.7	1505.5	2995.4 ug/L	2995.4 ppb	17:56:38
3	Fe 238.204 Radial†	3043.0	3173.8	40890 ug/L	40890 ppb	17:56:38
3	K 766.490 Radial†	14997.1	13135.0	2455.2 ug/L	2455.2 ppb	17:56:18
3	Mg 279.077 IEC†	42.9	42.1	1870.8 ug/L	1870.8 ppb	17:56:38
3	Na 589.592 Radial†	3580.6	4486.8	1302.1 ug/L	1302.1 ppb	17:56:18
3	Sr 421.552†	3304.4	3420.6	22.649 ug/L	22.649 ppb	17:56:18
3	Sc 361.383	909346.4	909346.4	101.03 %		17:57:47
3	Y 371.029	867673.2	867673.2	113.80 %		17:57:47
3	Ag 328.068†	-2240.3	-2446.8	1.5233 ug/L	1.5233 ppb	17:57:52
3	As 188.979†	-21.9	-1.2	14.406 ug/L	14.406 ppb	17:58:12
3	B 249.677†	-120.5	253.7	-0.6594 ug/L	-0.6594 ppb	17:57:52
3	Ba 233.527†	30991.4	30684.1	240.98 ug/L	240.98 ppb	17:57:52
3	Be 313.107†	-3805.3	86.9	1.4359 ug/L	1.4359 ppb	17:57:52
3	Cd 226.502†	170.4	352.0	-0.1195 ug/L	-0.1195 ppb	17:58:12
3	Co 228.616†	1168.9	1218.8	23.667 ug/L	23.667 ppb	17:58:12
3	Cr 267.716†	10813.5	10637.1	123.29 ug/L	123.29 ppb	17:57:52
3	Cu 324.752†	12265.3	6062.9	20.455 ug/L	20.455 ppb	17:57:52
3	Mn 257.610†	1527337.1	1511308.1	1698.4 ug/L	1698.4 ppb	17:57:47
3	Mo 202.031†	47.8	41.2	6.2246 ug/L	6.2246 ppb	17:58:12
3	Ni 231.604†	3059.1	2975.6	75.617 ug/L	75.617 ppb	17:58:12
3	P 214.914†	540.8	333.3	168.17 ug/L	168.17 ppb	17:58:12
3	Pb 220.353†	231.6	294.3	34.186 ug/L	34.186 ppb	17:58:12
3	S 181.975 Axial†	64.5	26.8	37.409 ug/L	37.409 ppb	17:58:12
3	Sb 206.836†	44.6	7.4	-0.0080 ug/L	-0.0080 ppb	17:58:12
3	Se 196.026†	-188.5	-165.9	18.057 ug/L	18.057 ppb	17:58:12
3	Si 251.611†	444135.2	439067.0	14085 ug/L	14085 ppb	17:57:47
3	Sn 189.927†	1.7	-8.7	-3.3910 ug/L	-3.3910 ppb	17:58:12
3	Ti 334.940†	411686.5	408765.5	618.50 ug/L	618.50 ppb	17:57:47
3	Tl 190.801†	-88.9	-56.8	-5.1539 ug/L	-5.1539 ppb	17:58:12
3	U 409.014†	-8530.1	-5626.8	-156.97 ug/L	-156.97 ppb	17:57:47
3	V 292.402†	2449.8	3855.2	19.900 ug/L	19.900 ppb	17:57:52
3	Zn 213.857†	19900.9	19140.0	185.43 ug/L	185.43 ppb	17:57:52
3	SiO2†	445779.3	440677.0	30278 ug/L	30278 ppb	17:58:29

Mean Data: 245806005|948071|2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	916118.9	101.78	%	0.891				0.88%
Sc Radial	4078.9	95.9	%	0.87				0.90%
Y 371.029	874869.6	114.75	%	1.086				0.95%
Y RADIAL	5128.8	109.3	%	1.15				1.05%
Ag 328.068†	-2501.7	1.2783	ug/L	0.21856	1.2783	ppb	0.21856	17.10%
Al 396.153Radial†	11207.2	10150	ug/L	47.4	10150	ppb	47.4	0.47%
As 188.979†	-1.8	14.144	ug/L	0.5040	14.144	ppb	0.5040	3.56%
B 249.677†	192.0	-2.1363	ug/L	1.69848	-2.1363	ppb	1.69848	79.51%
Ba 233.527†	30411.5	238.85	ug/L	2.259	238.85	ppb	2.259	0.95%
Be 313.107†	141.6	1.4646	ug/L	0.03392	1.4646	ppb	0.03392	2.32%
Ca 317.933Radial†	1508.6	3001.5	ug/L	23.28	3001.5	ppb	23.28	0.78%
Cd 226.502†	337.0	-0.2968	ug/L	0.15954	-0.2968	ppb	0.15954	53.76%
Co 228.616†	1213.7	23.550	ug/L	0.1404	23.550	ppb	0.1404	0.60%
Cr 267.716†	10495.5	121.70	ug/L	1.414	121.70	ppb	1.414	1.16%
Cu 324.752†	5935.7	20.073	ug/L	0.3957	20.073	ppb	0.3957	1.97%
Fe 238.204 Radial†	3176.4	40923	ug/L	308.9	40923	ppb	308.9	0.75%
K 766.490 Radial†	13081.0	2445.1	ug/L	10.04	2445.1	ppb	10.04	0.41%

Mg 279.077 IEC†	42.0	1864.6	ug/L	83.13	1864.6	ppb	83.13	4.46%
Mn 257.610†	1519372.5	1707.5	ug/L	8.78	1707.5	ppb	8.78	0.51%
Mo 202.031†	37.3	5.9428	ug/L	0.26083	5.9428	ppb	0.26083	4.39%
Na 589.592 Radial†	4541.9	1318.1	ug/L	20.33	1318.1	ppb	20.33	1.54%
Ni 231.604†	2980.3	75.737	ug/L	0.4034	75.737	ppb	0.4034	0.53%
P 214.914†	317.4	158.64	ug/L	9.737	158.64	ppb	9.737	6.14%
Pb 220.353†	306.4	35.691	ug/L	1.3042	35.691	ppb	1.3042	3.65%
S 181.975 Axial†	34.1	48.084	ug/L	9.4797	48.084	ppb	9.4797	19.71%
Sb 206.836†	11.7	1.4934	ug/L	1.98218	1.4934	ppb	1.98218	132.73%
Se 196.026†	-165.8	18.204	ug/L	4.4774	18.204	ppb	4.4774	24.60%
Si 251.611†	441901.1	14176	ug/L	96.8	14176	ppb	96.8	0.68%
Sn 189.927†	-1.7	-2.1291	ug/L	1.09662	-2.1291	ppb	1.09662	51.51%
Sr 421.552†	3437.7	22.762	ug/L	0.2283	22.762	ppb	0.2283	1.00%
Ti 334.940†	411171.7	622.14	ug/L	3.843	622.14	ppb	3.843	0.62%
Tl 190.801†	-53.2	-3.9319	ug/L	1.81319	-3.9319	ppb	1.81319	46.12%
U 409.014†	-5510.1	-153.82	ug/L	2.881	-153.82	ppb	2.881	1.87%
V 292.402†	3846.4	19.832	ug/L	0.1321	19.832	ppb	0.1321	0.67%
Zn 213.857†	18980.7	183.83	ug/L	1.841	183.83	ppb	1.841	1.00%
SiO2†	436349.6	29981	ug/L	384.1	29981	ppb	384.1	1.28%

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Analysis Begun

Start Time: 2/23/2010 17:59:26
Plasma On Time: 2/22/2010 05:55:10
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\022310C.sif
Batch ID:
Results Data Set: 022310A
Results Library: C:\pe\Optima3\Results\Results.mdb

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Sequence No.: 1
Autosampler Location: 41
Sample ID: 245806008|948071|2
Date Collected: 2/23/2010 17:59:27
Analyst: HSC
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Replicate Data: 245806008|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4132.7	4132.7	97.2	%			18:01:20
1	Y RADIAL	5046.6	5046.6	107.6	%			18:01:20
1	Al 396.153Radial†	11139.7	11576.1	10484	ug/L	10484	ppb	18:01:20
1	Ca 317.933Radial†	1825.8	1863.7	3708.0	ug/L	3708.0	ppb	18:01:40
1	Fe 238.204 Radial†	3061.1	3140.3	40460	ug/L	40460	ppb	18:01:40
1	K 766.490 Radial†	15646.0	13546.6	2532.3	ug/L	2532.3	ppb	18:01:20
1	Mg 279.077 IEC†	46.4	45.0	2002.7	ug/L	2002.7	ppb	18:01:40
1	Na 589.592 Radial†	3175.4	4008.6	1163.3	ug/L	1163.3	ppb	18:01:20
1	Sr 421.552†	4651.3	4750.5	31.458	ug/L	31.458	ppb	18:01:20
1	Sc 361.383	903304.9	903304.9	100.36	%			18:02:37
1	Y 371.029	832007.1	832007.1	109.12	%			18:02:37
1	Ag 328.068†	-2323.5	-2544.5	0.9319	ug/L	0.9319	ppb	18:02:42
1	As 188.979†	-41.1	-20.4	7.7389	ug/L	7.7389	ppb	18:03:02
1	B 249.677†	17.8	390.6	2.5597	ug/L	2.5597	ppb	18:02:42
1	Ba 233.527†	18770.4	18712.2	147.47	ug/L	147.47	ppb	18:02:42
1	Be 313.107†	-7618.0	-3737.4	0.5623	ug/L	0.5623	ppb	18:02:42
1	Cd 226.502†	143.5	326.3	-0.3847	ug/L	-0.3847	ppb	18:03:02
1	Co 228.616†	3180.3	3230.8	65.202	ug/L	65.202	ppb	18:03:02
1	Cr 267.716†	6888.1	6797.4	80.181	ug/L	80.181	ppb	18:02:42
1	Cu 324.752†	13238.1	7113.5	23.566	ug/L	23.566	ppb	18:02:42
1	Mn 257.610†	893082.5	889440.7	1001.1	ug/L	1001.1	ppb	18:02:37
1	Mo 202.031†	37.5	31.3	5.4721	ug/L	5.4721	ppb	18:03:02
1	Ni 231.604†	1898.2	1839.0	46.703	ug/L	46.703	ppb	18:03:02
1	P 214.914†	575.9	371.8	191.38	ug/L	191.38	ppb	18:03:02
1	Pb 220.353†	202.8	267.1	30.953	ug/L	30.953	ppb	18:03:02
1	S 181.975 Axial†	110.8	73.4	105.57	ug/L	105.57	ppb	18:03:02
1	Sb 206.836†	41.1	4.3	-1.9277	ug/L	-1.9277	ppb	18:03:02
1	Se 196.026†	-179.9	-158.5	21.580	ug/L	21.580	ppb	18:03:02
1	Si 251.611†	392535.5	390592.7	12530	ug/L	12530	ppb	18:02:37
1	Sn 189.927†	3.2	-7.3	-2.9824	ug/L	-2.9824	ppb	18:03:02
1	Ti 334.940†	570178.8	569414.4	861.55	ug/L	861.55	ppb	18:02:37
1	Tl 190.801†	-68.9	-37.4	-0.4567	ug/L	-0.4567	ppb	18:03:02
1	U 409.014†	-7084.3	-4242.6	-119.42	ug/L	-119.42	ppb	18:02:37
1	V 292.402†	3510.0	4927.8	27.232	ug/L	27.232	ppb	18:02:42
1	Zn 213.857†	16697.5	16079.9	154.97	ug/L	154.97	ppb	18:02:42
1	SiO2†	395023.1	393054.0	27006	ug/L	27006	ppb	18:04:09
2	Sc Radial	4079.0	4079.0	95.9	%			18:01:45
2	Y RADIAL	4996.9	4996.9	106.5	%			18:01:45
2	Al 396.153Radial†	11049.8	11633.3	10536	ug/L	10536	ppb	18:01:45
2	Ca 317.933Radial†	1811.2	1873.2	3726.9	ug/L	3726.9	ppb	18:02:05
2	Fe 238.204 Radial†	3040.2	3160.0	40714	ug/L	40714	ppb	18:02:05
2	K 766.490 Radial†	15492.7	13598.7	2542.1	ug/L	2542.1	ppb	18:01:45
2	Mg 279.077 IEC†	41.0	40.0	1776.5	ug/L	1776.5	ppb	18:02:05
2	Na 589.592 Radial†	3071.6	3943.4	1144.4	ug/L	1144.4	ppb	18:01:45
2	Sr 421.552†	4622.2	4783.2	31.675	ug/L	31.675	ppb	18:01:45
2	Sc 361.383	911960.2	911960.2	101.32	%			18:03:08
2	Y 371.029	838808.0	838808.0	110.02	%			18:03:08

2	Ag 328.068†	-2432.5	-2630.1	0.6097 ug/L	0.6097 ppb	18:03:13
2	As 188.979†	-41.3	-20.2	7.8972 ug/L	7.8972 ppb	18:03:33
2	B 249.677†	117.9	489.3	4.8744 ug/L	4.8744 ppb	18:03:13
2	Ba 233.527†	18720.5	18485.4	145.70 ug/L	145.70 ppb	18:03:13
2	Be 313.107†	-7695.6	-3741.9	0.5659 ug/L	0.5659 ppb	18:03:13
2	Cd 226.502†	150.2	331.6	-0.3487 ug/L	-0.3487 ppb	18:03:33
2	Co 228.616†	3191.9	3212.2	64.802 ug/L	64.802 ppb	18:03:33
2	Cr 267.716†	6919.5	6763.3	79.819 ug/L	79.819 ppb	18:03:13
2	Cu 324.752†	13388.5	7136.8	23.648 ug/L	23.648 ppb	18:03:13
2	Mn 257.610†	904510.9	892274.2	1004.4 ug/L	1004.4 ppb	18:03:08
2	Mo 202.031†	28.2	21.8	4.7972 ug/L	4.7972 ppb	18:03:33
2	Ni 231.604†	1902.7	1825.6	46.361 ug/L	46.361 ppb	18:03:33
2	P 214.914†	563.0	353.6	180.13 ug/L	180.13 ppb	18:03:33
2	Pb 220.353†	232.3	294.3	34.301 ug/L	34.301 ppb	18:03:33
2	S 181.975 Axial†	110.4	72.0	103.45 ug/L	103.45 ppb	18:03:33
2	Sb 206.836†	37.7	0.5	-3.2676 ug/L	-3.2676 ppb	18:03:33
2	Se 196.026†	-177.9	-154.9	24.774 ug/L	24.774 ppb	18:03:33
2	Si 251.611†	397265.4	391548.7	12561 ug/L	12561 ppb	18:03:08
2	Sn 189.927†	4.5	-6.0	-2.7584 ug/L	-2.7584 ppb	18:03:33
2	Ti 334.940†	577183.1	570935.2	863.87 ug/L	863.87 ppb	18:03:08
2	Tl 190.801†	-78.4	-46.2	-3.2255 ug/L	-3.2255 ppb	18:03:33
2	U 409.014†	-7058.8	-4150.5	-116.96 ug/L	-116.96 ppb	18:03:08
2	V 292.402†	3368.5	4755.0	25.983 ug/L	25.983 ppb	18:03:13
2	Zn 213.857†	16693.8	15918.3	153.31 ug/L	153.31 ppb	18:03:13
2	SiO2†	393972.0	388280.9	26678 ug/L	26678 ppb	18:04:15
3	Sc Radial	4108.6	4108.6	96.6 %		18:02:10
3	Y RADIAL	4983.2	4983.2	106.2 %		18:02:10
3	Al 396.153Radial†	11087.9	11589.8	10496 ug/L	10496 ppb	18:02:10
3	Ca 317.933Radial†	1815.4	1864.0	3708.5 ug/L	3708.5 ppb	18:02:30
3	Fe 238.204 Radial†	3038.8	3135.8	40402 ug/L	40402 ppb	18:02:30
3	K 766.490 Radial†	15536.2	13527.5	2528.7 ug/L	2528.7 ppb	18:02:10
3	Mg 279.077 IEC†	40.6	39.3	1743.7 ug/L	1743.7 ppb	18:02:30
3	Na 589.592 Radial†	3183.8	4036.4	1171.4 ug/L	1171.4 ppb	18:02:10
3	Sr 421.552†	4667.5	4795.4	31.756 ug/L	31.756 ppb	18:02:10
3	Sc 361.383	900492.3	900492.3	100.05 %		18:03:38
3	Y 371.029	829467.6	829467.6	108.79 %		18:03:38
3	Ag 328.068†	-2369.3	-2597.5	0.6666 ug/L	0.6666 ppb	18:03:43
3	As 188.979†	-35.0	-14.4	10.395 ug/L	10.395 ppb	18:04:03
3	B 249.677†	-15.3	357.7	1.7823 ug/L	1.7823 ppb	18:03:43
3	Ba 233.527†	18525.3	18525.7	146.01 ug/L	146.01 ppb	18:03:43
3	Be 313.107†	-7613.1	-3756.2	0.5517 ug/L	0.5517 ppb	18:03:43
3	Cd 226.502†	157.1	340.3	-0.2155 ug/L	-0.2155 ppb	18:04:03
3	Co 228.616†	3176.7	3237.1	65.334 ug/L	65.334 ppb	18:04:03
3	Cr 267.716†	6813.7	6744.5	79.579 ug/L	79.579 ppb	18:03:43
3	Cu 324.752†	13152.2	7068.9	23.429 ug/L	23.429 ppb	18:03:43
3	Mn 257.610†	889614.2	888753.3	1000.4 ug/L	1000.4 ppb	18:03:38
3	Mo 202.031†	16.6	10.5	3.9505 ug/L	3.9505 ppb	18:04:03
3	Ni 231.604†	1874.0	1820.8	46.241 ug/L	46.241 ppb	18:04:03
3	P 214.914†	564.0	361.7	185.29 ug/L	185.29 ppb	18:04:03
3	Pb 220.353†	221.7	286.7	33.380 ug/L	33.380 ppb	18:04:03
3	S 181.975 Axial†	107.4	70.3	101.05 ug/L	101.05 ppb	18:04:03
3	Sb 206.836†	55.4	18.7	3.0563 ug/L	3.0563 ppb	18:04:03
3	Se 196.026†	-184.2	-163.5	18.139 ug/L	18.139 ppb	18:04:03
3	Si 251.611†	390346.5	389626.3	12499 ug/L	12499 ppb	18:03:38
3	Sn 189.927†	-1.2	-11.7	-3.7712 ug/L	-3.7712 ppb	18:04:03
3	Ti 334.940†	567351.7	568363.1	859.99 ug/L	859.99 ppb	18:03:38
3	Tl 190.801†	-67.4	-36.1	-0.0571 ug/L	-0.0571 ppb	18:04:03
3	U 409.014†	-7040.6	-4221.0	-118.83 ug/L	-118.83 ppb	18:03:38
3	V 292.402†	3369.0	4797.9	26.314 ug/L	26.314 ppb	18:03:43
3	Zn 213.857†	16526.0	15960.5	153.78 ug/L	153.78 ppb	18:03:43
3	SiO2†	393707.9	392968.7	27000 ug/L	27000 ppb	18:04:20

Mean Data: 245806008|948071|2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	905252.5	100.58	%	0.664				0.66%
Sc Radial	4106.8	96.5	%	0.63				0.65%
Y 371.029	833427.5	109.31	%	0.633				0.58%
Y RADIAL	5008.9	106.8	%	0.71				0.67%
Ag 328.068†	-2590.7	0.7361	ug/L	0.17198	0.7361	ppb	0.17198	23.36%

Al 396.153Radial†	11599.8	10505	ug/L	27.1	10505	ppb	27.1	0.26%
As 188.979†	-18.4	8.6771	ug/L	1.49013	8.6771	ppb	1.49013	17.17%
B 249.677†	412.5	3.0721	ug/L	1.60846	3.0721	ppb	1.60846	52.36%
Ba 233.527†	18574.4	146.39	ug/L	0.944	146.39	ppb	0.944	0.64%
Be 313.107†	-3745.2	0.5600	ug/L	0.00736	0.5600	ppb	0.00736	1.31%
Ca 317.933Radial†	1867.0	3714.5	ug/L	10.80	3714.5	ppb	10.80	0.29%
Cd 226.502†	332.7	-0.3163	ug/L	0.08914	-0.3163	ppb	0.08914	28.18%
Co 228.616†	3226.7	65.113	ug/L	0.2770	65.113	ppb	0.2770	0.43%
Cr 267.716†	6768.4	79.860	ug/L	0.3027	79.860	ppb	0.3027	0.38%
Cu 324.752†	7106.4	23.548	ug/L	0.1109	23.548	ppb	0.1109	0.47%
Fe 238.204 Radial†	3145.4	40525	ug/L	165.9	40525	ppb	165.9	0.41%
K 766.490 Radial†	13557.6	2534.4	ug/L	6.90	2534.4	ppb	6.90	0.27%
Mg 279.077 IEC†	41.4	1841.0	ug/L	141.05	1841.0	ppb	141.05	7.66%
Mn 257.610†	890156.1	1002.0	ug/L	2.11	1002.0	ppb	2.11	0.21%
Mo 202.031†	21.2	4.7399	ug/L	0.76239	4.7399	ppb	0.76239	16.08%
Na 589.592 Radial†	3996.1	1159.7	ug/L	13.86	1159.7	ppb	13.86	1.19%
Ni 231.604†	1828.5	46.435	ug/L	0.2399	46.435	ppb	0.2399	0.52%
P 214.914†	362.4	185.60	ug/L	5.630	185.60	ppb	5.630	3.03%
Pb 220.353†	282.7	32.878	ug/L	1.7300	32.878	ppb	1.7300	5.26%
S 181.975 Axial†	71.9	103.36	ug/L	2.262	103.36	ppb	2.262	2.19%
Sb 206.836†	7.8	-0.7130	ug/L	3.33238	-0.7130	ppb	3.33238	467.37%
Se 196.026†	-159.0	21.498	ug/L	3.3181	21.498	ppb	3.3181	15.43%
Si 251.611†	390589.2	12530	ug/L	30.8	12530	ppb	30.8	0.25%
Sn 189.927†	-8.3	-3.1707	ug/L	0.53200	-3.1707	ppb	0.53200	16.78%
Sr 421.552†	4776.4	31.629	ug/L	0.1539	31.629	ppb	0.1539	0.49%
Ti 334.940†	569570.9	861.80	ug/L	1.957	861.80	ppb	1.957	0.23%
Tl 190.801†	-39.9	-1.2464	ug/L	1.72554	-1.2464	ppb	1.72554	138.44%
U 409.014†	-4204.7	-118.40	ug/L	1.285	-118.40	ppb	1.285	1.09%
V 292.402†	4826.9	26.510	ug/L	0.6468	26.510	ppb	0.6468	2.44%
Zn 213.857†	15986.2	154.02	ug/L	0.854	154.02	ppb	0.854	0.55%
SiO2†	391434.5	26895	ug/L	187.7	26895	ppb	187.7	0.70%

Sequence No.: 7
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/23/2010 18:40:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	3876.0	3876.0	91.1	%			18:42:44
1	Y RADIAL	4433.9	4433.9	94.50	%			18:42:23
1	Al 396.153Radial†	5244.9	5866.6	5288.6	ug/L	5288.6	ppb	18:42:23
1	Ca 317.933Radial†	2448.5	2671.6	5315.3	ug/L	5315.3	ppb	18:42:44
1	Fe 238.204 Radial†	375.4	401.8	5191.4	ug/L	5191.4	ppb	18:42:44
1	K 766.490 Radial†	28460.4	28676.2	5358.3	ug/L	5358.3	ppb	18:42:23
1	Mg 279.077 IEC†	108.5	116.3	5286.4	ug/L	5286.4	ppb	18:42:44
1	Na 589.592 Radial†	32141.1	36012.5	10451	ug/L	10451	ppb	18:42:23
1	Sr 421.552†	72080.3	79065.4	523.99	ug/L	523.99	ppb	18:42:23
1	Sc 361.383	894270.7	894270.7	99.356	%			18:43:41
1	Y 371.029	746702.0	746702.0	97.936	%			18:43:41
1	Ag 328.068†	107923.5	108393.2	500.91	ug/L	500.91	ppb	18:43:46
1	As 188.979†	1097.0	1124.6	511.13	ug/L	511.13	ppb	18:44:06
1	B 249.677†	19539.4	20038.9	475.97	ug/L	475.97	ppb	18:43:46
1	Ba 233.527†	63215.7	63634.3	498.29	ug/L	498.29	ppb	18:43:46
1	Be 313.107†	1315242.7	1327615.1	495.86	ug/L	495.86	ppb	18:43:41
1	Cd 226.502†	42799.5	43260.0	502.01	ug/L	502.01	ppb	18:43:46
1	Co 228.616†	23624.2	23839.1	498.52	ug/L	498.52	ppb	18:43:46
1	Cr 267.716†	44243.5	44464.1	499.70	ug/L	499.70	ppb	18:43:46
1	Cu 324.752†	167595.7	162604.2	488.29	ug/L	488.29	ppb	18:43:46
1	Mn 257.610†	437336.6	439732.5	493.32	ug/L	493.32	ppb	18:43:41
1	Mo 202.031†	6841.9	6880.2	503.98	ug/L	503.98	ppb	18:44:06
1	Ni 231.604†	19695.8	19771.1	502.24	ug/L	502.24	ppb	18:43:46
1	P 214.914†	4329.0	4155.0	2426.2	ug/L	2426.2	ppb	18:44:06
1	Pb 220.353†	4027.4	4118.5	511.90	ug/L	511.90	ppb	18:44:06
1	S 181.975 Axial†	726.2	693.9	1015.5	ug/L	1015.5	ppb	18:44:06
1	Sb 206.836†	1467.4	1440.2	520.20	ug/L	520.20	ppb	18:44:06
1	Se 196.026†	735.3	760.8	519.23	ug/L	519.23	ppb	18:44:06
1	Si 251.611†	77282.8	77249.3	2471.9	ug/L	2471.9	ppb	18:43:46
1	Sn 189.927†	2789.9	2797.6	506.76	ug/L	506.76	ppb	18:44:06
1	Ti 334.940†	315176.4	318499.7	481.60	ug/L	481.60	ppb	18:43:46
1	Tl 190.801†	1516.8	1557.8	503.17	ug/L	503.17	ppb	18:44:06
1	U 409.014†	14881.6	17794.3	479.11	ug/L	479.11	ppb	18:43:46
1	V 292.402†	69209.6	71088.3	500.23	ug/L	500.23	ppb	18:43:46
1	Zn 213.857†	50032.4	49798.8	495.05	ug/L	495.05	ppb	18:43:46
1	SiO2†	76912.7	76859.4	5267.2	ug/L	5267.2	ppb	18:45:14
2	Sc Radial	3835.6	3835.6	90.2	%			18:43:09
2	Y RADIAL	4397.5	4397.5	93.72	%			18:42:49
2	Al 396.153Radial†	5209.8	5888.2	5308.5	ug/L	5308.5	ppb	18:42:49
2	Ca 317.933Radial†	2427.0	2676.0	5324.1	ug/L	5324.1	ppb	18:43:09
2	Fe 238.204 Radial†	372.7	403.1	5208.6	ug/L	5208.6	ppb	18:43:09
2	K 766.490 Radial†	28163.0	28674.8	5358.1	ug/L	5358.1	ppb	18:42:49
2	Mg 279.077 IEC†	109.6	118.8	5397.6	ug/L	5397.6	ppb	18:43:09
2	Na 589.592 Radial†	31781.9	35985.2	10443	ug/L	10443	ppb	18:42:49
2	Sr 421.552†	71346.9	79084.1	524.12	ug/L	524.12	ppb	18:42:49
2	Sc 361.383	904171.8	904171.8	100.46	%			18:44:12
2	Y 371.029	753473.3	753473.3	98.824	%			18:44:12
2	Ag 328.068†	109499.4	108772.5	502.65	ug/L	502.65	ppb	18:44:17
2	As 188.979†	1088.7	1104.2	501.96	ug/L	501.96	ppb	18:44:37
2	B 249.677†	19925.5	20207.9	480.00	ug/L	480.00	ppb	18:44:17
2	Ba 233.527†	63813.0	63532.2	497.50	ug/L	497.50	ppb	18:44:17
2	Be 313.107†	1330846.4	1328652.2	496.25	ug/L	496.25	ppb	18:44:12
2	Cd 226.502†	43425.5	43411.5	503.76	ug/L	503.76	ppb	18:44:17
2	Co 228.616†	23936.7	23889.9	499.57	ug/L	499.57	ppb	18:44:17
2	Cr 267.716†	44739.0	44469.8	499.77	ug/L	499.77	ppb	18:44:17
2	Cu 324.752†	170004.5	163154.8	489.95	ug/L	489.95	ppb	18:44:17
2	Mn 257.610†	443913.5	441459.5	495.25	ug/L	495.25	ppb	18:44:12
2	Mo 202.031†	6835.2	6798.0	497.97	ug/L	497.97	ppb	18:44:37
2	Ni 231.604†	19946.2	19803.2	503.06	ug/L	503.06	ppb	18:44:17

2	P 214.914†	4315.4	4093.7	2388.5 ug/L	2388.5 ppb	18:44:37
2	Pb 220.353†	4017.5	4064.3	505.17 ug/L	505.17 ppb	18:44:37
2	S 181.975 Axial†	736.0	695.6	1018.0 ug/L	1018.0 ppb	18:44:37
2	Sb 206.836†	1440.1	1396.8	504.83 ug/L	504.83 ppb	18:44:37
2	Se 196.026†	727.2	744.6	508.63 ug/L	508.63 ppb	18:44:37
2	Si 251.611†	78315.0	77425.0	2477.7 ug/L	2477.7 ppb	18:44:17
2	Sn 189.927†	2772.2	2749.1	498.00 ug/L	498.00 ppb	18:44:37
2	Ti 334.940†	319174.5	319006.0	482.36 ug/L	482.36 ppb	18:44:17
2	Tl 190.801†	1532.6	1556.9	502.87 ug/L	502.87 ppb	18:44:37
2	U 409.014†	15181.7	17928.9	482.74 ug/L	482.74 ppb	18:44:17
2	V 292.402†	70083.7	71195.6	500.89 ug/L	500.89 ppb	18:44:17
2	Zn 213.857†	50712.4	49924.3	496.30 ug/L	496.30 ppb	18:44:17
2	SiO2†	78177.8	77271.0	5295.6 ug/L	5295.6 ppb	18:45:19
3	Sc Radial	3890.9	3890.9	91.5 %		18:43:34
3	Y RADIAL	4402.1	4402.1	93.82 %		18:43:14
3	Al 396.153Radial†	5185.7	5779.8	5210.2 ug/L	5210.2 ppb	18:43:14
3	Ca 317.933Radial†	2458.7	2672.4	5316.9 ug/L	5316.9 ppb	18:43:34
3	Fe 238.204 Radial†	379.8	405.1	5233.4 ug/L	5233.4 ppb	18:43:34
3	K 766.490 Radial†	28197.2	28268.7	5282.2 ug/L	5282.2 ppb	18:43:14
3	Mg 279.077 IEC†	113.5	121.3	5514.7 ug/L	5514.7 ppb	18:43:34
3	Na 589.592 Radial†	31585.0	35269.4	10235 ug/L	10235 ppb	18:43:14
3	Sr 421.552†	71272.6	77879.2	516.13 ug/L	516.13 ppb	18:43:14
3	Sc 361.383	898710.2	898710.2	99.850 %		18:44:43
3	Y 371.029	749591.0	749591.0	98.314 %		18:44:43
3	Ag 328.068†	107910.1	107843.3	498.38 ug/L	498.38 ppb	18:44:48
3	As 188.979†	1086.3	1108.5	503.86 ug/L	503.86 ppb	18:45:08
3	B 249.677†	19712.5	20115.1	477.79 ug/L	477.79 ppb	18:44:48
3	Ba 233.527†	63138.5	63242.7	495.23 ug/L	495.23 ppb	18:44:48
3	Be 313.107†	1321927.0	1327770.4	495.91 ug/L	495.91 ppb	18:44:43
3	Cd 226.502†	42810.1	43057.8	499.65 ug/L	499.65 ppb	18:44:48
3	Co 228.616†	23691.2	23788.8	497.47 ug/L	497.47 ppb	18:44:48
3	Cr 267.716†	44301.1	44301.8	497.88 ug/L	497.88 ppb	18:44:48
3	Cu 324.752†	167388.6	161563.5	485.17 ug/L	485.17 ppb	18:44:48
3	Mn 257.610†	440914.2	441141.2	494.89 ug/L	494.89 ppb	18:44:43
3	Mo 202.031†	6830.2	6834.5	500.63 ug/L	500.63 ppb	18:45:08
3	Ni 231.604†	19607.2	19584.4	497.49 ug/L	497.49 ppb	18:44:48
3	P 214.914†	4306.9	4111.4	2400.2 ug/L	2400.2 ppb	18:45:08
3	Pb 220.353†	4029.0	4100.1	509.60 ug/L	509.60 ppb	18:45:08
3	S 181.975 Axial†	722.8	686.8	1005.2 ug/L	1005.2 ppb	18:45:08
3	Sb 206.836†	1455.7	1421.2	513.45 ug/L	513.45 ppb	18:45:08
3	Se 196.026†	723.9	745.7	509.41 ug/L	509.41 ppb	18:45:08
3	Si 251.611†	77190.6	76772.6	2456.7 ug/L	2456.7 ppb	18:44:48
3	Sn 189.927†	2784.7	2778.4	503.30 ug/L	503.30 ppb	18:45:08
3	Ti 334.940†	314844.3	316600.1	478.71 ug/L	478.71 ppb	18:44:48
3	Tl 190.801†	1503.5	1537.0	496.47 ug/L	496.47 ppb	18:45:08
3	U 409.014†	14927.0	17765.7	478.34 ug/L	478.34 ppb	18:44:48
3	V 292.402†	69195.2	70729.8	497.69 ug/L	497.69 ppb	18:44:48
3	Zn 213.857†	50054.4	49572.0	492.81 ug/L	492.81 ppb	18:44:48
3	SiO2†	76743.7	76307.7	5229.4 ug/L	5229.4 ppb	18:45:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	899050.9	99.888	%	0.5510				0.55%
Sc Radial	3867.5	90.9	%	0.67				0.74%
Y 371.029	749922.1	98.358	%	0.4456				0.45%
Y RADIAL	4411.2	94.01	%	0.422				0.45%
Ag 328.068†	108336.3	500.65	ug/L	2.146	500.65	ppb	2.146	0.43%
QC value within limits for Ag 328.068 Recovery = 100.13%								
Al 396.153Radial†	5844.9	5269.1	ug/L	51.94	5269.1	ppb	51.94	0.99%
QC value within limits for Al 396.153Radial Recovery = 105.38%								
As 188.979†	1112.5	505.65	ug/L	4.839	505.65	ppb	4.839	0.96%
QC value within limits for As 188.979 Recovery = 101.13%								
B 249.677†	20120.6	477.92	ug/L	2.017	477.92	ppb	2.017	0.42%
QC value within limits for B 249.677 Recovery = 95.58%								
Ba 233.527†	63469.7	497.01	ug/L	1.589	497.01	ppb	1.589	0.32%
QC value within limits for Ba 233.527 Recovery = 99.40%								
Be 313.107†	1328012.6	496.01	ug/L	0.211	496.01	ppb	0.211	0.04%
QC value within limits for Be 313.107 Recovery = 99.20%								
Ca 317.933Radial†	2673.3	5318.8	ug/L	4.66	5318.8	ppb	4.66	0.09%

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   QC value within limits for Ca 317.933Radial  Recovery = 106.38%
Cd 226.502†            43243.1      501.81 ug/L         2.063      501.81 ppb          2.063   0.41%
   QC value within limits for Cd 226.502  Recovery = 100.36%
Co 228.616†            23839.3      498.52 ug/L         1.051      498.52 ppb          1.051   0.21%
   QC value within limits for Co 228.616  Recovery = 99.70%
Cr 267.716†            44411.9      499.12 ug/L         1.070      499.12 ppb          1.070   0.21%
   QC value within limits for Cr 267.716  Recovery = 99.82%
Cu 324.752†           162440.8      487.80 ug/L         2.425      487.80 ppb          2.425   0.50%
   QC value within limits for Cu 324.752  Recovery = 97.56%
Fe 238.204 Radial†       403.3      5211.1 ug/L        21.12      5211.1 ppb         21.12   0.41%
   QC value within limits for Fe 238.204 Radial  Recovery = 104.22%
K 766.490 Radial†      28539.9      5332.8 ug/L        43.89      5332.8 ppb         43.89   0.82%
   QC value within limits for K 766.490 Radial  Recovery = 106.66%
Mg 279.077 IEC†          118.8      5399.6 ug/L       114.17      5399.6 ppb        114.17   2.11%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.99%
Mn 257.610†           440777.7      494.49 ug/L         1.028      494.49 ppb          1.028   0.21%
   QC value within limits for Mn 257.610  Recovery = 98.90%
Mo 202.031†             6837.6      500.86 ug/L         3.011      500.86 ppb          3.011   0.60%
   QC value within limits for Mo 202.031  Recovery = 100.17%
Na 589.592 Radial†     35755.7       10376 ug/L       122.3         10376 ppb        122.3   1.18%
   QC value within limits for Na 589.592 Radial  Recovery = 103.76%
Ni 231.604†            19719.6      500.93 ug/L         3.003      500.93 ppb          3.003   0.60%
   QC value within limits for Ni 231.604  Recovery = 100.19%
P 214.914†              4120.0      2405.0 ug/L        19.26      2405.0 ppb         19.26   0.80%
   QC value within limits for P 214.914  Recovery = 96.20%
Pb 220.353†             4094.3      508.89 ug/L         3.419      508.89 ppb          3.419   0.67%
   QC value within limits for Pb 220.353  Recovery = 101.78%
S 181.975 Axial†         692.1      1012.9 ug/L         6.80      1012.9 ppb          6.80   0.67%
   QC value within limits for S 181.975 Axial  Recovery = 101.29%
Sb 206.836†             1419.4      512.83 ug/L         7.705      512.83 ppb          7.705   1.50%
   QC value within limits for Sb 206.836  Recovery = 102.57%
Se 196.026†              750.4      512.42 ug/L         5.908      512.42 ppb          5.908   1.15%
   QC value within limits for Se 196.026  Recovery = 102.48%
Si 251.611†            77149.0      2468.8 ug/L        10.84      2468.8 ppb         10.84   0.44%
   QC value within limits for Si 251.611  Recovery = 98.75%
Sn 189.927†             2775.1      502.68 ug/L         4.412      502.68 ppb          4.412   0.88%
   QC value within limits for Sn 189.927  Recovery = 100.54%
Sr 421.552†            78676.2      521.42 ug/L         4.575      521.42 ppb          4.575   0.88%
   QC value within limits for Sr 421.552  Recovery = 104.28%
Ti 334.940†           318035.3      480.89 ug/L         1.925      480.89 ppb          1.925   0.40%
   QC value within limits for Ti 334.940  Recovery = 96.18%
Tl 190.801†             1550.6      500.83 ug/L         3.783      500.83 ppb          3.783   0.76%
   QC value within limits for Tl 190.801  Recovery = 100.17%
U 409.014†             17829.6      480.06 ug/L         2.354      480.06 ppb          2.354   0.49%
   QC value within limits for U 409.014  Recovery = 96.01%
V 292.402†             71004.6      499.60 ug/L         1.689      499.60 ppb          1.689   0.34%
   QC value within limits for V 292.402  Recovery = 99.92%
Zn 213.857†            49765.1      494.72 ug/L         1.772      494.72 ppb          1.772   0.36%
   QC value within limits for Zn 213.857  Recovery = 98.94%
SiO2†                  76812.7      5264.1 ug/L        33.24      5264.1 ppb         33.24   0.63%
   QC value within limits for SiO2  Recovery = 98.44%
All analyte(s) passed QC.
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Sequence No.: 8
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/23/2010 18:47:34
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	4120.3	4120.3	96.9	%			18:49:26
1	Y RADIAL	4579.2	4579.2	97.59	%			18:49:26
1	Al 396.153Radial†	-106.0	1.3	1.1577	ug/L	1.1577	ppb	18:49:26
1	Ca 317.933Radial†	22.7	8.0	15.859	ug/L	15.859	ppb	18:49:46
1	Fe 238.204 Radial†	12.9	3.2	40.614	ug/L	40.614	ppb	18:49:46
1	K 766.490 Radial†	2662.8	192.1	35.947	ug/L	35.947	ppb	18:49:26
1	Mg 279.077 IEC†	-2.5	-5.4	-243.91	ug/L	-243.91	ppb	18:49:46
1	Na 589.592 Radial†	-800.6	-86.1	-25.000	ug/L	-25.000	ppb	18:49:26
1	Sr 421.552†	18.6	-17.6	-0.1167	ug/L	-0.1167	ppb	18:49:26
1	Sc 361.383	892622.1	892622.1	99.173	%			18:50:43
1	Y 371.029	756417.9	756417.9	99.210	%			18:50:43
1	Ag 328.068†	234.7	7.4	0.0455	ug/L	0.0455	ppb	18:50:43
1	As 188.979†	-24.0	-3.7	-1.6577	ug/L	-1.6577	ppb	18:51:03
1	B 249.677†	-413.7	-44.1	-1.0592	ug/L	-1.0592	ppb	18:51:03
1	Ba 233.527†	9.5	18.7	0.1464	ug/L	0.1464	ppb	18:51:03
1	Be 313.107†	-3773.9	47.9	0.0177	ug/L	0.0177	ppb	18:50:43
1	Cd 226.502†	-191.3	-9.6	-0.1159	ug/L	-0.1159	ppb	18:51:03
1	Co 228.616†	-78.5	-17.3	-0.3602	ug/L	-0.3602	ppb	18:51:03
1	Cr 267.716†	77.5	12.2	0.1403	ug/L	0.1403	ppb	18:51:03
1	Cu 324.752†	6073.8	47.3	0.1449	ug/L	0.1449	ppb	18:50:43
1	Mn 257.610†	502.3	69.6	0.0920	ug/L	0.0920	ppb	18:51:03
1	Mo 202.031†	12.0	6.1	0.4476	ug/L	0.4476	ppb	18:51:03
1	Ni 231.604†	53.2	1.3	0.0345	ug/L	0.0345	ppb	18:51:03
1	P 214.914†	197.7	-2.7	-1.6738	ug/L	-1.6738	ppb	18:51:03
1	Pb 220.353†	-9.9	55.0	6.8172	ug/L	6.8172	ppb	18:51:03
1	S 181.975 Axial†	36.4	-0.4	-0.5607	ug/L	-0.5607	ppb	18:51:03
1	Sb 206.836†	45.9	9.6	3.3585	ug/L	3.3585	ppb	18:51:03
1	Se 196.026†	-22.3	-1.8	-1.0661	ug/L	-1.0661	ppb	18:51:03
1	Si 251.611†	561.3	31.8	1.0144	ug/L	1.0144	ppb	18:51:03
1	Sn 189.927†	11.5	1.2	0.2123	ug/L	0.2123	ppb	18:51:03
1	Ti 334.940†	-1329.3	-58.5	-0.0661	ug/L	-0.0661	ppb	18:50:43
1	Tl 190.801†	-25.0	6.0	1.9373	ug/L	1.9373	ppb	18:51:03
1	U 409.014†	-2833.6	-41.0	-1.1122	ug/L	-1.1122	ppb	18:50:43
1	V 292.402†	-1468.9	-50.7	-0.3583	ug/L	-0.3583	ppb	18:50:43
1	Zn 213.857†	573.7	20.8	0.2024	ug/L	0.2024	ppb	18:51:03
1	SiO2†	626.5	80.3	5.5027	ug/L	5.5027	ppb	18:51:59
2	Sc Radial	4026.2	4026.2	94.7	%			18:49:51
2	Y RADIAL	4451.1	4451.1	94.86	%			18:49:51
2	Al 396.153Radial†	-131.0	-27.6	-25.003	ug/L	-25.003	ppb	18:49:51
2	Ca 317.933Radial†	17.4	2.9	5.7351	ug/L	5.7351	ppb	18:50:11
2	Fe 238.204 Radial†	11.6	2.1	27.154	ug/L	27.154	ppb	18:50:11
2	K 766.490 Radial†	2677.3	271.6	50.823	ug/L	50.823	ppb	18:49:51
2	Mg 279.077 IEC†	-1.5	-4.3	-194.78	ug/L	-194.78	ppb	18:50:11
2	Na 589.592 Radial†	-751.4	-53.4	-15.501	ug/L	-15.501	ppb	18:49:51
2	Sr 421.552†	21.8	-13.7	-0.0911	ug/L	-0.0911	ppb	18:49:51
2	Sc 361.383	887516.8	887516.8	98.606	%			18:51:08
2	Y 371.029	751755.2	751755.2	98.598	%			18:51:08
2	Ag 328.068†	179.0	-47.8	-0.2074	ug/L	-0.2074	ppb	18:51:08
2	As 188.979†	-24.3	-4.1	-1.8445	ug/L	-1.8445	ppb	18:51:28
2	B 249.677†	-451.9	-85.3	-2.0394	ug/L	-2.0394	ppb	18:51:28
2	Ba 233.527†	-4.3	4.8	0.0373	ug/L	0.0373	ppb	18:51:28
2	Be 313.107†	-3761.4	38.7	0.0142	ug/L	0.0142	ppb	18:51:08
2	Cd 226.502†	-187.9	-7.2	-0.0879	ug/L	-0.0879	ppb	18:51:28
2	Co 228.616†	-75.2	-14.3	-0.2996	ug/L	-0.2996	ppb	18:51:28
2	Cr 267.716†	65.9	0.9	0.0147	ug/L	0.0147	ppb	18:51:28
2	Cu 324.752†	6018.2	26.2	0.0838	ug/L	0.0838	ppb	18:51:08
2	Mn 257.610†	486.5	56.5	0.0740	ug/L	0.0740	ppb	18:51:28
2	Mo 202.031†	7.4	1.4	0.1054	ug/L	0.1054	ppb	18:51:28
2	Ni 231.604†	53.3	1.7	0.0435	ug/L	0.0435	ppb	18:51:28

2	P 214.914†	189.6	-9.7	-5.9385 ug/L	-5.9385 ppb	18:51:28
2	Pb 220.353†	-18.7	46.0	5.6969 ug/L	5.6969 ppb	18:51:28
2	S 181.975 Axial†	35.5	-1.1	-1.5433 ug/L	-1.5433 ppb	18:51:28
2	Sb 206.836†	44.9	8.8	3.0688 ug/L	3.0688 ppb	18:51:28
2	Se 196.026†	-27.3	-7.0	-4.5416 ug/L	-4.5416 ppb	18:51:28
2	Si 251.611†	607.6	82.0	2.6291 ug/L	2.6291 ppb	18:51:28
2	Sn 189.927†	9.8	-0.5	-0.0858 ug/L	-0.0858 ppb	18:51:28
2	Ti 334.940†	-1335.3	-72.4	-0.0898 ug/L	-0.0898 ppb	18:51:08
2	Tl 190.801†	-32.6	-1.8	-0.5801 ug/L	-0.5801 ppb	18:51:28
2	U 409.014†	-3026.4	-252.9	-6.8377 ug/L	-6.8377 ppb	18:51:08
2	V 292.402†	-1466.5	-56.8	-0.4133 ug/L	-0.4133 ppb	18:51:08
2	Zn 213.857†	563.1	13.3	0.1292 ug/L	0.1292 ppb	18:51:28
2	SiO2†	620.8	78.1	5.3629 ug/L	5.3629 ppb	18:52:04
3	Sc Radial	4034.5	4034.5	94.9 %		18:50:16
3	Y RADIAL	4444.1	4444.1	94.71 %		18:50:16
3	Al 396.153Radial†	-133.8	-30.3	-27.475 ug/L	-27.475 ppb	18:50:16
3	Ca 317.933Radial†	25.5	11.4	22.756 ug/L	22.756 ppb	18:50:36
3	Fe 238.204 Radial†	11.1	1.5	19.868 ug/L	19.868 ppb	18:50:36
3	K 766.490 Radial†	2432.6	7.8	1.4593 ug/L	1.4593 ppb	18:50:16
3	Mg 279.077 IEC†	4.0	1.4	65.333 ug/L	65.333 ppb	18:50:36
3	Na 589.592 Radial†	-729.9	-29.2	-8.4647 ug/L	-8.4647 ppb	18:50:16
3	Sr 421.552†	19.9	-15.8	-0.1047 ug/L	-0.1047 ppb	18:50:16
3	Sc 361.383	889928.6	889928.6	98.874 %		18:51:33
3	Y 371.029	752888.1	752888.1	98.747 %		18:51:33
3	Ag 328.068†	215.6	-11.3	-0.0465 ug/L	-0.0465 ppb	18:51:33
3	As 188.979†	-24.2	-3.9	-1.7611 ug/L	-1.7611 ppb	18:51:53
3	B 249.677†	-440.3	-72.3	-1.7296 ug/L	-1.7296 ppb	18:51:53
3	Ba 233.527†	0.8	9.9	0.0769 ug/L	0.0769 ppb	18:51:53
3	Be 313.107†	-3854.4	-45.1	-0.0172 ug/L	-0.0172 ppb	18:51:33
3	Cd 226.502†	-170.3	11.1	0.1258 ug/L	0.1258 ppb	18:51:53
3	Co 228.616†	-53.3	8.0	0.1678 ug/L	0.1678 ppb	18:51:53
3	Cr 267.716†	52.2	-13.2	-0.1455 ug/L	-0.1455 ppb	18:51:53
3	Cu 324.752†	6008.5	-0.2	0.0016 ug/L	0.0016 ppb	18:51:33
3	Mn 257.610†	467.7	36.2	0.0399 ug/L	0.0399 ppb	18:51:53
3	Mo 202.031†	6.1	0.1	0.0088 ug/L	0.0088 ppb	18:51:53
3	Ni 231.604†	48.4	-3.4	-0.0855 ug/L	-0.0855 ppb	18:51:53
3	P 214.914†	206.9	7.3	4.3875 ug/L	4.3875 ppb	18:51:53
3	Pb 220.353†	-15.8	49.1	6.0703 ug/L	6.0703 ppb	18:51:53
3	S 181.975 Axial†	37.0	0.4	0.5876 ug/L	0.5876 ppb	18:51:53
3	Sb 206.836†	33.9	-2.4	-0.8210 ug/L	-0.8210 ppb	18:51:53
3	Se 196.026†	-23.6	-3.2	-2.0495 ug/L	-2.0495 ppb	18:51:53
3	Si 251.611†	614.6	87.5	2.8066 ug/L	2.8066 ppb	18:51:53
3	Sn 189.927†	13.7	3.5	0.6279 ug/L	0.6279 ppb	18:51:53
3	Ti 334.940†	-1390.9	-124.9	-0.1901 ug/L	-0.1901 ppb	18:51:33
3	Tl 190.801†	-30.3	0.6	0.1795 ug/L	0.1795 ppb	18:51:53
3	U 409.014†	-2868.7	-85.1	-2.3004 ug/L	-2.3004 ppb	18:51:33
3	V 292.402†	-1491.1	-77.7	-0.5450 ug/L	-0.5450 ppb	18:51:33
3	Zn 213.857†	565.0	13.7	0.1350 ug/L	0.1350 ppb	18:51:53
3	SiO2†	574.3	29.3	2.0129 ug/L	2.0129 ppb	18:52:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	890022.5	98.884	%	0.2837				0.29%
Sc Radial	4060.4	95.5	%	1.22				1.28%
Y 371.029	753687.1	98.852	%	0.3190				0.32%
Y RADIAL	4491.4	95.72	%	1.621				1.69%
Ag 328.068†	-17.3	-0.0694	ug/L	0.12802	-0.0694	ppb	0.12802	184.33%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-18.9	-17.107	ug/L	15.8656	-17.107	ppb	15.8656	92.75%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.9	-1.7544	ug/L	0.09358	-1.7544	ppb	0.09358	5.33%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-67.3	-1.6094	ug/L	0.50106	-1.6094	ppb	0.50106	31.13%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	11.1	0.0869	ug/L	0.05521	0.0869	ppb	0.05521	63.56%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	13.8	0.0049	ug/L	0.01921	0.0049	ppb	0.01921	394.66%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	7.4	14.783	ug/L	8.5611	14.783	ppb	8.5611	57.91%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                -1.9     -0.0260 ug/L       0.13223     -0.0260 ppb        0.13223 508.74%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                -7.9     -0.1640 ug/L       0.28896     -0.1640 ppb        0.28896 176.20%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -0.0      0.0032 ug/L       0.14326      0.0032 ppb        0.14326 >999.9%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                24.4      0.0768 ug/L       0.07191      0.0768 ppb        0.07191  93.65%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          2.3     29.212 ug/L       10.5253     29.212 ppb        10.5253  36.03%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         157.2     29.410 ug/L       25.3229     29.410 ppb        25.3229  86.10%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -2.7    -124.45 ug/L      166.183    -124.45 ppb       166.183 133.53%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                54.1      0.0687 ug/L       0.02648      0.0687 ppb        0.02648  38.57%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 2.5      0.1873 ug/L       0.23055      0.1873 ppb        0.23055 123.11%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -56.2    -16.322 ug/L        8.2980    -16.322 ppb         8.2980  50.84%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -0.1     -0.0025 ug/L       0.07204     -0.0025 ppb        0.07204 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -1.7     -1.0749 ug/L       5.18899     -1.0749 ppb        5.18899 482.72%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                50.0      6.1948 ug/L       0.57040      6.1948 ppb        0.57040   9.21%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -0.3     -0.5055 ug/L       1.06653     -0.5055 ppb        1.06653 211.00%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 5.3      1.8688 ug/L       2.33390      1.8688 ppb        2.33390 124.89%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -4.0     -2.5524 ug/L       1.79151     -2.5524 ppb        1.79151  70.19%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                67.1      2.1500 ug/L       0.98750      2.1500 ppb        0.98750  45.93%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 1.4      0.2515 ug/L       0.35848      0.2515 ppb        0.35848 142.56%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -15.7     -0.1042 ug/L       0.01285     -0.1042 ppb        0.01285  12.33%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -85.3     -0.1153 ug/L       0.06586     -0.1153 ppb        0.06586  57.11%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.6      0.5122 ug/L       1.29129      0.5122 ppb        1.29129 252.10%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -126.3     -3.4168 ug/L       3.02160     -3.4168 ppb        3.02160  88.43%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -61.7     -0.4388 ug/L       0.09593     -0.4388 ppb        0.09593  21.86%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                15.9      0.1555 ug/L       0.04072      0.1555 ppb        0.04072  26.18%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      62.6      4.2929 ug/L       1.97570      4.2929 ppb        1.97570  46.02%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 18
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/23/2010 19:55:43
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4089.7	4089.7	96.1	%			19:57:35
1	Y RADIAL	4464.9	4464.9	95.16	%			19:57:35
1	Al 396.153Radial†	5293.8	5616.7	5061.9	ug/L	5061.9	ppb	19:57:35
1	Ca 317.933Radial†	2545.3	2631.9	5236.3	ug/L	5236.3	ppb	19:57:55
1	Fe 238.204 Radial†	391.3	396.8	5127.8	ug/L	5127.8	ppb	19:57:55
1	K 766.490 Radial†	28830.9	27429.4	5125.2	ug/L	5125.2	ppb	19:57:35
1	Mg 279.077 IEC†	112.2	114.0	5179.3	ug/L	5179.3	ppb	19:57:55
1	Na 589.592 Radial†	32871.4	34928.9	10136	ug/L	10136	ppb	19:57:35
1	Sr 421.552†	72793.3	75673.3	501.51	ug/L	501.51	ppb	19:57:35
1	Sc 361.383	887119.7	887119.7	98.562	%			19:58:52
1	Y 371.029	738907.0	738907.0	96.913	%			19:58:52
1	Ag 328.068†	110727.6	112113.8	518.03	ug/L	518.03	ppb	19:58:57
1	As 188.979†	1112.6	1149.4	522.40	ug/L	522.40	ppb	19:59:18
1	B 249.677†	20297.6	20966.7	498.06	ug/L	498.06	ppb	19:58:57
1	Ba 233.527†	64935.7	65892.3	515.97	ug/L	515.97	ppb	19:58:57
1	Be 313.107†	1318190.4	1341276.5	500.99	ug/L	500.99	ppb	19:58:52
1	Cd 226.502†	44237.3	45066.0	522.99	ug/L	522.99	ppb	19:58:57
1	Co 228.616†	24449.1	24867.8	520.02	ug/L	520.02	ppb	19:58:57
1	Cr 267.716†	45372.4	45968.4	516.59	ug/L	516.59	ppb	19:58:57
1	Cu 324.752†	172144.8	168579.3	506.22	ug/L	506.22	ppb	19:58:57
1	Mn 257.610†	441538.2	447543.6	502.07	ug/L	502.07	ppb	19:58:52
1	Mo 202.031†	6902.2	6996.9	512.51	ug/L	512.51	ppb	19:59:18
1	Ni 231.604†	20227.1	20469.9	519.99	ug/L	519.99	ppb	19:58:57
1	P 214.914†	4406.0	4268.2	2491.4	ug/L	2491.4	ppb	19:59:18
1	Pb 220.353†	4083.8	4208.4	523.02	ug/L	523.02	ppb	19:59:18
1	S 181.975 Axial†	741.5	715.3	1046.9	ug/L	1046.9	ppb	19:59:18
1	Sb 206.836†	1492.2	1477.2	533.52	ug/L	533.52	ppb	19:59:18
1	Se 196.026†	748.4	780.0	531.77	ug/L	531.77	ppb	19:59:18
1	Si 251.611†	79728.9	80358.0	2571.6	ug/L	2571.6	ppb	19:58:57
1	Sn 189.927†	2842.4	2873.4	520.47	ug/L	520.47	ppb	19:59:18
1	Ti 334.940†	323938.6	329946.8	498.90	ug/L	498.90	ppb	19:58:57
1	Tl 190.801†	1546.6	1600.4	516.88	ug/L	516.88	ppb	19:59:18
1	U 409.014†	15463.4	18505.3	498.29	ug/L	498.29	ppb	19:58:57
1	V 292.402†	71076.3	73543.7	517.41	ug/L	517.41	ppb	19:58:57
1	Zn 213.857†	51650.2	51846.1	515.47	ug/L	515.47	ppb	19:58:57
1	SiO2†	77607.3	78188.1	5358.2	ug/L	5358.2	ppb	20:00:25
2	Sc Radial	4010.2	4010.2	94.3	%			19:58:00
2	Y RADIAL	4409.9	4409.9	93.99	%			19:58:00
2	Al 396.153Radial†	5198.9	5625.0	5069.8	ug/L	5069.8	ppb	19:58:00
2	Ca 317.933Radial†	2537.3	2675.8	5323.8	ug/L	5323.8	ppb	19:58:20
2	Fe 238.204 Radial†	393.8	407.5	5264.8	ug/L	5264.8	ppb	19:58:20
2	K 766.490 Radial†	28370.0	27534.5	5144.8	ug/L	5144.8	ppb	19:58:00
2	Mg 279.077 IEC†	114.7	118.9	5401.9	ug/L	5401.9	ppb	19:58:20
2	Na 589.592 Radial†	32200.2	34894.1	10126	ug/L	10126	ppb	19:58:00
2	Sr 421.552†	71627.1	75936.0	503.25	ug/L	503.25	ppb	19:58:00
2	Sc 361.383	899002.7	899002.7	99.882	%			19:59:23
2	Y 371.029	748358.9	748358.9	98.153	%			19:59:23
2	Ag 328.068†	108729.4	108628.3	502.02	ug/L	502.02	ppb	19:59:29
2	As 188.979†	1105.4	1127.2	512.32	ug/L	512.32	ppb	19:59:49
2	B 249.677†	19847.4	20243.7	480.83	ug/L	480.83	ppb	19:59:29
2	Ba 233.527†	63927.3	64011.8	501.25	ug/L	501.25	ppb	19:59:29
2	Be 313.107†	1335072.9	1340501.0	500.67	ug/L	500.67	ppb	19:59:23
2	Cd 226.502†	43575.6	43810.3	508.39	ug/L	508.39	ppb	19:59:29
2	Co 228.616†	24112.6	24203.0	506.13	ug/L	506.13	ppb	19:59:29
2	Cr 267.716†	44716.1	44702.9	502.39	ug/L	502.39	ppb	19:59:29
2	Cu 324.752†	168670.6	162792.4	488.86	ug/L	488.86	ppb	19:59:29
2	Mn 257.610†	446724.8	446814.9	501.26	ug/L	501.26	ppb	19:59:23
2	Mo 202.031†	6909.3	6911.4	506.27	ug/L	506.27	ppb	19:59:49
2	Ni 231.604†	19984.3	19955.6	506.92	ug/L	506.92	ppb	19:59:29

2	P 214.914†	4390.0	4193.1	2449.1 ug/L	2449.1 ppb	19:59:49
2	Pb 220.353†	4103.6	4173.5	518.67 ug/L	518.67 ppb	19:59:49
2	S 181.975 Axial†	737.3	701.1	1026.1 ug/L	1026.1 ppb	19:59:49
2	Sb 206.836†	1489.5	1454.5	525.39 ug/L	525.39 ppb	19:59:49
2	Se 196.026†	740.9	762.5	520.59 ug/L	520.59 ppb	19:59:49
2	Si 251.611†	78306.1	77864.3	2491.7 ug/L	2491.7 ppb	19:59:29
2	Sn 189.927†	2847.3	2840.2	514.47 ug/L	514.47 ppb	19:59:49
2	Ti 334.940†	318402.8	320060.2	483.95 ug/L	483.95 ppb	19:59:29
2	Tl 190.801†	1541.5	1574.5	508.55 ug/L	508.55 ppb	19:59:49
2	U 409.014†	14952.5	17786.4	478.88 ug/L	478.88 ppb	19:59:29
2	V 292.402†	69928.0	71440.9	502.70 ug/L	502.70 ppb	19:59:29
2	Zn 213.857†	50786.0	50288.2	499.92 ug/L	499.92 ppb	19:59:29
2	SiO2†	79343.6	78885.7	5406.3 ug/L	5406.3 ppb	20:00:30
3	Sc Radial	4054.7	4054.7	95.3 %		19:58:25
3	Y RADIAL	4421.6	4421.6	94.24 %		19:58:25
3	Al 396.153Radial†	5296.3	5666.9	5107.9 ug/L	5107.9 ppb	19:58:25
3	Ca 317.933Radial†	2522.8	2631.1	5234.8 ug/L	5234.8 ppb	19:58:45
3	Fe 238.204 Radial†	390.9	399.8	5166.4 ug/L	5166.4 ppb	19:58:45
3	K 766.490 Radial†	28846.6	27704.9	5176.7 ug/L	5176.7 ppb	19:58:25
3	Mg 279.077 IEC†	115.4	118.3	5377.0 ug/L	5377.0 ppb	19:58:45
3	Na 589.592 Radial†	32850.9	35202.6	10216 ug/L	10216 ppb	19:58:25
3	Sr 421.552†	73176.8	76729.5	508.51 ug/L	508.51 ppb	19:58:25
3	Sc 361.383	907783.5	907783.5	100.86 %		19:59:54
3	Y 371.029	755254.2	755254.2	99.057 %		19:59:54
3	Ag 328.068†	109419.7	108259.8	500.29 ug/L	500.29 ppb	20:00:00
3	As 188.979†	1109.6	1120.7	509.34 ug/L	509.34 ppb	20:00:20
3	B 249.677†	20120.2	20322.0	482.72 ug/L	482.72 ppb	20:00:00
3	Ba 233.527†	64214.0	63677.0	498.63 ug/L	498.63 ppb	20:00:00
3	Be 313.107†	1346634.3	1339035.0	500.12 ug/L	500.12 ppb	19:59:54
3	Cd 226.502†	43823.8	43634.4	506.35 ug/L	506.35 ppb	20:00:00
3	Co 228.616†	24145.6	24002.1	501.93 ug/L	501.93 ppb	20:00:00
3	Cr 267.716†	44930.1	44482.1	499.90 ug/L	499.90 ppb	20:00:00
3	Cu 324.752†	169850.0	162328.4	487.46 ug/L	487.46 ppb	20:00:00
3	Mn 257.610†	450104.4	445839.6	500.16 ug/L	500.16 ppb	19:59:54
3	Mo 202.031†	6903.8	6839.0	500.96 ug/L	500.96 ppb	20:00:20
3	Ni 231.604†	20057.0	19834.1	503.84 ug/L	503.84 ppb	20:00:00
3	P 214.914†	4389.7	4150.3	2423.5 ug/L	2423.5 ppb	20:00:20
3	Pb 220.353†	4077.2	4107.6	510.51 ug/L	510.51 ppb	20:00:20
3	S 181.975 Axial†	735.0	691.7	1012.4 ug/L	1012.4 ppb	20:00:20
3	Sb 206.836†	1488.0	1438.6	519.67 ug/L	519.67 ppb	20:00:20
3	Se 196.026†	740.3	754.7	515.18 ug/L	515.18 ppb	20:00:20
3	Si 251.611†	78653.6	77450.6	2478.4 ug/L	2478.4 ppb	20:00:00
3	Sn 189.927†	2852.0	2817.3	510.31 ug/L	510.31 ppb	20:00:20
3	Ti 334.940†	319864.7	318426.2	481.47 ug/L	481.47 ppb	20:00:00
3	Tl 190.801†	1552.5	1570.5	507.24 ug/L	507.24 ppb	20:00:20
3	U 409.014†	15005.3	17694.0	476.40 ug/L	476.40 ppb	20:00:00
3	V 292.402†	70248.0	71081.0	500.13 ug/L	500.13 ppb	20:00:00
3	Zn 213.857†	51065.6	50073.6	497.81 ug/L	497.81 ppb	20:00:00
3	SiO2†	78385.4	77167.2	5288.4 ug/L	5288.4 ppb	20:00:35

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	897968.6	99.767	%	1.1522				1.15%
Sc Radial	4051.5	95.3	%	0.94				0.98%
Y 371.029	747506.7	98.041	%	1.0764				1.10%
Y RADIAL	4432.2	94.46	%	0.617				0.65%
Ag 328.068†	109667.3	506.78	ug/L	9.780	506.78	ppb	9.780	1.93%
QC value within limits for Ag 328.068 Recovery = 101.36%								
Al 396.153Radial†	5636.2	5079.9	ug/L	24.62	5079.9	ppb	24.62	0.48%
QC value within limits for Al 396.153Radial Recovery = 101.60%								
As 188.979†	1132.4	514.69	ug/L	6.842	514.69	ppb	6.842	1.33%
QC value within limits for As 188.979 Recovery = 102.94%								
B 249.677†	20510.8	487.20	ug/L	9.452	487.20	ppb	9.452	1.94%
QC value within limits for B 249.677 Recovery = 97.44%								
Ba 233.527†	64527.0	505.28	ug/L	9.346	505.28	ppb	9.346	1.85%
QC value within limits for Ba 233.527 Recovery = 101.06%								
Be 313.107†	1340270.9	500.59	ug/L	0.442	500.59	ppb	0.442	0.09%
QC value within limits for Be 313.107 Recovery = 100.12%								
Ca 317.933Radial†	2646.2	5265.0	ug/L	50.94	5265.0	ppb	50.94	0.97%

```
   QC value within limits for Ca 317.933Radial  Recovery = 105.30%
Cd 226.502†          44170.3      512.58 ug/L        9.075      512.58 ppb        9.075   1.77%
   QC value within limits for Cd 226.502  Recovery = 102.52%
Co 228.616†          24357.6      509.36 ug/L        9.467      509.36 ppb        9.467   1.86%
   QC value within limits for Co 228.616  Recovery = 101.87%
Cr 267.716†          45051.1      506.29 ug/L        9.000      506.29 ppb        9.000   1.78%
   QC value within limits for Cr 267.716  Recovery = 101.26%
Cu 324.752†         164566.7      494.18 ug/L       10.449      494.18 ppb       10.449   2.11%
   QC value within limits for Cu 324.752  Recovery = 98.84%
Fe 238.204 Radial†     401.4      5186.3 ug/L       70.63      5186.3 ppb        70.63   1.36%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.73%
K 766.490 Radial†    27556.2      5148.9 ug/L       26.00      5148.9 ppb        26.00   0.51%
   QC value within limits for K 766.490 Radial  Recovery = 102.98%
Mg 279.077 IEC†        117.0      5319.4 ug/L      121.98      5319.4 ppb       121.98   2.29%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.39%
Mn 257.610†         446732.7      501.16 ug/L        0.961      501.16 ppb        0.961   0.19%
   QC value within limits for Mn 257.610  Recovery = 100.23%
Mo 202.031†          6915.8      506.58 ug/L        5.781      506.58 ppb        5.781   1.14%
   QC value within limits for Mo 202.031  Recovery = 101.32%
Na 589.592 Radial†   35008.6       10160 ug/L         49.0       10160 ppb         49.0   0.48%
   QC value within limits for Na 589.592 Radial  Recovery = 101.60%
Ni 231.604†          20086.5      510.25 ug/L        8.574      510.25 ppb        8.574   1.68%
   QC value within limits for Ni 231.604  Recovery = 102.05%
P 214.914†            4203.9      2454.7 ug/L       34.31      2454.7 ppb        34.31   1.40%
   QC value within limits for P 214.914  Recovery = 98.19%
Pb 220.353†           4163.2      517.40 ug/L        6.349      517.40 ppb        6.349   1.23%
   QC value within limits for Pb 220.353  Recovery = 103.48%
S 181.975 Axial†       702.7      1028.5 ug/L       17.41      1028.5 ppb        17.41   1.69%
   QC value within limits for S 181.975 Axial  Recovery = 102.85%
Sb 206.836†           1456.8      526.19 ug/L        6.961      526.19 ppb        6.961   1.32%
   QC value within limits for Sb 206.836  Recovery = 105.24%
Se 196.026†            765.7      522.51 ug/L        8.461      522.51 ppb        8.461   1.62%
   QC value within limits for Se 196.026  Recovery = 104.50%
Si 251.611†          78557.6      2513.9 ug/L       50.39      2513.9 ppb        50.39   2.00%
   QC value within limits for Si 251.611  Recovery = 100.56%
Sn 189.927†           2843.6      515.08 ug/L        5.106      515.08 ppb        5.106   0.99%
   QC value within limits for Sn 189.927  Recovery = 103.02%
Sr 421.552†          76112.9      504.43 ug/L        3.645      504.43 ppb        3.645   0.72%
   QC value within limits for Sr 421.552  Recovery = 100.89%
Ti 334.940†         322811.1      488.11 ug/L        9.426      488.11 ppb        9.426   1.93%
   QC value within limits for Ti 334.940  Recovery = 97.62%
Tl 190.801†           1581.8      510.89 ug/L        5.230      510.89 ppb        5.230   1.02%
   QC value within limits for Tl 190.801  Recovery = 102.18%
U 409.014†           17995.2      484.52 ug/L       11.986      484.52 ppb       11.986   2.47%
   QC value within limits for U 409.014  Recovery = 96.90%
V 292.402†           72021.9      506.75 ug/L        9.326      506.75 ppb        9.326   1.84%
   QC value within limits for V 292.402  Recovery = 101.35%
Zn 213.857†          50736.0      504.40 ug/L        9.645      504.40 ppb        9.645   1.91%
   QC value within limits for Zn 213.857  Recovery = 100.88%
SiO2†                78080.4      5351.0 ug/L       59.30      5351.0 ppb        59.30   1.11%
   QC value within limits for SiO2  Recovery = 100.07%
All analyte(s) passed QC.
```

Sequence No.: 19
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/23/2010 20:02:45
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3933.6	3933.6	92.5	%			20:04:57
1	Y RADIAL	4486.8	4486.8	95.62	%			20:04:37
1	Al 396.153Radial†	-144.9	-45.9	-41.655	ug/L	-41.655	ppb	20:04:37
1	Ca 317.933Radial†	14.6	0.3	0.5996	ug/L	0.5996	ppb	20:04:57
1	Fe 238.204 Radial†	13.1	4.0	51.465	ug/L	51.465	ppb	20:04:57
1	K 766.490 Radial†	2712.9	376.7	70.486	ug/L	70.486	ppb	20:04:37
1	Mg 279.077 IEC†	1.9	-0.7	-32.088	ug/L	-32.088	ppb	20:04:57
1	Na 589.592 Radial†	-726.9	-45.6	-13.243	ug/L	-13.243	ppb	20:04:37
1	Sr 421.552†	-0.2	-37.0	-0.2451	ug/L	-0.2451	ppb	20:04:37
1	Sc 361.383	916157.8	916157.8	101.79	%			20:05:54
1	Y 371.029	773781.7	773781.7	101.49	%			20:05:54
1	Ag 328.068†	240.9	7.4	0.0489	ug/L	0.0489	ppb	20:05:59
1	As 188.979†	-24.3	-3.4	-1.5144	ug/L	-1.5144	ppb	20:06:19
1	B 249.677†	-465.3	-84.2	-2.0154	ug/L	-2.0154	ppb	20:06:19
1	Ba 233.527†	-3.1	6.1	0.0484	ug/L	0.0484	ppb	20:06:19
1	Be 313.107†	-3889.6	32.0	0.0116	ug/L	0.0116	ppb	20:05:59
1	Cd 226.502†	-191.8	-5.2	-0.0652	ug/L	-0.0652	ppb	20:06:19
1	Co 228.616†	-87.6	-24.1	-0.5023	ug/L	-0.5023	ppb	20:06:19
1	Cr 267.716†	70.6	3.4	0.0423	ug/L	0.0423	ppb	20:06:19
1	Cu 324.752†	6184.2	-1.6	-0.0014	ug/L	-0.0014	ppb	20:05:59
1	Mn 257.610†	489.9	44.5	0.0562	ug/L	0.0562	ppb	20:06:19
1	Mo 202.031†	18.4	12.0	0.8837	ug/L	0.8837	ppb	20:06:19
1	Ni 231.604†	64.4	10.9	0.2776	ug/L	0.2776	ppb	20:06:19
1	P 214.914†	220.2	14.3	8.6383	ug/L	8.6383	ppb	20:06:19
1	Pb 220.353†	-36.0	29.6	3.6588	ug/L	3.6588	ppb	20:06:19
1	S 181.975 Axial†	33.8	-3.8	-5.5895	ug/L	-5.5895	ppb	20:06:19
1	Sb 206.836†	44.2	6.8	2.3621	ug/L	2.3621	ppb	20:06:19
1	Se 196.026†	-22.1	-1.0	-0.5120	ug/L	-0.5120	ppb	20:06:19
1	Si 251.611†	606.0	61.2	1.9513	ug/L	1.9513	ppb	20:06:19
1	Sn 189.927†	7.2	-3.3	-0.6035	ug/L	-0.6035	ppb	20:06:19
1	Ti 334.940†	-1409.0	-102.5	-0.1518	ug/L	-0.1518	ppb	20:05:59
1	Tl 190.801†	-37.3	-5.4	-1.7385	ug/L	-1.7385	ppb	20:06:19
1	U 409.014†	-2912.8	-45.4	-1.2322	ug/L	-1.2322	ppb	20:05:54
1	V 292.402†	-1525.0	-67.7	-0.4682	ug/L	-0.4682	ppb	20:05:59
1	Zn 213.857†	563.8	-3.8	-0.0476	ug/L	-0.0476	ppb	20:06:19
1	SiO2†	639.5	76.8	5.2535	ug/L	5.2535	ppb	20:07:25
2	Sc Radial	3937.4	3937.4	92.6	%			20:05:22
2	Y RADIAL	4423.5	4423.5	94.28	%			20:05:02
2	Al 396.153Radial†	-128.3	-27.9	-25.243	ug/L	-25.243	ppb	20:05:02
2	Ca 317.933Radial†	15.4	1.1	2.2634	ug/L	2.2634	ppb	20:05:22
2	Fe 238.204 Radial†	11.1	1.8	22.922	ug/L	22.922	ppb	20:05:22
2	K 766.490 Radial†	2754.1	418.5	78.298	ug/L	78.298	ppb	20:05:02
2	Mg 279.077 IEC†	4.3	1.9	85.876	ug/L	85.876	ppb	20:05:22
2	Na 589.592 Radial†	-755.5	-75.8	-22.010	ug/L	-22.010	ppb	20:05:02
2	Sr 421.552†	34.2	0.2	0.0014	ug/L	0.0014	ppb	20:05:02
2	Sc 361.383	899766.5	899766.5	99.967	%			20:06:24
2	Y 371.029	759001.3	759001.3	99.549	%			20:06:24
2	Ag 328.068†	157.5	-71.8	-0.3182	ug/L	-0.3182	ppb	20:06:29
2	As 188.979†	-16.2	4.3	1.9372	ug/L	1.9372	ppb	20:06:49
2	B 249.677†	-468.4	-95.6	-2.2861	ug/L	-2.2861	ppb	20:06:49
2	Ba 233.527†	2.8	11.9	0.0941	ug/L	0.0941	ppb	20:06:49
2	Be 313.107†	-3880.8	-28.8	-0.0112	ug/L	-0.0112	ppb	20:06:29
2	Cd 226.502†	-190.0	-6.8	-0.0818	ug/L	-0.0818	ppb	20:06:49
2	Co 228.616†	-62.3	-0.4	-0.0074	ug/L	-0.0074	ppb	20:06:49
2	Cr 267.716†	63.7	-2.2	-0.0210	ug/L	-0.0210	ppb	20:06:49
2	Cu 324.752†	6119.1	44.0	0.1359	ug/L	0.1359	ppb	20:06:29
2	Mn 257.610†	490.2	53.5	0.0587	ug/L	0.0587	ppb	20:06:49
2	Mo 202.031†	6.4	0.3	0.0251	ug/L	0.0251	ppb	20:06:49
2	Ni 231.604†	65.2	12.9	0.3279	ug/L	0.3279	ppb	20:06:49

2	P 214.914†	200.9	-1.1	-0.7034 ug/L	-0.7034 ppb	20:06:49
2	Pb 220.353†	-38.2	26.8	3.3132 ug/L	3.3132 ppb	20:06:49
2	S 181.975 Axial†	38.8	1.8	2.6424 ug/L	2.6424 ppb	20:06:49
2	Sb 206.836†	38.4	1.7	0.6033 ug/L	0.6033 ppb	20:06:49
2	Se 196.026†	-28.6	-7.9	-5.1441 ug/L	-5.1441 ppb	20:06:49
2	Si 251.611†	616.6	82.7	2.6513 ug/L	2.6513 ppb	20:06:49
2	Sn 189.927†	9.4	-1.0	-0.1820 ug/L	-0.1820 ppb	20:06:49
2	Ti 334.940†	-1420.9	-139.6	-0.2158 ug/L	-0.2158 ppb	20:06:29
2	Tl 190.801†	-34.9	-3.7	-1.1912 ug/L	-1.1912 ppb	20:06:49
2	U 409.014†	-2983.1	-167.8	-4.5367 ug/L	-4.5367 ppb	20:06:24
2	V 292.402†	-1407.5	22.5	0.1466 ug/L	0.1466 ppb	20:06:29
2	Zn 213.857†	576.2	18.7	0.1815 ug/L	0.1815 ppb	20:06:49
2	SiO2†	593.6	42.3	2.9032 ug/L	2.9032 ppb	20:07:30
3	Sc Radial	3954.2	3954.2	93.0 %		20:05:47
3	Y RADIAL	4413.6	4413.6	94.06 %		20:05:27
3	Al 396.153Radial†	-117.2	-15.3	-13.861 ug/L	-13.861 ppb	20:05:27
3	Ca 317.933Radial†	19.7	5.7	11.291 ug/L	11.291 ppb	20:05:47
3	Fe 238.204 Radial†	9.1	-0.4	-5.6494 ug/L	-5.6494 ppb	20:05:47
3	K 766.490 Radial†	2623.6	265.5	49.679 ug/L	49.679 ppb	20:05:27
3	Mg 279.077 IEC†	-2.0	-4.9	-221.97 ug/L	-221.97 ppb	20:05:47
3	Na 589.592 Radial†	-821.3	-143.1	-41.527 ug/L	-41.527 ppb	20:05:27
3	Sr 421.552†	18.9	-16.5	-0.1095 ug/L	-0.1095 ppb	20:05:27
3	Sc 361.383	906085.7	906085.7	100.67 %		20:06:54
3	Y 371.029	765417.0	765417.0	100.39 %		20:06:54
3	Ag 328.068†	303.9	72.6	0.3319 ug/L	0.3319 ppb	20:06:59
3	As 188.979†	-15.1	5.5	2.4776 ug/L	2.4776 ppb	20:07:19
3	B 249.677†	-450.7	-74.7	-1.7829 ug/L	-1.7829 ppb	20:07:19
3	Ba 233.527†	2.2	11.4	0.0883 ug/L	0.0883 ppb	20:07:19
3	Be 313.107†	-3932.1	-52.7	-0.0199 ug/L	-0.0199 ppb	20:06:59
3	Cd 226.502†	-187.6	-3.1	-0.0351 ug/L	-0.0351 ppb	20:07:19
3	Co 228.616†	-52.8	9.5	0.1996 ug/L	0.1996 ppb	20:07:19
3	Cr 267.716†	64.0	-2.4	-0.0272 ug/L	-0.0272 ppb	20:07:19
3	Cu 324.752†	6217.5	99.1	0.2980 ug/L	0.2980 ppb	20:06:59
3	Mn 257.610†	457.9	18.0	0.0287 ug/L	0.0287 ppb	20:07:19
3	Mo 202.031†	10.2	4.1	0.2962 ug/L	0.2962 ppb	20:07:19
3	Ni 231.604†	57.8	5.1	0.1295 ug/L	0.1295 ppb	20:07:19
3	P 214.914†	210.5	7.0	4.2130 ug/L	4.2130 ppb	20:07:19
3	Pb 220.353†	-36.9	28.4	3.5148 ug/L	3.5148 ppb	20:07:19
3	S 181.975 Axial†	40.2	2.9	4.1922 ug/L	4.1922 ppb	20:07:19
3	Sb 206.836†	42.3	5.4	1.8740 ug/L	1.8740 ppb	20:07:19
3	Se 196.026†	-22.7	-1.9	-1.2521 ug/L	-1.2521 ppb	20:07:19
3	Si 251.611†	618.8	80.5	2.5802 ug/L	2.5802 ppb	20:07:19
3	Sn 189.927†	10.6	0.1	0.0268 ug/L	0.0268 ppb	20:07:19
3	Ti 334.940†	-1365.8	-74.9	-0.0931 ug/L	-0.0931 ppb	20:06:59
3	Tl 190.801†	-29.0	2.4	0.7747 ug/L	0.7747 ppb	20:07:19
3	U 409.014†	-2887.3	-51.8	-1.3998 ug/L	-1.3998 ppb	20:06:54
3	V 292.402†	-1463.0	-22.8	-0.1602 ug/L	-0.1602 ppb	20:06:59
3	Zn 213.857†	577.2	15.7	0.1572 ug/L	0.1572 ppb	20:07:19
3	SiO2†	642.6	86.9	5.9599 ug/L	5.9599 ppb	20:07:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	907336.7	100.81	%	0.918				0.91%
Sc Radial	3941.7	92.7	%	0.26				0.28%
Y 371.029	766066.6	100.48	%	0.972				0.97%
Y RADIAL	4441.3	94.65	%	0.846				0.89%
Ag 328.068†	2.7	0.0209	ug/L	0.32597	0.0209	ppb	0.32597	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-29.7	-26.920	ug/L	13.9727	-26.920	ppb	13.9727	51.90%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	2.1	0.9668	ug/L	2.16566	0.9668	ppb	2.16566	224.00%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-84.8	-2.0281	ug/L	0.25185	-2.0281	ppb	0.25185	12.42%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	9.8	0.0769	ug/L	0.02485	0.0769	ppb	0.02485	32.32%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-16.5	-0.0065	ug/L	0.01626	-0.0065	ppb	0.01626	249.30%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.4	4.7180	ug/L	5.75289	4.7180	ppb	5.75289	121.93%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -5.0     -0.0607 ug/L       0.02369     -0.0607 ppb        0.02369  39.04%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†              -5.0     -0.1034 ug/L       0.36069     -0.1034 ppb        0.36069 348.95%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -0.4     -0.0020 ug/L       0.03847     -0.0020 ppb        0.03847 >999.9%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              47.2      0.1442 ug/L       0.14991      0.1442 ppb        0.14991 103.99%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        1.8      22.913 ug/L       28.5574      22.913 ppb        28.5574 124.64%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       353.6      66.154 ug/L       14.7926      66.154 ppb        14.7926  22.36%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†          -1.2     -56.062 ug/L      155.3189     -56.062 ppb       155.3189 277.05%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              38.7      0.0479 ug/L       0.01665      0.0479 ppb        0.01665  34.77%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               5.5      0.4017 ug/L       0.43893      0.4017 ppb        0.43893 109.27%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      -88.2     -25.594 ug/L       14.4787     -25.594 ppb        14.4787  56.57%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               9.6      0.2450 ug/L       0.10315      0.2450 ppb        0.10315  42.10%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                6.8      4.0493 ug/L       4.67303      4.0493 ppb        4.67303 115.40%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              28.3      3.4956 ug/L       0.17359      3.4956 ppb        0.17359   4.97%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          0.3      0.4150 ug/L       5.25751      0.4150 ppb        5.25751 >999.9%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               4.6      1.6131 ug/L       0.90795      1.6131 ppb        0.90795  56.29%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -3.6     -2.3027 ug/L       2.48836     -2.3027 ppb        2.48836 108.06%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              74.8      2.3943 ug/L       0.38528      2.3943 ppb        0.38528  16.09%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -1.4     -0.2529 ug/L       0.32108     -0.2529 ppb        0.32108 126.96%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†             -17.8     -0.1177 ug/L       0.12346     -0.1177 ppb        0.12346 104.85%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†            -105.7     -0.1536 ug/L       0.06140     -0.1536 ppb        0.06140  39.99%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -2.2     -0.7183 ug/L       1.32163     -0.7183 ppb        1.32163 183.98%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              -88.3     -2.3896 ug/L       1.86139     -2.3896 ppb        1.86139  77.90%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†              -22.7     -0.1606 ug/L       0.30735     -0.1606 ppb        0.30735 191.37%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              10.2      0.0971 ug/L       0.12582      0.0971 ppb        0.12582 129.64%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    68.6      4.7056 ug/L       1.60032      4.7056 ppb        1.60032  34.01%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 29
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/23/2010 21:12:40
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4104.2	4104.2	96.5	%			21:14:32
1	Y RADIAL	4529.0	4529.0	96.53	%			21:14:32
1	Al 396.153Radial†	5440.5	5749.3	5181.8	ug/L	5181.8	ppb	21:14:32
1	Ca 317.933Radial†	2546.7	2623.9	5220.6	ug/L	5220.6	ppb	21:14:52
1	Fe 238.204 Radial†	376.7	380.2	4913.9	ug/L	4913.9	ppb	21:14:52
1	K 766.490 Radial†	29643.3	28165.2	5262.7	ug/L	5262.7	ppb	21:14:32
1	Mg 279.077 IEC†	115.6	117.0	5318.7	ug/L	5318.7	ppb	21:14:52
1	Na 589.592 Radial†	33775.5	35744.8	10373	ug/L	10373	ppb	21:14:32
1	Sr 421.552†	74441.8	77113.6	511.06	ug/L	511.06	ppb	21:14:32
1	Sc 361.383	894540.6	894540.6	99.386	%			21:15:50
1	Y 371.029	742791.9	742791.9	97.423	%			21:15:50
1	Ag 328.068†	109112.5	109556.8	506.19	ug/L	506.19	ppb	21:15:55
1	As 188.979†	1120.1	1147.5	521.51	ug/L	521.51	ppb	21:16:15
1	B 249.677†	19899.1	20394.9	484.47	ug/L	484.47	ppb	21:15:55
1	Ba 233.527†	64703.0	65111.6	509.84	ug/L	509.84	ppb	21:15:55
1	Be 313.107†	1332006.0	1344082.6	502.04	ug/L	502.04	ppb	21:15:50
1	Cd 226.502†	43973.5	44428.3	515.60	ug/L	515.60	ppb	21:15:55
1	Co 228.616†	24284.8	24496.6	512.27	ug/L	512.27	ppb	21:15:55
1	Cr 267.716†	44987.1	45198.8	507.93	ug/L	507.93	ppb	21:15:55
1	Cu 324.752†	169044.2	164010.7	492.50	ug/L	492.50	ppb	21:15:55
1	Mn 257.610†	447279.7	449604.2	504.36	ug/L	504.36	ppb	21:15:50
1	Mo 202.031†	6996.8	7033.9	515.20	ug/L	515.20	ppb	21:16:15
1	Ni 231.604†	20104.6	20176.4	512.53	ug/L	512.53	ppb	21:15:55
1	P 214.914†	4470.1	4295.6	2511.0	ug/L	2511.0	ppb	21:16:15
1	Pb 220.353†	4146.5	4237.1	526.63	ug/L	526.63	ppb	21:16:15
1	S 181.975 Axial†	756.4	724.1	1059.7	ug/L	1059.7	ppb	21:16:15
1	Sb 206.836†	1502.8	1475.4	532.98	ug/L	532.98	ppb	21:16:15
1	Se 196.026†	763.2	788.6	536.77	ug/L	536.77	ppb	21:16:15
1	Si 251.611†	78712.3	78664.1	2517.2	ug/L	2517.2	ppb	21:15:55
1	Sn 189.927†	2894.4	2901.9	525.62	ug/L	525.62	ppb	21:16:15
1	Ti 334.940†	326805.8	330105.2	499.13	ug/L	499.13	ppb	21:15:50
1	Tl 190.801†	1566.7	1607.6	519.26	ug/L	519.26	ppb	21:16:15
1	U 409.014†	14809.8	17717.5	477.05	ug/L	477.05	ppb	21:15:55
1	V 292.402†	70143.2	72006.7	506.78	ug/L	506.78	ppb	21:15:55
1	Zn 213.857†	51199.3	50957.6	506.65	ug/L	506.65	ppb	21:15:55
1	SiO2†	78547.5	78480.9	5378.3	ug/L	5378.3	ppb	21:17:23
2	Sc Radial	4113.8	4113.8	96.7	%			21:14:57
2	Y RADIAL	4481.0	4481.0	95.50	%			21:14:57
2	Al 396.153Radial†	5405.5	5699.8	5137.2	ug/L	5137.2	ppb	21:14:57
2	Ca 317.933Radial†	2572.0	2643.9	5260.2	ug/L	5260.2	ppb	21:15:17
2	Fe 238.204 Radial†	388.1	391.1	5053.9	ug/L	5053.9	ppb	21:15:17
2	K 766.490 Radial†	29500.9	27946.0	5221.8	ug/L	5221.8	ppb	21:14:57
2	Mg 279.077 IEC†	118.4	119.7	5440.8	ug/L	5440.8	ppb	21:15:17
2	Na 589.592 Radial†	33389.5	35263.7	10234	ug/L	10234	ppb	21:14:57
2	Sr 421.552†	73604.7	76067.5	504.13	ug/L	504.13	ppb	21:14:57
2	Sc 361.383	899290.6	899290.6	99.914	%			21:16:21
2	Y 371.029	747105.5	747105.5	97.988	%			21:16:21
2	Ag 328.068†	110572.6	110438.3	510.29	ug/L	510.29	ppb	21:16:26
2	As 188.979†	1134.3	1155.8	525.26	ug/L	525.26	ppb	21:16:46
2	B 249.677†	20299.4	20689.8	491.48	ug/L	491.48	ppb	21:16:26
2	Ba 233.527†	65208.7	65273.9	511.12	ug/L	511.12	ppb	21:16:26
2	Be 313.107†	1341517.0	1346522.8	502.95	ug/L	502.95	ppb	21:16:21
2	Cd 226.502†	44465.2	44686.7	518.59	ug/L	518.59	ppb	21:16:26
2	Co 228.616†	24505.8	24588.8	514.18	ug/L	514.18	ppb	21:16:26
2	Cr 267.716†	45554.1	45527.2	511.63	ug/L	511.63	ppb	21:16:26
2	Cu 324.752†	171749.1	165819.5	497.94	ug/L	497.94	ppb	21:16:26
2	Mn 257.610†	449791.8	449741.4	504.52	ug/L	504.52	ppb	21:16:21
2	Mo 202.031†	6983.7	6983.7	511.54	ug/L	511.54	ppb	21:16:46
2	Ni 231.604†	20313.5	20278.6	515.13	ug/L	515.13	ppb	21:16:26

2	P 214.914†	4482.4	4284.2	2502.8 ug/L	2502.8 ppb	21:16:46
2	Pb 220.353†	4145.3	4213.9	523.72 ug/L	523.72 ppb	21:16:46
2	S 181.975 Axial†	756.1	719.7	1053.3 ug/L	1053.3 ppb	21:16:46
2	Sb 206.836†	1512.5	1477.1	533.43 ug/L	533.43 ppb	21:16:46
2	Se 196.026†	754.1	775.4	528.51 ug/L	528.51 ppb	21:16:46
2	Si 251.611†	79759.9	79294.3	2537.5 ug/L	2537.5 ppb	21:16:26
2	Sn 189.927†	2884.2	2876.3	520.99 ug/L	520.99 ppb	21:16:46
2	Ti 334.940†	328571.5	330135.6	499.17 ug/L	499.17 ppb	21:16:21
2	Tl 190.801†	1559.0	1591.5	514.10 ug/L	514.10 ppb	21:16:46
2	U 409.014†	15070.7	17899.9	481.95 ug/L	481.95 ppb	21:16:26
2	V 292.402†	71026.2	72517.6	510.26 ug/L	510.26 ppb	21:16:26
2	Zn 213.857†	51728.8	51215.5	509.20 ug/L	509.20 ppb	21:16:26
2	SiO2†	79084.3	78600.7	5386.6 ug/L	5386.6 ppb	21:17:28
3	Sc Radial	4069.3	4069.3	95.7 %		21:15:22
3	Y RADIAL	4512.8	4512.8	96.18 %		21:15:22
3	Al 396.153Radial†	5359.4	5712.9	5149.3 ug/L	5149.3 ppb	21:15:22
3	Ca 317.933Radial†	2536.1	2635.5	5243.6 ug/L	5243.6 ppb	21:15:42
3	Fe 238.204 Radial†	378.5	385.4	4980.6 ug/L	4980.6 ppb	21:15:42
3	K 766.490 Radial†	29457.6	28234.7	5275.8 ug/L	5275.8 ppb	21:15:22
3	Mg 279.077 IEC†	112.8	115.2	5236.1 ug/L	5236.1 ppb	21:15:42
3	Na 589.592 Radial†	33477.2	35733.5	10370 ug/L	10370 ppb	21:15:22
3	Sr 421.552†	73505.7	76797.5	508.96 ug/L	508.96 ppb	21:15:22
3	Sc 361.383	905610.0	905610.0	100.62 %		21:16:52
3	Y 371.029	751059.0	751059.0	98.507 %		21:16:52
3	Ag 328.068†	109011.5	108114.4	499.57 ug/L	499.57 ppb	21:16:57
3	As 188.979†	1113.0	1126.7	512.19 ug/L	512.19 ppb	21:17:18
3	B 249.677†	19952.3	20203.0	479.90 ug/L	479.90 ppb	21:16:57
3	Ba 233.527†	64593.3	64206.8	502.76 ug/L	502.76 ppb	21:16:57
3	Be 313.107†	1349324.8	1344913.6	502.35 ug/L	502.35 ppb	21:16:52
3	Cd 226.502†	44108.5	44021.7	510.87 ug/L	510.87 ppb	21:16:57
3	Co 228.616†	24380.2	24292.8	507.98 ug/L	507.98 ppb	21:16:57
3	Cr 267.716†	45097.4	44755.2	502.95 ug/L	502.95 ppb	21:16:57
3	Cu 324.752†	168887.3	161775.7	485.80 ug/L	485.80 ppb	21:16:57
3	Mn 257.610†	453289.6	450076.4	504.90 ug/L	504.90 ppb	21:16:52
3	Mo 202.031†	6962.8	6914.1	506.44 ug/L	506.44 ppb	21:17:18
3	Ni 231.604†	20183.5	20007.5	508.24 ug/L	508.24 ppb	21:16:57
3	P 214.914†	4457.0	4227.7	2470.9 ug/L	2470.9 ppb	21:17:18
3	Pb 220.353†	4111.0	4150.9	515.91 ug/L	515.91 ppb	21:17:18
3	S 181.975 Axial†	756.4	714.7	1046.0 ug/L	1046.0 ppb	21:17:18
3	Sb 206.836†	1495.8	1450.0	523.76 ug/L	523.76 ppb	21:17:18
3	Se 196.026†	749.4	765.5	521.74 ug/L	521.74 ppb	21:17:18
3	Si 251.611†	78821.3	77804.4	2489.7 ug/L	2489.7 ppb	21:16:57
3	Sn 189.927†	2871.6	2843.6	515.09 ug/L	515.09 ppb	21:17:18
3	Ti 334.940†	331326.2	330578.6	499.86 ug/L	499.86 ppb	21:16:52
3	Tl 190.801†	1557.2	1578.9	510.08 ug/L	510.08 ppb	21:17:18
3	U 409.014†	14766.4	17492.2	470.96 ug/L	470.96 ppb	21:16:57
3	V 292.402†	70197.2	71197.7	501.02 ug/L	501.02 ppb	21:16:57
3	Zn 213.857†	51256.8	50385.1	500.93 ug/L	500.93 ppb	21:16:57
3	SiO2†	78460.8	77428.8	5306.2 ug/L	5306.2 ppb	21:17:33

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	899813.7	99.972	%	0.6170				0.62%
Sc Radial	4095.8	96.3	%	0.55				0.57%
Y 371.029	746985.5	97.973	%	0.5423				0.55%
Y RADIAL	4507.6	96.07	%	0.520				0.54%
Ag 328.068†	109369.9	505.35	ug/L	5.410	505.35	ppb	5.410	1.07%
QC value within limits for Ag 328.068 Recovery = 101.07%								
Al 396.153Radial†	5720.7	5156.1	ug/L	23.06	5156.1	ppb	23.06	0.45%
QC value within limits for Al 396.153Radial Recovery = 103.12%								
As 188.979†	1143.3	519.65	ug/L	6.733	519.65	ppb	6.733	1.30%
QC value within limits for As 188.979 Recovery = 103.93%								
B 249.677†	20429.3	485.28	ug/L	5.836	485.28	ppb	5.836	1.20%
QC value within limits for B 249.677 Recovery = 97.06%								
Ba 233.527†	64864.1	507.91	ug/L	4.501	507.91	ppb	4.501	0.89%
QC value within limits for Ba 233.527 Recovery = 101.58%								
Be 313.107†	1345173.0	502.44	ug/L	0.462	502.44	ppb	0.462	0.09%
QC value within limits for Be 313.107 Recovery = 100.49%								
Ca 317.933Radial†	2634.4	5241.5	ug/L	19.92	5241.5	ppb	19.92	0.38%

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   QC value within limits for Ca 317.933Radial  Recovery = 104.83%
Cd 226.502†          44378.9      515.02 ug/L        3.892      515.02 ppb        3.892   0.76%
   QC value within limits for Cd 226.502  Recovery = 103.00%
Co 228.616†          24459.4      511.48 ug/L        3.175      511.48 ppb        3.175   0.62%
   QC value within limits for Co 228.616  Recovery = 102.30%
Cr 267.716†          45160.4      507.50 ug/L        4.353      507.50 ppb        4.353   0.86%
   QC value within limits for Cr 267.716  Recovery = 101.50%
Cu 324.752†         163868.6      492.08 ug/L        6.081      492.08 ppb        6.081   1.24%
   QC value within limits for Cu 324.752  Recovery = 98.42%
Fe 238.204 Radial†     385.6      4982.8 ug/L       70.04      4982.8 ppb       70.04   1.41%
   QC value within limits for Fe 238.204 Radial  Recovery = 99.66%
K 766.490 Radial†    28115.3      5253.4 ug/L       28.17      5253.4 ppb       28.17   0.54%
   QC value within limits for K 766.490 Radial  Recovery = 105.07%
Mg 279.077 IEC†        117.3      5331.9 ug/L      102.94      5331.9 ppb      102.94   1.93%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.64%
Mn 257.610†         449807.3      504.59 ug/L        0.277      504.59 ppb        0.277   0.05%
   QC value within limits for Mn 257.610  Recovery = 100.92%
Mo 202.031†          6977.2      511.06 ug/L        4.400      511.06 ppb        4.400   0.86%
   QC value within limits for Mo 202.031  Recovery = 102.21%
Na 589.592 Radial†   35580.7       10326 ug/L         79.7       10326 ppb         79.7   0.77%
   QC value within limits for Na 589.592 Radial  Recovery = 103.26%
Ni 231.604†          20154.2      511.97 ug/L        3.478      511.97 ppb        3.478   0.68%
   QC value within limits for Ni 231.604  Recovery = 102.39%
P 214.914†            4269.2      2494.9 ug/L       21.16      2494.9 ppb       21.16   0.85%
   QC value within limits for P 214.914  Recovery = 99.80%
Pb 220.353†           4200.6      522.09 ug/L        5.542      522.09 ppb        5.542   1.06%
   QC value within limits for Pb 220.353  Recovery = 104.42%
S 181.975 Axial†       719.5      1053.0 ug/L        6.85      1053.0 ppb        6.85   0.65%
   QC value within limits for S 181.975 Axial  Recovery = 105.30%
Sb 206.836†           1467.5      530.06 ug/L        5.459      530.06 ppb        5.459   1.03%
   QC value within limits for Sb 206.836  Recovery = 106.01%
Se 196.026†            776.5      529.01 ug/L        7.526      529.01 ppb        7.526   1.42%
   QC value within limits for Se 196.026  Recovery = 105.80%
Si 251.611†          78587.6      2514.8 ug/L       23.96      2514.8 ppb       23.96   0.95%
   QC value within limits for Si 251.611  Recovery = 100.59%
Sn 189.927†           2873.9      520.57 ug/L        5.281      520.57 ppb        5.281   1.01%
   QC value within limits for Sn 189.927  Recovery = 104.11%
Sr 421.552†          76659.5      508.05 ug/L        3.556      508.05 ppb        3.556   0.70%
   QC value within limits for Sr 421.552  Recovery = 101.61%
Ti 334.940†         330273.1      499.39 ug/L        0.411      499.39 ppb        0.411   0.08%
   QC value within limits for Ti 334.940  Recovery = 99.88%
Tl 190.801†           1592.7      514.48 ug/L        4.603      514.48 ppb        4.603   0.89%
   QC value within limits for Tl 190.801  Recovery = 102.90%
U 409.014†           17703.2      476.65 ug/L        5.506      476.65 ppb        5.506   1.16%
   QC value within limits for U 409.014  Recovery = 95.33%
V 292.402†           71907.4      506.02 ug/L        4.670      506.02 ppb        4.670   0.92%
   QC value within limits for V 292.402  Recovery = 101.20%
Zn 213.857†          50852.8      505.59 ug/L        4.231      505.59 ppb        4.231   0.84%
   QC value within limits for Zn 213.857  Recovery = 101.12%
SiO2†                78170.1      5357.0 ug/L       44.20      5357.0 ppb       44.20   0.83%
   QC value within limits for SiO2  Recovery = 100.18%
All analyte(s) passed QC.
```

Sequence No.: 30
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/23/2010 21:19:43
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4079.9	4079.9	95.9	%			21:21:35
1	Y RADIAL	4544.0	4544.0	96.84	%			21:21:35
1	Al 396.153Radial†	-114.8	-8.9	-8.1061	ug/L	-8.1061	ppb	21:21:35
1	Ca 317.933Radial†	16.0	1.2	2.3684	ug/L	2.3684	ppb	21:21:55
1	Fe 238.204 Radial†	11.0	1.3	16.578	ug/L	16.578	ppb	21:21:55
1	K 766.490 Radial†	2912.6	479.8	89.736	ug/L	89.736	ppb	21:21:35
1	Mg 279.077 IEC†	0.8	-1.9	-88.054	ug/L	-88.054	ppb	21:21:55
1	Na 589.592 Radial†	-399.5	323.9	93.995	ug/L	93.995	ppb	21:21:35
1	Sr 421.552†	82.0	48.7	0.3227	ug/L	0.3227	ppb	21:21:35
1	Sc 361.383	913981.6	913981.6	101.55	%			21:22:52
1	Y 371.029	769281.3	769281.3	100.90	%			21:22:52
1	Ag 328.068†	269.8	36.4	0.1725	ug/L	0.1725	ppb	21:22:57
1	As 188.979†	-23.3	-2.4	-1.0702	ug/L	-1.0702	ppb	21:23:17
1	B 249.677†	-511.5	-130.7	-3.1225	ug/L	-3.1225	ppb	21:23:17
1	Ba 233.527†	10.0	19.0	0.1485	ug/L	0.1485	ppb	21:23:17
1	Be 313.107†	-3936.1	-22.9	-0.0091	ug/L	-0.0091	ppb	21:22:57
1	Cd 226.502†	-185.8	0.4	0.0025	ug/L	0.0025	ppb	21:23:17
1	Co 228.616†	-71.5	-8.5	-0.1758	ug/L	-0.1758	ppb	21:23:17
1	Cr 267.716†	77.6	10.4	0.1184	ug/L	0.1184	ppb	21:23:17
1	Cu 324.752†	6033.8	-135.2	-0.4044	ug/L	-0.4044	ppb	21:22:57
1	Mn 257.610†	463.7	19.8	0.0275	ug/L	0.0275	ppb	21:23:17
1	Mo 202.031†	10.2	4.0	0.2924	ug/L	0.2924	ppb	21:23:17
1	Ni 231.604†	62.5	9.2	0.2349	ug/L	0.2349	ppb	21:23:17
1	P 214.914†	224.7	19.2	11.722	ug/L	11.722	ppb	21:23:17
1	Pb 220.353†	-36.5	29.1	3.6073	ug/L	3.6073	ppb	21:23:17
1	S 181.975 Axial†	47.4	9.6	14.061	ug/L	14.061	ppb	21:23:17
1	Sb 206.836†	40.7	3.4	1.2127	ug/L	1.2127	ppb	21:23:17
1	Se 196.026†	-25.7	-4.6	-2.9790	ug/L	-2.9790	ppb	21:23:17
1	Si 251.611†	563.5	20.8	0.6636	ug/L	0.6636	ppb	21:23:17
1	Sn 189.927†	16.7	6.0	1.0937	ug/L	1.0937	ppb	21:23:17
1	Ti 334.940†	-1460.6	-156.6	-0.2287	ug/L	-0.2287	ppb	21:22:57
1	Tl 190.801†	-25.3	6.3	2.0199	ug/L	2.0199	ppb	21:23:17
1	U 409.014†	-2919.9	-59.2	-1.6005	ug/L	-1.6005	ppb	21:22:52
1	V 292.402†	-1486.3	-33.2	-0.2334	ug/L	-0.2334	ppb	21:22:57
1	Zn 213.857†	563.8	-2.4	-0.0279	ug/L	-0.0279	ppb	21:23:17
1	SiO2†	571.0	10.8	0.7343	ug/L	0.7343	ppb	21:24:23
2	Sc Radial	4098.4	4098.4	96.4	%			21:22:00
2	Y RADIAL	4528.6	4528.6	96.52	%			21:22:00
2	Al 396.153Radial†	-137.4	-31.8	-28.833	ug/L	-28.833	ppb	21:22:00
2	Ca 317.933Radial†	19.0	4.3	8.4818	ug/L	8.4818	ppb	21:22:20
2	Fe 238.204 Radial†	8.5	-1.4	-17.891	ug/L	-17.891	ppb	21:22:20
2	K 766.490 Radial†	2731.5	278.2	52.013	ug/L	52.013	ppb	21:22:00
2	Mg 279.077 IEC†	2.0	-0.7	-32.447	ug/L	-32.447	ppb	21:22:20
2	Na 589.592 Radial†	-514.9	205.9	59.759	ug/L	59.759	ppb	21:22:00
2	Sr 421.552†	91.4	58.1	0.3852	ug/L	0.3852	ppb	21:22:00
2	Sc 361.383	915140.5	915140.5	101.68	%			21:23:22
2	Y 371.029	771725.3	771725.3	101.22	%			21:23:22
2	Ag 328.068†	287.2	53.1	0.2368	ug/L	0.2368	ppb	21:23:27
2	As 188.979†	-17.0	3.8	1.7058	ug/L	1.7058	ppb	21:23:47
2	B 249.677†	-520.3	-138.8	-3.3094	ug/L	-3.3094	ppb	21:23:47
2	Ba 233.527†	37.7	46.2	0.3589	ug/L	0.3589	ppb	21:23:47
2	Be 313.107†	-3878.9	38.3	0.0134	ug/L	0.0134	ppb	21:23:27
2	Cd 226.502†	-185.3	1.1	0.0140	ug/L	0.0140	ppb	21:23:47
2	Co 228.616†	-75.8	-12.6	-0.2617	ug/L	-0.2617	ppb	21:23:47
2	Cr 267.716†	65.3	-1.8	-0.0218	ug/L	-0.0218	ppb	21:23:47
2	Cu 324.752†	6073.6	-103.6	-0.3113	ug/L	-0.3113	ppb	21:23:27
2	Mn 257.610†	482.8	38.0	0.0422	ug/L	0.0422	ppb	21:23:47
2	Mo 202.031†	8.9	2.7	0.1940	ug/L	0.1940	ppb	21:23:47
2	Ni 231.604†	54.5	1.3	0.0329	ug/L	0.0329	ppb	21:23:47

2	P 214.914†	206.4	1.0	0.6538	ug/L	0.6538 ppb	21:23:47
2	Pb 220.353†	-44.1	21.7	2.6813	ug/L	2.6813 ppb	21:23:47
2	S 181.975 Axial†	37.9	0.2	0.3633	ug/L	0.3633 ppb	21:23:47
2	Sb 206.836†	53.0	15.4	5.3902	ug/L	5.3902 ppb	21:23:47
2	Se 196.026†	-23.3	-2.2	-1.5273	ug/L	-1.5273 ppb	21:23:47
2	Si 251.611†	571.4	27.8	0.8903	ug/L	0.8903 ppb	21:23:47
2	Sn 189.927†	15.6	4.9	0.8920	ug/L	0.8920 ppb	21:23:47
2	Ti 334.940†	-1565.8	-258.2	-0.3861	ug/L	-0.3861 ppb	21:23:27
2	Tl 190.801†	-35.3	-3.5	-1.1391	ug/L	-1.1391 ppb	21:23:47
2	U 409.014†	-2915.7	-51.4	-1.3871	ug/L	-1.3871 ppb	21:23:22
2	V 292.402†	-1550.3	-94.4	-0.6526	ug/L	-0.6526 ppb	21:23:27
2	Zn 213.857†	563.8	-3.1	-0.0286	ug/L	-0.0286 ppb	21:23:47
2	SiO2†	578.6	17.5	1.1984	ug/L	1.1984 ppb	21:24:28
3	Sc Radial	4071.3	4071.3	95.7	%		21:22:25
3	Y RADIAL	4480.9	4480.9	95.50	%		21:22:25
3	Al 396.153Radial†	-152.3	-48.3	-43.791	ug/L	-43.791 ppb	21:22:25
3	Ca 317.933Radial†	18.0	3.4	6.6656	ug/L	6.6656 ppb	21:22:45
3	Fe 238.204 Radial†	12.2	2.6	33.032	ug/L	33.032 ppb	21:22:45
3	K 766.490 Radial†	2823.2	392.8	73.456	ug/L	73.456 ppb	21:22:25
3	Mg 279.077 IEC†	1.4	-1.3	-57.233	ug/L	-57.233 ppb	21:22:45
3	Na 589.592 Radial†	-513.7	203.7	59.100	ug/L	59.100 ppb	21:22:25
3	Sr 421.552†	104.9	72.9	0.4829	ug/L	0.4829 ppb	21:22:25
3	Sc 361.383	919690.2	919690.2	102.18	%		21:23:52
3	Y 371.029	774865.5	774865.5	101.63	%		21:23:52
3	Ag 328.068†	128.5	-103.6	-0.4666	ug/L	-0.4666 ppb	21:23:58
3	As 188.979†	-30.1	-9.0	-4.0375	ug/L	-4.0375 ppb	21:24:18
3	B 249.677†	-533.4	-149.1	-3.5635	ug/L	-3.5635 ppb	21:24:18
3	Ba 233.527†	19.5	28.2	0.2206	ug/L	0.2206 ppb	21:24:18
3	Be 313.107†	-3775.9	158.0	0.0583	ug/L	0.0583 ppb	21:23:58
3	Cd 226.502†	-187.0	0.3	0.0004	ug/L	0.0004 ppb	21:24:18
3	Co 228.616†	-70.4	-7.0	-0.1440	ug/L	-0.1440 ppb	21:24:18
3	Cr 267.716†	43.2	-23.7	-0.2627	ug/L	-0.2627 ppb	21:24:18
3	Cu 324.752†	6198.3	-11.1	-0.0314	ug/L	-0.0314 ppb	21:23:58
3	Mn 257.610†	471.0	24.1	0.0326	ug/L	0.0326 ppb	21:24:18
3	Mo 202.031†	13.0	6.7	0.4916	ug/L	0.4916 ppb	21:24:18
3	Ni 231.604†	68.8	15.0	0.3806	ug/L	0.3806 ppb	21:24:18
3	P 214.914†	204.4	-2.0	-1.2702	ug/L	-1.2702 ppb	21:24:18
3	Pb 220.353†	-35.5	30.2	3.7368	ug/L	3.7368 ppb	21:24:18
3	S 181.975 Axial†	40.4	2.5	3.6052	ug/L	3.6052 ppb	21:24:18
3	Sb 206.836†	39.9	2.3	0.8181	ug/L	0.8181 ppb	21:24:18
3	Se 196.026†	-32.3	-10.9	-7.0769	ug/L	-7.0769 ppb	21:24:18
3	Si 251.611†	571.5	25.2	0.8023	ug/L	0.8023 ppb	21:24:18
3	Sn 189.927†	10.8	0.1	0.0214	ug/L	0.0214 ppb	21:24:18
3	Ti 334.940†	-1475.1	-161.8	-0.2388	ug/L	-0.2388 ppb	21:23:58
3	Tl 190.801†	-31.7	0.2	0.0673	ug/L	0.0673 ppb	21:24:18
3	U 409.014†	-2893.4	-15.4	-0.4203	ug/L	-0.4203 ppb	21:23:52
3	V 292.402†	-1505.8	-43.2	-0.2996	ug/L	-0.2996 ppb	21:23:58
3	Zn 213.857†	572.2	2.3	0.0160	ug/L	0.0160 ppb	21:24:18
3	SiO2†	611.0	46.5	3.1787	ug/L	3.1787 ppb	21:24:33

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	916270.8	101.80	%	0.335				0.33%
Sc Radial	4083.2	96.0	%	0.33				0.34%
Y 371.029	771957.4	101.25	%	0.367				0.36%
Y RADIAL	4517.8	96.29	%	0.700				0.73%
Ag 328.068†	-4.7	-0.0191	ug/L	0.38890	-0.0191	ppb	0.38890	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-29.7	-26.910	ug/L	17.9202	-26.910	ppb	17.9202	66.59%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.5	-1.1340	ug/L	2.87222	-1.1340	ppb	2.87222	253.29%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-139.6	-3.3318	ug/L	0.22133	-3.3318	ppb	0.22133	6.64%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	31.1	0.2427	ug/L	0.10691	0.2427	ppb	0.10691	44.06%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	57.8	0.0209	ug/L	0.03432	0.0209	ppb	0.03432	164.39%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.9	5.8386	ug/L	3.13953	5.8386	ppb	3.13953	53.77%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                0.6      0.0056 ug/L       0.00733      0.0056 ppb        0.00733 130.48%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               -9.3     -0.1938 ug/L       0.06092     -0.1938 ppb        0.06092  31.43%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -5.0     -0.0554 ug/L       0.19277     -0.0554 ppb        0.19277 348.17%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -83.3     -0.2490 ug/L       0.19416     -0.2490 ppb        0.19416  77.97%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         0.8      10.573 ug/L       25.9871      10.573 ppb        25.9871 245.79%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        383.6      71.735 ug/L       18.9198      71.735 ppb        18.9198  26.37%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.3     -59.245 ug/L       27.8579     -59.245 ppb        27.8579  47.02%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               27.3      0.0341 ug/L       0.00749      0.0341 ppb        0.00749  21.96%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                4.4      0.3260 ug/L       0.15163      0.3260 ppb        0.15163  46.51%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       244.5      70.951 ug/L       19.9591      70.951 ppb        19.9591  28.13%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                8.5      0.2161 ug/L       0.17459      0.2161 ppb        0.17459  80.78%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 6.0      3.7018 ug/L       7.01173      3.7018 ppb        7.01173 189.42%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               27.0      3.3418 ug/L       0.57563      3.3418 ppb        0.57563  17.23%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           4.1      6.0098 ug/L       7.15847      6.0098 ppb        7.15847 119.11%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                7.0      2.4737 ug/L       2.53344      2.4737 ppb        2.53344 102.42%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -5.9     -3.8611 ug/L       2.87804     -3.8611 ppb        2.87804  74.54%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               24.6      0.7854 ug/L       0.11430      0.7854 ppb        0.11430  14.55%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                3.7      0.6690 ug/L       0.56984      0.6690 ppb        0.56984  85.18%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               59.9      0.3969 ug/L       0.08073      0.3969 ppb        0.08073  20.34%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -192.2     -0.2845 ug/L       0.08808     -0.2845 ppb        0.08808  30.96%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                1.0      0.3161 ug/L       1.59408      0.3161 ppb        1.59408 504.37%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -42.0     -1.1360 ug/L       0.62888     -1.1360 ppb        0.62888  55.36%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -56.9     -0.3952 ug/L       0.22535     -0.3952 ppb        0.22535  57.03%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -1.1     -0.0135 ug/L       0.02553     -0.0135 ppb        0.02553 188.76%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     24.9      1.7038 ug/L       1.29825      1.7038 ppb        1.29825  76.20%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/23/2010 22:21:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	3841.3	3841.3	90.3	%			22:23:47
1	Y RADIAL	4242.2	4242.2	90.41	%			22:23:27
1	Al 396.153Radial†	5336.8	6020.3	5427.7	ug/L	5427.7	ppb	22:23:27
1	Ca 317.933Radial†	2510.5	2764.5	5500.2	ug/L	5500.2	ppb	22:23:47
1	Fe 238.204 Radial†	376.6	406.9	5256.9	ug/L	5256.9	ppb	22:23:47
1	K 766.490 Radial†	28833.0	29370.9	5488.3	ug/L	5488.3	ppb	22:23:27
1	Mg 279.077 IEC†	110.0	119.0	5409.4	ug/L	5409.4	ppb	22:23:47
1	Na 589.592 Radial†	31405.8	35516.9	10307	ug/L	10307	ppb	22:23:27
1	Sr 421.552†	71381.1	79005.6	523.60	ug/L	523.60	ppb	22:23:27
1	Sc 361.383	904620.6	904620.6	100.51	%			22:24:44
1	Y 371.029	751980.7	751980.7	98.628	%			22:24:44
1	Ag 328.068†	110459.9	109674.1	506.84	ug/L	506.84	ppb	22:24:49
1	As 188.979†	1112.8	1127.7	512.62	ug/L	512.62	ppb	22:25:10
1	B 249.677†	20196.6	20467.8	486.16	ug/L	486.16	ppb	22:24:49
1	Ba 233.527†	65323.3	65003.3	509.00	ug/L	509.00	ppb	22:24:49
1	Be 313.107†	1340888.9	1337986.9	499.76	ug/L	499.76	ppb	22:24:44
1	Cd 226.502†	44523.9	44482.9	516.20	ug/L	516.20	ppb	22:24:49
1	Co 228.616†	24583.9	24522.0	512.78	ug/L	512.78	ppb	22:24:49
1	Cr 267.716†	45567.8	45272.3	508.78	ug/L	508.78	ppb	22:24:49
1	Cu 324.752†	171383.9	164443.3	493.82	ug/L	493.82	ppb	22:24:49
1	Mn 257.610†	448923.2	446224.8	500.60	ug/L	500.60	ppb	22:24:44
1	Mo 202.031†	6974.3	6933.1	507.86	ug/L	507.86	ppb	22:25:10
1	Ni 231.604†	20398.3	20243.2	514.23	ug/L	514.23	ppb	22:24:49
1	P 214.914†	4458.3	4233.8	2472.9	ug/L	2472.9	ppb	22:25:10
1	Pb 220.353†	4101.9	4146.3	515.38	ug/L	515.38	ppb	22:25:10
1	S 181.975 Axial†	756.2	715.4	1047.0	ug/L	1047.0	ppb	22:25:10
1	Sb 206.836†	1511.0	1466.7	529.70	ug/L	529.70	ppb	22:25:10
1	Se 196.026†	764.5	781.3	532.99	ug/L	532.99	ppb	22:25:10
1	Si 251.611†	79925.3	78988.5	2527.7	ug/L	2527.7	ppb	22:24:49
1	Sn 189.927†	2890.2	2865.2	519.02	ug/L	519.02	ppb	22:25:10
1	Ti 334.940†	327646.2	327277.4	494.89	ug/L	494.89	ppb	22:24:44
1	Tl 190.801†	1557.8	1581.2	510.73	ug/L	510.73	ppb	22:25:10
1	U 409.014†	14980.3	17721.1	477.10	ug/L	477.10	ppb	22:24:49
1	V 292.402†	71021.0	72093.6	507.23	ug/L	507.23	ppb	22:24:49
1	Zn 213.857†	51862.0	51043.0	507.44	ug/L	507.44	ppb	22:24:49
1	SiO2†	78270.4	77324.6	5299.0	ug/L	5299.0	ppb	22:26:17
2	Sc Radial	3904.2	3904.2	91.8	%			22:24:12
2	Y RADIAL	4345.8	4345.8	92.62	%			22:23:52
2	Al 396.153Radial†	5198.1	5774.0	5204.5	ug/L	5204.5	ppb	22:23:52
2	Ca 317.933Radial†	2520.2	2730.2	5432.0	ug/L	5432.0	ppb	22:24:12
2	Fe 238.204 Radial†	372.0	395.1	5105.9	ug/L	5105.9	ppb	22:24:12
2	K 766.490 Radial†	28297.0	28272.1	5282.9	ug/L	5282.9	ppb	22:23:52
2	Mg 279.077 IEC†	114.5	122.0	5543.6	ug/L	5543.6	ppb	22:24:12
2	Na 589.592 Radial†	30291.7	33742.3	9792.2	ug/L	9792.2	ppb	22:23:52
2	Sr 421.552†	69213.9	75369.9	499.50	ug/L	499.50	ppb	22:23:52
2	Sc 361.383	898911.0	898911.0	99.872	%			22:25:15
2	Y 371.029	748412.3	748412.3	98.160	%			22:25:15
2	Ag 328.068†	110063.1	109974.8	508.17	ug/L	508.17	ppb	22:25:21
2	As 188.979†	1108.9	1130.9	514.01	ug/L	514.01	ppb	22:25:41
2	B 249.677†	20219.6	20618.4	489.77	ug/L	489.77	ppb	22:25:21
2	Ba 233.527†	64958.9	65051.3	509.38	ug/L	509.38	ppb	22:25:21
2	Be 313.107†	1329146.7	1334703.6	498.53	ug/L	498.53	ppb	22:25:15
2	Cd 226.502†	44224.8	44464.8	516.01	ug/L	516.01	ppb	22:25:21
2	Co 228.616†	24456.4	24549.7	513.37	ug/L	513.37	ppb	22:25:21
2	Cr 267.716†	45360.4	45352.6	509.67	ug/L	509.67	ppb	22:25:21
2	Cu 324.752†	170821.1	164962.9	495.37	ug/L	495.37	ppb	22:25:21
2	Mn 257.610†	443483.6	443615.2	497.65	ug/L	497.65	ppb	22:25:15
2	Mo 202.031†	6952.9	6955.8	509.50	ug/L	509.50	ppb	22:25:41
2	Ni 231.604†	20342.9	20316.6	516.10	ug/L	516.10	ppb	22:25:21

2	P 214.914†	4412.8	4216.4	2462.1 ug/L	2462.1 ppb	22:25:41
2	Pb 220.353†	4096.4	4166.7	517.87 ug/L	517.87 ppb	22:25:41
2	S 181.975 Axial†	749.1	713.0	1043.6 ug/L	1043.6 ppb	22:25:41
2	Sb 206.836†	1489.3	1454.5	525.49 ug/L	525.49 ppb	22:25:41
2	Se 196.026†	756.8	778.5	530.67 ug/L	530.67 ppb	22:25:41
2	Si 251.611†	79381.7	78949.3	2526.4 ug/L	2526.4 ppb	22:25:21
2	Sn 189.927†	2866.1	2859.4	517.97 ug/L	517.97 ppb	22:25:41
2	Ti 334.940†	324630.4	326328.3	493.43 ug/L	493.43 ppb	22:25:15
2	Tl 190.801†	1556.9	1590.1	513.57 ug/L	513.57 ppb	22:25:41
2	U 409.014†	15125.8	17961.4	483.61 ug/L	483.61 ppb	22:25:21
2	V 292.402†	70815.8	72337.0	508.98 ug/L	508.98 ppb	22:25:21
2	Zn 213.857†	51466.0	50974.3	506.76 ug/L	506.76 ppb	22:25:21
2	SiO2†	79789.0	79339.8	5437.5 ug/L	5437.5 ppb	22:26:23
3	Sc Radial	3936.1	3936.1	92.5 %		22:24:37
3	Y RADIAL	4428.2	4428.2	94.38 %		22:24:17
3	Al 396.153Radial†	5324.5	5864.7	5286.8 ug/L	5286.8 ppb	22:24:17
3	Ca 317.933Radial†	2526.7	2715.0	5401.8 ug/L	5401.8 ppb	22:24:37
3	Fe 238.204 Radial†	378.9	399.2	5158.7 ug/L	5158.7 ppb	22:24:37
3	K 766.490 Radial†	28845.6	28615.4	5347.1 ug/L	5347.1 ppb	22:24:17
3	Mg 279.077 IEC†	116.0	122.6	5573.8 ug/L	5573.8 ppb	22:24:37
3	Na 589.592 Radial†	31022.2	34264.8	9943.8 ug/L	9943.8 ppb	22:24:17
3	Sr 421.552†	70648.0	76309.5	505.73 ug/L	505.73 ppb	22:24:17
3	Sc 361.383	911047.1	911047.1	101.22 %		22:25:47
3	Y 371.029	758587.4	758587.4	99.494 %		22:25:47
3	Ag 328.068†	110357.8	108798.0	502.76 ug/L	502.76 ppb	22:25:52
3	As 188.979†	1134.3	1141.1	518.65 ug/L	518.65 ppb	22:26:12
3	B 249.677†	20179.9	20309.6	482.42 ug/L	482.42 ppb	22:25:52
3	Ba 233.527†	64932.5	64158.8	502.39 ug/L	502.39 ppb	22:25:52
3	Be 313.107†	1354089.3	1341617.2	501.11 ug/L	501.11 ppb	22:25:47
3	Cd 226.502†	44243.4	43893.4	509.37 ug/L	509.37 ppb	22:25:52
3	Co 228.616†	24433.7	24201.1	506.07 ug/L	506.07 ppb	22:25:52
3	Cr 267.716†	45439.2	44825.4	503.75 ug/L	503.75 ppb	22:25:52
3	Cu 324.752†	171164.3	163023.5	489.55 ug/L	489.55 ppb	22:25:52
3	Mn 257.610†	450527.7	444659.1	498.83 ug/L	498.83 ppb	22:25:47
3	Mo 202.031†	7017.6	6926.9	507.40 ug/L	507.40 ppb	22:26:12
3	Ni 231.604†	20336.3	20038.8	509.04 ug/L	509.04 ppb	22:25:52
3	P 214.914†	4482.5	4226.4	2469.3 ug/L	2469.3 ppb	22:26:12
3	Pb 220.353†	4136.0	4151.2	515.96 ug/L	515.96 ppb	22:26:12
3	S 181.975 Axial†	762.6	716.3	1048.4 ug/L	1048.4 ppb	22:26:12
3	Sb 206.836†	1510.0	1455.1	525.63 ug/L	525.63 ppb	22:26:12
3	Se 196.026†	762.1	773.6	527.60 ug/L	527.60 ppb	22:26:12
3	Si 251.611†	79509.2	78016.4	2496.5 ug/L	2496.5 ppb	22:25:52
3	Sn 189.927†	2904.2	2858.8	517.85 ug/L	517.85 ppb	22:26:12
3	Ti 334.940†	329454.1	326763.9	494.08 ug/L	494.08 ppb	22:25:47
3	Tl 190.801†	1579.7	1591.8	514.17 ug/L	514.17 ppb	22:26:12
3	U 409.014†	15222.3	17855.0	480.74 ug/L	480.74 ppb	22:25:52
3	V 292.402†	70839.0	71415.4	502.55 ug/L	502.55 ppb	22:25:52
3	Zn 213.857†	51630.0	50449.8	501.55 ug/L	501.55 ppb	22:25:52
3	SiO2†	78966.6	77463.1	5308.6 ug/L	5308.6 ppb	22:26:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	904859.5	100.53	%	0.675				0.67%
Sc Radial	3893.8	91.5	%	1.13				1.24%
Y 371.029	752993.5	98.761	%	0.6771				0.69%
Y RADIAL	4338.7	92.47	%	1.987				2.15%
Ag 328.068†	109482.3	505.92	ug/L	2.819	505.92	ppb	2.819	0.56%
QC value within limits for Ag 328.068 Recovery = 101.18%								
Al 396.153Radial†	5886.3	5306.3	ug/L	112.89	5306.3	ppb	112.89	2.13%
QC value within limits for Al 396.153Radial Recovery = 106.13%								
As 188.979†	1133.2	515.10	ug/L	3.159	515.10	ppb	3.159	0.61%
QC value within limits for As 188.979 Recovery = 103.02%								
B 249.677†	20465.3	486.12	ug/L	3.679	486.12	ppb	3.679	0.76%
QC value within limits for B 249.677 Recovery = 97.22%								
Ba 233.527†	64737.8	506.93	ug/L	3.929	506.93	ppb	3.929	0.77%
QC value within limits for Ba 233.527 Recovery = 101.39%								
Be 313.107†	1338102.5	499.80	ug/L	1.290	499.80	ppb	1.290	0.26%
QC value within limits for Be 313.107 Recovery = 99.96%								
Ca 317.933Radial†	2736.6	5444.7	ug/L	50.40	5444.7	ppb	50.40	0.93%

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   QC value within limits for Ca 317.933Radial  Recovery = 108.89%
Cd 226.502†            44280.3      513.86 ug/L        3.892      513.86 ppb        3.892   0.76%
   QC value within limits for Cd 226.502  Recovery = 102.77%
Co 228.616†            24424.3      510.74 ug/L        4.054      510.74 ppb        4.054   0.79%
   QC value within limits for Co 228.616  Recovery = 102.15%
Cr 267.716†            45150.1      507.40 ug/L        3.191      507.40 ppb        3.191   0.63%
   QC value within limits for Cr 267.716  Recovery = 101.48%
Cu 324.752†           164143.3      492.91 ug/L        3.014      492.91 ppb        3.014   0.61%
   QC value within limits for Cu 324.752  Recovery = 98.58%
Fe 238.204 Radial†       400.4      5173.8 ug/L       76.66      5173.8 ppb       76.66   1.48%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.48%
K 766.490 Radial†      28752.8      5372.8 ug/L      105.05      5372.8 ppb      105.05   1.96%
   QC value within limits for K 766.490 Radial  Recovery = 107.46%
Mg 279.077 IEC†          121.2      5508.9 ug/L       87.51      5508.9 ppb       87.51   1.59%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 110.18%
Mn 257.610†           444833.0      499.03 ug/L        1.483      499.03 ppb        1.483   0.30%
   QC value within limits for Mn 257.610  Recovery = 99.81%
Mo 202.031†             6938.6      508.25 ug/L        1.107      508.25 ppb        1.107   0.22%
   QC value within limits for Mo 202.031  Recovery = 101.65%
Na 589.592 Radial†     34508.0       10014 ug/L       264.6       10014 ppb       264.6   2.64%
   QC value within limits for Na 589.592 Radial  Recovery = 100.14%
Ni 231.604†            20199.5      513.12 ug/L        3.656      513.12 ppb        3.656   0.71%
   QC value within limits for Ni 231.604  Recovery = 102.62%
P 214.914†              4225.5      2468.1 ug/L         5.49      2468.1 ppb         5.49   0.22%
   QC value within limits for P 214.914  Recovery = 98.73%
Pb 220.353†             4154.7      516.40 ug/L        1.305      516.40 ppb        1.305   0.25%
   QC value within limits for Pb 220.353  Recovery = 103.28%
S 181.975 Axial†         714.9      1046.3 ug/L         2.48      1046.3 ppb         2.48   0.24%
   QC value within limits for S 181.975 Axial  Recovery = 104.63%
Sb 206.836†             1458.8      526.94 ug/L        2.390      526.94 ppb        2.390   0.45%
   QC value within limits for Sb 206.836  Recovery = 105.39%
Se 196.026†              777.8      530.42 ug/L        2.706      530.42 ppb        2.706   0.51%
   QC value within limits for Se 196.026  Recovery = 106.08%
Si 251.611†            78651.4      2516.9 ug/L       17.64      2516.9 ppb       17.64   0.70%
   QC value within limits for Si 251.611  Recovery = 100.68%
Sn 189.927†             2861.1      518.28 ug/L        0.646      518.28 ppb        0.646   0.12%
   QC value within limits for Sn 189.927  Recovery = 103.66%
Sr 421.552†            76895.0      509.61 ug/L       12.508      509.61 ppb       12.508   2.45%
   QC value within limits for Sr 421.552  Recovery = 101.92%
Ti 334.940†           326789.8      494.13 ug/L        0.731      494.13 ppb        0.731   0.15%
   QC value within limits for Ti 334.940  Recovery = 98.83%
Tl 190.801†             1587.7      512.82 ug/L        1.838      512.82 ppb        1.838   0.36%
   QC value within limits for Tl 190.801  Recovery = 102.56%
U 409.014†             17845.9      480.49 ug/L        3.262      480.49 ppb        3.262   0.68%
   QC value within limits for U 409.014  Recovery = 96.10%
V 292.402†             71948.7      506.25 ug/L        3.329      506.25 ppb        3.329   0.66%
   QC value within limits for V 292.402  Recovery = 101.25%
Zn 213.857†            50822.4      505.25 ug/L        3.227      505.25 ppb        3.227   0.64%
   QC value within limits for Zn 213.857  Recovery = 101.05%
SiO2†                  78042.5      5348.4 ug/L       77.31      5348.4 ppb       77.31   1.45%
   QC value within limits for SiO2  Recovery = 100.02%
QC Failed.  Continue with analysis.
```

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/23/2010 22:28:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	3950.6	3950.6	92.9	%			22:30:49
1	Y RADIAL	4521.2	4521.2	96.36	%			22:30:29
1	Al 396.153Radial†	-138.3	-38.2	-34.609	ug/L	-34.609	ppb	22:30:29
1	Ca 317.933Radial†	17.1	3.0	5.8719	ug/L	5.8719	ppb	22:30:49
1	Fe 238.204 Radial†	12.0	2.8	35.835	ug/L	35.835	ppb	22:30:49
1	K 766.490 Radial†	2655.2	302.0	56.505	ug/L	56.505	ppb	22:30:29
1	Mg 279.077 IEC†	-0.0	-2.8	-126.47	ug/L	-126.47	ppb	22:30:49
1	Na 589.592 Radial†	-730.5	-46.2	-13.397	ug/L	-13.397	ppb	22:30:29
1	Sr 421.552†	48.1	15.0	0.0996	ug/L	0.0996	ppb	22:30:29
1	Sc 361.383	893209.9	893209.9	99.239	%			22:31:46
1	Y 371.029	754717.8	754717.8	98.987	%			22:31:46
1	Ag 328.068†	246.2	18.8	0.1026	ug/L	0.1026	ppb	22:31:46
1	As 188.979†	-26.0	-5.6	-2.5375	ug/L	-2.5375	ppb	22:32:06
1	B 249.677†	-449.1	-79.6	-1.9050	ug/L	-1.9050	ppb	22:32:06
1	Ba 233.527†	12.7	21.9	0.1704	ug/L	0.1704	ppb	22:32:06
1	Be 313.107†	-3776.8	47.5	0.0170	ug/L	0.0170	ppb	22:31:46
1	Cd 226.502†	-192.8	-11.0	-0.1325	ug/L	-0.1325	ppb	22:32:06
1	Co 228.616†	-69.7	-8.3	-0.1720	ug/L	-0.1720	ppb	22:32:06
1	Cr 267.716†	63.1	-2.4	-0.0204	ug/L	-0.0204	ppb	22:32:06
1	Cu 324.752†	6039.1	8.3	0.0326	ug/L	0.0326	ppb	22:31:46
1	Mn 257.610†	467.4	34.1	0.0470	ug/L	0.0470	ppb	22:32:06
1	Mo 202.031†	14.4	8.5	0.6227	ug/L	0.6227	ppb	22:32:06
1	Ni 231.604†	83.2	31.5	0.8005	ug/L	0.8005	ppb	22:32:06
1	P 214.914†	198.2	-2.3	-1.4407	ug/L	-1.4407	ppb	22:32:06
1	Pb 220.353†	-52.0	12.7	1.5615	ug/L	1.5615	ppb	22:32:06
1	S 181.975 Axial†	46.4	9.7	14.227	ug/L	14.227	ppb	22:32:06
1	Sb 206.836†	35.6	-0.9	-0.2687	ug/L	-0.2687	ppb	22:32:06
1	Se 196.026†	-28.0	-7.5	-4.8334	ug/L	-4.8334	ppb	22:32:06
1	Si 251.611†	590.3	60.7	1.9383	ug/L	1.9383	ppb	22:32:06
1	Sn 189.927†	17.3	7.0	1.2673	ug/L	1.2673	ppb	22:32:06
1	Ti 334.940†	-1486.9	-216.5	-0.3117	ug/L	-0.3117	ppb	22:31:46
1	Tl 190.801†	-22.8	8.2	2.6431	ug/L	2.6431	ppb	22:32:06
1	U 409.014†	-3174.3	-382.3	-10.335	ug/L	-10.335	ppb	22:31:46
1	V 292.402†	-1530.7	-112.0	-0.7958	ug/L	-0.7958	ppb	22:31:46
1	Zn 213.857†	576.1	22.8	0.2182	ug/L	0.2182	ppb	22:32:06
1	SiO2†	606.6	59.8	4.0898	ug/L	4.0898	ppb	22:33:02
2	Sc Radial	3959.8	3959.8	93.1	%			22:31:15
2	Y RADIAL	4470.8	4470.8	95.28	%			22:30:55
2	Al 396.153Radial†	-105.9	-2.9	-2.6547	ug/L	-2.6547	ppb	22:30:55
2	Ca 317.933Radial†	17.6	3.4	6.8225	ug/L	6.8225	ppb	22:31:15
2	Fe 238.204 Radial†	8.9	-0.6	-7.8672	ug/L	-7.8672	ppb	22:31:15
2	K 766.490 Radial†	2634.8	273.5	51.168	ug/L	51.168	ppb	22:30:55
2	Mg 279.077 IEC†	0.2	-2.6	-117.18	ug/L	-117.18	ppb	22:31:15
2	Na 589.592 Radial†	-704.0	-15.8	-4.5915	ug/L	-4.5915	ppb	22:30:55
2	Sr 421.552†	62.4	30.3	0.2006	ug/L	0.2006	ppb	22:30:55
2	Sc 361.383	906674.6	906674.6	100.73	%			22:32:12
2	Y 371.029	766427.4	766427.4	100.52	%			22:32:12
2	Ag 328.068†	256.4	25.2	0.1138	ug/L	0.1138	ppb	22:32:12
2	As 188.979†	-19.8	0.8	0.3719	ug/L	0.3719	ppb	22:32:32
2	B 249.677†	-451.1	-74.9	-1.7854	ug/L	-1.7854	ppb	22:32:32
2	Ba 233.527†	22.4	31.4	0.2443	ug/L	0.2443	ppb	22:32:32
2	Be 313.107†	-3790.1	90.8	0.0334	ug/L	0.0334	ppb	22:32:12
2	Cd 226.502†	-190.0	-5.3	-0.0604	ug/L	-0.0604	ppb	22:32:32
2	Co 228.616†	-64.5	-2.1	-0.0444	ug/L	-0.0444	ppb	22:32:32
2	Cr 267.716†	67.1	0.7	0.0070	ug/L	0.0070	ppb	22:32:32
2	Cu 324.752†	6053.2	-68.1	-0.2037	ug/L	-0.2037	ppb	22:32:12
2	Mn 257.610†	464.2	24.0	0.0309	ug/L	0.0309	ppb	22:32:32
2	Mo 202.031†	1.7	-4.4	-0.3246	ug/L	-0.3246	ppb	22:32:32
2	Ni 231.604†	62.4	9.7	0.2453	ug/L	0.2453	ppb	22:32:32

2	P 214.914†	197.3	-6.2	-3.7101	ug/L	-3.7101 ppb	22:32:32
2	Pb 220.353†	-42.1	23.3	2.8811	ug/L	2.8811 ppb	22:32:32
2	S 181.975 Axial†	44.6	7.3	10.656	ug/L	10.656 ppb	22:32:32
2	Sb 206.836†	41.1	4.1	1.4143	ug/L	1.4143 ppb	22:32:32
2	Se 196.026†	-34.9	-14.0	-9.2268	ug/L	-9.2268 ppb	22:32:32
2	Si 251.611†	592.3	53.8	1.7295	ug/L	1.7295 ppb	22:32:32
2	Sn 189.927†	2.6	-7.9	-1.4263	ug/L	-1.4263 ppb	22:32:32
2	Ti 334.940†	-1413.4	-121.3	-0.1721	ug/L	-0.1721 ppb	22:32:12
2	Tl 190.801†	-33.5	-2.0	-0.6537	ug/L	-0.6537 ppb	22:32:32
2	U 409.014†	-2910.0	-72.5	-1.9578	ug/L	-1.9578 ppb	22:32:12
2	V 292.402†	-1481.1	-39.9	-0.2860	ug/L	-0.2860 ppb	22:32:12
2	Zn 213.857†	575.1	13.2	0.1320	ug/L	0.1320 ppb	22:32:32
2	SiO2†	614.6	58.6	4.0359	ug/L	4.0359 ppb	22:33:07
3	Sc Radial	3985.5	3985.5	93.7	%		22:31:40
3	Y RADIAL	4481.5	4481.5	95.51	%		22:31:20
3	Al 396.153Radial†	-104.7	-0.9	-0.8614	ug/L	-0.8614 ppb	22:31:20
3	Ca 317.933Radial†	20.6	6.5	13.027	ug/L	13.027 ppb	22:31:40
3	Fe 238.204 Radial†	10.0	0.4	5.6066	ug/L	5.6066 ppb	22:31:40
3	K 766.490 Radial†	2840.4	474.7	88.805	ug/L	88.805 ppb	22:31:20
3	Mg 279.077 IEC†	2.5	-0.1	-4.9124	ug/L	-4.9124 ppb	22:31:40
3	Na 589.592 Radial†	-713.0	-20.6	-5.9751	ug/L	-5.9751 ppb	22:31:20
3	Sr 421.552†	80.7	49.3	0.3267	ug/L	0.3267 ppb	22:31:20
3	Sc 361.383	891052.3	891052.3	98.999	%		22:32:37
3	Y 371.029	753542.1	753542.1	98.833	%		22:32:37
3	Ag 328.068†	244.9	18.0	0.0867	ug/L	0.0867 ppb	22:32:37
3	As 188.979†	-30.0	-9.7	-4.3954	ug/L	-4.3954 ppb	22:32:57
3	B 249.677†	-490.3	-122.3	-2.9194	ug/L	-2.9194 ppb	22:32:57
3	Ba 233.527†	3.2	12.3	0.0946	ug/L	0.0946 ppb	22:32:57
3	Be 313.107†	-3709.4	106.4	0.0388	ug/L	0.0388 ppb	22:32:37
3	Cd 226.502†	-194.4	-13.1	-0.1535	ug/L	-0.1535 ppb	22:32:57
3	Co 228.616†	-76.9	-15.8	-0.3276	ug/L	-0.3276 ppb	22:32:57
3	Cr 267.716†	68.3	3.0	0.0356	ug/L	0.0356 ppb	22:32:57
3	Cu 324.752†	6095.2	79.7	0.2437	ug/L	0.2437 ppb	22:32:37
3	Mn 257.610†	455.3	23.0	0.0266	ug/L	0.0266 ppb	22:32:57
3	Mo 202.031†	12.4	6.5	0.4764	ug/L	0.4764 ppb	22:32:57
3	Ni 231.604†	70.1	18.5	0.4710	ug/L	0.4710 ppb	22:32:57
3	P 214.914†	201.4	1.4	0.7991	ug/L	0.7991 ppb	22:32:57
3	Pb 220.353†	-45.5	19.1	2.3691	ug/L	2.3691 ppb	22:32:57
3	S 181.975 Axial†	39.6	3.0	4.4071	ug/L	4.4071 ppb	22:32:57
3	Sb 206.836†	42.5	6.2	2.1701	ug/L	2.1701 ppb	22:32:57
3	Se 196.026†	-30.7	-10.3	-6.7638	ug/L	-6.7638 ppb	22:32:57
3	Si 251.611†	592.2	64.1	2.0491	ug/L	2.0491 ppb	22:32:57
3	Sn 189.927†	10.9	0.6	0.1064	ug/L	0.1064 ppb	22:32:57
3	Ti 334.940†	-1512.9	-246.4	-0.3673	ug/L	-0.3673 ppb	22:32:37
3	Tl 190.801†	-33.9	-3.0	-0.9707	ug/L	-0.9707 ppb	22:32:57
3	U 409.014†	-3057.2	-271.9	-7.3465	ug/L	-7.3465 ppb	22:32:37
3	V 292.402†	-1549.2	-134.5	-0.9414	ug/L	-0.9414 ppb	22:32:37
3	Zn 213.857†	564.3	12.3	0.1197	ug/L	0.1197 ppb	22:32:57
3	SiO2†	600.9	55.4	3.7952	ug/L	3.7952 ppb	22:33:12

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	896978.9	99.657	%	0.9406				0.94%
Sc Radial	3965.3	93.2	%	0.42				0.46%
Y 371.029	758229.1	99.447	%	0.9344				0.94%
Y RADIAL	4491.2	95.72	%	0.566				0.59%
Ag 328.068†	20.7	0.1010	ug/L	0.01363	0.1010	ppb	0.01363	13.50%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-14.0	-12.708	ug/L	18.9874	-12.708	ppb	18.9874	149.41%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-4.9	-2.1870	ug/L	2.40291	-2.1870	ppb	2.40291	109.87%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-92.3	-2.2033	ug/L	0.62308	-2.2033	ppb	0.62308	28.28%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	21.9	0.1698	ug/L	0.07489	0.1698	ppb	0.07489	44.11%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	81.6	0.0297	ug/L	0.01138	0.0297	ppb	0.01138	38.28%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	4.3	8.5738	ug/L	3.88575	8.5738	ppb	3.88575	45.32%

```
   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                -9.8     -0.1154 ug/L       0.04886     -0.1154 ppb        0.04886  42.32%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                -8.7     -0.1813 ug/L       0.14185     -0.1813 ppb        0.14185  78.22%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 0.4      0.0074 ug/L       0.02803      0.0074 ppb        0.02803 378.27%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                 6.7      0.0242 ug/L       0.22383      0.0242 ppb        0.22383 924.19%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.9     11.192 ug/L       22.3802     11.192 ppb        22.3802 199.97%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         350.1     65.493 ug/L       20.3646     65.493 ppb        20.3646  31.09%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -1.8    -82.857 ug/L       67.6611    -82.857 ppb        67.6611  81.66%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                27.0      0.0348 ug/L       0.01074      0.0348 ppb        0.01074  30.87%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 3.5      0.2582 ug/L       0.50997      0.2582 ppb        0.50997 197.55%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -27.5     -7.9878 ug/L       4.73519     -7.9878 ppb        4.73519  59.28%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                19.9      0.5056 ug/L       0.27923      0.5056 ppb        0.27923  55.23%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -2.4     -1.4506 ug/L       2.25461     -1.4506 ppb        2.25461 155.43%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                18.3      2.2706 ug/L       0.66534      2.2706 ppb        0.66534  29.30%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            6.7      9.7632 ug/L       4.97020      9.7632 ppb        4.97020  50.91%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 3.2      1.1052 ug/L       1.24842      1.1052 ppb        1.24842 112.95%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -10.6     -6.9414 ug/L       2.20207     -6.9414 ppb        2.20207  31.72%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                59.5      1.9056 ug/L       0.16225      1.9056 ppb        0.16225   8.51%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -0.1     -0.0175 ug/L       1.35109     -0.0175 ppb        1.35109 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                31.5      0.2089 ug/L       0.11377      0.2089 ppb        0.11377  54.45%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -194.7     -0.2837 ug/L       0.10057     -0.2837 ppb        0.10057  35.45%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.1      0.3396 ug/L       2.00118      0.3396 ppb        2.00118 589.33%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -242.2     -6.5465 ug/L       4.24568     -6.5465 ppb        4.24568  64.85%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                -95.4     -0.6744 ug/L       0.34413     -0.6744 ppb        0.34413  51.03%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                16.1      0.1566 ug/L       0.05368      0.1566 ppb        0.05368  34.27%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      57.9      3.9736 ug/L       0.15686      3.9736 ppb        0.15686   3.95%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 46
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/23/2010 23:09:24
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3963.7	3963.7	93.2	%			23:11:36
1	Y RADIAL	4405.5	4405.5	93.89	%			23:11:16
1	Al 396.153Radial†	5313.7	5813.1	5239.9	ug/L	5239.9	ppb	23:11:16
1	Ca 317.933Radial†	2563.1	2735.1	5441.7	ug/L	5441.7	ppb	23:11:36
1	Fe 238.204 Radial†	394.7	413.4	5340.7	ug/L	5340.7	ppb	23:11:36
1	K 766.490 Radial†	28883.4	28439.0	5313.9	ug/L	5313.9	ppb	23:11:16
1	Mg 279.077 IEC†	118.7	124.6	5662.0	ug/L	5662.0	ppb	23:11:36
1	Na 589.592 Radial†	32694.3	35825.6	10397	ug/L	10397	ppb	23:11:16
1	Sr 421.552†	72298.3	77548.8	513.94	ug/L	513.94	ppb	23:11:16
1	Sc 361.383	907323.5	907323.5	100.81	%			23:12:34
1	Y 371.029	754397.0	754397.0	98.945	%			23:12:34
1	Ag 328.068†	110397.4	109284.7	505.06	ug/L	505.06	ppb	23:12:39
1	As 188.979†	1129.8	1141.3	518.82	ug/L	518.82	ppb	23:12:59
1	B 249.677†	20275.1	20485.8	486.58	ug/L	486.58	ppb	23:12:39
1	Ba 233.527†	65010.5	64499.5	505.07	ug/L	505.07	ppb	23:12:39
1	Be 313.107†	1357457.6	1350448.6	504.41	ug/L	504.41	ppb	23:12:34
1	Cd 226.502†	44443.5	44271.2	513.73	ug/L	513.73	ppb	23:12:39
1	Co 228.616†	24548.6	24414.1	510.52	ug/L	510.52	ppb	23:12:39
1	Cr 267.716†	45459.9	45030.1	506.07	ug/L	506.07	ppb	23:12:39
1	Cu 324.752†	171704.1	164253.0	493.25	ug/L	493.25	ppb	23:12:39
1	Mn 257.610†	453863.0	449794.4	504.60	ug/L	504.60	ppb	23:12:34
1	Mo 202.031†	7018.8	6956.5	509.58	ug/L	509.58	ppb	23:12:59
1	Ni 231.604†	20349.7	20134.6	511.47	ug/L	511.47	ppb	23:12:39
1	P 214.914†	4485.7	4247.7	2481.4	ug/L	2481.4	ppb	23:12:59
1	Pb 220.353†	4128.9	4160.9	517.14	ug/L	517.14	ppb	23:12:59
1	S 181.975 Axial†	761.5	718.3	1051.3	ug/L	1051.3	ppb	23:12:59
1	Sb 206.836†	1511.0	1462.2	528.19	ug/L	528.19	ppb	23:12:59
1	Se 196.026†	763.2	777.8	530.96	ug/L	530.96	ppb	23:12:59
1	Si 251.611†	79642.2	78470.7	2511.1	ug/L	2511.1	ppb	23:12:39
1	Sn 189.927†	2913.1	2879.4	521.57	ug/L	521.57	ppb	23:12:59
1	Ti 334.940†	331871.5	330497.7	499.73	ug/L	499.73	ppb	23:12:34
1	Tl 190.801†	1569.1	1587.7	512.91	ug/L	512.91	ppb	23:12:59
1	U 409.014†	15189.5	17884.3	481.51	ug/L	481.51	ppb	23:12:39
1	V 292.402†	70873.9	71737.2	504.78	ug/L	504.78	ppb	23:12:39
1	Zn 213.857†	51742.9	50771.1	504.72	ug/L	504.72	ppb	23:12:39
1	SiO2†	80561.2	79365.0	5439.2	ug/L	5439.2	ppb	23:14:07
2	Sc Radial	3921.5	3921.5	92.2	%			23:12:01
2	Y RADIAL	4364.2	4364.2	93.01	%			23:11:41
2	Al 396.153Radial†	5272.6	5829.8	5254.7	ug/L	5254.7	ppb	23:11:41
2	Ca 317.933Radial†	2528.3	2726.9	5425.5	ug/L	5425.5	ppb	23:12:01
2	Fe 238.204 Radial†	387.4	410.0	5298.2	ug/L	5298.2	ppb	23:12:01
2	K 766.490 Radial†	28841.2	28726.3	5367.6	ug/L	5367.6	ppb	23:11:41
2	Mg 279.077 IEC†	114.0	120.9	5492.8	ug/L	5492.8	ppb	23:12:01
2	Na 589.592 Radial†	32676.4	36183.2	10501	ug/L	10501	ppb	23:11:41
2	Sr 421.552†	72029.7	78091.2	517.54	ug/L	517.54	ppb	23:11:41
2	Sc 361.383	897149.9	897149.9	99.676	%			23:13:05
2	Y 371.029	745043.7	745043.7	97.718	%			23:13:05
2	Ag 328.068†	110184.4	110312.9	509.80	ug/L	509.80	ppb	23:13:10
2	As 188.979†	1122.5	1146.7	521.23	ug/L	521.23	ppb	23:13:30
2	B 249.677†	20157.7	20596.1	489.20	ug/L	489.20	ppb	23:13:10
2	Ba 233.527†	65091.0	65311.5	511.42	ug/L	511.42	ppb	23:13:10
2	Be 313.107†	1343271.5	1351486.7	504.80	ug/L	504.80	ppb	23:13:05
2	Cd 226.502†	44413.6	44741.1	519.20	ug/L	519.20	ppb	23:13:10
2	Co 228.616†	24549.5	24691.2	516.32	ug/L	516.32	ppb	23:13:10
2	Cr 267.716†	45440.0	45521.6	511.59	ug/L	511.59	ppb	23:13:10
2	Cu 324.752†	170847.9	165325.6	496.47	ug/L	496.47	ppb	23:13:10
2	Mn 257.610†	450367.8	451393.4	506.39	ug/L	506.39	ppb	23:13:05
2	Mo 202.031†	7024.0	7040.8	515.74	ug/L	515.74	ppb	23:13:30
2	Ni 231.604†	20424.1	20438.1	519.18	ug/L	519.18	ppb	23:13:10

2	P 214.914†	4480.3	4292.8	2508.2 ug/L	2508.2 ppb	23:13:30
2	Pb 220.353†	4133.9	4212.4	523.54 ug/L	523.54 ppb	23:13:30
2	S 181.975 Axial†	757.1	722.5	1057.4 ug/L	1057.4 ppb	23:13:30
2	Sb 206.836†	1513.6	1481.8	535.21 ug/L	535.21 ppb	23:13:30
2	Se 196.026†	768.1	791.3	539.71 ug/L	539.71 ppb	23:13:30
2	Si 251.611†	79511.6	79235.6	2535.5 ug/L	2535.5 ppb	23:13:10
2	Sn 189.927†	2899.0	2898.0	524.94 ug/L	524.94 ppb	23:13:30
2	Ti 334.940†	329056.2	331406.5	501.11 ug/L	501.11 ppb	23:13:05
2	Tl 190.801†	1570.5	1606.8	518.99 ug/L	518.99 ppb	23:13:30
2	U 409.014†	14918.2	17782.8	478.76 ug/L	478.76 ppb	23:13:10
2	V 292.402†	70998.4	72659.4	511.26 ug/L	511.26 ppb	23:13:10
2	Zn 213.857†	51655.4	51265.4	509.64 ug/L	509.64 ppb	23:13:10
2	SiO2†	78936.9	78641.8	5389.3 ug/L	5389.3 ppb	23:14:12
3	Sc Radial	3923.2	3923.2	92.2 %		23:12:27
3	Y RADIAL	4475.7	4475.7	95.39 %		23:12:06
3	Al 396.153Radial†	5385.1	5949.3	5363.0 ug/L	5363.0 ppb	23:12:06
3	Ca 317.933Radial†	2539.4	2737.7	5447.0 ug/L	5447.0 ppb	23:12:27
3	Fe 238.204 Radial†	387.5	410.0	5297.3 ug/L	5297.3 ppb	23:12:27
3	K 766.490 Radial†	29275.4	29183.5	5453.1 ug/L	5453.1 ppb	23:12:06
3	Mg 279.077 IEC†	115.2	122.1	5549.6 ug/L	5549.6 ppb	23:12:27
3	Na 589.592 Radial†	32988.9	36506.7	10594 ug/L	10594 ppb	23:12:06
3	Sr 421.552†	73650.3	79814.5	528.96 ug/L	528.96 ppb	23:12:06
3	Sc 361.383	894029.5	894029.5	99.330 %		23:13:36
3	Y 371.029	743180.0	743180.0	97.474 %		23:13:36
3	Ag 328.068†	110038.0	110551.3	510.89 ug/L	510.89 ppb	23:13:42
3	As 188.979†	1130.8	1159.0	526.78 ug/L	526.78 ppb	23:14:02
3	B 249.677†	20139.0	20647.9	490.44 ug/L	490.44 ppb	23:13:42
3	Ba 233.527†	64710.1	65156.0	510.21 ug/L	510.21 ppb	23:13:42
3	Be 313.107†	1336578.8	1349452.5	504.04 ug/L	504.04 ppb	23:13:36
3	Cd 226.502†	44107.7	44588.7	517.43 ug/L	517.43 ppb	23:13:42
3	Co 228.616†	24390.5	24617.0	514.77 ug/L	514.77 ppb	23:13:42
3	Cr 267.716†	45274.6	45514.1	511.50 ug/L	511.50 ppb	23:13:42
3	Cu 324.752†	170865.7	165941.7	498.32 ug/L	498.32 ppb	23:13:42
3	Mn 257.610†	447523.7	450107.2	504.95 ug/L	504.95 ppb	23:13:36
3	Mo 202.031†	6977.9	7018.9	514.14 ug/L	514.14 ppb	23:14:02
3	Ni 231.604†	20185.4	20269.3	514.89 ug/L	514.89 ppb	23:13:42
3	P 214.914†	4469.7	4297.8	2510.9 ug/L	2510.9 ppb	23:14:02
3	Pb 220.353†	4130.8	4223.7	524.97 ug/L	524.97 ppb	23:14:02
3	S 181.975 Axial†	756.7	724.7	1060.7 ug/L	1060.7 ppb	23:14:02
3	Sb 206.836†	1506.0	1479.5	534.38 ug/L	534.38 ppb	23:14:02
3	Se 196.026†	763.9	789.8	538.74 ug/L	538.74 ppb	23:14:02
3	Si 251.611†	79305.9	79307.0	2537.8 ug/L	2537.8 ppb	23:13:42
3	Sn 189.927†	2890.5	2899.6	525.23 ug/L	525.23 ppb	23:14:02
3	Ti 334.940†	327444.3	330936.0	500.40 ug/L	500.40 ppb	23:13:36
3	Tl 190.801†	1563.5	1605.3	518.52 ug/L	518.52 ppb	23:14:02
3	U 409.014†	14976.8	17894.2	481.77 ug/L	481.77 ppb	23:13:42
3	V 292.402†	70674.3	72581.7	510.71 ug/L	510.71 ppb	23:13:42
3	Zn 213.857†	51423.8	51213.2	509.14 ug/L	509.14 ppb	23:13:42
3	SiO2†	79150.7	79133.4	5423.1 ug/L	5423.1 ppb	23:14:17

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	899501.0	99.938	%	0.7724				0.77%
Sc Radial	3936.1	92.5	%	0.56				0.61%
Y 371.029	747540.2	98.045	%	0.7884				0.80%
Y RADIAL	4415.1	94.10	%	1.202				1.28%
Ag 328.068†	110049.6	508.58	ug/L	3.098	508.58	ppb	3.098	0.61%
QC value within limits for Ag 328.068 Recovery = 101.72%								
Al 396.153Radial†	5864.1	5285.9	ug/L	67.23	5285.9	ppb	67.23	1.27%
QC value within limits for Al 396.153Radial Recovery = 105.72%								
As 188.979†	1149.0	522.28	ug/L	4.083	522.28	ppb	4.083	0.78%
QC value within limits for As 188.979 Recovery = 104.46%								
B 249.677†	20576.6	488.74	ug/L	1.972	488.74	ppb	1.972	0.40%
QC value within limits for B 249.677 Recovery = 97.75%								
Ba 233.527†	64989.0	508.90	ug/L	3.374	508.90	ppb	3.374	0.66%
QC value within limits for Ba 233.527 Recovery = 101.78%								
Be 313.107†	1350462.6	504.42	ug/L	0.380	504.42	ppb	0.380	0.08%
QC value within limits for Be 313.107 Recovery = 100.88%								
Ca 317.933Radial†	2733.2	5438.0	ug/L	11.21	5438.0	ppb	11.21	0.21%

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   QC value within limits for Ca 317.933Radial  Recovery = 108.76%
Cd 226.502†            44533.7      516.79 ug/L          2.787      516.79 ppb          2.787   0.54%
   QC value within limits for Cd 226.502  Recovery = 103.36%
Co 228.616†            24574.1      513.87 ug/L          3.005      513.87 ppb          3.005   0.58%
   QC value within limits for Co 228.616  Recovery = 102.77%
Cr 267.716†            45355.3      509.72 ug/L          3.162      509.72 ppb          3.162   0.62%
   QC value within limits for Cr 267.716  Recovery = 101.94%
Cu 324.752†           165173.4      496.01 ug/L          2.565      496.01 ppb          2.565   0.52%
   QC value within limits for Cu 324.752  Recovery = 99.20%
Fe 238.204 Radial†       411.1      5312.1 ug/L         24.82      5312.1 ppb         24.82   0.47%
   QC value within limits for Fe 238.204 Radial  Recovery = 106.24%
K 766.490 Radial†      28782.9      5378.2 ug/L         70.21      5378.2 ppb         70.21   1.31%
   QC value within limits for K 766.490 Radial  Recovery = 107.56%
Mg 279.077 IEC†          122.5      5568.1 ug/L         86.14      5568.1 ppb         86.14   1.55%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 111.36%
Mn 257.610†           450431.6      505.31 ug/L          0.952      505.31 ppb          0.952   0.19%
   QC value within limits for Mn 257.610  Recovery = 101.06%
Mo 202.031†             7005.4      513.15 ug/L          3.196      513.15 ppb          3.196   0.62%
   QC value within limits for Mo 202.031  Recovery = 102.63%
Na 589.592 Radial†     36171.9       10497 ug/L         98.9        10497 ppb         98.9   0.94%
   QC value within limits for Na 589.592 Radial  Recovery = 104.97%
Ni 231.604†            20280.7      515.18 ug/L          3.864      515.18 ppb          3.864   0.75%
   QC value within limits for Ni 231.604  Recovery = 103.04%
P 214.914†              4279.5      2500.2 ug/L         16.30      2500.2 ppb         16.30   0.65%
   QC value within limits for P 214.914  Recovery = 100.01%
Pb 220.353†             4199.0      521.88 ug/L          4.168      521.88 ppb          4.168   0.80%
   QC value within limits for Pb 220.353  Recovery = 104.38%
S 181.975 Axial†         721.9      1056.5 ug/L          4.75      1056.5 ppb          4.75   0.45%
   QC value within limits for S 181.975 Axial  Recovery = 105.65%
Sb 206.836†             1474.5      532.59 ug/L          3.836      532.59 ppb          3.836   0.72%
   QC value within limits for Sb 206.836  Recovery = 106.52%
Se 196.026†              786.3      536.47 ug/L          4.795      536.47 ppb          4.795   0.89%
   QC value within limits for Se 196.026  Recovery = 107.29%
Si 251.611†            79004.4      2528.1 ug/L         14.83      2528.1 ppb         14.83   0.59%
   QC value within limits for Si 251.611  Recovery = 101.13%
Sn 189.927†             2892.3      523.92 ug/L          2.033      523.92 ppb          2.033   0.39%
   QC value within limits for Sn 189.927  Recovery = 104.78%
Sr 421.552†            78484.8      520.15 ug/L          7.841      520.15 ppb          7.841   1.51%
   QC value within limits for Sr 421.552  Recovery = 104.03%
Ti 334.940†           330946.7      500.41 ug/L          0.693      500.41 ppb          0.693   0.14%
   QC value within limits for Ti 334.940  Recovery = 100.08%
Tl 190.801†             1599.9      516.81 ug/L          3.386      516.81 ppb          3.386   0.66%
   QC value within limits for Tl 190.801  Recovery = 103.36%
U 409.014†             17853.8      480.68 ug/L          1.667      480.68 ppb          1.667   0.35%
   QC value within limits for U 409.014  Recovery = 96.14%
V 292.402†             72326.1      508.92 ug/L          3.594      508.92 ppb          3.594   0.71%
   QC value within limits for V 292.402  Recovery = 101.78%
Zn 213.857†            51083.2      507.83 ug/L          2.704      507.83 ppb          2.704   0.53%
   QC value within limits for Zn 213.857  Recovery = 101.57%
SiO2†                  79046.7      5417.2 ug/L         25.45      5417.2 ppb         25.45   0.47%
   QC value within limits for SiO2  Recovery = 101.30%
QC Failed.  Continue with analysis.
```

Sequence No.: 47
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/23/2010 23:16:27
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	3983.1	3983.1	93.6	%			23:18:39
1	Y RADIAL	4442.8	4442.8	94.69	%			23:18:19
1	Al 396.153Radial†	-131.3	-29.4	-26.676	ug/L	-26.676	ppb	23:18:19
1	Ca 317.933Radial†	17.7	3.4	6.7546	ug/L	6.7546	ppb	23:18:39
1	Fe 238.204 Radial†	9.2	-0.4	-4.5428	ug/L	-4.5428	ppb	23:18:39
1	K 766.490 Radial†	2794.5	427.5	79.984	ug/L	79.984	ppb	23:18:19
1	Mg 279.077 IEC†	0.7	-2.0	-89.827	ug/L	-89.827	ppb	23:18:39
1	Na 589.592 Radial†	-789.0	-102.2	-29.654	ug/L	-29.654	ppb	23:18:19
1	Sr 421.552†	96.8	66.6	0.4416	ug/L	0.4416	ppb	23:18:19
1	Sc 361.383	894012.1	894012.1	99.328	%			23:19:36
1	Y 371.029	755366.5	755366.5	99.072	%			23:19:36
1	Ag 328.068†	237.1	9.4	0.0431	ug/L	0.0431	ppb	23:19:36
1	As 188.979†	-25.1	-4.8	-2.1528	ug/L	-2.1528	ppb	23:19:56
1	B 249.677†	-452.0	-82.1	-1.9583	ug/L	-1.9583	ppb	23:19:56
1	Ba 233.527†	7.8	17.0	0.1307	ug/L	0.1307	ppb	23:19:56
1	Be 313.107†	-3835.9	-8.6	-0.0038	ug/L	-0.0038	ppb	23:19:36
1	Cd 226.502†	-192.4	-10.4	-0.1215	ug/L	-0.1215	ppb	23:19:56
1	Co 228.616†	-70.7	-9.3	-0.1917	ug/L	-0.1917	ppb	23:19:56
1	Cr 267.716†	69.6	4.1	0.0465	ug/L	0.0465	ppb	23:19:56
1	Cu 324.752†	6139.7	104.1	0.3157	ug/L	0.3157	ppb	23:19:36
1	Mn 257.610†	448.9	15.1	0.0201	ug/L	0.0201	ppb	23:19:56
1	Mo 202.031†	17.4	11.4	0.8368	ug/L	0.8368	ppb	23:19:56
1	Ni 231.604†	56.3	4.4	0.1114	ug/L	0.1114	ppb	23:19:56
1	P 214.914†	200.0	-0.7	-0.4454	ug/L	-0.4454	ppb	23:19:56
1	Pb 220.353†	-56.4	8.3	1.0241	ug/L	1.0241	ppb	23:19:56
1	S 181.975 Axial†	38.9	2.2	3.1718	ug/L	3.1718	ppb	23:19:56
1	Sb 206.836†	35.7	-0.8	-0.2187	ug/L	-0.2187	ppb	23:19:56
1	Se 196.026†	-20.9	-0.3	-0.2356	ug/L	-0.2356	ppb	23:19:56
1	Si 251.611†	602.8	72.7	2.3231	ug/L	2.3231	ppb	23:19:56
1	Sn 189.927†	23.0	12.7	2.2950	ug/L	2.2950	ppb	23:19:56
1	Ti 334.940†	-1439.0	-166.9	-0.2416	ug/L	-0.2416	ppb	23:19:36
1	Tl 190.801†	-31.6	-0.6	-0.1883	ug/L	-0.1883	ppb	23:19:56
1	U 409.014†	-3016.2	-220.4	-5.9550	ug/L	-5.9550	ppb	23:19:36
1	V 292.402†	-1536.2	-116.2	-0.8072	ug/L	-0.8072	ppb	23:19:36
1	Zn 213.857†	568.7	14.8	0.1482	ug/L	0.1482	ppb	23:19:56
1	SiO2†	630.3	83.0	5.6834	ug/L	5.6834	ppb	23:20:52
2	Sc Radial	3946.0	3946.0	92.8	%			23:19:04
2	Y RADIAL	4517.5	4517.5	96.28	%			23:18:44
2	Al 396.153Radial†	-106.5	-4.0	-3.6190	ug/L	-3.6190	ppb	23:18:44
2	Ca 317.933Radial†	17.3	3.2	6.3777	ug/L	6.3777	ppb	23:19:04
2	Fe 238.204 Radial†	11.5	2.3	29.009	ug/L	29.009	ppb	23:19:04
2	K 766.490 Radial†	2755.2	413.1	77.305	ug/L	77.305	ppb	23:18:44
2	Mg 279.077 IEC†	2.6	0.0	1.1464	ug/L	1.1464	ppb	23:19:04
2	Na 589.592 Radial†	-818.3	-141.7	-41.134	ug/L	-41.134	ppb	23:18:44
2	Sr 421.552†	12.3	-23.5	-0.1557	ug/L	-0.1557	ppb	23:18:44
2	Sc 361.383	896804.0	896804.0	99.638	%			23:20:01
2	Y 371.029	757231.2	757231.2	99.317	%			23:20:01
2	Ag 328.068†	204.8	-23.7	-0.0963	ug/L	-0.0963	ppb	23:20:01
2	As 188.979†	-18.0	2.5	1.1330	ug/L	1.1330	ppb	23:20:21
2	B 249.677†	-498.5	-127.3	-3.0429	ug/L	-3.0429	ppb	23:20:21
2	Ba 233.527†	9.8	19.0	0.1485	ug/L	0.1485	ppb	23:20:21
2	Be 313.107†	-3880.7	-41.6	-0.0161	ug/L	-0.0161	ppb	23:20:01
2	Cd 226.502†	-197.9	-15.3	-0.1814	ug/L	-0.1814	ppb	23:20:21
2	Co 228.616†	-67.1	-5.4	-0.1133	ug/L	-0.1133	ppb	23:20:21
2	Cr 267.716†	76.3	10.6	0.1239	ug/L	0.1239	ppb	23:20:21
2	Cu 324.752†	6024.5	-30.7	-0.0870	ug/L	-0.0870	ppb	23:20:01
2	Mn 257.610†	461.5	26.3	0.0324	ug/L	0.0324	ppb	23:20:21
2	Mo 202.031†	7.9	1.8	0.1359	ug/L	0.1359	ppb	23:20:21
2	Ni 231.604†	71.9	19.9	0.5049	ug/L	0.5049	ppb	23:20:21

2	P 214.914†	201.6	0.3	0.1909 ug/L	0.1909 ppb	23:20:21
2	Pb 220.353†	-41.6	23.3	2.8822 ug/L	2.8822 ppb	23:20:21
2	S 181.975 Axial†	38.7	1.8	2.6897 ug/L	2.6897 ppb	23:20:21
2	Sb 206.836†	44.0	7.4	2.6019 ug/L	2.6019 ppb	23:20:21
2	Se 196.026†	-36.8	-16.2	-10.587 ug/L	-10.587 ppb	23:20:21
2	Si 251.611†	598.0	66.0	2.1153 ug/L	2.1153 ppb	23:20:21
2	Sn 189.927†	13.9	3.5	0.6338 ug/L	0.6338 ppb	23:20:21
2	Ti 334.940†	-1442.0	-165.4	-0.2466 ug/L	-0.2466 ppb	23:20:01
2	Tl 190.801†	-19.7	11.5	3.6849 ug/L	3.6849 ppb	23:20:21
2	U 409.014†	-3052.6	-247.5	-6.6903 ug/L	-6.6903 ppb	23:20:01
2	V 292.402†	-1481.9	-56.9	-0.4097 ug/L	-0.4097 ppb	23:20:01
2	Zn 213.857†	585.8	30.3	0.2963 ug/L	0.2963 ppb	23:20:21
2	SiO2†	656.3	107.2	7.3627 ug/L	7.3627 ppb	23:20:57
3	Sc Radial	3978.1	3978.1	93.5 %		23:19:29
3	Y RADIAL	4588.1	4588.1	97.78 %		23:19:09
3	Al 396.153Radial†	-101.2	2.6	2.3117 ug/L	2.3117 ppb	23:19:09
3	Ca 317.933Radial†	14.6	0.2	0.3040 ug/L	0.3040 ppb	23:19:29
3	Fe 238.204 Radial†	11.0	1.5	19.859 ug/L	19.859 ppb	23:19:29
3	K 766.490 Radial†	2831.0	470.3	87.991 ug/L	87.991 ppb	23:19:09
3	Mg 279.077 IEC†	0.7	-2.0	-90.406 ug/L	-90.406 ppb	23:19:29
3	Na 589.592 Radial†	-795.9	-110.7	-32.113 ug/L	-32.113 ppb	23:19:09
3	Sr 421.552†	22.3	-13.0	-0.0858 ug/L	-0.0858 ppb	23:19:09
3	Sc 361.383	894633.2	894633.2	99.397 %		23:20:26
3	Y 371.029	755399.8	755399.8	99.076 %		23:20:26
3	Ag 328.068†	242.6	14.8	0.0753 ug/L	0.0753 ppb	23:20:26
3	As 188.979†	-11.1	9.4	4.2183 ug/L	4.2183 ppb	23:20:47
3	B 249.677†	-504.8	-134.9	-3.2219 ug/L	-3.2219 ppb	23:20:47
3	Ba 233.527†	-4.4	4.7	0.0353 ug/L	0.0353 ppb	23:20:47
3	Be 313.107†	-3835.9	-6.0	-0.0029 ug/L	-0.0029 ppb	23:20:26
3	Cd 226.502†	-207.8	-25.8	-0.3027 ug/L	-0.3027 ppb	23:20:47
3	Co 228.616†	-74.1	-12.6	-0.2636 ug/L	-0.2636 ppb	23:20:47
3	Cr 267.716†	60.7	-4.9	-0.0516 ug/L	-0.0516 ppb	23:20:47
3	Cu 324.752†	6045.5	5.1	0.0202 ug/L	0.0202 ppb	23:20:26
3	Mn 257.610†	454.3	20.2	0.0283 ug/L	0.0283 ppb	23:20:47
3	Mo 202.031†	8.8	2.8	0.2030 ug/L	0.2030 ppb	23:20:47
3	Ni 231.604†	55.6	3.6	0.0910 ug/L	0.0910 ppb	23:20:47
3	P 214.914†	206.0	5.2	3.1575 ug/L	3.1575 ppb	23:20:47
3	Pb 220.353†	-46.7	18.0	2.2306 ug/L	2.2306 ppb	23:20:47
3	S 181.975 Axial†	41.9	5.2	7.5590 ug/L	7.5590 ppb	23:20:47
3	Sb 206.836†	29.4	-7.1	-2.4578 ug/L	-2.4578 ppb	23:20:47
3	Se 196.026†	-34.1	-13.6	-8.8851 ug/L	-8.8851 ppb	23:20:47
3	Si 251.611†	596.7	66.2	2.1201 ug/L	2.1201 ppb	23:20:47
3	Sn 189.927†	16.7	6.4	1.1552 ug/L	1.1552 ppb	23:20:47
3	Ti 334.940†	-1473.0	-200.1	-0.2922 ug/L	-0.2922 ppb	23:20:26
3	Tl 190.801†	-49.0	-18.1	-5.8163 ug/L	-5.8163 ppb	23:20:47
3	U 409.014†	-3049.6	-251.9	-6.8085 ug/L	-6.8085 ppb	23:20:26
3	V 292.402†	-1566.8	-145.9	-1.0275 ug/L	-1.0275 ppb	23:20:26
3	Zn 213.857†	575.4	21.1	0.2086 ug/L	0.2086 ppb	23:20:47
3	SiO2†	587.5	39.6	2.7157 ug/L	2.7157 ppb	23:21:02

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	895149.8	99.454	%	0.1629				0.16%
Sc Radial	3969.1	93.3	%	0.47				0.51%
Y 371.029	755999.2	99.155	%	0.1400				0.14%
Y RADIAL	4516.1	96.25	%	1.548				1.61%
Ag 328.068†	0.1	0.0074	ug/L	0.09123	0.0074	ppb	0.09123	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-10.3	-9.3276	ug/L	15.31359	-9.3276	ppb	15.31359	164.17%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	2.4	1.0662	ug/L	3.18610	1.0662	ppb	3.18610	298.84%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-114.8	-2.7410	ug/L	0.68375	-2.7410	ppb	0.68375	24.95%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	13.6	0.1048	ug/L	0.06088	0.1048	ppb	0.06088	58.07%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-18.7	-0.0076	ug/L	0.00736	-0.0076	ppb	0.00736	97.08%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.3	4.4787	ug/L	3.62034	4.4787	ppb	3.62034	80.83%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -17.2     -0.2018 ug/L       0.09234     -0.2018 ppb        0.09234  45.75%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               -9.1     -0.1895 ug/L       0.07515     -0.1895 ppb        0.07515  39.65%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                3.3      0.0396 ug/L       0.08793      0.0396 ppb        0.08793 222.02%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               26.2      0.0830 ug/L       0.20858      0.0830 ppb        0.20858 251.36%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.1     14.775 ug/L       17.3438     14.775 ppb        17.3438 117.39%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        437.0     81.760 ug/L        5.5601     81.760 ppb         5.5601   6.80%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.3    -59.696 ug/L       52.6915    -59.696 ppb        52.6915  88.27%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               20.5      0.0269 ug/L       0.00622      0.0269 ppb        0.00622  23.11%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                5.3      0.3919 ug/L       0.38675      0.3919 ppb        0.38675  98.68%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      -118.2    -34.300 ug/L        6.0445    -34.300 ppb         6.0445  17.62%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                9.3      0.2358 ug/L       0.23326      0.2358 ppb        0.23326  98.93%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 1.6      0.9676 ug/L       1.92293      0.9676 ppb        1.92293 198.72%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               16.5      2.0456 ug/L       0.94277      2.0456 ppb        0.94277  46.09%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           3.1      4.4735 ug/L       2.68297      4.4735 ppb        2.68297  59.97%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -0.2     -0.0249 ug/L       2.53542     -0.0249 ppb        2.53542 >999.9%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -10.0     -6.5691 ug/L       5.55065     -6.5691 ppb        5.55065  84.50%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               68.3      2.1861 ug/L       0.11860      2.1861 ppb        0.11860   5.42%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                7.5      1.3613 ug/L       0.84958      1.3613 ppb        0.84958  62.41%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               10.1      0.0667 ug/L       0.32657      0.0667 ppb        0.32657 489.70%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -177.5     -0.2601 ug/L       0.02791     -0.2601 ppb        0.02791  10.73%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -2.4     -0.7732 ug/L       4.77753     -0.7732 ppb        4.77753 617.88%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              -239.9     -6.4846 ug/L       0.46244     -6.4846 ppb        0.46244   7.13%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†              -106.3     -0.7481 ug/L       0.31314     -0.7481 ppb        0.31314  41.86%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               22.1      0.2177 ug/L       0.07448      0.2177 ppb        0.07448  34.21%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     76.6      5.2539 ug/L       2.35304      5.2539 ppb        2.35304  44.79%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 54
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/24/2010 00:05:02
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3900.0	3900.0	91.7	%			00:07:14
1	Y RADIAL	4424.4	4424.4	94.30	%			00:06:54
1	Al 396.153Radial†	5359.1	5955.7	5369.0	ug/L	5369.0	ppb	00:06:54
1	Ca 317.933Radial†	2533.9	2748.1	5467.7	ug/L	5467.7	ppb	00:07:14
1	Fe 238.204 Radial†	386.0	410.8	5308.3	ug/L	5308.3	ppb	00:07:14
1	K 766.490 Radial†	29175.4	29263.2	5467.9	ug/L	5467.9	ppb	00:06:54
1	Mg 279.077 IEC†	114.0	121.5	5523.4	ug/L	5523.4	ppb	00:07:14
1	Na 589.592 Radial†	33476.9	37251.7	10811	ug/L	10811	ppb	00:06:54
1	Sr 421.552†	73501.6	80127.3	531.03	ug/L	531.03	ppb	00:06:54
1	Sc 361.383	902167.3	902167.3	100.23	%			00:08:11
1	Y 371.029	750751.6	750751.6	98.467	%			00:08:11
1	Ag 328.068†	109690.3	109205.2	504.69	ug/L	504.69	ppb	00:08:16
1	As 188.979†	1124.1	1142.0	519.10	ug/L	519.10	ppb	00:08:37
1	B 249.677†	20035.2	20361.4	483.62	ug/L	483.62	ppb	00:08:16
1	Ba 233.527†	64681.2	64539.5	505.38	ug/L	505.38	ppb	00:08:16
1	Be 313.107†	1343530.3	1344250.1	502.09	ug/L	502.09	ppb	00:08:11
1	Cd 226.502†	44041.3	44121.9	512.00	ug/L	512.00	ppb	00:08:16
1	Co 228.616†	24276.9	24282.2	507.77	ug/L	507.77	ppb	00:08:16
1	Cr 267.716†	45213.4	45042.0	506.20	ug/L	506.20	ppb	00:08:16
1	Cu 324.752†	170536.3	164061.5	492.67	ug/L	492.67	ppb	00:08:16
1	Mn 257.610†	447204.2	445724.3	500.04	ug/L	500.04	ppb	00:08:11
1	Mo 202.031†	6989.0	6966.6	510.31	ug/L	510.31	ppb	00:08:37
1	Ni 231.604†	20254.4	20154.9	511.99	ug/L	511.99	ppb	00:08:16
1	P 214.914†	4454.0	4241.6	2477.8	ug/L	2477.8	ppb	00:08:37
1	Pb 220.353†	4086.0	4141.5	514.77	ug/L	514.77	ppb	00:08:37
1	S 181.975 Axial†	760.9	722.1	1056.9	ug/L	1056.9	ppb	00:08:37
1	Sb 206.836†	1501.8	1461.6	527.94	ug/L	527.94	ppb	00:08:37
1	Se 196.026†	741.4	760.4	519.36	ug/L	519.36	ppb	00:08:37
1	Si 251.611†	78962.8	78244.5	2503.8	ug/L	2503.8	ppb	00:08:16
1	Sn 189.927†	2876.3	2859.1	517.92	ug/L	517.92	ppb	00:08:37
1	Ti 334.940†	327553.6	328071.4	496.07	ug/L	496.07	ppb	00:08:11
1	Tl 190.801†	1564.5	1592.1	514.26	ug/L	514.26	ppb	00:08:37
1	U 409.014†	15036.6	17817.8	479.71	ug/L	479.71	ppb	00:08:16
1	V 292.402†	70693.9	71959.4	506.34	ug/L	506.34	ppb	00:08:16
1	Zn 213.857†	51344.2	50666.7	503.68	ug/L	503.68	ppb	00:08:16
1	SiO2†	78426.3	77691.9	5324.2	ug/L	5324.2	ppb	00:09:44
2	Sc Radial	3924.8	3924.8	92.3	%			00:07:39
2	Y RADIAL	4412.9	4412.9	94.05	%			00:07:19
2	Al 396.153Radial†	5330.4	5887.7	5307.6	ug/L	5307.6	ppb	00:07:19
2	Ca 317.933Radial†	2534.8	2731.7	5435.0	ug/L	5435.0	ppb	00:07:39
2	Fe 238.204 Radial†	376.2	397.5	5136.8	ug/L	5136.8	ppb	00:07:39
2	K 766.490 Radial†	29094.2	28974.5	5414.0	ug/L	5414.0	ppb	00:07:19
2	Mg 279.077 IEC†	116.0	122.9	5587.4	ug/L	5587.4	ppb	00:07:39
2	Na 589.592 Radial†	33284.0	36812.3	10683	ug/L	10683	ppb	00:07:19
2	Sr 421.552†	73206.3	79301.6	525.56	ug/L	525.56	ppb	00:07:19
2	Sc 361.383	900374.6	900374.6	100.03	%			00:08:43
2	Y 371.029	748682.1	748682.1	98.195	%			00:08:43
2	Ag 328.068†	110865.0	110597.3	511.05	ug/L	511.05	ppb	00:08:48
2	As 188.979†	1106.7	1126.8	512.22	ug/L	512.22	ppb	00:09:08
2	B 249.677†	20371.9	20737.8	492.61	ug/L	492.61	ppb	00:08:48
2	Ba 233.527†	65488.3	65474.7	512.69	ug/L	512.69	ppb	00:08:48
2	Be 313.107†	1341511.1	1344900.4	502.34	ug/L	502.34	ppb	00:08:43
2	Cd 226.502†	44525.3	44693.2	518.66	ug/L	518.66	ppb	00:08:48
2	Co 228.616†	24628.0	24681.4	516.11	ug/L	516.11	ppb	00:08:48
2	Cr 267.716†	45715.8	45634.0	512.83	ug/L	512.83	ppb	00:08:48
2	Cu 324.752†	172222.7	166086.0	498.74	ug/L	498.74	ppb	00:08:48
2	Mn 257.610†	447453.3	446861.7	501.29	ug/L	501.29	ppb	00:08:43
2	Mo 202.031†	6939.7	6931.2	507.71	ug/L	507.71	ppb	00:09:08
2	Ni 231.604†	20480.3	20420.9	518.75	ug/L	518.75	ppb	00:08:48

2	P 214.914†	4392.9	4189.4	2445.0	ug/L	2445.0 ppb	00:09:08
2	Pb 220.353†	4083.8	4147.4	515.50	ug/L	515.50 ppb	00:09:08
2	S 181.975 Axial†	744.0	706.7	1034.3	ug/L	1034.3 ppb	00:09:08
2	Sb 206.836†	1490.3	1453.1	524.88	ug/L	524.88 ppb	00:09:08
2	Se 196.026†	752.3	772.7	526.96	ug/L	526.96 ppb	00:09:08
2	Si 251.611†	79896.7	79335.0	2538.8	ug/L	2538.8 ppb	00:08:48
2	Sn 189.927†	2848.9	2837.5	514.01	ug/L	514.01 ppb	00:09:08
2	Ti 334.940†	327462.7	328631.2	496.91	ug/L	496.91 ppb	00:08:43
2	Tl 190.801†	1545.4	1576.1	509.10	ug/L	509.10 ppb	00:09:08
2	U 409.014†	15274.5	18085.5	486.95	ug/L	486.95 ppb	00:08:48
2	V 292.402†	71292.2	72698.0	511.46	ug/L	511.46 ppb	00:08:48
2	Zn 213.857†	52005.3	51429.6	511.31	ug/L	511.31 ppb	00:08:48
2	SiO2†	80008.9	79429.7	5443.7	ug/L	5443.7 ppb	00:09:50
3	Sc Radial	3926.5	3926.5	92.3	%		00:08:04
3	Y RADIAL	4491.7	4491.7	95.73	%		00:07:44
3	Al 396.153Radial†	5436.5	6000.1	5409.0	ug/L	5409.0 ppb	00:07:44
3	Ca 317.933Radial†	2529.2	2724.4	5420.5	ug/L	5420.5 ppb	00:08:04
3	Fe 238.204 Radial†	380.5	402.0	5194.6	ug/L	5194.6 ppb	00:08:04
3	K 766.490 Radial†	29512.1	29413.7	5496.1	ug/L	5496.1 ppb	00:07:44
3	Mg 279.077 IEC†	113.5	120.2	5463.5	ug/L	5463.5 ppb	00:08:04
3	Na 589.592 Radial†	33611.2	37151.4	10781	ug/L	10781 ppb	00:07:44
3	Sr 421.552†	74234.7	80381.7	532.72	ug/L	532.72 ppb	00:07:44
3	Sc 361.383	889350.2	889350.2	98.810	%		00:09:14
3	Y 371.029	740152.9	740152.9	97.077	%		00:09:14
3	Ag 328.068†	108541.0	109619.2	506.57	ug/L	506.57 ppb	00:09:19
3	As 188.979†	1121.1	1155.1	524.98	ug/L	524.98 ppb	00:09:39
3	B 249.677†	19852.3	20464.3	486.10	ug/L	486.10 ppb	00:09:19
3	Ba 233.527†	63865.4	64643.8	506.19	ug/L	506.19 ppb	00:09:19
3	Be 313.107†	1322336.3	1342118.1	501.30	ug/L	501.30 ppb	00:09:14
3	Cd 226.502†	43431.8	44138.3	512.20	ug/L	512.20 ppb	00:09:19
3	Co 228.616†	23929.1	24279.2	507.72	ug/L	507.72 ppb	00:09:19
3	Cr 267.716†	44733.0	45205.8	508.03	ug/L	508.03 ppb	00:09:19
3	Cu 324.752†	168191.6	164140.5	492.91	ug/L	492.91 ppb	00:09:19
3	Mn 257.610†	441009.2	445884.7	500.21	ug/L	500.21 ppb	00:09:14
3	Mo 202.031†	6959.0	7036.8	515.44	ug/L	515.44 ppb	00:09:39
3	Ni 231.604†	19930.3	20118.1	511.05	ug/L	511.05 ppb	00:09:19
3	P 214.914†	4424.8	4276.1	2498.8	ug/L	2498.8 ppb	00:09:39
3	Pb 220.353†	4074.9	4189.0	520.70	ug/L	520.70 ppb	00:09:39
3	S 181.975 Axial†	757.4	729.5	1067.7	ug/L	1067.7 ppb	00:09:39
3	Sb 206.836†	1495.7	1477.0	533.51	ug/L	533.51 ppb	00:09:39
3	Se 196.026†	743.8	773.5	527.67	ug/L	527.67 ppb	00:09:39
3	Si 251.611†	77960.0	78364.9	2507.6	ug/L	2507.6 ppb	00:09:19
3	Sn 189.927†	2861.3	2885.3	522.65	ug/L	522.65 ppb	00:09:39
3	Ti 334.940†	322720.7	327890.0	495.80	ug/L	495.80 ppb	00:09:14
3	Tl 190.801†	1560.4	1610.4	520.14	ug/L	520.14 ppb	00:09:39
3	U 409.014†	14580.2	17572.1	473.09	ug/L	473.09 ppb	00:09:19
3	V 292.402†	69756.6	72027.3	506.88	ug/L	506.88 ppb	00:09:19
3	Zn 213.857†	50606.0	50657.9	503.61	ug/L	503.61 ppb	00:09:19
3	SiO2†	78123.4	78512.9	5380.5	ug/L	5380.5 ppb	00:09:55

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	897297.4	99.693	%	0.7711				0.77%
Sc Radial	3917.1	92.1	%	0.35				0.38%
Y 371.029	746528.9	97.913	%	0.7368				0.75%
Y RADIAL	4443.0	94.69	%	0.907				0.96%
Ag 328.068†	109807.2	507.44	ug/L	3.266	507.44	ppb	3.266	0.64%
QC value within limits for Ag 328.068 Recovery = 101.49%								
Al 396.153Radial†	5947.8	5361.9	ug/L	51.08	5361.9	ppb	51.08	0.95%
QC value within limits for Al 396.153Radial Recovery = 107.24%								
As 188.979†	1141.3	518.77	ug/L	6.387	518.77	ppb	6.387	1.23%
QC value within limits for As 188.979 Recovery = 103.75%								
B 249.677†	20521.2	487.44	ug/L	4.643	487.44	ppb	4.643	0.95%
QC value within limits for B 249.677 Recovery = 97.49%								
Ba 233.527†	64886.0	508.09	ug/L	4.007	508.09	ppb	4.007	0.79%
QC value within limits for Ba 233.527 Recovery = 101.62%								
Be 313.107†	1343756.2	501.91	ug/L	0.543	501.91	ppb	0.543	0.11%
QC value within limits for Be 313.107 Recovery = 100.38%								
Ca 317.933Radial†	2734.8	5441.0	ug/L	24.15	5441.0	ppb	24.15	0.44%

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   QC value within limits for Ca 317.933Radial  Recovery = 108.82%
Cd 226.502†            44317.8      514.29 ug/L         3.786      514.29 ppb          3.786   0.74%
   QC value within limits for Cd 226.502  Recovery = 102.86%
Co 228.616†            24414.3      510.54 ug/L         4.831      510.54 ppb          4.831   0.95%
   QC value within limits for Co 228.616  Recovery = 102.11%
Cr 267.716†            45293.9      509.02 ug/L         3.423      509.02 ppb          3.423   0.67%
   QC value within limits for Cr 267.716  Recovery = 101.80%
Cu 324.752†           164762.7      494.78 ug/L         3.437      494.78 ppb          3.437   0.69%
   QC value within limits for Cu 324.752  Recovery = 98.96%
Fe 238.204 Radial†       403.5      5213.2 ug/L        87.24      5213.2 ppb         87.24   1.67%
   QC value within limits for Fe 238.204 Radial  Recovery = 104.26%
K 766.490 Radial†      29217.1      5459.3 ug/L        41.74      5459.3 ppb         41.74   0.76%
   QC value within limits for K 766.490 Radial  Recovery = 109.19%
Mg 279.077 IEC†          121.6      5524.8 ug/L        61.98      5524.8 ppb         61.98   1.12%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 110.50%
Mn 257.610†           446156.9      500.51 ug/L         0.681      500.51 ppb          0.681   0.14%
   QC value within limits for Mn 257.610  Recovery = 100.10%
Mo 202.031†             6978.2      511.15 ug/L         3.932      511.15 ppb          3.932   0.77%
   QC value within limits for Mo 202.031  Recovery = 102.23%
Na 589.592 Radial†     37071.8       10758 ug/L          66.8       10758 ppb           66.8   0.62%
   QC value within limits for Na 589.592 Radial  Recovery = 107.58%
Ni 231.604†            20231.3      513.93 ug/L         4.197      513.93 ppb          4.197   0.82%
   QC value within limits for Ni 231.604  Recovery = 102.79%
P 214.914†              4235.7      2473.9 ug/L        27.13      2473.9 ppb         27.13   1.10%
   QC value within limits for P 214.914  Recovery = 98.96%
Pb 220.353†             4159.3      516.99 ug/L         3.231      516.99 ppb          3.231   0.63%
   QC value within limits for Pb 220.353  Recovery = 103.40%
S 181.975 Axial†         719.5      1053.0 ug/L        17.02      1053.0 ppb         17.02   1.62%
   QC value within limits for S 181.975 Axial  Recovery = 105.30%
Sb 206.836†             1463.9      528.77 ug/L         4.376      528.77 ppb          4.376   0.83%
   QC value within limits for Sb 206.836  Recovery = 105.75%
Se 196.026†              768.9      524.66 ug/L         4.607      524.66 ppb          4.607   0.88%
   QC value within limits for Se 196.026  Recovery = 104.93%
Si 251.611†            78648.1      2516.7 ug/L        19.21      2516.7 ppb         19.21   0.76%
   QC value within limits for Si 251.611  Recovery = 100.67%
Sn 189.927†             2860.7      518.19 ug/L         4.327      518.19 ppb          4.327   0.83%
   QC value within limits for Sn 189.927  Recovery = 103.64%
Sr 421.552†            79936.9      529.77 ug/L         3.742      529.77 ppb          3.742   0.71%
   QC value within limits for Sr 421.552  Recovery = 105.95%
Ti 334.940†           328197.5      496.26 ug/L         0.576      496.26 ppb          0.576   0.12%
   QC value within limits for Ti 334.940  Recovery = 99.25%
Tl 190.801†             1592.9      514.50 ug/L         5.526      514.50 ppb          5.526   1.07%
   QC value within limits for Tl 190.801  Recovery = 102.90%
U 409.014†             17825.1      479.92 ug/L         6.936      479.92 ppb          6.936   1.45%
   QC value within limits for U 409.014  Recovery = 95.98%
V 292.402†             72228.2      508.23 ug/L         2.816      508.23 ppb          2.816   0.55%
   QC value within limits for V 292.402  Recovery = 101.65%
Zn 213.857†            50918.1      506.20 ug/L         4.424      506.20 ppb          4.424   0.87%
   QC value within limits for Zn 213.857  Recovery = 101.24%
SiO2†                  78544.9      5382.8 ug/L        59.77      5382.8 ppb         59.77   1.11%
   QC value within limits for SiO2  Recovery = 100.66%
QC Failed.  Continue with analysis.
```

Sequence No.: 55
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/24/2010 00:12:04
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4030.6	4030.6	94.8	%			00:13:56
1	Y RADIAL	4506.0	4506.0	96.03	%			00:13:56
1	Al 396.153Radial†	-104.1	0.9	0.7916	ug/L	0.7916	ppb	00:13:56
1	Ca 317.933Radial†	18.2	3.7	7.4144	ug/L	7.4144	ppb	00:14:16
1	Fe 238.204 Radial†	12.8	3.3	42.595	ug/L	42.595	ppb	00:14:16
1	K 766.490 Radial†	2817.9	417.0	77.994	ug/L	77.994	ppb	00:13:56
1	Mg 279.077 IEC†	-2.0	-4.9	-221.48	ug/L	-221.48	ppb	00:14:16
1	Na 589.592 Radial†	-505.7	206.7	59.978	ug/L	59.978	ppb	00:13:56
1	Sr 421.552†	80.5	48.2	0.3191	ug/L	0.3191	ppb	00:13:56
1	Sc 361.383	897287.6	897287.6	99.692	%			00:15:13
1	Y 371.029	758201.2	758201.2	99.444	%			00:15:13
1	Ag 328.068†	216.5	-12.1	-0.0352	ug/L	-0.0352	ppb	00:15:13
1	As 188.979†	-20.6	-0.1	-0.0609	ug/L	-0.0609	ppb	00:15:33
1	B 249.677†	-430.0	-58.4	-1.3996	ug/L	-1.3996	ppb	00:15:33
1	Ba 233.527†	19.5	28.7	0.2254	ug/L	0.2254	ppb	00:15:33
1	Be 313.107†	-3745.5	96.1	0.0354	ug/L	0.0354	ppb	00:15:13
1	Cd 226.502†	-184.4	-1.6	-0.0249	ug/L	-0.0249	ppb	00:15:33
1	Co 228.616†	-59.6	2.2	0.0472	ug/L	0.0472	ppb	00:15:33
1	Cr 267.716†	57.9	-8.0	-0.0815	ug/L	-0.0815	ppb	00:15:33
1	Cu 324.752†	6068.0	9.7	0.0366	ug/L	0.0366	ppb	00:15:13
1	Mn 257.610†	478.9	43.5	0.0621	ug/L	0.0621	ppb	00:15:33
1	Mo 202.031†	16.6	10.6	0.7779	ug/L	0.7779	ppb	00:15:33
1	Ni 231.604†	58.6	6.5	0.1651	ug/L	0.1651	ppb	00:15:33
1	P 214.914†	219.3	17.9	10.824	ug/L	10.824	ppb	00:15:33
1	Pb 220.353†	-66.1	-1.3	-0.1624	ug/L	-0.1624	ppb	00:15:33
1	S 181.975 Axial†	42.7	5.8	8.5495	ug/L	8.5495	ppb	00:15:33
1	Sb 206.836†	40.9	4.3	1.5119	ug/L	1.5119	ppb	00:15:33
1	Se 196.026†	-27.3	-6.7	-4.2922	ug/L	-4.2922	ppb	00:15:33
1	Si 251.611†	612.6	80.3	2.5679	ug/L	2.5679	ppb	00:15:33
1	Sn 189.927†	4.9	-5.5	-0.9944	ug/L	-0.9944	ppb	00:15:33
1	Ti 334.940†	-1402.9	-125.4	-0.1663	ug/L	-0.1663	ppb	00:15:13
1	Tl 190.801†	-29.2	1.9	0.6210	ug/L	0.6210	ppb	00:15:33
1	U 409.014†	-3164.7	-358.3	-9.6850	ug/L	-9.6850	ppb	00:15:13
1	V 292.402†	-1439.3	-13.4	-0.1105	ug/L	-0.1105	ppb	00:15:13
1	Zn 213.857†	567.2	11.2	0.1053	ug/L	0.1053	ppb	00:15:33
1	SiO2†	611.2	61.6	4.2124	ug/L	4.2124	ppb	00:16:29
2	Sc Radial	4131.6	4131.6	97.1	%			00:14:21
2	Y RADIAL	4604.2	4604.2	98.13	%			00:14:21
2	Al 396.153Radial†	-110.4	-2.9	-2.6942	ug/L	-2.6942	ppb	00:14:21
2	Ca 317.933Radial†	19.7	4.8	9.4904	ug/L	9.4904	ppb	00:14:41
2	Fe 238.204 Radial†	10.2	0.3	3.8567	ug/L	3.8567	ppb	00:14:41
2	K 766.490 Radial†	2775.6	300.7	56.229	ug/L	56.229	ppb	00:14:21
2	Mg 279.077 IEC†	3.1	0.4	18.529	ug/L	18.529	ppb	00:14:41
2	Na 589.592 Radial†	-511.8	213.5	61.958	ug/L	61.958	ppb	00:14:21
2	Sr 421.552†	65.7	30.9	0.2047	ug/L	0.2047	ppb	00:14:21
2	Sc 361.383	891155.7	891155.7	99.010	%			00:15:38
2	Y 371.029	753386.0	753386.0	98.812	%			00:15:38
2	Ag 328.068†	266.8	40.1	0.1897	ug/L	0.1897	ppb	00:15:38
2	As 188.979†	-21.2	-0.9	-0.3901	ug/L	-0.3901	ppb	00:15:58
2	B 249.677†	-448.8	-80.4	-1.9188	ug/L	-1.9188	ppb	00:15:58
2	Ba 233.527†	18.5	27.8	0.2158	ug/L	0.2158	ppb	00:15:58
2	Be 313.107†	-3669.4	147.2	0.0538	ug/L	0.0538	ppb	00:15:38
2	Cd 226.502†	-193.4	-12.0	-0.1416	ug/L	-0.1416	ppb	00:15:58
2	Co 228.616†	-62.1	-0.8	-0.0135	ug/L	-0.0135	ppb	00:15:58
2	Cr 267.716†	65.3	-0.0	0.0023	ug/L	0.0023	ppb	00:15:58
2	Cu 324.752†	6014.1	-3.0	-0.0038	ug/L	-0.0038	ppb	00:15:38
2	Mn 257.610†	468.7	36.5	0.0405	ug/L	0.0405	ppb	00:15:58
2	Mo 202.031†	19.5	13.6	0.9950	ug/L	0.9950	ppb	00:15:58
2	Ni 231.604†	64.0	12.3	0.3134	ug/L	0.3134	ppb	00:15:58

2	P 214.914†	206.0	6.0	3.6493 ug/L	3.6493 ppb	00:15:58
2	Pb 220.353†	-61.4	3.0	0.3765 ug/L	0.3765 ppb	00:15:58
2	S 181.975 Axial†	42.8	6.1	9.0085 ug/L	9.0085 ppb	00:15:58
2	Sb 206.836†	38.7	2.4	0.8432 ug/L	0.8432 ppb	00:15:58
2	Se 196.026†	-20.4	0.1	0.0588 ug/L	0.0588 ppb	00:15:58
2	Si 251.611†	562.8	34.3	1.0885 ug/L	1.0885 ppb	00:15:58
2	Sn 189.927†	6.0	-4.3	-0.7844 ug/L	-0.7844 ppb	00:15:58
2	Ti 334.940†	-1558.0	-291.8	-0.4376 ug/L	-0.4376 ppb	00:15:38
2	Tl 190.801†	-34.8	-3.9	-1.2525 ug/L	-1.2525 ppb	00:15:58
2	U 409.014†	-3112.6	-327.5	-8.8493 ug/L	-8.8493 ppb	00:15:38
2	V 292.402†	-1519.0	-103.8	-0.7231 ug/L	-0.7231 ppb	00:15:38
2	Zn 213.857†	571.9	19.9	0.1972 ug/L	0.1972 ppb	00:15:58
2	SiO2†	632.6	87.4	5.9805 ug/L	5.9805 ppb	00:16:34
3	Sc Radial	4107.9	4107.9	96.6 %		00:14:46
3	Y RADIAL	4525.5	4525.5	96.45 %		00:14:46
3	Al 396.153Radial†	-112.8	-6.1	-5.4988 ug/L	-5.4988 ppb	00:14:46
3	Ca 317.933Radial†	19.9	5.2	10.253 ug/L	10.253 ppb	00:15:06
3	Fe 238.204 Radial†	13.7	4.0	51.413 ug/L	51.413 ppb	00:15:06
3	K 766.490 Radial†	2813.9	356.9	66.750 ug/L	66.750 ppb	00:14:46
3	Mg 279.077 IEC†	2.1	-0.6	-27.325 ug/L	-27.325 ppb	00:15:06
3	Na 589.592 Radial†	-582.4	137.3	39.847 ug/L	39.847 ppb	00:14:46
3	Sr 421.552†	71.0	36.7	0.2430 ug/L	0.2430 ppb	00:14:46
3	Sc 361.383	894856.4	894856.4	99.422 %		00:16:03
3	Y 371.029	755828.2	755828.2	99.133 %		00:16:03
3	Ag 328.068†	205.6	-22.5	-0.0829 ug/L	-0.0829 ppb	00:16:03
3	As 188.979†	-18.1	2.3	1.0492 ug/L	1.0492 ppb	00:16:24
3	B 249.677†	-429.6	-59.1	-1.4193 ug/L	-1.4193 ppb	00:16:24
3	Ba 233.527†	9.4	18.6	0.1453 ug/L	0.1453 ppb	00:16:24
3	Be 313.107†	-3783.0	48.2	0.0173 ug/L	0.0173 ppb	00:16:03
3	Cd 226.502†	-177.5	4.8	0.0485 ug/L	0.0485 ppb	00:16:24
3	Co 228.616†	-62.2	-0.6	-0.0130 ug/L	-0.0130 ppb	00:16:24
3	Cr 267.716†	67.0	1.5	0.0240 ug/L	0.0240 ppb	00:16:24
3	Cu 324.752†	6008.5	-33.7	-0.0927 ug/L	-0.0927 ppb	00:16:03
3	Mn 257.610†	443.1	8.9	0.0161 ug/L	0.0161 ppb	00:16:24
3	Mo 202.031†	5.6	-0.5	-0.0299 ug/L	-0.0299 ppb	00:16:24
3	Ni 231.604†	63.7	11.7	0.2983 ug/L	0.2983 ppb	00:16:24
3	P 214.914†	197.5	-3.4	-2.0959 ug/L	-2.0959 ppb	00:16:24
3	Pb 220.353†	-78.4	-13.8	-1.7144 ug/L	-1.7144 ppb	00:16:24
3	S 181.975 Axial†	33.5	-3.3	-4.8286 ug/L	-4.8286 ppb	00:16:24
3	Sb 206.836†	46.9	10.4	3.6542 ug/L	3.6542 ppb	00:16:24
3	Se 196.026†	-29.0	-8.4	-5.4010 ug/L	-5.4010 ppb	00:16:24
3	Si 251.611†	586.2	55.5	1.7797 ug/L	1.7797 ppb	00:16:24
3	Sn 189.927†	16.6	6.2	1.1256 ug/L	1.1256 ppb	00:16:24
3	Ti 334.940†	-1481.9	-208.8	-0.3076 ug/L	-0.3076 ppb	00:16:03
3	Tl 190.801†	-24.1	7.0	2.2468 ug/L	2.2468 ppb	00:16:24
3	U 409.014†	-3178.9	-381.1	-10.304 ug/L	-10.304 ppb	00:16:03
3	V 292.402†	-1543.9	-122.5	-0.8781 ug/L	-0.8781 ppb	00:16:03
3	Zn 213.857†	580.9	26.6	0.2578 ug/L	0.2578 ppb	00:16:24
3	SiO2†	613.0	65.1	4.4738 ug/L	4.4738 ppb	00:16:39

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	894433.2	99.374	%	0.3431				0.35%
Sc Radial	4090.0	96.2	%	1.24				1.29%
Y 371.029	755805.1	99.129	%	0.3158				0.32%
Y RADIAL	4545.2	96.87	%	1.109				1.14%
Ag 328.068†	1.8	0.0239	ug/L	0.14558	0.0239	ppb	0.14558	609.26%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-2.7	-2.4671	ug/L	3.15131	-2.4671	ppb	3.15131	127.73%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.4	0.1994	ug/L	0.75411	0.1994	ppb	0.75411	378.20%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-66.0	-1.5792	ug/L	0.29426	-1.5792	ppb	0.29426	18.63%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	25.1	0.1955	ug/L	0.04373	0.1955	ppb	0.04373	22.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	97.2	0.0355	ug/L	0.01829	0.0355	ppb	0.01829	51.52%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	4.6	9.0527	ug/L	1.46916	9.0527	ppb	1.46916	16.23%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                -3.0     -0.0393 ug/L       0.09586     -0.0393 ppb        0.09586 243.66%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                 0.3      0.0069 ug/L       0.03488      0.0069 ppb        0.03488 506.31%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -2.2     -0.0184 ug/L       0.05571     -0.0184 ppb        0.05571 303.36%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                -9.0     -0.0200 ug/L       0.06617     -0.0200 ppb        0.06617 331.63%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          2.5      32.622 ug/L       25.2984      32.622 ppb        25.2984  77.55%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         358.2      66.991 ug/L       10.8842      66.991 ppb        10.8842  16.25%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -1.7     -76.758 ug/L      127.4107     -76.758 ppb       127.4107 165.99%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                29.6      0.0396 ug/L       0.02298      0.0396 ppb        0.02298  58.06%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 7.9      0.5810 ug/L       0.54009      0.5810 ppb        0.54009  92.96%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        185.8      53.927 ug/L       12.2345      53.927 ppb        12.2345  22.69%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                10.2      0.2589 ug/L       0.08166      0.2589 ppb        0.08166  31.53%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  6.8      4.1257 ug/L       6.47298      4.1257 ppb        6.47298 156.89%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -4.0     -0.5001 ug/L       1.08556     -0.5001 ppb        1.08556 217.08%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            2.9      4.2431 ug/L       7.85971      4.2431 ppb        7.85971 185.23%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 5.7      2.0031 ug/L       1.46846      2.0031 ppb        1.46846  73.31%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -5.0     -3.2115 ug/L       2.88590     -3.2115 ppb        2.88590  89.86%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                56.7      1.8120 ug/L       0.74026      1.8120 ppb        0.74026  40.85%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -1.2     -0.2177 ug/L       1.16810     -0.2177 ppb        1.16810 536.46%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                38.6      0.2556 ug/L       0.05822      0.2556 ppb        0.05822  22.78%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -208.6     -0.3038 ug/L       0.13573     -0.3038 ppb        0.13573  44.67%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.7      0.5384 ug/L       1.75113      0.5384 ppb        1.75113 325.23%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -355.6     -9.6127 ug/L       0.72991     -9.6127 ppb        0.72991   7.59%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                -79.9     -0.5706 ug/L       0.40586     -0.5706 ppb        0.40586  71.13%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                19.3      0.1868 ug/L       0.07677      0.1868 ppb        0.07677  41.10%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      71.4      4.8889 ug/L       0.95432      4.8889 ppb        0.95432  19.52%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 63
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/24/2010 01:06:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3977.6	3977.6	93.5	%			01:09:06
1	Y RADIAL	4479.5	4479.5	95.47	%			01:08:46
1	Al 396.153Radial†	5391.5	5876.3	5297.0	ug/L	5297.0	ppb	01:08:46
1	Ca 317.933Radial†	2606.0	2771.3	5513.7	ug/L	5513.7	ppb	01:09:06
1	Fe 238.204 Radial†	398.2	415.6	5370.3	ug/L	5370.3	ppb	01:09:06
1	K 766.490 Radial†	29439.9	28925.2	5404.5	ug/L	5404.5	ppb	01:08:46
1	Mg 279.077 IEC†	121.4	127.1	5774.8	ug/L	5774.8	ppb	01:09:06
1	Na 589.592 Radial†	35576.7	38784.8	11256	ug/L	11256	ppb	01:08:46
1	Sr 421.552†	76648.5	81928.5	542.97	ug/L	542.97	ppb	01:08:46
1	Sc 361.383	908306.6	908306.6	100.92	%			01:10:03
1	Y 371.029	757297.9	757297.9	99.325	%			01:10:03
1	Ag 328.068†	112631.2	111379.7	514.72	ug/L	514.72	ppb	01:10:09
1	As 188.979†	1126.2	1136.5	516.73	ug/L	516.73	ppb	01:10:29
1	B 249.677†	20687.2	20872.4	495.79	ug/L	495.79	ppb	01:10:09
1	Ba 233.527†	65949.5	65360.2	511.81	ug/L	511.81	ppb	01:10:09
1	Be 313.107†	1380026.4	1371355.1	512.22	ug/L	512.22	ppb	01:10:03
1	Cd 226.502†	44706.4	44484.0	516.20	ug/L	516.20	ppb	01:10:09
1	Co 228.616†	24706.8	24544.5	513.24	ug/L	513.24	ppb	01:10:09
1	Cr 267.716†	46090.6	45606.3	512.55	ug/L	512.55	ppb	01:10:09
1	Cu 324.752†	175102.6	167436.3	502.81	ug/L	502.81	ppb	01:10:09
1	Mn 257.610†	457410.8	452822.6	507.99	ug/L	507.99	ppb	01:10:03
1	Mo 202.031†	7062.7	6992.5	512.21	ug/L	512.21	ppb	01:10:29
1	Ni 231.604†	20556.1	20317.2	516.11	ug/L	516.11	ppb	01:10:09
1	P 214.914†	4479.5	4236.8	2472.8	ug/L	2472.8	ppb	01:10:29
1	Pb 220.353†	4118.9	4146.6	515.38	ug/L	515.38	ppb	01:10:29
1	S 181.975 Axial†	754.4	710.5	1039.9	ug/L	1039.9	ppb	01:10:29
1	Sb 206.836†	1506.5	1456.1	526.07	ug/L	526.07	ppb	01:10:29
1	Se 196.026†	764.4	778.2	531.30	ug/L	531.30	ppb	01:10:29
1	Si 251.611†	80711.3	79444.6	2542.3	ug/L	2542.3	ppb	01:10:09
1	Sn 189.927†	2890.7	2854.0	516.99	ug/L	516.99	ppb	01:10:29
1	Ti 334.940†	336231.1	334461.4	505.72	ug/L	505.72	ppb	01:10:03
1	Tl 190.801†	1581.5	1598.4	516.35	ug/L	516.35	ppb	01:10:29
1	U 409.014†	15477.2	18153.0	488.75	ug/L	488.75	ppb	01:10:09
1	V 292.402†	72372.9	73146.5	514.60	ug/L	514.60	ppb	01:10:09
1	Zn 213.857†	52310.2	51277.7	509.76	ug/L	509.76	ppb	01:10:09
1	SiO2†	79596.4	78322.5	5367.5	ug/L	5367.5	ppb	01:11:37
2	Sc Radial	3974.9	3974.9	93.5	%			01:09:31
2	Y RADIAL	4472.0	4472.0	95.31	%			01:09:11
2	Al 396.153Radial†	5450.0	5942.8	5356.8	ug/L	5356.8	ppb	01:09:11
2	Ca 317.933Radial†	2606.9	2774.1	5519.3	ug/L	5519.3	ppb	01:09:31
2	Fe 238.204 Radial†	405.0	423.2	5467.4	ug/L	5467.4	ppb	01:09:31
2	K 766.490 Radial†	29450.6	28957.9	5410.6	ug/L	5410.6	ppb	01:09:11
2	Mg 279.077 IEC†	115.4	120.8	5488.9	ug/L	5488.9	ppb	01:09:31
2	Na 589.592 Radial†	35588.5	38823.1	11267	ug/L	11267	ppb	01:09:11
2	Sr 421.552†	76825.1	82172.8	544.59	ug/L	544.59	ppb	01:09:11
2	Sc 361.383	898435.0	898435.0	99.819	%			01:10:35
2	Y 371.029	748796.3	748796.3	98.210	%			01:10:35
2	Ag 328.068†	112801.3	112776.4	521.18	ug/L	521.18	ppb	01:10:40
2	As 188.979†	1155.0	1177.6	535.24	ug/L	535.24	ppb	01:11:00
2	B 249.677†	20836.2	21246.9	504.69	ug/L	504.69	ppb	01:10:40
2	Ba 233.527†	66024.4	66153.2	518.02	ug/L	518.02	ppb	01:10:40
2	Be 313.107†	1363447.9	1369772.1	511.63	ug/L	511.63	ppb	01:10:35
2	Cd 226.502†	44791.3	45055.8	522.84	ug/L	522.84	ppb	01:10:40
2	Co 228.616†	24812.6	24919.5	521.10	ug/L	521.10	ppb	01:10:40
2	Cr 267.716†	46187.5	46205.2	519.28	ug/L	519.28	ppb	01:10:40
2	Cu 324.752†	175744.0	169985.4	510.46	ug/L	510.46	ppb	01:10:40
2	Mn 257.610†	452736.4	453120.0	508.35	ug/L	508.35	ppb	01:10:35
2	Mo 202.031†	7098.8	7105.6	520.49	ug/L	520.49	ppb	01:11:00
2	Ni 231.604†	20568.4	20553.4	522.11	ug/L	522.11	ppb	01:10:40

2	P 214.914†	4486.9	4293.0	2505.5 ug/L	2505.5 ppb	01:11:00
2	Pb 220.353†	4152.1	4224.6	525.07 ug/L	525.07 ppb	01:11:00
2	S 181.975 Axial†	775.8	740.2	1083.3 ug/L	1083.3 ppb	01:11:00
2	Sb 206.836†	1533.7	1499.7	541.65 ug/L	541.65 ppb	01:11:00
2	Se 196.026†	767.1	789.2	538.89 ug/L	538.89 ppb	01:11:00
2	Si 251.611†	80922.2	80534.7	2577.1 ug/L	2577.1 ppb	01:10:40
2	Sn 189.927†	2928.1	2922.9	529.46 ug/L	529.46 ppb	01:11:00
2	Ti 334.940†	332419.0	334303.2	505.50 ug/L	505.50 ppb	01:10:35
2	Tl 190.801†	1579.1	1613.2	521.06 ug/L	521.06 ppb	01:11:00
2	U 409.014†	15604.6	18449.1	496.73 ug/L	496.73 ppb	01:10:40
2	V 292.402†	72392.2	73953.8	520.32 ug/L	520.32 ppb	01:10:40
2	Zn 213.857†	52526.4	52063.9	517.59 ug/L	517.59 ppb	01:10:40
2	SiO2†	80949.1	80544.3	5519.9 ug/L	5519.9 ppb	01:11:42
3	Sc Radial	3960.6	3960.6	93.1 %		01:09:56
3	Y RADIAL	4456.3	4456.3	94.98 %		01:09:36
3	Al 396.153Radial†	5383.6	5892.5	5311.6 ug/L	5311.6 ppb	01:09:36
3	Ca 317.933Radial†	2588.8	2764.8	5500.7 ug/L	5500.7 ppb	01:09:56
3	Fe 238.204 Radial†	404.8	424.6	5485.7 ug/L	5485.7 ppb	01:09:56
3	K 766.490 Radial†	29237.2	28842.8	5389.1 ug/L	5389.1 ppb	01:09:36
3	Mg 279.077 IEC†	115.5	121.3	5514.3 ug/L	5514.3 ppb	01:09:56
3	Na 589.592 Radial†	34944.2	38269.0	11106 ug/L	11106 ppb	01:09:36
3	Sr 421.552†	75477.3	81022.7	536.97 ug/L	536.97 ppb	01:09:36
3	Sc 361.383	899287.5	899287.5	99.914 %		01:11:06
3	Y 371.029	749258.0	749258.0	98.271 %		01:11:06
3	Ag 328.068†	112562.7	112430.5	519.59 ug/L	519.59 ppb	01:11:11
3	As 188.979†	1130.8	1152.3	523.85 ug/L	523.85 ppb	01:11:31
3	B 249.677†	20745.2	21136.0	502.05 ug/L	502.05 ppb	01:11:11
3	Ba 233.527†	65837.1	65903.0	516.06 ug/L	516.06 ppb	01:11:11
3	Be 313.107†	1365275.5	1370306.4	511.82 ug/L	511.82 ppb	01:11:06
3	Cd 226.502†	44666.1	44888.0	520.89 ug/L	520.89 ppb	01:11:11
3	Co 228.616†	24716.5	24799.7	518.58 ug/L	518.58 ppb	01:11:11
3	Cr 267.716†	46161.7	46135.6	518.50 ug/L	518.50 ppb	01:11:11
3	Cu 324.752†	175154.4	169228.4	508.19 ug/L	508.19 ppb	01:11:11
3	Mn 257.610†	453470.4	453424.7	508.69 ug/L	508.69 ppb	01:11:06
3	Mo 202.031†	7041.7	7041.7	515.82 ug/L	515.82 ppb	01:11:31
3	Ni 231.604†	20567.8	20533.2	521.60 ug/L	521.60 ppb	01:11:11
3	P 214.914†	4458.1	4259.9	2485.8 ug/L	2485.8 ppb	01:11:31
3	Pb 220.353†	4106.8	4175.3	518.94 ug/L	518.94 ppb	01:11:31
3	S 181.975 Axial†	739.4	703.0	1028.8 ug/L	1028.8 ppb	01:11:31
3	Sb 206.836†	1509.6	1474.2	532.54 ug/L	532.54 ppb	01:11:31
3	Se 196.026†	760.3	781.6	533.94 ug/L	533.94 ppb	01:11:31
3	Si 251.611†	80680.3	80215.7	2567.0 ug/L	2567.0 ppb	01:11:11
3	Sn 189.927†	2889.7	2881.8	522.01 ug/L	522.01 ppb	01:11:31
3	Ti 334.940†	332805.0	334373.8	505.60 ug/L	505.60 ppb	01:11:06
3	Tl 190.801†	1571.4	1604.0	518.13 ug/L	518.13 ppb	01:11:31
3	U 409.014†	15594.6	18424.3	496.06 ug/L	496.06 ppb	01:11:11
3	V 292.402†	72200.0	73692.7	518.44 ug/L	518.44 ppb	01:11:11
3	Zn 213.857†	52321.2	51808.6	515.03 ug/L	515.03 ppb	01:11:11
3	SiO2†	78501.7	78017.9	5346.5 ug/L	5346.5 ppb	01:11:47

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	902009.7	100.22	%	0.608				0.61%
Sc Radial	3971.1	93.4	%	0.22				0.23%
Y 371.029	751784.1	98.602	%	0.6270				0.64%
Y RADIAL	4469.3	95.25	%	0.252				0.26%
Ag 328.068†	112195.5	518.50	ug/L	3.366	518.50	ppb	3.366	0.65%
QC value within limits for Ag 328.068 Recovery = 103.70%								
Al 396.153Radial†	5903.9	5321.8	ug/L	31.20	5321.8	ppb	31.20	0.59%
QC value within limits for Al 396.153Radial Recovery = 106.44%								
As 188.979†	1155.5	525.27	ug/L	9.336	525.27	ppb	9.336	1.78%
QC value within limits for As 188.979 Recovery = 105.05%								
B 249.677†	21085.1	500.84	ug/L	4.570	500.84	ppb	4.570	0.91%
QC value within limits for B 249.677 Recovery = 100.17%								
Ba 233.527†	65805.5	515.30	ug/L	3.175	515.30	ppb	3.175	0.62%
QC value within limits for Ba 233.527 Recovery = 103.06%								
Be 313.107†	1370477.9	511.89	ug/L	0.300	511.89	ppb	0.300	0.06%
QC value within limits for Be 313.107 Recovery = 102.38%								
Ca 317.933Radial†	2770.0	5511.3	ug/L	9.55	5511.3	ppb	9.55	0.17%

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   QC value greater than the upper limit for Ca 317.933Radial  Recovery = 110.23%
Cd 226.502†            44809.2      519.98 ug/L        3.409      519.98 ppb         3.409   0.66%
   QC value within limits for Cd 226.502  Recovery = 104.00%
Co 228.616†            24754.6      517.64 ug/L        4.013      517.64 ppb         4.013   0.78%
   QC value within limits for Co 228.616  Recovery = 103.53%
Cr 267.716†            45982.4      516.77 ug/L        3.681      516.77 ppb         3.681   0.71%
   QC value within limits for Cr 267.716  Recovery = 103.35%
Cu 324.752†           168883.4      507.15 ug/L        3.932      507.15 ppb         3.932   0.78%
   QC value within limits for Cu 324.752  Recovery = 101.43%
Fe 238.204 Radial†       421.1      5441.1 ug/L       62.02      5441.1 ppb         62.02   1.14%
   QC value within limits for Fe 238.204 Radial  Recovery = 108.82%
K 766.490 Radial†      28908.6      5401.4 ug/L       11.06      5401.4 ppb         11.06   0.20%
   QC value within limits for K 766.490 Radial  Recovery = 108.03%
Mg 279.077 IEC†          123.1      5592.6 ug/L      158.23      5592.6 ppb        158.23   2.83%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 111.85%
Mn 257.610†           453122.5      508.34 ug/L        0.349      508.34 ppb         0.349   0.07%
   QC value within limits for Mn 257.610  Recovery = 101.67%
Mo 202.031†             7046.6      516.18 ug/L        4.151      516.18 ppb         4.151   0.80%
   QC value within limits for Mo 202.031  Recovery = 103.24%
Na 589.592 Radial†     38625.7       11209 ug/L         89.8       11209 ppb          89.8   0.80%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 112.09%
Ni 231.604†            20467.9      519.94 ug/L        3.326      519.94 ppb         3.326   0.64%
   QC value within limits for Ni 231.604  Recovery = 103.99%
P 214.914†              4263.3      2488.0 ug/L       16.43      2488.0 ppb         16.43   0.66%
   QC value within limits for P 214.914  Recovery = 99.52%
Pb 220.353†             4182.2      519.80 ug/L        4.900      519.80 ppb         4.900   0.94%
   QC value within limits for Pb 220.353  Recovery = 103.96%
S 181.975 Axial†         717.9      1050.7 ug/L       28.79      1050.7 ppb         28.79   2.74%
   QC value within limits for S 181.975 Axial  Recovery = 105.07%
Sb 206.836†             1476.7      533.42 ug/L        7.827      533.42 ppb         7.827   1.47%
   QC value within limits for Sb 206.836  Recovery = 106.68%
Se 196.026†              783.0      534.71 ug/L        3.853      534.71 ppb         3.853   0.72%
   QC value within limits for Se 196.026  Recovery = 106.94%
Si 251.611†            80065.0      2562.1 ug/L       17.93      2562.1 ppb         17.93   0.70%
   QC value within limits for Si 251.611  Recovery = 102.49%
Sn 189.927†             2886.2      522.82 ug/L        6.273      522.82 ppb         6.273   1.20%
   QC value within limits for Sn 189.927  Recovery = 104.56%
Sr 421.552†            81708.0      541.51 ug/L        4.016      541.51 ppb         4.016   0.74%
   QC value within limits for Sr 421.552  Recovery = 108.30%
Ti 334.940†           334379.5      505.60 ug/L        0.111      505.60 ppb         0.111   0.02%
   QC value within limits for Ti 334.940  Recovery = 101.12%
Tl 190.801†             1605.2      518.52 ug/L        2.380      518.52 ppb         2.380   0.46%
   QC value within limits for Tl 190.801  Recovery = 103.70%
U 409.014†             18342.2      493.85 ug/L        4.424      493.85 ppb         4.424   0.90%
   QC value within limits for U 409.014  Recovery = 98.77%
V 292.402†             73597.7      517.79 ug/L        2.912      517.79 ppb         2.912   0.56%
   QC value within limits for V 292.402  Recovery = 103.56%
Zn 213.857†            51716.8      514.12 ug/L        3.990      514.12 ppb         3.990   0.78%
   QC value within limits for Zn 213.857  Recovery = 102.82%
SiO2†                  78961.6      5411.3 ug/L       94.66      5411.3 ppb         94.66   1.75%
   QC value within limits for SiO2  Recovery = 101.19%
QC Failed.  Continue with analysis.
```

Sequence No.: 64
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/24/2010 01:13:56
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	3912.6	3912.6	92.0	%			01:16:09
1	Y RADIAL	4485.5	4485.5	95.60	%			01:15:49
1	Al 396.153Radial†	-115.8	-15.1	-13.701	ug/L	-13.701	ppb	01:15:49
1	Ca 317.933Radial†	17.4	3.5	6.8825	ug/L	6.8825	ppb	01:16:09
1	Fe 238.204 Radial†	12.4	3.3	42.794	ug/L	42.794	ppb	01:16:09
1	K 766.490 Radial†	2866.7	559.8	104.73	ug/L	104.73	ppb	01:15:49
1	Mg 279.077 IEC†	1.4	-1.2	-55.979	ug/L	-55.979	ppb	01:16:09
1	Na 589.592 Radial†	-742.8	-67.2	-19.505	ug/L	-19.505	ppb	01:15:49
1	Sr 421.552†	59.3	27.7	0.1834	ug/L	0.1834	ppb	01:15:49
1	Sc 361.383	893579.4	893579.4	99.280	%			01:17:06
1	Y 371.029	756602.6	756602.6	99.234	%			01:17:06
1	Ag 328.068†	325.5	98.5	0.4686	ug/L	0.4686	ppb	01:17:06
1	As 188.979†	-22.8	-2.5	-1.0977	ug/L	-1.0977	ppb	01:17:26
1	B 249.677†	-374.3	-4.0	-0.1033	ug/L	-0.1033	ppb	01:17:26
1	Ba 233.527†	16.5	25.7	0.2012	ug/L	0.2012	ppb	01:17:26
1	Be 313.107†	-3589.6	237.6	0.0882	ug/L	0.0882	ppb	01:17:06
1	Cd 226.502†	-180.7	1.3	0.0099	ug/L	0.0099	ppb	01:17:26
1	Co 228.616†	-57.8	3.7	0.0780	ug/L	0.0780	ppb	01:17:26
1	Cr 267.716†	91.7	26.4	0.3021	ug/L	0.3021	ppb	01:17:26
1	Cu 324.752†	6051.5	18.3	0.0607	ug/L	0.0607	ppb	01:17:06
1	Mn 257.610†	485.7	52.4	0.0653	ug/L	0.0653	ppb	01:17:26
1	Mo 202.031†	16.4	10.5	0.7714	ug/L	0.7714	ppb	01:17:26
1	Ni 231.604†	71.0	19.2	0.4877	ug/L	0.4877	ppb	01:17:26
1	P 214.914†	208.3	7.8	4.6881	ug/L	4.6881	ppb	01:17:26
1	Pb 220.353†	-52.5	12.1	1.4971	ug/L	1.4971	ppb	01:17:26
1	S 181.975 Axial†	41.1	4.3	6.3226	ug/L	6.3226	ppb	01:17:26
1	Sb 206.836†	51.5	15.2	5.3110	ug/L	5.3110	ppb	01:17:26
1	Se 196.026†	-25.9	-5.4	-3.4011	ug/L	-3.4011	ppb	01:17:26
1	Si 251.611†	587.0	57.1	1.8229	ug/L	1.8229	ppb	01:17:26
1	Sn 189.927†	10.9	0.6	0.1048	ug/L	0.1048	ppb	01:17:26
1	Ti 334.940†	-1370.6	-98.8	-0.1411	ug/L	-0.1411	ppb	01:17:06
1	Tl 190.801†	-29.1	1.9	0.6179	ug/L	0.6179	ppb	01:17:26
1	U 409.014†	-3036.6	-242.3	-6.5537	ug/L	-6.5537	ppb	01:17:06
1	V 292.402†	-1496.6	-77.0	-0.5435	ug/L	-0.5435	ppb	01:17:06
1	Zn 213.857†	571.5	18.0	0.1710	ug/L	0.1710	ppb	01:17:26
1	SiO2†	555.5	8.1	0.5328	ug/L	0.5328	ppb	01:18:22
2	Sc Radial	3985.0	3985.0	93.7	%			01:16:34
2	Y RADIAL	4487.3	4487.3	95.64	%			01:16:14
2	Al 396.153Radial†	-100.7	3.3	2.9533	ug/L	2.9533	ppb	01:16:14
2	Ca 317.933Radial†	17.2	2.9	5.7657	ug/L	5.7657	ppb	01:16:34
2	Fe 238.204 Radial†	11.2	1.8	23.184	ug/L	23.184	ppb	01:16:34
2	K 766.490 Radial†	2810.6	443.2	82.934	ug/L	82.934	ppb	01:16:14
2	Mg 279.077 IEC†	1.5	-1.1	-50.400	ug/L	-50.400	ppb	01:16:34
2	Na 589.592 Radial†	-832.9	-148.6	-43.136	ug/L	-43.136	ppb	01:16:14
2	Sr 421.552†	79.6	48.1	0.3190	ug/L	0.3190	ppb	01:16:14
2	Sc 361.383	883431.1	883431.1	98.152	%			01:17:31
2	Y 371.029	746881.5	746881.5	97.959	%			01:17:31
2	Ag 328.068†	344.2	121.4	0.5729	ug/L	0.5729	ppb	01:17:31
2	As 188.979†	-22.0	-1.9	-0.8604	ug/L	-0.8604	ppb	01:17:51
2	B 249.677†	-382.9	-17.1	-0.4131	ug/L	-0.4131	ppb	01:17:51
2	Ba 233.527†	12.1	21.5	0.1686	ug/L	0.1686	ppb	01:17:51
2	Be 313.107†	-3697.6	86.0	0.0315	ug/L	0.0315	ppb	01:17:31
2	Cd 226.502†	-183.0	-3.1	-0.0406	ug/L	-0.0406	ppb	01:17:51
2	Co 228.616†	-54.6	6.3	0.1343	ug/L	0.1343	ppb	01:17:51
2	Cr 267.716†	86.0	21.6	0.2489	ug/L	0.2489	ppb	01:17:51
2	Cu 324.752†	6024.5	60.8	0.1898	ug/L	0.1898	ppb	01:17:31
2	Mn 257.610†	463.0	34.9	0.0435	ug/L	0.0435	ppb	01:17:51
2	Mo 202.031†	14.7	8.9	0.6564	ug/L	0.6564	ppb	01:17:51
2	Ni 231.604†	63.0	11.8	0.3004	ug/L	0.3004	ppb	01:17:51

2	P 214.914†	200.0	1.7	0.9802 ug/L	0.9802 ppb	01:17:51
2	Pb 220.353†	-45.8	18.4	2.2795 ug/L	2.2795 ppb	01:17:51
2	S 181.975 Axial†	37.6	1.3	1.9215 ug/L	1.9215 ppb	01:17:51
2	Sb 206.836†	38.1	2.1	0.7372 ug/L	0.7372 ppb	01:17:51
2	Se 196.026†	-27.3	-7.1	-4.6324 ug/L	-4.6324 ppb	01:17:51
2	Si 251.611†	576.1	52.8	1.6870 ug/L	1.6870 ppb	01:17:51
2	Sn 189.927†	7.9	-2.4	-0.4299 ug/L	-0.4299 ppb	01:17:51
2	Ti 334.940†	-1418.0	-162.9	-0.2368 ug/L	-0.2368 ppb	01:17:31
2	Tl 190.801†	-35.9	-5.4	-1.7347 ug/L	-1.7347 ppb	01:17:51
2	U 409.014†	-3153.3	-396.4	-10.714 ug/L	-10.714 ppb	01:17:31
2	V 292.402†	-1411.4	-7.6	-0.0681 ug/L	-0.0681 ppb	01:17:31
2	Zn 213.857†	592.3	45.8	0.4537 ug/L	0.4537 ppb	01:17:51
2	SiO2†	581.6	41.1	2.8035 ug/L	2.8035 ppb	01:18:27
3	Sc Radial	3979.3	3979.3	93.6 %		01:16:59
3	Y RADIAL	4518.5	4518.5	96.30 %		01:16:39
3	Al 396.153Radial†	-109.9	-6.7	-6.1435 ug/L	-6.1435 ppb	01:16:39
3	Ca 317.933Radial†	16.4	2.1	4.2075 ug/L	4.2075 ppb	01:16:59
3	Fe 238.204 Radial†	12.9	3.6	46.218 ug/L	46.218 ppb	01:16:59
3	K 766.490 Radial†	2765.5	399.4	74.723 ug/L	74.723 ppb	01:16:39
3	Mg 279.077 IEC†	2.5	-0.1	-3.5038 ug/L	-3.5038 ppb	01:16:59
3	Na 589.592 Radial†	-790.6	-104.7	-30.393 ug/L	-30.393 ppb	01:16:39
3	Sr 421.552†	102.3	72.6	0.4811 ug/L	0.4811 ppb	01:16:39
3	Sc 361.383	899771.0	899771.0	99.968 %		01:17:56
3	Y 371.029	760814.7	760814.7	99.787 %		01:17:56
3	Ag 328.068†	282.8	53.5	0.2612 ug/L	0.2612 ppb	01:17:56
3	As 188.979†	-23.9	-3.4	-1.5311 ug/L	-1.5311 ppb	01:18:16
3	B 249.677†	-369.3	3.6	0.0777 ug/L	0.0777 ppb	01:18:16
3	Ba 233.527†	11.1	20.3	0.1582 ug/L	0.1582 ppb	01:18:16
3	Be 313.107†	-3798.0	54.1	0.0196 ug/L	0.0196 ppb	01:17:56
3	Cd 226.502†	-191.5	-8.3	-0.1016 ug/L	-0.1016 ppb	01:18:16
3	Co 228.616†	-66.3	-4.4	-0.0894 ug/L	-0.0894 ppb	01:18:16
3	Cr 267.716†	83.9	17.9	0.2061 ug/L	0.2061 ppb	01:18:16
3	Cu 324.752†	5978.2	-97.0	-0.2860 ug/L	-0.2860 ppb	01:17:56
3	Mn 257.610†	469.3	32.6	0.0413 ug/L	0.0413 ppb	01:18:16
3	Mo 202.031†	23.0	17.0	1.2464 ug/L	1.2464 ppb	01:18:16
3	Ni 231.604†	73.2	20.9	0.5318 ug/L	0.5318 ppb	01:18:16
3	P 214.914†	210.5	8.5	5.1996 ug/L	5.1996 ppb	01:18:16
3	Pb 220.353†	-48.1	16.9	2.0946 ug/L	2.0946 ppb	01:18:16
3	S 181.975 Axial†	35.9	-1.2	-1.6904 ug/L	-1.6904 ppb	01:18:16
3	Sb 206.836†	35.0	-1.7	-0.5609 ug/L	-0.5609 ppb	01:18:16
3	Se 196.026†	-32.7	-12.0	-7.7516 ug/L	-7.7516 ppb	01:18:16
3	Si 251.611†	565.9	32.0	1.0105 ug/L	1.0105 ppb	01:18:16
3	Sn 189.927†	12.8	2.4	0.4323 ug/L	0.4323 ppb	01:18:16
3	Ti 334.940†	-1437.2	-155.9	-0.2329 ug/L	-0.2329 ppb	01:17:56
3	Tl 190.801†	-41.1	-9.9	-3.1747 ug/L	-3.1747 ppb	01:18:16
3	U 409.014†	-2995.9	-180.7	-4.8872 ug/L	-4.8872 ppb	01:17:56
3	V 292.402†	-1527.7	-97.8	-0.6771 ug/L	-0.6771 ppb	01:17:56
3	Zn 213.857†	594.6	37.0	0.3618 ug/L	0.3618 ppb	01:18:16
3	SiO2†	591.9	40.6	2.7534 ug/L	2.7534 ppb	01:18:32

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	892260.5	99.133	%	0.9165				0.92%
Sc Radial	3959.0	93.1	%	0.95				1.02%
Y 371.029	754766.3	98.993	%	0.9372				0.95%
Y RADIAL	4497.1	95.84	%	0.395				0.41%
Ag 328.068†	91.1	0.4342	ug/L	0.15864	0.4342	ppb	0.15864	36.53%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-6.2	-5.6306	ug/L	8.33920	-5.6306	ppb	8.33920	148.11%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.6	-1.1631	ug/L	0.34008	-1.1631	ppb	0.34008	29.24%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-5.9	-0.1462	ug/L	0.24822	-0.1462	ppb	0.24822	169.77%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	22.5	0.1760	ug/L	0.02239	0.1760	ppb	0.02239	12.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	125.9	0.0464	ug/L	0.03666	0.0464	ppb	0.03666	78.94%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.8	5.6186	ug/L	1.34352	5.6186	ppb	1.34352	23.91%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                -3.4     -0.0441 ug/L       0.05584     -0.0441 ppb        0.05584 126.55%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                 1.9      0.0410 ug/L       0.11633      0.0410 ppb        0.11633 283.82%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                22.0      0.2524 ug/L       0.04811      0.2524 ppb        0.04811  19.06%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                -6.0     -0.0119 ug/L       0.24606     -0.0119 ppb        0.24606 >999.9%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          2.9      37.399 ug/L       12.4289      37.399 ppb        12.4289  33.23%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         467.4      87.461 ug/L       15.5059      87.461 ppb        15.5059  17.73%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -0.8     -36.628 ug/L       28.8214     -36.628 ppb        28.8214  78.69%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                40.0      0.0500 ug/L       0.01326      0.0500 ppb        0.01326  26.50%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                12.1      0.8914 ug/L       0.31276      0.8914 ppb        0.31276  35.09%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -106.9     -31.012 ug/L       11.8277     -31.012 ppb        11.8277  38.14%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                17.3      0.4400 ug/L       0.12287      0.4400 ppb        0.12287  27.93%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  6.0      3.6226 ug/L       2.30267      3.6226 ppb        2.30267  63.56%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                15.8      1.9570 ug/L       0.40893      1.9570 ppb        0.40893  20.90%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            1.5      2.1846 ug/L       4.01296      2.1846 ppb        4.01296 183.70%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 5.2      1.8291 ug/L       3.08445      1.8291 ppb        3.08445 168.63%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -8.2     -5.2617 ug/L       2.24249     -5.2617 ppb        2.24249  42.62%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                47.3      1.5068 ug/L       0.43513      1.5068 ppb        0.43513  28.88%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 0.2      0.0358 ug/L       0.43524      0.0358 ppb        0.43524 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                49.5      0.3279 ug/L       0.14905      0.3279 ppb        0.14905  45.46%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -139.2     -0.2036 ug/L       0.05416     -0.2036 ppb        0.05416  26.60%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -4.5     -1.4305 ug/L       1.91452     -1.4305 ppb        1.91452 133.84%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -273.1     -7.3850 ug/L       3.00116     -7.3850 ppb        3.00116  40.64%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                -60.8     -0.4296 ug/L       0.32012     -0.4296 ppb        0.32012  74.52%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                33.6      0.3289 ug/L       0.14421      0.3289 ppb        0.14421  43.85%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      29.9      2.0299 ug/L       1.29674      2.0299 ppb        1.29674  63.88%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 74
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/24/2010 02:22:15
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3658.7	3658.7	86.0	%			02:24:07
1	Y RADIAL	4044.0	4044.0	86.19	%			02:24:07
1	Al 396.153Radial†	5592.1	6612.1	5963.2	ug/L	5963.2	ppb	02:24:07
1	Ca 317.933Radial†	2606.5	3014.9	5998.3	ug/L	5998.3	ppb	02:24:27
1	Fe 238.204 Radial†	399.4	454.1	5866.0	ug/L	5866.0	ppb	02:24:27
1	K 766.490 Radial†	29876.1	32177.1	6012.6	ug/L	6012.6	ppb	02:24:07
1	Mg 279.077 IEC†	116.6	132.8	6033.1	ug/L	6033.1	ppb	02:24:27
1	Na 589.592 Radial†	33540.4	39734.2	11531	ug/L	11531	ppb	02:24:07
1	Sr 421.552†	75569.0	87819.5	582.01	ug/L	582.01	ppb	02:24:07
1	Sc 361.383	907511.4	907511.4	100.83	%			02:25:25
1	Y 371.029	754227.9	754227.9	98.923	%			02:25:25
1	Ag 328.068†	112524.5	111371.6	514.83	ug/L	514.83	ppb	02:25:30
1	As 188.979†	1139.0	1150.2	522.97	ug/L	522.97	ppb	02:25:50
1	B 249.677†	20578.7	20782.8	493.56	ug/L	493.56	ppb	02:25:30
1	Ba 233.527†	66210.9	65676.6	514.30	ug/L	514.30	ppb	02:25:30
1	Be 313.107†	1370813.3	1363415.9	509.26	ug/L	509.26	ppb	02:25:25
1	Cd 226.502†	45023.8	44837.6	520.26	ug/L	520.26	ppb	02:25:30
1	Co 228.616†	24874.9	24732.6	517.17	ug/L	517.17	ppb	02:25:30
1	Cr 267.716†	46203.2	45758.0	514.29	ug/L	514.29	ppb	02:25:30
1	Cu 324.752†	174568.1	167058.2	501.70	ug/L	501.70	ppb	02:25:30
1	Mn 257.610†	458062.0	453865.7	509.20	ug/L	509.20	ppb	02:25:25
1	Mo 202.031†	7093.4	7029.1	514.94	ug/L	514.94	ppb	02:25:50
1	Ni 231.604†	20619.8	20398.3	518.17	ug/L	518.17	ppb	02:25:30
1	P 214.914†	4512.9	4273.8	2495.3	ug/L	2495.3	ppb	02:25:50
1	Pb 220.353†	4170.2	4201.1	522.23	ug/L	522.23	ppb	02:25:50
1	S 181.975 Axial†	761.9	718.6	1051.6	ug/L	1051.6	ppb	02:25:50
1	Sb 206.836†	1509.0	1460.0	527.52	ug/L	527.52	ppb	02:25:50
1	Se 196.026†	771.9	786.3	538.20	ug/L	538.20	ppb	02:25:50
1	Si 251.611†	80932.2	79733.9	2551.5	ug/L	2551.5	ppb	02:25:30
1	Sn 189.927†	2920.5	2886.1	522.85	ug/L	522.85	ppb	02:25:50
1	Ti 334.940†	335575.5	334103.2	505.22	ug/L	505.22	ppb	02:25:25
1	Tl 190.801†	1590.6	1608.8	519.68	ug/L	519.68	ppb	02:25:50
1	U 409.014†	15405.4	18095.2	487.13	ug/L	487.13	ppb	02:25:30
1	V 292.402†	72193.8	73031.7	513.77	ug/L	513.77	ppb	02:25:30
1	Zn 213.857†	52497.2	51508.7	511.99	ug/L	511.99	ppb	02:25:30
1	SiO2†	79755.0	78548.9	5383.0	ug/L	5383.0	ppb	02:26:58
2	Sc Radial	3998.5	3998.5	94.0	%			02:24:32
2	Y RADIAL	4409.5	4409.5	93.98	%			02:24:32
2	Al 396.153Radial†	5380.7	5834.7	5259.2	ug/L	5259.2	ppb	02:24:32
2	Ca 317.933Radial†	2577.3	2726.3	5424.1	ug/L	5424.1	ppb	02:24:52
2	Fe 238.204 Radial†	394.9	409.9	5295.8	ug/L	5295.8	ppb	02:24:52
2	K 766.490 Radial†	29192.8	28498.0	5325.0	ug/L	5325.0	ppb	02:24:32
2	Mg 279.077 IEC†	115.4	120.1	5456.1	ug/L	5456.1	ppb	02:24:52
2	Na 589.592 Radial†	32662.4	35485.9	10298	ug/L	10298	ppb	02:24:32
2	Sr 421.552†	73153.8	77782.7	515.49	ug/L	515.49	ppb	02:24:32
2	Sc 361.383	908406.2	908406.2	100.93	%			02:25:56
2	Y 371.029	755790.4	755790.4	99.128	%			02:25:56
2	Ag 328.068†	113313.3	112043.2	517.76	ug/L	517.76	ppb	02:26:01
2	As 188.979†	1140.7	1150.7	523.08	ug/L	523.08	ppb	02:26:21
2	B 249.677†	20776.0	20958.1	497.83	ug/L	497.83	ppb	02:26:01
2	Ba 233.527†	66473.3	65872.0	515.81	ug/L	515.81	ppb	02:26:01
2	Be 313.107†	1373274.5	1364515.3	509.67	ug/L	509.67	ppb	02:25:56
2	Cd 226.502†	45211.7	44979.8	521.97	ug/L	521.97	ppb	02:26:01
2	Co 228.616†	25022.0	24854.1	519.72	ug/L	519.72	ppb	02:26:01
2	Cr 267.716†	46418.5	45926.2	516.13	ug/L	516.13	ppb	02:26:01
2	Cu 324.752†	176348.0	168651.2	506.45	ug/L	506.45	ppb	02:26:01
2	Mn 257.610†	457661.3	453021.2	508.22	ug/L	508.22	ppb	02:25:56
2	Mo 202.031†	7110.8	7039.4	515.64	ug/L	515.64	ppb	02:26:21
2	Ni 231.604†	20695.3	20453.0	519.56	ug/L	519.56	ppb	02:26:01

2	P 214.914†	4517.1	4273.6	2494.5 ug/L	2494.5 ppb	02:26:21
2	Pb 220.353†	4144.3	4171.3	518.45 ug/L	518.45 ppb	02:26:21
2	S 181.975 Axial†	773.1	728.9	1066.8 ug/L	1066.8 ppb	02:26:21
2	Sb 206.836†	1525.7	1475.0	532.80 ug/L	532.80 ppb	02:26:21
2	Se 196.026†	764.3	778.0	530.94 ug/L	530.94 ppb	02:26:21
2	Si 251.611†	81660.2	80376.1	2572.1 ug/L	2572.1 ppb	02:26:01
2	Sn 189.927†	2923.9	2886.6	522.87 ug/L	522.87 ppb	02:26:21
2	Ti 334.940†	335886.0	334082.9	505.16 ug/L	505.16 ppb	02:25:56
2	Tl 190.801†	1579.5	1596.2	515.61 ug/L	515.61 ppb	02:26:21
2	U 409.014†	15373.7	18048.8	485.94 ug/L	485.94 ppb	02:26:01
2	V 292.402†	72770.8	73532.9	517.33 ug/L	517.33 ppb	02:26:01
2	Zn 213.857†	52825.6	51782.8	514.81 ug/L	514.81 ppb	02:26:01
2	SiO2†	79810.9	78526.4	5381.4 ug/L	5381.4 ppb	02:27:03
3	Sc Radial	3960.8	3960.8	93.1 %		02:24:57
3	Y RADIAL	4350.2	4350.2	92.71 %		02:24:57
3	Al 396.153Radial†	5336.1	5841.2	5265.1 ug/L	5265.1 ppb	02:24:57
3	Ca 317.933Radial†	2554.1	2727.4	5426.3 ug/L	5426.3 ppb	02:25:17
3	Fe 238.204 Radial†	389.8	408.4	5277.6 ug/L	5277.6 ppb	02:25:17
3	K 766.490 Radial†	29084.3	28677.0	5358.5 ug/L	5358.5 ppb	02:24:57
3	Mg 279.077 IEC†	116.6	122.5	5565.5 ug/L	5565.5 ppb	02:25:17
3	Na 589.592 Radial†	32244.9	35368.3	10264 ug/L	10264 ppb	02:24:57
3	Sr 421.552†	72124.5	77418.1	513.08 ug/L	513.08 ppb	02:24:57
3	Sc 361.383	909464.6	909464.6	101.04 %		02:26:27
3	Y 371.029	756008.9	756008.9	99.156 %		02:26:27
3	Ag 328.068†	112763.3	111368.3	514.65 ug/L	514.65 ppb	02:26:32
3	As 188.979†	1147.2	1155.9	525.43 ug/L	525.43 ppb	02:26:52
3	B 249.677†	20700.9	20859.8	495.49 ug/L	495.49 ppb	02:26:32
3	Ba 233.527†	66367.5	65690.5	514.39 ug/L	514.39 ppb	02:26:32
3	Be 313.107†	1374101.1	1363749.8	509.38 ug/L	509.38 ppb	02:26:27
3	Cd 226.502†	45054.2	44771.8	519.56 ug/L	519.56 ppb	02:26:32
3	Co 228.616†	24983.6	24787.3	518.33 ug/L	518.33 ppb	02:26:32
3	Cr 267.716†	46267.0	45722.7	513.84 ug/L	513.84 ppb	02:26:32
3	Cu 324.752†	175333.1	167443.5	502.82 ug/L	502.82 ppb	02:26:32
3	Mn 257.610†	458923.8	453742.9	509.02 ug/L	509.02 ppb	02:26:27
3	Mo 202.031†	7115.2	7035.6	515.36 ug/L	515.36 ppb	02:26:52
3	Ni 231.604†	20734.3	20467.6	519.93 ug/L	519.93 ppb	02:26:32
3	P 214.914†	4528.9	4280.0	2499.2 ug/L	2499.2 ppb	02:26:52
3	Pb 220.353†	4185.4	4207.1	522.89 ug/L	522.89 ppb	02:26:52
3	S 181.975 Axial†	773.6	728.6	1066.3 ug/L	1066.3 ppb	02:26:52
3	Sb 206.836†	1537.3	1484.7	536.23 ug/L	536.23 ppb	02:26:52
3	Se 196.026†	766.8	779.6	531.96 ug/L	531.96 ppb	02:26:52
3	Si 251.611†	81177.6	79804.3	2553.8 ug/L	2553.8 ppb	02:26:32
3	Sn 189.927†	2940.6	2899.8	525.26 ug/L	525.26 ppb	02:26:52
3	Ti 334.940†	336312.3	334117.5	505.20 ug/L	505.20 ppb	02:26:27
3	Tl 190.801†	1604.7	1619.3	523.05 ug/L	523.05 ppb	02:26:52
3	U 409.014†	15471.8	18128.2	488.09 ug/L	488.09 ppb	02:26:32
3	V 292.402†	72519.9	73200.7	515.03 ug/L	515.03 ppb	02:26:32
3	Zn 213.857†	52683.8	51581.5	512.80 ug/L	512.80 ppb	02:26:32
3	SiO2†	80352.9	78970.7	5411.9 ug/L	5411.9 ppb	02:27:08

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	908460.7	100.93	%	0.109				0.11%
Sc Radial	3872.7	91.0	%	4.38				4.81%
Y 371.029	755342.4	99.069	%	0.1274				0.13%
Y RADIAL	4267.9	90.96	%	4.180				4.60%
Ag 328.068†	111594.4	515.75	ug/L	1.748	515.75	ppb	1.748	0.34%
QC value within limits for Ag 328.068 Recovery = 103.15%								
Al 396.153Radial†	6096.0	5495.8	ug/L	404.80	5495.8	ppb	404.80	7.37%
QC value within limits for Al 396.153Radial Recovery = 109.92%								
As 188.979†	1152.3	523.83	ug/L	1.388	523.83	ppb	1.388	0.27%
QC value within limits for As 188.979 Recovery = 104.77%								
B 249.677†	20866.9	495.63	ug/L	2.138	495.63	ppb	2.138	0.43%
QC value within limits for B 249.677 Recovery = 99.13%								
Ba 233.527†	65746.4	514.83	ug/L	0.850	514.83	ppb	0.850	0.17%
QC value within limits for Ba 233.527 Recovery = 102.97%								
Be 313.107†	1363893.7	509.43	ug/L	0.210	509.43	ppb	0.210	0.04%
QC value within limits for Be 313.107 Recovery = 101.89%								
Ca 317.933Radial†	2822.8	5616.3	ug/L	330.88	5616.3	ppb	330.88	5.89%

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   QC value greater than the upper limit for Ca 317.933Radial  Recovery = 112.33%
Cd 226.502†            44863.0      520.59 ug/L        1.241      520.59 ppb         1.241   0.24%
   QC value within limits for Cd 226.502  Recovery = 104.12%
Co 228.616†            24791.3      518.41 ug/L        1.276      518.41 ppb         1.276   0.25%
   QC value within limits for Co 228.616  Recovery = 103.68%
Cr 267.716†            45802.3      514.76 ug/L        1.212      514.76 ppb         1.212   0.24%
   QC value within limits for Cr 267.716  Recovery = 102.95%
Cu 324.752†           167717.7      503.66 ug/L        2.485      503.66 ppb         2.485   0.49%
   QC value within limits for Cu 324.752  Recovery = 100.73%
Fe 238.204 Radial†       424.1      5479.8 ug/L       334.57      5479.8 ppb        334.57   6.11%
   QC value within limits for Fe 238.204 Radial  Recovery = 109.60%
K 766.490 Radial†      29784.0      5565.3 ug/L       387.70      5565.3 ppb        387.70   6.97%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 111.31%
Mg 279.077 IEC†          125.1      5684.9 ug/L       306.48      5684.9 ppb        306.48   5.39%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 113.70%
Mn 257.610†           453543.3      508.81 ug/L        0.522      508.81 ppb         0.522   0.10%
   QC value within limits for Mn 257.610  Recovery = 101.76%
Mo 202.031†             7034.7      515.31 ug/L        0.355      515.31 ppb         0.355   0.07%
   QC value within limits for Mo 202.031  Recovery = 103.06%
Na 589.592 Radial†     36862.8       10698 ug/L        721.9       10698 ppb         721.9   6.75%
   QC value within limits for Na 589.592 Radial  Recovery = 106.98%
Ni 231.604†            20439.6      519.22 ug/L        0.928      519.22 ppb         0.928   0.18%
   QC value within limits for Ni 231.604  Recovery = 103.84%
P 214.914†              4275.8      2496.4 ug/L         2.51      2496.4 ppb          2.51   0.10%
   QC value within limits for P 214.914  Recovery = 99.85%
Pb 220.353†             4193.2      521.19 ug/L        2.397      521.19 ppb         2.397   0.46%
   QC value within limits for Pb 220.353  Recovery = 104.24%
S 181.975 Axial†         725.4      1061.6 ug/L         8.67      1061.6 ppb          8.67   0.82%
   QC value within limits for S 181.975 Axial  Recovery = 106.16%
Sb 206.836†             1473.2      532.18 ug/L        4.387      532.18 ppb         4.387   0.82%
   QC value within limits for Sb 206.836  Recovery = 106.44%
Se 196.026†              781.3      533.70 ug/L        3.931      533.70 ppb         3.931   0.74%
   QC value within limits for Se 196.026  Recovery = 106.74%
Si 251.611†            79971.4      2559.1 ug/L        11.30      2559.1 ppb         11.30   0.44%
   QC value within limits for Si 251.611  Recovery = 102.37%
Sn 189.927†             2890.8      523.66 ug/L        1.383      523.66 ppb         1.383   0.26%
   QC value within limits for Sn 189.927  Recovery = 104.73%
Sr 421.552†            81006.8      536.86 ug/L       39.121      536.86 ppb        39.121   7.29%
   QC value within limits for Sr 421.552  Recovery = 107.37%
Ti 334.940†           334101.2      505.19 ug/L        0.031      505.19 ppb         0.031   0.01%
   QC value within limits for Ti 334.940  Recovery = 101.04%
Tl 190.801†             1608.1      519.44 ug/L        3.729      519.44 ppb         3.729   0.72%
   QC value within limits for Tl 190.801  Recovery = 103.89%
U 409.014†             18090.7      487.05 ug/L        1.079      487.05 ppb         1.079   0.22%
   QC value within limits for U 409.014  Recovery = 97.41%
V 292.402†             73255.1      515.38 ug/L        1.805      515.38 ppb         1.805   0.35%
   QC value within limits for V 292.402  Recovery = 103.08%
Zn 213.857†            51624.3      513.20 ug/L        1.453      513.20 ppb         1.453   0.28%
   QC value within limits for Zn 213.857  Recovery = 102.64%
SiO2†                  78682.0      5392.1 ug/L        17.20      5392.1 ppb         17.20   0.32%
   QC value within limits for SiO2  Recovery = 100.83%
QC Failed.  Continue with analysis.
```

Sequence No.: 75
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/24/2010 02:29:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3969.6	3969.6	93.3	%			02:31:32
1	Y RADIAL	4508.4	4508.4	96.09	%			02:31:12
1	Al 396.153Radial†	-118.3	-15.9	-14.456	ug/L	-14.456	ppb	02:31:12
1	Ca 317.933Radial†	20.9	6.9	13.693	ug/L	13.693	ppb	02:31:32
1	Fe 238.204 Radial†	9.2	-0.3	-3.7871	ug/L	-3.7871	ppb	02:31:32
1	K 766.490 Radial†	2681.3	316.3	59.186	ug/L	59.186	ppb	02:31:12
1	Mg 279.077 IEC†	0.5	-2.3	-102.43	ug/L	-102.43	ppb	02:31:32
1	Na 589.592 Radial†	-775.7	-90.9	-26.368	ug/L	-26.368	ppb	02:31:12
1	Sr 421.552†	74.7	43.3	0.2866	ug/L	0.2866	ppb	02:31:12
1	Sc 361.383	890238.3	890238.3	98.908	%			02:32:28
1	Y 371.029	751595.6	751595.6	98.577	%			02:32:28
1	Ag 328.068†	267.0	40.7	0.1925	ug/L	0.1925	ppb	02:32:28
1	As 188.979†	-31.9	-11.7	-5.2928	ug/L	-5.2928	ppb	02:32:48
1	B 249.677†	-424.7	-56.4	-1.3453	ug/L	-1.3453	ppb	02:32:48
1	Ba 233.527†	2.0	11.2	0.0870	ug/L	0.0870	ppb	02:32:48
1	Be 313.107†	-3744.2	67.7	0.0247	ug/L	0.0247	ppb	02:32:28
1	Cd 226.502†	-186.5	-5.2	-0.0619	ug/L	-0.0619	ppb	02:32:48
1	Co 228.616†	-74.0	-12.9	-0.2676	ug/L	-0.2676	ppb	02:32:48
1	Cr 267.716†	83.2	18.2	0.2069	ug/L	0.2069	ppb	02:32:48
1	Cu 324.752†	5974.1	-37.0	-0.1063	ug/L	-0.1063	ppb	02:32:28
1	Mn 257.610†	434.1	2.1	0.0061	ug/L	0.0061	ppb	02:32:48
1	Mo 202.031†	9.7	3.7	0.2741	ug/L	0.2741	ppb	02:32:48
1	Ni 231.604†	66.3	14.7	0.3734	ug/L	0.3734	ppb	02:32:48
1	P 214.914†	200.2	0.4	0.2525	ug/L	0.2525	ppb	02:32:48
1	Pb 220.353†	-51.1	13.3	1.6483	ug/L	1.6483	ppb	02:32:48
1	S 181.975 Axial†	43.4	6.8	9.9568	ug/L	9.9568	ppb	02:32:48
1	Sb 206.836†	42.2	6.0	2.0881	ug/L	2.0881	ppb	02:32:48
1	Se 196.026†	-26.6	-6.1	-4.0644	ug/L	-4.0644	ppb	02:32:48
1	Si 251.611†	565.9	38.0	1.2151	ug/L	1.2151	ppb	02:32:48
1	Sn 189.927†	7.2	-3.2	-0.5688	ug/L	-0.5688	ppb	02:32:48
1	Ti 334.940†	-1426.3	-160.2	-0.2281	ug/L	-0.2281	ppb	02:32:28
1	Tl 190.801†	-37.8	-7.0	-2.2540	ug/L	-2.2540	ppb	02:32:48
1	U 409.014†	-3126.5	-344.7	-9.3144	ug/L	-9.3144	ppb	02:32:28
1	V 292.402†	-1430.8	-16.2	-0.1274	ug/L	-0.1274	ppb	02:32:28
1	Zn 213.857†	583.9	32.7	0.3264	ug/L	0.3264	ppb	02:32:48
1	SiO2†	556.2	10.9	0.7388	ug/L	0.7388	ppb	02:33:44
2	Sc Radial	3961.5	3961.5	93.1	%			02:31:57
2	Y RADIAL	4504.9	4504.9	96.01	%			02:31:37
2	Al 396.153Radial†	-121.7	-19.9	-18.088	ug/L	-18.088	ppb	02:31:37
2	Ca 317.933Radial†	15.8	1.5	2.9577	ug/L	2.9577	ppb	02:31:57
2	Fe 238.204 Radial†	12.7	3.5	44.467	ug/L	44.467	ppb	02:31:57
2	K 766.490 Radial†	2720.1	363.9	68.090	ug/L	68.090	ppb	02:31:37
2	Mg 279.077 IEC†	2.2	-0.3	-15.411	ug/L	-15.411	ppb	02:31:57
2	Na 589.592 Radial†	-803.1	-122.0	-35.399	ug/L	-35.399	ppb	02:31:37
2	Sr 421.552†	38.7	4.8	0.0318	ug/L	0.0318	ppb	02:31:37
2	Sc 361.383	898218.7	898218.7	99.795	%			02:32:54
2	Y 371.029	759977.6	759977.6	99.677	%			02:32:54
2	Ag 328.068†	211.8	-17.1	-0.0627	ug/L	-0.0627	ppb	02:32:54
2	As 188.979†	-24.1	-3.6	-1.6078	ug/L	-1.6078	ppb	02:33:14
2	B 249.677†	-448.1	-76.1	-1.8234	ug/L	-1.8234	ppb	02:33:14
2	Ba 233.527†	20.4	29.6	0.2317	ug/L	0.2317	ppb	02:33:14
2	Be 313.107†	-3773.1	72.4	0.0264	ug/L	0.0264	ppb	02:32:54
2	Cd 226.502†	-188.3	-5.4	-0.0678	ug/L	-0.0678	ppb	02:33:14
2	Co 228.616†	-66.0	-4.2	-0.0871	ug/L	-0.0871	ppb	02:33:14
2	Cr 267.716†	71.4	5.5	0.0676	ug/L	0.0676	ppb	02:33:14
2	Cu 324.752†	5987.0	-77.8	-0.2288	ug/L	-0.2288	ppb	02:32:54
2	Mn 257.610†	459.4	23.5	0.0313	ug/L	0.0313	ppb	02:33:14
2	Mo 202.031†	14.9	8.9	0.6525	ug/L	0.6525	ppb	02:33:14
2	Ni 231.604†	77.5	25.3	0.6441	ug/L	0.6441	ppb	02:33:14

2	P 214.914†	213.1	11.5	6.9690 ug/L	6.9690 ppb		02:33:14
2	Pb 220.353†	-66.7	-1.8	-0.2355 ug/L	-0.2355 ppb		02:33:14
2	S 181.975 Axial†	41.3	4.3	6.3007 ug/L	6.3007 ppb		02:33:14
2	Sb 206.836†	43.9	7.3	2.5870 ug/L	2.5870 ppb		02:33:14
2	Se 196.026†	-23.4	-2.8	-1.6935 ug/L	-1.6935 ppb		02:33:14
2	Si 251.611†	567.2	34.2	1.0902 ug/L	1.0902 ppb		02:33:14
2	Sn 189.927†	19.2	8.8	1.5892 ug/L	1.5892 ppb		02:33:14
2	Ti 334.940†	-1447.7	-168.9	-0.2517 ug/L	-0.2517 ppb		02:32:54
2	Tl 190.801†	-39.7	-8.6	-2.7589 ug/L	-2.7589 ppb		02:33:14
2	U 409.014†	-2985.4	-175.2	-4.7404 ug/L	-4.7404 ppb		02:32:54
2	V 292.402†	-1491.3	-63.9	-0.4502 ug/L	-0.4502 ppb		02:32:54
2	Zn 213.857†	576.6	20.1	0.1915 ug/L	0.1915 ppb		02:33:14
2	SiO2†	569.5	19.2	1.3003 ug/L	1.3003 ppb		02:33:49
3	Sc Radial	3907.1	3907.1	91.9 %			02:32:22
3	Y RADIAL	4561.8	4561.8	97.22 %			02:32:02
3	Al 396.153Radial†	-115.6	-15.0	-13.623 ug/L	-13.623 ppb		02:32:02
3	Ca 317.933Radial†	15.3	1.2	2.3919 ug/L	2.3919 ppb		02:32:22
3	Fe 238.204 Radial†	12.9	3.9	50.225 ug/L	50.225 ppb		02:32:22
3	K 766.490 Radial†	2747.8	434.6	81.336 ug/L	81.336 ppb		02:32:02
3	Mg 279.077 IEC†	2.2	-0.3	-15.753 ug/L	-15.753 ppb		02:32:22
3	Na 589.592 Radial†	-842.4	-176.8	-51.299 ug/L	-51.299 ppb		02:32:02
3	Sr 421.552†	29.5	-4.7	-0.0309 ug/L	-0.0309 ppb		02:32:02
3	Sc 361.383	894282.7	894282.7	99.358 %			02:33:19
3	Y 371.029	755897.1	755897.1	99.142 %			02:33:19
3	Ag 328.068†	290.8	63.3	0.3075 ug/L	0.3075 ppb		02:33:19
3	As 188.979†	-9.3	11.2	5.0633 ug/L	5.0633 ppb		02:33:39
3	B 249.677†	-465.0	-95.0	-2.2750 ug/L	-2.2750 ppb		02:33:39
3	Ba 233.527†	10.2	19.4	0.1520 ug/L	0.1520 ppb		02:33:39
3	Be 313.107†	-3767.6	61.3	0.0221 ug/L	0.0221 ppb		02:33:19
3	Cd 226.502†	-203.1	-21.1	-0.2506 ug/L	-0.2506 ppb		02:33:39
3	Co 228.616†	-76.4	-14.9	-0.3118 ug/L	-0.3118 ppb		02:33:39
3	Cr 267.716†	76.4	10.9	0.1275 ug/L	0.1275 ppb		02:33:39
3	Cu 324.752†	5921.8	-117.1	-0.3466 ug/L	-0.3466 ppb		02:33:19
3	Mn 257.610†	461.2	27.4	0.0363 ug/L	0.0363 ppb		02:33:39
3	Mo 202.031†	9.2	3.2	0.2372 ug/L	0.2372 ppb		02:33:39
3	Ni 231.604†	58.9	6.9	0.1765 ug/L	0.1765 ppb		02:33:39
3	P 214.914†	201.4	0.7	0.4547 ug/L	0.4547 ppb		02:33:39
3	Pb 220.353†	-54.2	10.5	1.2911 ug/L	1.2911 ppb		02:33:39
3	S 181.975 Axial†	39.6	2.8	4.1186 ug/L	4.1186 ppb		02:33:39
3	Sb 206.836†	40.1	3.7	1.2886 ug/L	1.2886 ppb		02:33:39
3	Se 196.026†	-26.8	-6.3	-4.0020 ug/L	-4.0020 ppb		02:33:39
3	Si 251.611†	589.2	58.8	1.8847 ug/L	1.8847 ppb		02:33:39
3	Sn 189.927†	8.5	-1.9	-0.3442 ug/L	-0.3442 ppb		02:33:39
3	Ti 334.940†	-1501.4	-229.3	-0.3435 ug/L	-0.3435 ppb		02:33:19
3	Tl 190.801†	-27.7	3.3	1.0536 ug/L	1.0536 ppb		02:33:39
3	U 409.014†	-2948.9	-151.7	-4.1053 ug/L	-4.1053 ppb		02:33:19
3	V 292.402†	-1494.2	-73.5	-0.5218 ug/L	-0.5218 ppb		02:33:19
3	Zn 213.857†	575.4	21.5	0.2071 ug/L	0.2071 ppb		02:33:39
3	SiO2†	558.5	10.6	0.7234 ug/L	0.7234 ppb		02:33:54

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	894246.5	99.354	%	0.4433				0.45%
Sc Radial	3946.1	92.8	%	0.80				0.86%
Y 371.029	755823.4	99.132	%	0.5497				0.55%
Y RADIAL	4525.0	96.44	%	0.679				0.70%
Ag 328.068†	29.0	0.1458	ug/L	0.18949	0.1458	ppb	0.18949	130.00%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-17.0	-15.389	ug/L	2.3744	-15.389	ppb	2.3744	15.43%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.4	-0.6124	ug/L	5.24930	-0.6124	ppb	5.24930	857.10%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-75.9	-1.8146	ug/L	0.46492	-1.8146	ppb	0.46492	25.62%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	20.1	0.1569	ug/L	0.07245	0.1569	ppb	0.07245	46.17%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	67.1	0.0244	ug/L	0.00218	0.0244	ppb	0.00218	8.96%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.2	6.3474	ug/L	6.36740	6.3474	ppb	6.36740	100.31%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -10.6     -0.1267 ug/L       0.10727     -0.1267 ppb        0.10727  84.64%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†              -10.7     -0.2222 ug/L       0.11905     -0.2222 ppb        0.11905  53.58%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               11.5      0.1340 ug/L       0.06991      0.1340 ppb        0.06991  52.16%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -77.3     -0.2272 ug/L       0.12016     -0.2272 ppb        0.12016  52.88%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         2.4      30.302 ug/L      29.6619      30.302 ppb        29.6619  97.89%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        371.6      69.537 ug/L      11.1455      69.537 ppb        11.1455  16.03%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.0     -44.531 ug/L      50.1422     -44.531 ppb        50.1422 112.60%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               17.6      0.0246 ug/L       0.01616      0.0246 ppb        0.01616  65.75%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                5.3      0.3879 ug/L       0.22988      0.3879 ppb        0.22988  59.26%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      -129.9     -37.689 ug/L      12.6224     -37.689 ppb        12.6224  33.49%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               15.7      0.3980 ug/L       0.23476      0.3980 ppb        0.23476  58.99%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 4.2      2.5587 ug/L       3.82077      2.5587 ppb        3.82077 149.32%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                7.3      0.9013 ug/L       1.00056      0.9013 ppb        1.00056 111.01%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           4.6      6.7920 ug/L       2.94997      6.7920 ppb        2.94997  43.43%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                5.7      1.9879 ug/L       0.65498      1.9879 ppb        0.65498  32.95%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -5.1     -3.2533 ug/L       1.35116     -3.2533 ppb        1.35116  41.53%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               43.7      1.3967 ug/L       0.42725      1.3967 ppb        0.42725  30.59%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                1.2      0.2254 ug/L       1.18638      0.2254 ppb        1.18638 526.39%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               14.5      0.0958 ug/L       0.16813      0.0958 ppb        0.16813 175.44%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -186.2     -0.2744 ug/L       0.06096     -0.2744 ppb        0.06096  22.21%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -4.1     -1.3198 ug/L       2.07083     -1.3198 ppb        2.07083 156.91%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -223.9     -6.0534 ug/L       2.84192     -6.0534 ppb        2.84192  46.95%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -51.2     -0.3664 ug/L       0.21013     -0.3664 ppb        0.21013  57.34%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               24.8      0.2417 ug/L       0.07377      0.2417 ppb        0.07377  30.52%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                     13.6      0.9208 ug/L       0.32870      0.9208 ppb        0.32870  35.70%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 83
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/24/2010 03:23:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3986.3	3986.3	93.7	%			03:25:51
1	Y RADIAL	4397.1	4397.1	93.71	%			03:25:51
1	Al 396.153Radial†	5406.0	5879.1	5299.1	ug/L	5299.1	ppb	03:25:51
1	Ca 317.933Radial†	2582.4	2740.1	5451.6	ug/L	5451.6	ppb	03:26:11
1	Fe 238.204 Radial†	396.9	413.3	5340.0	ug/L	5340.0	ppb	03:26:11
1	K 766.490 Radial†	29414.8	28829.9	5387.0	ug/L	5387.0	ppb	03:25:51
1	Mg 279.077 IEC†	114.4	119.3	5423.2	ug/L	5423.2	ppb	03:26:11
1	Na 589.592 Radial†	33205.8	36172.3	10497	ug/L	10497	ppb	03:25:51
1	Sr 421.552†	73748.0	78655.3	521.28	ug/L	521.28	ppb	03:25:51
1	Sc 361.383	901667.5	901667.5	100.18	%			03:27:08
1	Y 371.029	749008.8	749008.8	98.238	%			03:27:08
1	Ag 328.068†	112100.4	111671.6	516.05	ug/L	516.05	ppb	03:27:14
1	As 188.979†	1147.6	1166.1	530.08	ug/L	530.08	ppb	03:27:34
1	B 249.677†	20514.4	20850.9	495.27	ug/L	495.27	ppb	03:27:14
1	Ba 233.527†	65877.2	65769.1	515.00	ug/L	515.00	ppb	03:27:14
1	Be 313.107†	1377119.0	1378522.0	514.90	ug/L	514.90	ppb	03:27:08
1	Cd 226.502†	44755.0	44858.7	520.56	ug/L	520.56	ppb	03:27:14
1	Co 228.616†	24773.0	24790.8	518.41	ug/L	518.41	ppb	03:27:14
1	Cr 267.716†	45930.6	45782.9	514.52	ug/L	514.52	ppb	03:27:14
1	Cu 324.752†	174070.8	167684.0	503.55	ug/L	503.55	ppb	03:27:14
1	Mn 257.610†	460526.4	459270.2	515.23	ug/L	515.23	ppb	03:27:08
1	Mo 202.031†	7160.9	7142.0	523.15	ug/L	523.15	ppb	03:27:34
1	Ni 231.604†	20540.6	20451.7	519.53	ug/L	519.53	ppb	03:27:14
1	P 214.914†	4549.6	4339.5	2535.2	ug/L	2535.2	ppb	03:27:34
1	Pb 220.353†	4191.3	4248.9	528.08	ug/L	528.08	ppb	03:27:34
1	S 181.975 Axial†	782.6	744.1	1089.1	ug/L	1089.1	ppb	03:27:34
1	Sb 206.836†	1555.6	1516.1	547.43	ug/L	547.43	ppb	03:27:34
1	Se 196.026†	777.5	796.8	543.50	ug/L	543.50	ppb	03:27:34
1	Si 251.611†	80724.9	80047.1	2561.5	ug/L	2561.5	ppb	03:27:14
1	Sn 189.927†	2958.1	2942.4	532.98	ug/L	532.98	ppb	03:27:34
1	Ti 334.940†	337368.8	338050.4	511.16	ug/L	511.16	ppb	03:27:08
1	Tl 190.801†	1574.1	1602.5	517.73	ug/L	517.73	ppb	03:27:34
1	U 409.014†	15449.3	18238.0	491.05	ug/L	491.05	ppb	03:27:14
1	V 292.402†	71813.6	73116.3	514.54	ug/L	514.54	ppb	03:27:14
1	Zn 213.857†	52191.5	51541.0	512.38	ug/L	512.38	ppb	03:27:14
1	SiO2†	80993.2	80297.6	5502.9	ug/L	5502.9	ppb	03:28:42
2	Sc Radial	4047.6	4047.6	95.2	%			03:26:16
2	Y RADIAL	4452.9	4452.9	94.90	%			03:26:16
2	Al 396.153Radial†	5451.2	5839.3	5263.0	ug/L	5263.0	ppb	03:26:16
2	Ca 317.933Radial†	2593.5	2710.0	5391.8	ug/L	5391.8	ppb	03:26:36
2	Fe 238.204 Radial†	397.2	407.2	5261.8	ug/L	5261.8	ppb	03:26:36
2	K 766.490 Radial†	29681.5	28634.6	5350.5	ug/L	5350.5	ppb	03:26:16
2	Mg 279.077 IEC†	113.2	116.2	5279.4	ug/L	5279.4	ppb	03:26:36
2	Na 589.592 Radial†	33285.8	35719.4	10366	ug/L	10366	ppb	03:26:16
2	Sr 421.552†	74308.2	78051.4	517.27	ug/L	517.27	ppb	03:26:16
2	Sc 361.383	898192.0	898192.0	99.792	%			03:27:40
2	Y 371.029	746101.9	746101.9	97.857	%			03:27:40
2	Ag 328.068†	112782.7	112788.4	521.17	ug/L	521.17	ppb	03:27:45
2	As 188.979†	1138.2	1161.1	527.82	ug/L	527.82	ppb	03:28:05
2	B 249.677†	20777.0	21193.3	503.44	ug/L	503.44	ppb	03:27:45
2	Ba 233.527†	66306.0	66453.3	520.36	ug/L	520.36	ppb	03:27:45
2	Be 313.107†	1370987.7	1377697.0	514.59	ug/L	514.59	ppb	03:27:40
2	Cd 226.502†	45116.9	45394.2	526.79	ug/L	526.79	ppb	03:27:45
2	Co 228.616†	24953.4	25067.3	524.19	ug/L	524.19	ppb	03:27:45
2	Cr 267.716†	46376.9	46407.5	521.53	ug/L	521.53	ppb	03:27:45
2	Cu 324.752†	175335.1	169623.3	509.36	ug/L	509.36	ppb	03:27:45
2	Mn 257.610†	459200.7	459720.5	515.73	ug/L	515.73	ppb	03:27:40
2	Mo 202.031†	7135.9	7144.7	523.34	ug/L	523.34	ppb	03:28:05
2	Ni 231.604†	20721.6	20712.5	526.15	ug/L	526.15	ppb	03:27:45

2	P 214.914†	4549.1	4356.6	2544.4 ug/L	2544.4 ppb	03:28:05
2	Pb 220.353†	4211.6	4285.4	532.61 ug/L	532.61 ppb	03:28:05
2	S 181.975 Axial†	771.5	736.1	1077.4 ug/L	1077.4 ppb	03:28:05
2	Sb 206.836†	1543.1	1509.6	545.22 ug/L	545.22 ppb	03:28:05
2	Se 196.026†	770.3	792.6	540.51 ug/L	540.51 ppb	03:28:05
2	Si 251.611†	81130.9	80765.7	2584.5 ug/L	2584.5 ppb	03:27:45
2	Sn 189.927†	2953.5	2949.3	534.21 ug/L	534.21 ppb	03:28:05
2	Ti 334.940†	336310.1	338292.5	511.53 ug/L	511.53 ppb	03:27:40
2	Tl 190.801†	1582.0	1616.5	522.20 ug/L	522.20 ppb	03:28:05
2	U 409.014†	15777.7	18626.8	501.55 ug/L	501.55 ppb	03:27:45
2	V 292.402†	72472.0	74053.5	521.08 ug/L	521.08 ppb	03:27:45
2	Zn 213.857†	52741.3	52293.4	519.89 ug/L	519.89 ppb	03:27:45
2	SiO2†	80101.6	79717.0	5463.0 ug/L	5463.0 ppb	03:28:47
3	Sc Radial	3984.7	3984.7	93.7 %		03:26:41
3	Y RADIAL	4333.7	4333.7	92.36 %		03:26:41
3	Al 396.153Radial†	5401.5	5876.7	5296.9 ug/L	5296.9 ppb	03:26:41
3	Ca 317.933Radial†	2590.4	2749.7	5470.8 ug/L	5470.8 ppb	03:27:01
3	Fe 238.204 Radial†	400.4	417.2	5390.3 ug/L	5390.3 ppb	03:27:01
3	K 766.490 Radial†	29087.5	28493.1	5324.0 ug/L	5324.0 ppb	03:26:41
3	Mg 279.077 IEC†	116.6	121.7	5529.8 ug/L	5529.8 ppb	03:27:01
3	Na 589.592 Radial†	32576.4	35514.5	10306 ug/L	10306 ppb	03:26:41
3	Sr 421.552†	73066.9	77959.4	516.66 ug/L	516.66 ppb	03:26:41
3	Sc 361.383	892746.3	892746.3	99.187 %		03:28:11
3	Y 371.029	742435.2	742435.2	97.376 %		03:28:11
3	Ag 328.068†	112293.3	112984.3	522.12 ug/L	522.12 ppb	03:28:16
3	As 188.979†	1134.6	1164.4	529.30 ug/L	529.30 ppb	03:28:36
3	B 249.677†	20622.8	21164.8	502.74 ug/L	502.74 ppb	03:28:16
3	Ba 233.527†	65964.0	66513.8	520.84 ug/L	520.84 ppb	03:28:16
3	Be 313.107†	1361348.7	1376359.4	514.09 ug/L	514.09 ppb	03:28:11
3	Cd 226.502†	44834.1	45384.9	526.67 ug/L	526.67 ppb	03:28:16
3	Co 228.616†	24802.4	25067.6	524.19 ug/L	524.19 ppb	03:28:16
3	Cr 267.716†	46030.6	46341.8	520.81 ug/L	520.81 ppb	03:28:16
3	Cu 324.752†	174106.2	169456.0	508.87 ug/L	508.87 ppb	03:28:16
3	Mn 257.610†	455477.7	458773.9	514.68 ug/L	514.68 ppb	03:28:11
3	Mo 202.031†	7095.1	7147.2	523.53 ug/L	523.53 ppb	03:28:36
3	Ni 231.604†	20594.8	20711.2	526.12 ug/L	526.12 ppb	03:28:16
3	P 214.914†	4532.4	4367.5	2551.0 ug/L	2551.0 ppb	03:28:36
3	Pb 220.353†	4164.3	4263.5	529.89 ug/L	529.89 ppb	03:28:36
3	S 181.975 Axial†	762.4	731.6	1070.8 ug/L	1070.8 ppb	03:28:36
3	Sb 206.836†	1547.9	1523.9	550.16 ug/L	550.16 ppb	03:28:36
3	Se 196.026†	756.5	783.4	534.87 ug/L	534.87 ppb	03:28:36
3	Si 251.611†	80837.9	80966.3	2590.9 ug/L	2590.9 ppb	03:28:16
3	Sn 189.927†	2927.4	2941.0	532.71 ug/L	532.71 ppb	03:28:36
3	Ti 334.940†	333989.3	338008.5	511.09 ug/L	511.09 ppb	03:28:11
3	Tl 190.801†	1565.7	1609.8	520.03 ug/L	520.03 ppb	03:28:36
3	U 409.014†	15473.8	18416.8	495.86 ug/L	495.86 ppb	03:28:16
3	V 292.402†	72090.1	74111.4	521.46 ug/L	521.46 ppb	03:28:16
3	Zn 213.857†	52311.8	52182.9	518.77 ug/L	518.77 ppb	03:28:16
3	SiO2†	80970.8	81082.9	5556.8 ug/L	5556.8 ppb	03:28:52

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	897535.3	99.719	%	0.4996				0.50%
Sc Radial	4006.2	94.2	%	0.84				0.90%
Y 371.029	745848.6	97.824	%	0.4321				0.44%
Y RADIAL	4394.5	93.66	%	1.271				1.36%
Ag 328.068†	112481.4	519.78	ug/L	3.265	519.78	ppb	3.265	0.63%
QC value within limits for Ag 328.068 Recovery = 103.96%								
Al 396.153Radial†	5865.1	5286.3	ug/L	20.22	5286.3	ppb	20.22	0.38%
QC value within limits for Al 396.153Radial Recovery = 105.73%								
As 188.979†	1163.9	529.07	ug/L	1.151	529.07	ppb	1.151	0.22%
QC value within limits for As 188.979 Recovery = 105.81%								
B 249.677†	21069.6	500.48	ug/L	4.527	500.48	ppb	4.527	0.90%
QC value within limits for B 249.677 Recovery = 100.10%								
Ba 233.527†	66245.4	518.73	ug/L	3.239	518.73	ppb	3.239	0.62%
QC value within limits for Ba 233.527 Recovery = 103.75%								
Be 313.107†	1377526.1	514.53	ug/L	0.407	514.53	ppb	0.407	0.08%
QC value within limits for Be 313.107 Recovery = 102.91%								
Ca 317.933Radial†	2733.3	5438.1	ug/L	41.24	5438.1	ppb	41.24	0.76%

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   QC value within limits for Ca 317.933Radial  Recovery = 108.76%
Cd 226.502†            45212.6      524.67 ug/L        3.562      524.67 ppb        3.562   0.68%
   QC value within limits for Cd 226.502  Recovery = 104.93%
Co 228.616†            24975.2      522.26 ug/L        3.339      522.26 ppb        3.339   0.64%
   QC value within limits for Co 228.616  Recovery = 104.45%
Cr 267.716†            46177.4      518.95 ug/L        3.852      518.95 ppb        3.852   0.74%
   QC value within limits for Cr 267.716  Recovery = 103.79%
Cu 324.752†           168921.1      507.26 ug/L        3.224      507.26 ppb        3.224   0.64%
   QC value within limits for Cu 324.752  Recovery = 101.45%
Fe 238.204 Radial†       412.6      5330.7 ug/L       64.78      5330.7 ppb       64.78   1.22%
   QC value within limits for Fe 238.204 Radial  Recovery = 106.61%
K 766.490 Radial†      28652.5      5353.8 ug/L       31.61      5353.8 ppb       31.61   0.59%
   QC value within limits for K 766.490 Radial  Recovery = 107.08%
Mg 279.077 IEC†          119.1      5410.8 ug/L      125.69      5410.8 ppb      125.69   2.32%
   QC value within limits for Mg 279.077 IEC  Recovery = 108.22%
Mn 257.610†           459254.9      515.21 ug/L        0.530      515.21 ppb        0.530   0.10%
   QC value within limits for Mn 257.610  Recovery = 103.04%
Mo 202.031†             7144.6      523.34 ug/L        0.189      523.34 ppb        0.189   0.04%
   QC value within limits for Mo 202.031  Recovery = 104.67%
Na 589.592 Radial†     35802.0       10390 ug/L         97.7       10390 ppb         97.7   0.94%
   QC value within limits for Na 589.592 Radial  Recovery = 103.90%
Ni 231.604†            20625.1      523.93 ug/L        3.816      523.93 ppb        3.816   0.73%
   QC value within limits for Ni 231.604  Recovery = 104.79%
P 214.914†              4354.5      2543.6 ug/L        7.97      2543.6 ppb        7.97   0.31%
   QC value within limits for P 214.914  Recovery = 101.74%
Pb 220.353†             4265.9      530.19 ug/L        2.277      530.19 ppb        2.277   0.43%
   QC value within limits for Pb 220.353  Recovery = 106.04%
S 181.975 Axial†         737.3      1079.1 ug/L        9.27      1079.1 ppb        9.27   0.86%
   QC value within limits for S 181.975 Axial  Recovery = 107.91%
Sb 206.836†             1516.5      547.60 ug/L        2.476      547.60 ppb        2.476   0.45%
   QC value within limits for Sb 206.836  Recovery = 109.52%
Se 196.026†              790.9      539.63 ug/L        4.382      539.63 ppb        4.382   0.81%
   QC value within limits for Se 196.026  Recovery = 107.93%
Si 251.611†            80593.0      2579.0 ug/L       15.50      2579.0 ppb       15.50   0.60%
   QC value within limits for Si 251.611  Recovery = 103.16%
Sn 189.927†             2944.2      533.30 ug/L        0.797      533.30 ppb        0.797   0.15%
   QC value within limits for Sn 189.927  Recovery = 106.66%
Sr 421.552†            78222.0      518.40 ug/L        2.505      518.40 ppb        2.505   0.48%
   QC value within limits for Sr 421.552  Recovery = 103.68%
Ti 334.940†           338117.1      511.26 ug/L        0.234      511.26 ppb        0.234   0.05%
   QC value within limits for Ti 334.940  Recovery = 102.25%
Tl 190.801†             1609.6      519.99 ug/L        2.236      519.99 ppb        2.236   0.43%
   QC value within limits for Tl 190.801  Recovery = 104.00%
U 409.014†             18427.2      496.15 ug/L        5.256      496.15 ppb        5.256   1.06%
   QC value within limits for U 409.014  Recovery = 99.23%
V 292.402†             73760.4      519.03 ug/L        3.887      519.03 ppb        3.887   0.75%
   QC value within limits for V 292.402  Recovery = 103.81%
Zn 213.857†            52005.8      517.01 ug/L        4.051      517.01 ppb        4.051   0.78%
   QC value within limits for Zn 213.857  Recovery = 103.40%
SiO2†                  80365.8      5507.6 ug/L       47.10      5507.6 ppb       47.10   0.86%
   QC value within limits for SiO2  Recovery = 102.99%
All analyte(s) passed QC.
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Sequence No.: 84
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/24/2010 03:31:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4070.8	4070.8	95.7	%			03:32:54
1	Y RADIAL	4492.0	4492.0	95.74	%			03:32:54
1	Al 396.153Radial†	-115.3	-9.7	-8.8092	ug/L	-8.8092	ppb	03:32:54
1	Ca 317.933Radial†	19.5	4.9	9.8448	ug/L	9.8448	ppb	03:33:14
1	Fe 238.204 Radial†	13.7	4.2	53.492	ug/L	53.492	ppb	03:33:14
1	K 766.490 Radial†	2650.6	212.8	39.825	ug/L	39.825	ppb	03:32:54
1	Mg 279.077 IEC†	1.4	-1.3	-60.804	ug/L	-60.804	ppb	03:33:14
1	Na 589.592 Radial†	-799.6	-95.2	-27.615	ug/L	-27.615	ppb	03:32:54
1	Sr 421.552†	83.7	50.7	0.3357	ug/L	0.3357	ppb	03:32:54
1	Sc 361.383	917171.0	917171.0	101.90	%			03:34:11
1	Y 371.029	773105.4	773105.4	101.40	%			03:34:11
1	Ag 328.068†	274.2	39.8	0.1961	ug/L	0.1961	ppb	03:34:16
1	As 188.979†	-23.1	-2.2	-0.9701	ug/L	-0.9701	ppb	03:34:36
1	B 249.677†	-393.3	-13.1	-0.3202	ug/L	-0.3202	ppb	03:34:36
1	Ba 233.527†	3.1	12.2	0.0959	ug/L	0.0959	ppb	03:34:36
1	Be 313.107†	-3729.9	192.9	0.0712	ug/L	0.0712	ppb	03:34:16
1	Cd 226.502†	-181.3	5.4	0.0572	ug/L	0.0572	ppb	03:34:36
1	Co 228.616†	-64.7	-1.5	-0.0319	ug/L	-0.0319	ppb	03:34:36
1	Cr 267.716†	68.6	1.3	0.0186	ug/L	0.0186	ppb	03:34:36
1	Cu 324.752†	6009.7	-179.5	-0.5371	ug/L	-0.5371	ppb	03:34:16
1	Mn 257.610†	478.1	32.3	0.0440	ug/L	0.0440	ppb	03:34:36
1	Mo 202.031†	8.0	1.8	0.1366	ug/L	0.1366	ppb	03:34:36
1	Ni 231.604†	65.2	11.7	0.2964	ug/L	0.2964	ppb	03:34:36
1	P 214.914†	209.4	3.4	2.1554	ug/L	2.1554	ppb	03:34:36
1	Pb 220.353†	-53.1	13.0	1.5986	ug/L	1.5986	ppb	03:34:36
1	S 181.975 Axial†	39.9	2.1	3.1146	ug/L	3.1146	ppb	03:34:36
1	Sb 206.836†	52.4	14.7	5.1444	ug/L	5.1444	ppb	03:34:36
1	Se 196.026†	-34.9	-13.6	-8.7984	ug/L	-8.7984	ppb	03:34:36
1	Si 251.611†	570.5	25.7	0.8233	ug/L	0.8233	ppb	03:34:36
1	Sn 189.927†	12.4	1.7	0.3106	ug/L	0.3106	ppb	03:34:36
1	Ti 334.940†	-1499.0	-189.2	-0.2806	ug/L	-0.2806	ppb	03:34:16
1	Tl 190.801†	-30.3	1.5	0.4683	ug/L	0.4683	ppb	03:34:36
1	U 409.014†	-2812.7	56.0	1.5073	ug/L	1.5073	ppb	03:34:11
1	V 292.402†	-1512.8	-54.1	-0.3797	ug/L	-0.3797	ppb	03:34:16
1	Zn 213.857†	576.5	8.1	0.0719	ug/L	0.0719	ppb	03:34:36
1	SiO2†	604.6	41.8	2.8709	ug/L	2.8709	ppb	03:35:42
2	Sc Radial	4080.0	4080.0	95.9	%			03:33:19
2	Y RADIAL	4518.1	4518.1	96.29	%			03:33:19
2	Al 396.153Radial†	-122.2	-16.7	-15.141	ug/L	-15.141	ppb	03:33:19
2	Ca 317.933Radial†	17.3	2.6	5.1335	ug/L	5.1335	ppb	03:33:39
2	Fe 238.204 Radial†	10.1	0.4	4.7130	ug/L	4.7130	ppb	03:33:39
2	K 766.490 Radial†	2755.1	315.4	59.026	ug/L	59.026	ppb	03:33:19
2	Mg 279.077 IEC†	4.0	1.4	65.509	ug/L	65.509	ppb	03:33:39
2	Na 589.592 Radial†	-818.0	-112.4	-32.613	ug/L	-32.613	ppb	03:33:19
2	Sr 421.552†	24.6	-11.1	-0.0739	ug/L	-0.0739	ppb	03:33:19
2	Sc 361.383	909531.2	909531.2	101.05	%			03:34:41
2	Y 371.029	766723.8	766723.8	100.56	%			03:34:41
2	Ag 328.068†	271.5	39.3	0.1778	ug/L	0.1778	ppb	03:34:46
2	As 188.979†	-23.4	-2.6	-1.1749	ug/L	-1.1749	ppb	03:35:06
2	B 249.677†	-398.2	-21.1	-0.5034	ug/L	-0.5034	ppb	03:35:06
2	Ba 233.527†	-1.3	7.9	0.0602	ug/L	0.0602	ppb	03:35:06
2	Be 313.107†	-3821.5	71.5	0.0265	ug/L	0.0265	ppb	03:34:46
2	Cd 226.502†	-191.5	-6.2	-0.0717	ug/L	-0.0717	ppb	03:35:06
2	Co 228.616†	-61.9	0.7	0.0175	ug/L	0.0175	ppb	03:35:06
2	Cr 267.716†	74.2	7.5	0.0825	ug/L	0.0825	ppb	03:35:06
2	Cu 324.752†	6044.1	-95.9	-0.2888	ug/L	-0.2888	ppb	03:34:46
2	Mn 257.610†	457.7	16.1	0.0158	ug/L	0.0158	ppb	03:35:06
2	Mo 202.031†	23.4	17.1	1.2501	ug/L	1.2501	ppb	03:35:06
2	Ni 231.604†	49.6	-3.2	-0.0810	ug/L	-0.0810	ppb	03:35:06

2	P 214.914†	222.4	18.0	10.998 ug/L	10.998 ppb	03:35:06
2	Pb 220.353†	-56.0	9.6	1.1889 ug/L	1.1889 ppb	03:35:06
2	S 181.975 Axial†	27.8	-9.5	-13.985 ug/L	-13.985 ppb	03:35:06
2	Sb 206.836†	47.8	10.6	3.7162 ug/L	3.7162 ppb	03:35:06
2	Se 196.026†	-24.4	-3.5	-2.2784 ug/L	-2.2784 ppb	03:35:06
2	Si 251.611†	582.5	42.3	1.3419 ug/L	1.3419 ppb	03:35:06
2	Sn 189.927†	11.3	0.8	0.1456 ug/L	0.1456 ppb	03:35:06
2	Ti 334.940†	-1352.9	-57.0	-0.0918 ug/L	-0.0918 ppb	03:34:46
2	Tl 190.801†	-18.1	13.3	4.2662 ug/L	4.2662 ppb	03:35:06
2	U 409.014†	-2774.4	70.7	1.9106 ug/L	1.9106 ppb	03:34:41
2	V 292.402†	-1543.9	-97.4	-0.6545 ug/L	-0.6545 ppb	03:34:46
2	Zn 213.857†	585.1	21.3	0.2137 ug/L	0.2137 ppb	03:35:06
2	SiO2†	605.9	48.1	3.2679 ug/L	3.2679 ppb	03:35:47
3	Sc Radial	4151.2	4151.2	97.6 %		03:33:44
3	Y RADIAL	4604.6	4604.6	98.14 %		03:33:44
3	Al 396.153Radial†	-121.7	-13.9	-12.632 ug/L	-12.632 ppb	03:33:44
3	Ca 317.933Radial†	19.2	4.2	8.4283 ug/L	8.4283 ppb	03:34:04
3	Fe 238.204 Radial†	10.4	0.5	6.2628 ug/L	6.2628 ppb	03:34:04
3	K 766.490 Radial†	2790.2	302.2	56.544 ug/L	56.544 ppb	03:33:44
3	Mg 279.077 IEC†	1.4	-1.3	-60.061 ug/L	-60.061 ppb	03:34:04
3	Na 589.592 Radial†	-788.7	-67.7	-19.660 ug/L	-19.660 ppb	03:33:44
3	Sr 421.552†	32.2	-3.8	-0.0254 ug/L	-0.0254 ppb	03:33:44
3	Sc 361.383	907903.9	907903.9	100.87 %		03:35:11
3	Y 371.029	765878.7	765878.7	100.45 %		03:35:11
3	Ag 328.068†	192.1	-38.9	-0.1775 ug/L	-0.1775 ppb	03:35:16
3	As 188.979†	-25.3	-4.5	-2.0458 ug/L	-2.0458 ppb	03:35:36
3	B 249.677†	-432.4	-55.7	-1.3308 ug/L	-1.3308 ppb	03:35:36
3	Ba 233.527†	12.1	21.1	0.1651 ug/L	0.1651 ppb	03:35:36
3	Be 313.107†	-3680.6	204.5	0.0754 ug/L	0.0754 ppb	03:35:16
3	Cd 226.502†	-189.8	-4.8	-0.0564 ug/L	-0.0564 ppb	03:35:36
3	Co 228.616†	-70.6	-8.1	-0.1663 ug/L	-0.1663 ppb	03:35:36
3	Cr 267.716†	75.7	9.0	0.1018 ug/L	0.1018 ppb	03:35:36
3	Cu 324.752†	5971.5	-157.2	-0.4719 ug/L	-0.4719 ppb	03:35:16
3	Mn 257.610†	480.1	39.1	0.0470 ug/L	0.0470 ppb	03:35:36
3	Mo 202.031†	19.8	13.6	0.9946 ug/L	0.9946 ppb	03:35:36
3	Ni 231.604†	68.5	15.6	0.3969 ug/L	0.3969 ppb	03:35:36
3	P 214.914†	202.9	-0.9	-0.4489 ug/L	-0.4489 ppb	03:35:36
3	Pb 220.353†	-41.5	23.9	2.9648 ug/L	2.9648 ppb	03:35:36
3	S 181.975 Axial†	33.7	-3.6	-5.3003 ug/L	-5.3003 ppb	03:35:36
3	Sb 206.836†	47.9	10.8	3.8067 ug/L	3.8067 ppb	03:35:36
3	Se 196.026†	-24.3	-3.4	-2.2027 ug/L	-2.2027 ppb	03:35:36
3	Si 251.611†	589.4	50.1	1.5956 ug/L	1.5956 ppb	03:35:36
3	Sn 189.927†	16.2	5.7	1.0280 ug/L	1.0280 ppb	03:35:36
3	Ti 334.940†	-1514.2	-219.3	-0.3257 ug/L	-0.3257 ppb	03:35:16
3	Tl 190.801†	-24.9	6.6	2.1011 ug/L	2.1011 ppb	03:35:36
3	U 409.014†	-2831.1	9.6	0.2583 ug/L	0.2583 ppb	03:35:11
3	V 292.402†	-1456.4	-13.4	-0.0804 ug/L	-0.0804 ppb	03:35:16
3	Zn 213.857†	582.3	19.6	0.1934 ug/L	0.1934 ppb	03:35:36
3	SiO2†	585.4	28.9	1.9564 ug/L	1.9564 ppb	03:35:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	911535.4	101.27	%	0.550				0.54%
Sc Radial	4100.7	96.4	%	1.03				1.07%
Y 371.029	768569.3	100.80	%	0.518				0.51%
Y RADIAL	4538.2	96.72	%	1.256				1.30%
Ag 328.068†	13.4	0.0655	ug/L	0.21062	0.0655	ppb	0.21062	321.78%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-13.4	-12.194	ug/L	3.1887	-12.194	ppb	3.1887	26.15%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.1	-1.3969	ug/L	0.57120	-1.3969	ppb	0.57120	40.89%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-30.0	-0.7181	ug/L	0.53843	-0.7181	ppb	0.53843	74.98%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	13.7	0.1071	ug/L	0.05334	0.1071	ppb	0.05334	49.82%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	156.3	0.0577	ug/L	0.02715	0.0577	ppb	0.02715	47.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.9	7.8022	ug/L	2.41725	7.8022	ppb	2.41725	30.98%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                -1.9     -0.0237 ug/L       0.07041     -0.0237 ppb        0.07041 297.69%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                -3.0     -0.0602 ug/L       0.09511     -0.0602 ppb        0.09511 157.91%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 5.9      0.0676 ug/L       0.04352      0.0676 ppb        0.04352  64.36%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -144.2     -0.4326 ug/L       0.12875     -0.4326 ppb        0.12875  29.76%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          1.7      21.489 ug/L       27.7260      21.489 ppb        27.7260 129.02%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         276.8      51.798 ug/L       10.4433      51.798 ppb        10.4433  20.16%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -0.4     -18.452 ug/L       72.7131     -18.452 ppb        72.7131 394.06%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                29.2      0.0356 ug/L       0.01719      0.0356 ppb        0.01719  48.29%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                10.8      0.7938 ug/L       0.58331      0.7938 ppb        0.58331  73.48%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -91.8     -26.629 ug/L        6.5329     -26.629 ppb         6.5329  24.53%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 8.0      0.2041 ug/L       0.25194      0.2041 ppb        0.25194 123.46%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  6.9      4.2348 ug/L       5.99998      4.2348 ppb        5.99998 141.68%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                15.5      1.9175 ug/L       0.92989      1.9175 ppb        0.92989  48.50%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -3.7     -5.3902 ug/L       8.55016     -5.3902 ppb        8.55016 158.62%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                12.0      4.2224 ug/L       0.79972      4.2224 ppb        0.79972  18.94%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -6.8     -4.4265 ug/L       3.78638     -4.4265 ppb        3.78638  85.54%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                39.4      1.2536 ug/L       0.39366      1.2536 ppb        0.39366  31.40%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 2.7      0.4947 ug/L       0.46913      0.4947 ppb        0.46913  94.83%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                11.9      0.0788 ug/L       0.22380      0.0788 ppb        0.22380 284.01%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -155.2     -0.2327 ug/L       0.12409     -0.2327 ppb        0.12409  53.33%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 7.1      2.2785 ug/L       1.90514      2.2785 ppb        1.90514  83.61%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                 45.4      1.2254 ug/L       0.86149      1.2254 ppb        0.86149  70.30%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                -55.0     -0.3715 ug/L       0.28714     -0.3715 ppb        0.28714  77.29%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                16.3      0.1596 ug/L       0.07668      0.1596 ppb        0.07668  48.04%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      39.6      2.6984 ug/L       0.67259      2.6984 ppb        0.67259  24.93%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 93
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/24/2010 04:33:39
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3903.9	3903.9	91.8	%			04:35:51
1	Y RADIAL	4463.7	4463.7	95.13	%			04:35:31
1	Al 396.153Radial†	5511.1	6115.5	5513.3	ug/L	5513.3	ppb	04:35:31
1	Ca 317.933Radial†	2565.7	2780.0	5531.0	ug/L	5531.0	ppb	04:35:51
1	Fe 238.204 Radial†	397.7	423.1	5466.7	ug/L	5466.7	ppb	04:35:51
1	K 766.490 Radial†	29880.0	29999.3	5605.5	ug/L	5605.5	ppb	04:35:31
1	Mg 279.077 IEC†	116.0	123.6	5619.2	ug/L	5619.2	ppb	04:35:51
1	Na 589.592 Radial†	34588.2	38426.2	11151	ug/L	11151	ppb	04:35:31
1	Sr 421.552†	76004.5	82774.6	548.58	ug/L	548.58	ppb	04:35:31
1	Sc 361.383	904807.2	904807.2	100.53	%			04:36:49
1	Y 371.029	751021.5	751021.5	98.502	%			04:36:49
1	Ag 328.068†	111976.9	111160.5	513.74	ug/L	513.74	ppb	04:36:54
1	As 188.979†	1145.2	1159.7	527.09	ug/L	527.09	ppb	04:37:14
1	B 249.677†	21630.5	21890.1	520.05	ug/L	520.05	ppb	04:36:54
1	Ba 233.527†	65947.4	65610.8	513.77	ug/L	513.77	ppb	04:36:54
1	Be 313.107†	1366671.2	1363358.8	509.21	ug/L	509.21	ppb	04:36:49
1	Cd 226.502†	44711.5	44660.4	518.24	ug/L	518.24	ppb	04:36:54
1	Co 228.616†	24822.2	24754.0	517.66	ug/L	517.66	ppb	04:36:54
1	Cr 267.716†	45910.1	45603.4	512.52	ug/L	512.52	ppb	04:36:54
1	Cu 324.752†	173692.6	166704.8	500.61	ug/L	500.61	ppb	04:36:54
1	Mn 257.610†	458165.6	455326.5	510.81	ug/L	510.81	ppb	04:36:49
1	Mo 202.031†	7132.2	7088.7	519.26	ug/L	519.26	ppb	04:37:14
1	Ni 231.604†	20489.1	20329.4	516.42	ug/L	516.42	ppb	04:36:54
1	P 214.914†	4524.7	4298.9	2511.0	ug/L	2511.0	ppb	04:37:14
1	Pb 220.353†	4176.0	4219.2	524.43	ug/L	524.43	ppb	04:37:14
1	S 181.975 Axial†	767.4	726.3	1062.9	ug/L	1062.9	ppb	04:37:14
1	Sb 206.836†	1532.8	1488.1	537.50	ug/L	537.50	ppb	04:37:14
1	Se 196.026†	774.0	790.6	539.82	ug/L	539.82	ppb	04:37:14
1	Si 251.611†	80553.6	79597.1	2547.1	ug/L	2547.1	ppb	04:36:54
1	Sn 189.927†	2923.4	2897.6	524.88	ug/L	524.88	ppb	04:37:14
1	Ti 334.940†	327883.0	327445.6	495.12	ug/L	495.12	ppb	04:36:54
1	Tl 190.801†	1585.9	1608.8	519.59	ug/L	519.59	ppb	04:37:14
1	U 409.014†	15465.0	18200.2	490.02	ug/L	490.02	ppb	04:36:54
1	V 292.402†	71827.4	72881.2	512.86	ug/L	512.86	ppb	04:36:54
1	Zn 213.857†	52251.2	51419.5	511.17	ug/L	511.17	ppb	04:36:54
1	SiO2†	80524.9	79551.2	5451.7	ug/L	5451.7	ppb	04:38:21
2	Sc Radial	3927.7	3927.7	92.3	%			04:36:16
2	Y RADIAL	4403.9	4403.9	93.86	%			04:35:56
2	Al 396.153Radial†	5423.6	5984.2	5394.2	ug/L	5394.2	ppb	04:35:56
2	Ca 317.933Radial†	2569.5	2767.1	5505.5	ug/L	5505.5	ppb	04:36:16
2	Fe 238.204 Radial†	396.4	419.1	5414.6	ug/L	5414.6	ppb	04:36:16
2	K 766.490 Radial†	29661.3	29565.0	5524.3	ug/L	5524.3	ppb	04:35:56
2	Mg 279.077 IEC†	116.6	123.6	5615.7	ug/L	5615.7	ppb	04:36:16
2	Na 589.592 Radial†	34041.0	37605.1	10913	ug/L	10913	ppb	04:35:56
2	Sr 421.552†	75082.0	81273.2	538.63	ug/L	538.63	ppb	04:35:56
2	Sc 361.383	895426.9	895426.9	99.485	%			04:37:20
2	Y 371.029	743666.8	743666.8	97.537	%			04:37:20
2	Ag 328.068†	112091.3	112442.4	519.63	ug/L	519.63	ppb	04:37:25
2	As 188.979†	1143.7	1170.1	531.82	ug/L	531.82	ppb	04:37:45
2	B 249.677†	21703.3	22188.7	527.17	ug/L	527.17	ppb	04:37:25
2	Ba 233.527†	65879.1	66229.3	518.61	ug/L	518.61	ppb	04:37:25
2	Be 313.107†	1372903.7	1383865.4	516.87	ug/L	516.87	ppb	04:37:20
2	Cd 226.502†	44735.2	45150.1	523.94	ug/L	523.94	ppb	04:37:25
2	Co 228.616†	24811.1	25001.5	522.83	ug/L	522.83	ppb	04:37:25
2	Cr 267.716†	46035.4	46207.8	519.30	ug/L	519.30	ppb	04:37:25
2	Cu 324.752†	174263.8	169089.0	507.77	ug/L	507.77	ppb	04:37:25
2	Mn 257.610†	458828.9	460767.7	516.91	ug/L	516.91	ppb	04:37:20
2	Mo 202.031†	7110.4	7141.2	523.10	ug/L	523.10	ppb	04:37:45
2	Ni 231.604†	20491.9	20545.7	521.91	ug/L	521.91	ppb	04:37:25

2	P 214.914†	4537.5	4359.0	2546.1	ug/L	2546.1 ppb	04:37:45
2	Pb 220.353†	4179.7	4266.4	530.27	ug/L	530.27 ppb	04:37:45
2	S 181.975 Axial†	771.2	738.2	1080.4	ug/L	1080.4 ppb	04:37:45
2	Sb 206.836†	1529.6	1500.8	542.12	ug/L	542.12 ppb	04:37:45
2	Se 196.026†	765.0	789.7	539.06	ug/L	539.06 ppb	04:37:45
2	Si 251.611†	80576.6	80459.7	2574.7	ug/L	2574.7 ppb	04:37:25
2	Sn 189.927†	2931.1	2935.9	531.80	ug/L	531.80 ppb	04:37:45
2	Ti 334.940†	328415.2	331397.5	501.09	ug/L	501.09 ppb	04:37:25
2	Tl 190.801†	1592.3	1631.7	527.01	ug/L	527.01 ppb	04:37:45
2	U 409.014†	15594.7	18491.7	497.88	ug/L	497.88 ppb	04:37:25
2	V 292.402†	72007.8	73811.0	519.38	ug/L	519.38 ppb	04:37:25
2	Zn 213.857†	52294.2	52007.2	517.03	ug/L	517.03 ppb	04:37:25
2	SiO2†	80192.7	80056.4	5486.3	ug/L	5486.3 ppb	04:38:27
3	Sc Radial	3960.0	3960.0	93.1	%		04:36:42
3	Y RADIAL	4514.0	4514.0	96.21	%		04:36:22
3	Al 396.153Radial†	5446.0	5960.5	5373.1	ug/L	5373.1 ppb	04:36:22
3	Ca 317.933Radial†	2592.3	2768.9	5509.0	ug/L	5509.0 ppb	04:36:42
3	Fe 238.204 Radial†	402.4	422.0	5452.5	ug/L	5452.5 ppb	04:36:42
3	K 766.490 Radial†	30050.5	29721.2	5553.5	ug/L	5553.5 ppb	04:36:22
3	Mg 279.077 IEC†	118.2	124.2	5642.4	ug/L	5642.4 ppb	04:36:42
3	Na 589.592 Radial†	34675.9	37986.5	11024	ug/L	11024 ppb	04:36:22
3	Sr 421.552†	75878.6	81466.2	539.91	ug/L	539.91 ppb	04:36:22
3	Sc 361.383	905588.7	905588.7	100.61	%		04:37:51
3	Y 371.029	753033.3	753033.3	98.766	%		04:37:51
3	Ag 328.068†	111589.6	110679.5	511.52	ug/L	511.52 ppb	04:37:56
3	As 188.979†	1128.6	1142.2	519.18	ug/L	519.18 ppb	04:38:16
3	B 249.677†	21519.9	21761.6	517.00	ug/L	517.00 ppb	04:37:56
3	Ba 233.527†	65690.3	65298.7	511.33	ug/L	511.33 ppb	04:37:56
3	Be 313.107†	1387119.4	1382509.1	516.34	ug/L	516.34 ppb	04:37:51
3	Cd 226.502†	44560.7	44472.2	516.06	ug/L	516.06 ppb	04:37:56
3	Co 228.616†	24630.5	24542.1	513.22	ug/L	513.22 ppb	04:37:56
3	Cr 267.716†	45820.3	45474.8	511.08	ug/L	511.08 ppb	04:37:56
3	Cu 324.752†	173113.3	165980.0	498.44	ug/L	498.44 ppb	04:37:56
3	Mn 257.610†	462483.9	459225.2	515.18	ug/L	515.18 ppb	04:37:51
3	Mo 202.031†	7081.0	7031.7	515.09	ug/L	515.09 ppb	04:38:16
3	Ni 231.604†	20458.5	20281.3	515.20	ug/L	515.20 ppb	04:37:56
3	P 214.914†	4501.8	4272.3	2495.3	ug/L	2495.3 ppb	04:38:16
3	Pb 220.353†	4170.6	4210.2	523.28	ug/L	523.28 ppb	04:38:16
3	S 181.975 Axial†	759.2	717.5	1050.1	ug/L	1050.1 ppb	04:38:16
3	Sb 206.836†	1523.3	1477.3	533.66	ug/L	533.66 ppb	04:38:16
3	Se 196.026†	763.5	779.6	532.47	ug/L	532.47 ppb	04:38:16
3	Si 251.611†	80275.3	79251.4	2536.0	ug/L	2536.0 ppb	04:37:56
3	Sn 189.927†	2931.4	2903.1	525.87	ug/L	525.87 ppb	04:38:16
3	Ti 334.940†	326791.9	326079.7	493.05	ug/L	493.05 ppb	04:37:56
3	Tl 190.801†	1580.6	1602.2	517.51	ug/L	517.51 ppb	04:38:16
3	U 409.014†	15405.3	18127.5	488.06	ug/L	488.06 ppb	04:37:56
3	V 292.402†	71739.8	72732.5	511.77	ug/L	511.77 ppb	04:37:56
3	Zn 213.857†	51993.2	51118.3	508.16	ug/L	508.16 ppb	04:37:56
3	SiO2†	81229.3	80182.2	5495.2	ug/L	5495.2 ppb	04:38:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	901940.9	100.21	%	0.628				0.63%
Sc Radial	3930.6	92.4	%	0.66				0.72%
Y 371.029	749240.5	98.268	%	0.6467				0.66%
Y RADIAL	4460.5	95.07	%	1.175				1.24%
Ag 328.068†	111427.4	514.96	ug/L	4.190	514.96	ppb	4.190	0.81%
QC value within limits for Ag 328.068 Recovery = 102.99%								
Al 396.153Radial†	6020.1	5426.9	ug/L	75.57	5426.9	ppb	75.57	1.39%
QC value within limits for Al 396.153Radial Recovery = 108.54%								
As 188.979†	1157.4	526.03	ug/L	6.386	526.03	ppb	6.386	1.21%
QC value within limits for As 188.979 Recovery = 105.21%								
B 249.677†	21946.8	521.41	ug/L	5.220	521.41	ppb	5.220	1.00%
QC value within limits for B 249.677 Recovery = 104.28%								
Ba 233.527†	65712.9	514.57	ug/L	3.708	514.57	ppb	3.708	0.72%
QC value within limits for Ba 233.527 Recovery = 102.91%								
Be 313.107†	1376577.8	514.14	ug/L	4.277	514.14	ppb	4.277	0.83%
QC value within limits for Be 313.107 Recovery = 102.83%								
Ca 317.933Radial†	2772.0	5515.2	ug/L	13.85	5515.2	ppb	13.85	0.25%

```
   QC value greater than the upper limit for Ca 317.933Radial  Recovery = 110.30%
Cd 226.502†          44760.9      519.41 ug/L        4.068      519.41 ppb        4.068   0.78%
   QC value within limits for Cd 226.502  Recovery = 103.88%
Co 228.616†          24765.9      517.90 ug/L        4.808      517.90 ppb        4.808   0.93%
   QC value within limits for Co 228.616  Recovery = 103.58%
Cr 267.716†          45762.0      514.30 ug/L        4.391      514.30 ppb        4.391   0.85%
   QC value within limits for Cr 267.716  Recovery = 102.86%
Cu 324.752†         167257.9      502.27 ug/L        4.880      502.27 ppb        4.880   0.97%
   QC value within limits for Cu 324.752  Recovery = 100.45%
Fe 238.204 Radial†     421.4      5444.6 ug/L       26.91      5444.6 ppb        26.91   0.49%
   QC value within limits for Fe 238.204 Radial  Recovery = 108.89%
K 766.490 Radial†    29761.8      5561.1 ug/L       41.11      5561.1 ppb        41.11   0.74%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 111.22%
Mg 279.077 IEC†        123.8      5625.8 ug/L       14.51      5625.8 ppb        14.51   0.26%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 112.52%
Mn 257.610†         458439.8      514.30 ug/L        3.142      514.30 ppb        3.142   0.61%
   QC value within limits for Mn 257.610  Recovery = 102.86%
Mo 202.031†          7087.2       519.15 ug/L        4.006      519.15 ppb        4.006   0.77%
   QC value within limits for Mo 202.031  Recovery = 103.83%
Na 589.592 Radial†   38005.9       11029 ug/L       119.2        11029 ppb       119.2   1.08%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 110.29%
Ni 231.604†          20385.5      517.84 ug/L        3.577      517.84 ppb        3.577   0.69%
   QC value within limits for Ni 231.604  Recovery = 103.57%
P 214.914†            4310.1      2517.5 ug/L       26.03      2517.5 ppb        26.03   1.03%
   QC value within limits for P 214.914  Recovery = 100.70%
Pb 220.353†           4231.9      525.99 ug/L        3.746      525.99 ppb        3.746   0.71%
   QC value within limits for Pb 220.353  Recovery = 105.20%
S 181.975 Axial†       727.3      1064.5 ug/L       15.17      1064.5 ppb        15.17   1.43%
   QC value within limits for S 181.975 Axial  Recovery = 106.45%
Sb 206.836†           1488.7      537.76 ug/L        4.235      537.76 ppb        4.235   0.79%
   QC value within limits for Sb 206.836  Recovery = 107.55%
Se 196.026†            786.6      537.12 ug/L        4.041      537.12 ppb        4.041   0.75%
   QC value within limits for Se 196.026  Recovery = 107.42%
Si 251.611†          79769.4      2552.6 ug/L       19.92      2552.6 ppb        19.92   0.78%
   QC value within limits for Si 251.611  Recovery = 102.10%
Sn 189.927†           2912.2      527.52 ug/L        3.744      527.52 ppb        3.744   0.71%
   QC value within limits for Sn 189.927  Recovery = 105.50%
Sr 421.552†          81838.0      542.37 ug/L        5.414      542.37 ppb        5.414   1.00%
   QC value within limits for Sr 421.552  Recovery = 108.47%
Ti 334.940†         328307.6      496.42 ug/L        4.173      496.42 ppb        4.173   0.84%
   QC value within limits for Ti 334.940  Recovery = 99.28%
Tl 190.801†           1614.2      521.37 ug/L        4.991      521.37 ppb        4.991   0.96%
   QC value within limits for Tl 190.801  Recovery = 104.27%
U 409.014†           18273.2      491.99 ug/L        5.201      491.99 ppb        5.201   1.06%
   QC value within limits for U 409.014  Recovery = 98.40%
V 292.402†           73141.6      514.67 ug/L        4.117      514.67 ppb        4.117   0.80%
   QC value within limits for V 292.402  Recovery = 102.93%
Zn 213.857†          51515.0      512.12 ug/L        4.511      512.12 ppb        4.511   0.88%
   QC value within limits for Zn 213.857  Recovery = 102.42%
SiO2†                79930.0      5477.7 ug/L       22.97      5477.7 ppb        22.97   0.42%
   QC value within limits for SiO2  Recovery = 102.44%
QC Failed.  Continue with analysis.
```

Sequence No.: 94
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/24/2010 04:40:41
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3954.3	3954.3	93.0	%			04:42:54
1	Y RADIAL	4445.5	4445.5	94.75	%			04:42:34
1	Al 396.153Radial†	-95.7	7.8	7.0770	ug/L	7.0770	ppb	04:42:34
1	Ca 317.933Radial†	18.8	4.7	9.3747	ug/L	9.3747	ppb	04:42:54
1	Fe 238.204 Radial†	11.6	2.3	29.593	ug/L	29.593	ppb	04:42:54
1	K 766.490 Radial†	2642.7	285.9	53.508	ug/L	53.508	ppb	04:42:34
1	Mg 279.077 IEC†	1.7	-0.9	-41.259	ug/L	-41.259	ppb	04:42:54
1	Na 589.592 Radial†	-825.4	-147.5	-42.812	ug/L	-42.812	ppb	04:42:34
1	Sr 421.552†	114.7	86.5	0.5736	ug/L	0.5736	ppb	04:42:34
1	Sc 361.383	893015.0	893015.0	99.217	%			04:43:51
1	Y 371.029	752889.6	752889.6	98.747	%			04:43:51
1	Ag 328.068†	242.6	15.2	0.0775	ug/L	0.0775	ppb	04:43:56
1	As 188.979†	-18.2	2.2	0.9764	ug/L	0.9764	ppb	04:44:16
1	B 249.677†	141.2	515.3	12.294	ug/L	12.294	ppb	04:44:16
1	Ba 233.527†	-3.5	5.6	0.0434	ug/L	0.0434	ppb	04:44:16
1	Be 313.107†	-3769.7	53.8	0.0195	ug/L	0.0195	ppb	04:43:56
1	Cd 226.502†	-181.4	0.5	0.0023	ug/L	0.0023	ppb	04:44:16
1	Co 228.616†	-68.1	-6.8	-0.1401	ug/L	-0.1401	ppb	04:44:16
1	Cr 267.716†	66.1	0.6	0.0094	ug/L	0.0094	ppb	04:44:16
1	Cu 324.752†	5974.1	-55.8	-0.1657	ug/L	-0.1657	ppb	04:43:56
1	Mn 257.610†	476.4	43.4	0.0532	ug/L	0.0532	ppb	04:44:16
1	Mo 202.031†	11.7	5.8	0.4238	ug/L	0.4238	ppb	04:44:16
1	Ni 231.604†	50.9	-1.0	-0.0258	ug/L	-0.0258	ppb	04:44:16
1	P 214.914†	193.0	-7.6	-4.5611	ug/L	-4.5611	ppb	04:44:16
1	Pb 220.353†	-54.8	9.8	1.2107	ug/L	1.2107	ppb	04:44:16
1	S 181.975 Axial†	44.9	8.2	12.012	ug/L	12.012	ppb	04:44:16
1	Sb 206.836†	42.1	5.8	2.0289	ug/L	2.0289	ppb	04:44:16
1	Se 196.026†	-31.4	-10.9	-7.0937	ug/L	-7.0937	ppb	04:44:16
1	Si 251.611†	580.4	50.8	1.6245	ug/L	1.6245	ppb	04:44:16
1	Sn 189.927†	15.8	5.5	0.9897	ug/L	0.9897	ppb	04:44:16
1	Ti 334.940†	-1426.3	-155.8	-0.2307	ug/L	-0.2307	ppb	04:43:56
1	Tl 190.801†	-24.3	6.7	2.1427	ug/L	2.1427	ppb	04:44:16
1	U 409.014†	-2816.3	-22.3	-0.6064	ug/L	-0.6064	ppb	04:43:51
1	V 292.402†	-1488.9	-70.2	-0.4872	ug/L	-0.4872	ppb	04:43:56
1	Zn 213.857†	588.2	35.1	0.3486	ug/L	0.3486	ppb	04:44:16
1	SiO2†	622.8	76.2	5.2274	ug/L	5.2274	ppb	04:45:22
2	Sc Radial	3954.3	3954.3	93.0	%			04:43:19
2	Y RADIAL	4486.4	4486.4	95.62	%			04:42:59
2	Al 396.153Radial†	-117.1	-15.2	-13.812	ug/L	-13.812	ppb	04:42:59
2	Ca 317.933Radial†	19.3	5.2	10.426	ug/L	10.426	ppb	04:43:19
2	Fe 238.204 Radial†	12.5	3.3	42.641	ug/L	42.641	ppb	04:43:19
2	K 766.490 Radial†	2803.4	458.8	85.853	ug/L	85.853	ppb	04:42:59
2	Mg 279.077 IEC†	-0.9	-3.7	-167.37	ug/L	-167.37	ppb	04:43:19
2	Na 589.592 Radial†	-858.4	-183.0	-53.115	ug/L	-53.115	ppb	04:42:59
2	Sr 421.552†	33.8	-0.4	-0.0029	ug/L	-0.0029	ppb	04:42:59
2	Sc 361.383	905940.3	905940.3	100.65	%			04:44:21
2	Y 371.029	763989.2	763989.2	100.20	%			04:44:21
2	Ag 328.068†	260.3	29.3	0.1481	ug/L	0.1481	ppb	04:44:26
2	As 188.979†	-22.7	-2.0	-0.8999	ug/L	-0.8999	ppb	04:44:46
2	B 249.677†	124.1	496.2	11.836	ug/L	11.836	ppb	04:44:46
2	Ba 233.527†	-4.0	5.2	0.0415	ug/L	0.0415	ppb	04:44:46
2	Be 313.107†	-3716.8	160.5	0.0589	ug/L	0.0589	ppb	04:44:26
2	Cd 226.502†	-164.1	20.3	0.2309	ug/L	0.2309	ppb	04:44:46
2	Co 228.616†	-71.1	-8.7	-0.1791	ug/L	-0.1791	ppb	04:44:46
2	Cr 267.716†	92.2	25.6	0.2913	ug/L	0.2913	ppb	04:44:46
2	Cu 324.752†	5999.7	-116.4	-0.3464	ug/L	-0.3464	ppb	04:44:26
2	Mn 257.610†	460.8	21.0	0.0346	ug/L	0.0346	ppb	04:44:46
2	Mo 202.031†	21.2	15.0	1.1007	ug/L	1.1007	ppb	04:44:46
2	Ni 231.604†	52.0	-0.7	-0.0173	ug/L	-0.0173	ppb	04:44:46

2	P 214.914†	208.8	5.4	3.3386 ug/L	3.3386 ppb	04:44:46
2	Pb 220.353†	-55.0	10.4	1.2865 ug/L	1.2865 ppb	04:44:46
2	S 181.975 Axial†	43.5	6.1	9.0035 ug/L	9.0035 ppb	04:44:46
2	Sb 206.836†	29.3	-7.6	-2.6148 ug/L	-2.6148 ppb	04:44:46
2	Se 196.026†	-19.7	1.2	0.9042 ug/L	0.9042 ppb	04:44:46
2	Si 251.611†	572.0	34.1	1.0807 ug/L	1.0807 ppb	04:44:46
2	Sn 189.927†	11.9	1.4	0.2577 ug/L	0.2577 ppb	04:44:46
2	Ti 334.940†	-1552.1	-260.2	-0.3779 ug/L	-0.3779 ppb	04:44:26
2	Tl 190.801†	-27.3	4.1	1.3197 ug/L	1.3197 ppb	04:44:46
2	U 409.014†	-2891.6	-56.6	-1.5343 ug/L	-1.5343 ppb	04:44:21
2	V 292.402†	-1464.0	-24.0	-0.1635 ug/L	-0.1635 ppb	04:44:26
2	Zn 213.857†	576.1	14.6	0.1409 ug/L	0.1409 ppb	04:44:46
2	SiO2†	579.7	24.5	1.6515 ug/L	1.6515 ppb	04:45:27
3	Sc Radial	3971.2	3971.2	93.4 %		04:43:44
3	Y RADIAL	4574.7	4574.7	97.50 %		04:43:24
3	Al 396.153Radial†	-111.1	-8.2	-7.4625 ug/L	-7.4625 ppb	04:43:24
3	Ca 317.933Radial†	15.9	1.6	3.2134 ug/L	3.2134 ppb	04:43:44
3	Fe 238.204 Radial†	11.9	2.6	33.518 ug/L	33.518 ppb	04:43:44
3	K 766.490 Radial†	2706.8	342.4	64.083 ug/L	64.083 ppb	04:43:24
3	Mg 279.077 IEC†	1.8	-0.8	-36.254 ug/L	-36.254 ppb	04:43:44
3	Na 589.592 Radial†	-839.0	-158.3	-45.952 ug/L	-45.952 ppb	04:43:24
3	Sr 421.552†	40.6	6.7	0.0442 ug/L	0.0442 ppb	04:43:24
3	Sc 361.383	900646.4	900646.4	100.06 %		04:44:51
3	Y 371.029	759933.8	759933.8	99.671 %		04:44:51
3	Ag 328.068†	228.7	-0.8	0.0079 ug/L	0.0079 ppb	04:44:56
3	As 188.979†	-20.8	-0.3	-0.1139 ug/L	-0.1139 ppb	04:45:16
3	B 249.677†	101.8	474.7	11.323 ug/L	11.323 ppb	04:45:16
3	Ba 233.527†	9.3	18.5	0.1452 ug/L	0.1452 ppb	04:45:16
3	Be 313.107†	-3698.2	157.4	0.0580 ug/L	0.0580 ppb	04:44:56
3	Cd 226.502†	-184.1	-0.6	-0.0109 ug/L	-0.0109 ppb	04:45:16
3	Co 228.616†	-62.0	-0.1	-0.0005 ug/L	-0.0005 ppb	04:45:16
3	Cr 267.716†	96.1	30.1	0.3414 ug/L	0.3414 ppb	04:45:16
3	Cu 324.752†	5916.0	-164.9	-0.4925 ug/L	-0.4925 ppb	04:44:56
3	Mn 257.610†	471.5	34.4	0.0434 ug/L	0.0434 ppb	04:45:16
3	Mo 202.031†	12.5	6.4	0.4736 ug/L	0.4736 ppb	04:45:16
3	Ni 231.604†	64.8	12.5	0.3168 ug/L	0.3168 ppb	04:45:16
3	P 214.914†	209.7	7.6	4.6621 ug/L	4.6621 ppb	04:45:16
3	Pb 220.353†	-50.6	14.4	1.7823 ug/L	1.7823 ppb	04:45:16
3	S 181.975 Axial†	44.4	7.4	10.784 ug/L	10.784 ppb	04:45:16
3	Sb 206.836†	40.5	3.8	1.3433 ug/L	1.3433 ppb	04:45:16
3	Se 196.026†	-23.1	-2.4	-1.4624 ug/L	-1.4624 ppb	04:45:16
3	Si 251.611†	598.4	63.8	2.0420 ug/L	2.0420 ppb	04:45:16
3	Sn 189.927†	13.1	2.7	0.4820 ug/L	0.4820 ppb	04:45:16
3	Ti 334.940†	-1486.8	-204.1	-0.3045 ug/L	-0.3045 ppb	04:44:56
3	Tl 190.801†	-27.3	3.9	1.2432 ug/L	1.2432 ppb	04:45:16
3	U 409.014†	-2889.1	-70.9	-1.9216 ug/L	-1.9216 ppb	04:44:51
3	V 292.402†	-1439.9	-8.6	-0.0620 ug/L	-0.0620 ppb	04:44:56
3	Zn 213.857†	590.7	32.6	0.3211 ug/L	0.3211 ppb	04:45:16
3	SiO2†	579.3	27.5	1.8735 ug/L	1.8735 ppb	04:45:32

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	899867.2	99.978	%	0.7219				0.72%
Sc Radial	3959.9	93.1	%	0.23				0.25%
Y 371.029	758937.5	99.540	%	0.7366				0.74%
Y RADIAL	4502.2	95.95	%	1.407				1.47%
Ag 328.068†	14.6	0.0778	ug/L	0.07013	0.0778	ppb	0.07013	90.12%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-5.2	-4.7326	ug/L	10.70887	-4.7326	ppb	10.70887	226.28%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.0	-0.0125	ug/L	0.94227	-0.0125	ppb	0.94227	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	495.4	11.817	ug/L	0.4858	11.817	ppb	0.4858	4.11%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	9.7	0.0767	ug/L	0.05932	0.0767	ppb	0.05932	77.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	123.9	0.0455	ug/L	0.02249	0.0455	ppb	0.02249	49.46%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.9	7.6715	ug/L	3.89646	7.6715	ppb	3.89646	50.79%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                 6.7      0.0741 ug/L       0.13596      0.0741 ppb        0.13596 183.55%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                -5.2     -0.1066 ug/L       0.09390     -0.1066 ppb        0.09390  88.11%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                18.8      0.2140 ug/L       0.17901      0.2140 ppb        0.17901  83.63%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -112.4     -0.3349 ug/L       0.16366     -0.3349 ppb        0.16366  48.88%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          2.7      35.251 ug/L        6.6940      35.251 ppb         6.6940  18.99%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         362.4      67.815 ug/L       16.4926      67.815 ppb        16.4926  24.32%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -1.8     -81.627 ug/L       74.2965     -81.627 ppb        74.2965  91.02%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                32.9      0.0437 ug/L       0.00933      0.0437 ppb        0.00933  21.35%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 9.1      0.6660 ug/L       0.37726      0.6660 ppb        0.37726  56.64%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -163.0     -47.293 ug/L        5.2807     -47.293 ppb         5.2807  11.17%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 3.6      0.0912 ug/L       0.19539      0.0912 ppb        0.19539 214.19%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  1.8      1.1465 ug/L       4.98705      1.1465 ppb        4.98705 434.97%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                11.5      1.4265 ug/L       0.31043      1.4265 ppb        0.31043  21.76%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            7.2      10.600 ug/L        1.5125      10.600 ppb         1.5125  14.27%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 0.7      0.2525 ug/L       2.50669      0.2525 ppb        2.50669 992.88%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -4.0     -2.5506 ug/L       4.10853     -2.5506 ppb        4.10853 161.08%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                49.6      1.5824 ug/L       0.48206      1.5824 ppb        0.48206  30.46%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 3.2      0.5765 ug/L       0.37503      0.5765 ppb        0.37503  65.05%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                30.9      0.2049 ug/L       0.32011      0.2049 ppb        0.32011 156.21%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -206.7     -0.3044 ug/L       0.07358     -0.3044 ppb        0.07358  24.17%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 4.9      1.5685 ug/L       0.49873      1.5685 ppb        0.49873  31.80%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                -49.9     -1.3541 ug/L       0.67585     -1.3541 ppb        0.67585  49.91%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                -34.3     -0.2376 ug/L       0.22209     -0.2376 ppb        0.22209  93.49%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                27.5      0.2702 ug/L       0.11282      0.2702 ppb        0.11282  41.76%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      42.7      2.9175 ug/L       2.00354      2.9175 ppb        2.00354  68.67%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 104
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/24/2010 05:51:19
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	3844.7	3844.7	90.4	%			05:53:31
1	Y RADIAL	4356.6	4356.6	92.85	%			05:53:11
1	Al 396.153Radial†	5271.9	5943.2	5357.8	ug/L	5357.8	ppb	05:53:11
1	Ca 317.933Radial†	2441.1	2685.2	5342.5	ug/L	5342.5	ppb	05:53:31
1	Fe 238.204 Radial†	372.7	402.2	5196.7	ug/L	5196.7	ppb	05:53:31
1	K 766.490 Radial†	32610.6	33521.7	6264.9	ug/L	6264.9	ppb	05:53:11
1	Mg 279.077 IEC†	109.2	118.1	5366.9	ug/L	5366.9	ppb	05:53:31
1	Na 589.592 Radial†	31190.6	35247.8	10229	ug/L	10229	ppb	05:53:11
1	Sr 421.552†	70510.2	77971.6	516.75	ug/L	516.75	ppb	05:53:11
1	Sc 361.383	886306.6	886306.6	98.472	%			05:54:29
1	Y 371.029	737464.2	737464.2	96.724	%			05:54:29
1	Ag 328.068†	108790.1	110249.3	509.46	ug/L	509.46	ppb	05:54:34
1	As 188.979†	1102.8	1140.5	518.34	ug/L	518.34	ppb	05:54:54
1	B 249.677†	20140.4	20825.9	494.72	ug/L	494.72	ppb	05:54:34
1	Ba 233.527†	63892.2	64893.0	508.14	ug/L	508.14	ppb	05:54:34
1	Be 313.107†	1301968.5	1326030.0	495.29	ug/L	495.29	ppb	05:54:29
1	Cd 226.502†	43413.0	44270.2	513.74	ug/L	513.74	ppb	05:54:34
1	Co 228.616†	23973.1	24407.2	510.39	ug/L	510.39	ppb	05:54:34
1	Cr 267.716†	44595.0	45221.1	508.20	ug/L	508.20	ppb	05:54:34
1	Cu 324.752†	169215.8	165765.2	497.78	ug/L	497.78	ppb	05:54:34
1	Mn 257.610†	433755.3	440050.9	493.67	ug/L	493.67	ppb	05:54:29
1	Mo 202.031†	6837.4	6937.4	508.17	ug/L	508.17	ppb	05:54:54
1	Ni 231.604†	19949.5	20206.8	513.31	ug/L	513.31	ppb	05:54:34
1	P 214.914†	4356.1	4221.6	2464.8	ug/L	2464.8	ppb	05:54:54
1	Pb 220.353†	4004.0	4131.1	513.49	ug/L	513.49	ppb	05:54:54
1	S 181.975 Axial†	747.5	722.1	1056.8	ug/L	1056.8	ppb	05:54:54
1	Sb 206.836†	1489.5	1475.9	532.93	ug/L	532.93	ppb	05:54:54
1	Se 196.026†	747.3	779.6	531.67	ug/L	531.67	ppb	05:54:54
1	Si 251.611†	78378.8	79061.2	2530.0	ug/L	2530.0	ppb	05:54:34
1	Sn 189.927†	2830.2	2863.7	518.72	ug/L	518.72	ppb	05:54:54
1	Ti 334.940†	318066.4	324285.0	490.34	ug/L	490.34	ppb	05:54:34
1	Tl 190.801†	1524.2	1579.1	509.99	ug/L	509.99	ppb	05:54:54
1	U 409.014†	14822.2	17868.5	481.09	ug/L	481.09	ppb	05:54:34
1	V 292.402†	69741.9	72254.8	508.38	ug/L	508.38	ppb	05:54:34
1	Zn 213.857†	50762.4	50992.6	506.95	ug/L	506.95	ppb	05:54:34
1	SiO2†	78520.6	79187.8	5427.1	ug/L	5427.1	ppb	05:56:01
2	Sc Radial	3915.3	3915.3	92.0	%			05:53:56
2	Y RADIAL	4325.7	4325.7	92.19	%			05:53:36
2	Al 396.153Radial†	5224.2	5786.3	5216.1	ug/L	5216.1	ppb	05:53:36
2	Ca 317.933Radial†	2472.8	2670.9	5314.1	ug/L	5314.1	ppb	05:53:56
2	Fe 238.204 Radial†	372.2	394.2	5094.1	ug/L	5094.1	ppb	05:53:56
2	K 766.490 Radial†	31871.7	32068.5	5993.2	ug/L	5993.2	ppb	05:53:36
2	Mg 279.077 IEC†	109.2	115.9	5265.7	ug/L	5265.7	ppb	05:53:56
2	Na 589.592 Radial†	30615.9	34001.3	9867.3	ug/L	9867.3	ppb	05:53:36
2	Sr 421.552†	69894.8	75896.5	502.99	ug/L	502.99	ppb	05:53:36
2	Sc 361.383	899704.5	899704.5	99.960	%			05:55:00
2	Y 371.029	747981.1	747981.1	98.103	%			05:55:00
2	Ag 328.068†	109650.3	109464.6	505.81	ug/L	505.81	ppb	05:55:05
2	As 188.979†	1088.6	1109.6	504.39	ug/L	504.39	ppb	05:55:25
2	B 249.677†	20402.6	20783.7	493.74	ug/L	493.74	ppb	05:55:05
2	Ba 233.527†	64526.9	64561.7	505.54	ug/L	505.54	ppb	05:55:05
2	Be 313.107†	1318842.5	1323221.5	494.24	ug/L	494.24	ppb	05:55:00
2	Cd 226.502†	43802.1	44002.9	510.64	ug/L	510.64	ppb	05:55:05
2	Co 228.616†	24217.5	24289.1	507.91	ug/L	507.91	ppb	05:55:05
2	Cr 267.716†	44895.4	44847.3	504.00	ug/L	504.00	ppb	05:55:05
2	Cu 324.752†	170819.1	164810.1	494.91	ug/L	494.91	ppb	05:55:05
2	Mn 257.610†	441023.5	440762.5	494.46	ug/L	494.46	ppb	05:55:00
2	Mo 202.031†	6824.0	6820.6	499.61	ug/L	499.61	ppb	05:55:25
2	Ni 231.604†	20017.2	19972.9	507.36	ug/L	507.36	ppb	05:55:05

2	P 214.914†	4327.2	4126.9	2407.8	ug/L	2407.8	ppb	05:55:25
2	Pb 220.353†	3998.1	4064.7	505.22	ug/L	505.22	ppb	05:55:25
2	S 181.975 Axial†	740.7	704.0	1030.3	ug/L	1030.3	ppb	05:55:25
2	Sb 206.836†	1493.1	1457.0	526.01	ug/L	526.01	ppb	05:55:25
2	Se 196.026†	731.7	752.6	513.57	ug/L	513.57	ppb	05:55:25
2	Si 251.611†	79170.1	78667.5	2517.5	ug/L	2517.5	ppb	05:55:05
2	Sn 189.927†	2821.7	2812.4	509.44	ug/L	509.44	ppb	05:55:25
2	Ti 334.940†	320811.5	322221.2	487.23	ug/L	487.23	ppb	05:55:05
2	Tl 190.801†	1518.5	1550.3	500.75	ug/L	500.75	ppb	05:55:25
2	U 409.014†	14893.9	17716.0	477.00	ug/L	477.00	ppb	05:55:05
2	V 292.402†	70213.1	71671.6	504.22	ug/L	504.22	ppb	05:55:05
2	Zn 213.857†	51347.7	50810.4	505.18	ug/L	505.18	ppb	05:55:05
2	SiO2†	77915.8	77395.4	5304.1	ug/L	5304.1	ppb	05:56:07
3	Sc Radial	3871.3	3871.3	91.0	%			05:54:22
3	Y RADIAL	4434.2	4434.2	94.50	%			05:54:01
3	Al 396.153Radial†	5321.9	5958.1	5371.6	ug/L	5371.6	ppb	05:54:01
3	Ca 317.933Radial†	2449.1	2675.5	5323.1	ug/L	5323.1	ppb	05:54:22
3	Fe 238.204 Radial†	363.8	389.5	5032.7	ug/L	5032.7	ppb	05:54:22
3	K 766.490 Radial†	32174.1	32794.3	6128.9	ug/L	6128.9	ppb	05:54:01
3	Mg 279.077 IEC†	108.8	116.8	5308.1	ug/L	5308.1	ppb	05:54:22
3	Na 589.592 Radial†	31353.4	35189.6	10212	ug/L	10212	ppb	05:54:01
3	Sr 421.552†	71282.2	78284.1	518.82	ug/L	518.82	ppb	05:54:01
3	Sc 361.383	900124.7	900124.7	100.01	%			05:55:31
3	Y 371.029	748656.0	748656.0	98.192	%			05:55:31
3	Ag 328.068†	107186.0	106949.3	494.21	ug/L	494.21	ppb	05:55:36
3	As 188.979†	1114.1	1134.6	515.53	ug/L	515.53	ppb	05:55:56
3	B 249.677†	19824.3	20195.9	479.75	ug/L	479.75	ppb	05:55:36
3	Ba 233.527†	63183.7	63188.6	494.79	ug/L	494.79	ppb	05:55:36
3	Be 313.107†	1321148.0	1324910.9	494.84	ug/L	494.84	ppb	05:55:31
3	Cd 226.502†	42842.0	43022.4	499.26	ug/L	499.26	ppb	05:55:36
3	Co 228.616†	23695.9	23756.2	496.80	ug/L	496.80	ppb	05:55:36
3	Cr 267.716†	44155.8	44086.8	495.45	ug/L	495.45	ppb	05:55:36
3	Cu 324.752†	166673.3	160584.8	482.23	ug/L	482.23	ppb	05:55:36
3	Mn 257.610†	440286.9	439820.0	493.40	ug/L	493.40	ppb	05:55:31
3	Mo 202.031†	6862.1	6855.6	502.16	ug/L	502.16	ppb	05:55:56
3	Ni 231.604†	19671.5	19617.8	498.34	ug/L	498.34	ppb	05:55:36
3	P 214.914†	4394.1	4191.8	2449.9	ug/L	2449.9	ppb	05:55:56
3	Pb 220.353†	4040.4	4105.2	510.29	ug/L	510.29	ppb	05:55:56
3	S 181.975 Axial†	756.3	719.2	1052.6	ug/L	1052.6	ppb	05:55:56
3	Sb 206.836†	1495.4	1458.6	526.71	ug/L	526.71	ppb	05:55:56
3	Se 196.026†	731.1	751.8	512.80	ug/L	512.80	ppb	05:55:56
3	Si 251.611†	77203.4	76664.0	2453.2	ug/L	2453.2	ppb	05:55:36
3	Sn 189.927†	2849.9	2839.3	514.32	ug/L	514.32	ppb	05:55:56
3	Ti 334.940†	313647.3	314907.7	476.17	ug/L	476.17	ppb	05:55:36
3	Tl 190.801†	1524.7	1555.8	502.49	ug/L	502.49	ppb	05:55:56
3	U 409.014†	14516.0	17331.2	466.62	ug/L	466.62	ppb	05:55:36
3	V 292.402†	68844.5	70270.2	494.53	ug/L	494.53	ppb	05:55:36
3	Zn 213.857†	50022.4	49461.3	491.72	ug/L	491.72	ppb	05:55:36
3	SiO2†	78397.1	77840.2	5334.6	ug/L	5334.6	ppb	05:56:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	895378.6	99.480	%	0.8732				0.88%
Sc Radial	3877.1	91.1	%	0.84				0.92%
Y 371.029	744700.4	97.673	%	0.8231				0.84%
Y RADIAL	4372.2	93.18	%	1.191				1.28%
Ag 328.068†	108887.8	503.16	ug/L	7.963	503.16	ppb	7.963	1.58%
QC value within limits for Ag 328.068 Recovery = 100.63%								
Al 396.153Radial†	5895.9	5315.2	ug/L	86.09	5315.2	ppb	86.09	1.62%
QC value within limits for Al 396.153Radial Recovery = 106.30%								
As 188.979†	1128.2	512.76	ug/L	7.376	512.76	ppb	7.376	1.44%
QC value within limits for As 188.979 Recovery = 102.55%								
B 249.677†	20601.8	489.40	ug/L	8.373	489.40	ppb	8.373	1.71%
QC value within limits for B 249.677 Recovery = 97.88%								
Ba 233.527†	64214.4	502.83	ug/L	7.077	502.83	ppb	7.077	1.41%
QC value within limits for Ba 233.527 Recovery = 100.57%								
Be 313.107†	1324720.8	494.79	ug/L	0.529	494.79	ppb	0.529	0.11%
QC value within limits for Be 313.107 Recovery = 98.96%								
Ca 317.933Radial†	2677.2	5326.6	ug/L	14.51	5326.6	ppb	14.51	0.27%

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   QC value within limits for Ca 317.933Radial  Recovery = 106.53%
Cd 226.502†          43765.2      507.88 ug/L        7.624      507.88 ppb        7.624   1.50%
   QC value within limits for Cd 226.502  Recovery = 101.58%
Co 228.616†          24150.8      505.04 ug/L        7.239      505.04 ppb        7.239   1.43%
   QC value within limits for Co 228.616  Recovery = 101.01%
Cr 267.716†          44718.4      502.55 ug/L        6.498      502.55 ppb        6.498   1.29%
   QC value within limits for Cr 267.716  Recovery = 100.51%
Cu 324.752†         163720.0      491.64 ug/L        8.278      491.64 ppb        8.278   1.68%
   QC value within limits for Cu 324.752  Recovery = 98.33%
Fe 238.204 Radial†     395.3      5107.8 ug/L        82.89      5107.8 ppb        82.89   1.62%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.16%
K 766.490 Radial†    32794.8      6129.0 ug/L       135.86      6129.0 ppb       135.86   2.22%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 122.58%
Mg 279.077 IEC†        116.9      5313.6 ug/L        50.81      5313.6 ppb        50.81   0.96%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.27%
Mn 257.610†         440211.1      493.84 ug/L        0.553      493.84 ppb        0.553   0.11%
   QC value within limits for Mn 257.610  Recovery = 98.77%
Mo 202.031†          6871.2      503.31 ug/L        4.393      503.31 ppb        4.393   0.87%
   QC value within limits for Mo 202.031  Recovery = 100.66%
Na 589.592 Radial†   34812.9       10103 ug/L        204.2       10103 ppb        204.2   2.02%
   QC value within limits for Na 589.592 Radial  Recovery = 101.03%
Ni 231.604†          19932.5      506.34 ug/L        7.534      506.34 ppb        7.534   1.49%
   QC value within limits for Ni 231.604  Recovery = 101.27%
P 214.914†            4180.1      2440.8 ug/L        29.54      2440.8 ppb        29.54   1.21%
   QC value within limits for P 214.914  Recovery = 97.63%
Pb 220.353†           4100.3      509.66 ug/L        4.171      509.66 ppb        4.171   0.82%
   QC value within limits for Pb 220.353  Recovery = 101.93%
S 181.975 Axial†       715.1      1046.6 ug/L        14.25      1046.6 ppb        14.25   1.36%
   QC value within limits for S 181.975 Axial  Recovery = 104.66%
Sb 206.836†           1463.8      528.55 ug/L        3.810      528.55 ppb        3.810   0.72%
   QC value within limits for Sb 206.836  Recovery = 105.71%
Se 196.026†            761.3      519.35 ug/L       10.683      519.35 ppb       10.683   2.06%
   QC value within limits for Se 196.026  Recovery = 103.87%
Si 251.611†          78130.9      2500.2 ug/L        41.22      2500.2 ppb        41.22   1.65%
   QC value within limits for Si 251.611  Recovery = 100.01%
Sn 189.927†           2838.5      514.16 ug/L        4.644      514.16 ppb        4.644   0.90%
   QC value within limits for Sn 189.927  Recovery = 102.83%
Sr 421.552†          77384.1      512.85 ug/L        8.601      512.85 ppb        8.601   1.68%
   QC value within limits for Sr 421.552  Recovery = 102.57%
Ti 334.940†         320471.3      484.58 ug/L        7.446      484.58 ppb        7.446   1.54%
   QC value within limits for Ti 334.940  Recovery = 96.92%
Tl 190.801†           1561.7      504.41 ug/L        4.911      504.41 ppb        4.911   0.97%
   QC value within limits for Tl 190.801  Recovery = 100.88%
U 409.014†           17638.6      474.90 ug/L        7.458      474.90 ppb        7.458   1.57%
   QC value within limits for U 409.014  Recovery = 94.98%
V 292.402†           71398.9      502.37 ug/L        7.106      502.37 ppb        7.106   1.41%
   QC value within limits for V 292.402  Recovery = 100.47%
Zn 213.857†          50421.4      501.28 ug/L        8.326      501.28 ppb        8.326   1.66%
   QC value within limits for Zn 213.857  Recovery = 100.26%
SiO2†                78141.1      5355.3 ug/L        64.01      5355.3 ppb        64.01   1.20%
   QC value within limits for SiO2  Recovery = 100.15%
QC Failed.  Continue with analysis.
```

Sequence No.: 105
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/24/2010 05:58:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	3868.0	3868.0	90.9	%			06:00:35
1	Y RADIAL	4419.5	4419.5	94.19	%			06:00:15
1	Al 396.153Radial†	-130.7	-32.9	-29.812	ug/L	-29.812	ppb	06:00:15
1	Ca 317.933Radial†	16.1	2.2	4.3864	ug/L	4.3864	ppb	06:00:35
1	Fe 238.204 Radial†	8.7	-0.6	-7.3506	ug/L	-7.3506	ppb	06:00:35
1	K 766.490 Radial†	4577.7	2477.1	463.44	ug/L	463.44	ppb	06:00:15
1	Mg 279.077 IEC†	2.2	-0.4	-17.373	ug/L	-17.373	ppb	06:00:35
1	Na 589.592 Radial†	-680.8	-8.3	-2.4174	ug/L	-2.4174	ppb	06:00:15
1	Sr 421.552†	106.1	79.9	0.5292	ug/L	0.5292	ppb	06:00:15
1	Sc 361.383	898968.5	898968.5	99.878	%			06:01:32
1	Y 371.029	759931.2	759931.2	99.671	%			06:01:32
1	Ag 328.068†	364.8	135.9	0.6264	ug/L	0.6264	ppb	06:01:32
1	As 188.979†	-25.0	-4.5	-2.0147	ug/L	-2.0147	ppb	06:01:52
1	B 249.677†	-291.7	80.8	1.9309	ug/L	1.9309	ppb	06:01:52
1	Ba 233.527†	12.8	21.9	0.1693	ug/L	0.1693	ppb	06:01:52
1	Be 313.107†	-3707.6	141.1	0.0517	ug/L	0.0517	ppb	06:01:32
1	Cd 226.502†	-190.7	-7.6	-0.0893	ug/L	-0.0893	ppb	06:01:52
1	Co 228.616†	-64.9	-3.0	-0.0620	ug/L	-0.0620	ppb	06:01:52
1	Cr 267.716†	79.2	13.3	0.1507	ug/L	0.1507	ppb	06:01:52
1	Cu 324.752†	6060.1	-9.7	-0.0244	ug/L	-0.0244	ppb	06:01:32
1	Mn 257.610†	499.7	63.5	0.0711	ug/L	0.0711	ppb	06:01:52
1	Mo 202.031†	8.9	2.8	0.2076	ug/L	0.2076	ppb	06:01:52
1	Ni 231.604†	85.3	33.1	0.8419	ug/L	0.8419	ppb	06:01:52
1	P 214.914†	216.1	14.3	8.7034	ug/L	8.7034	ppb	06:01:52
1	Pb 220.353†	-59.4	5.6	0.6871	ug/L	0.6871	ppb	06:01:52
1	S 181.975 Axial†	45.0	8.0	11.690	ug/L	11.690	ppb	06:01:52
1	Sb 206.836†	40.3	3.7	1.2864	ug/L	1.2864	ppb	06:01:52
1	Se 196.026†	-25.6	-5.0	-3.2984	ug/L	-3.2984	ppb	06:01:52
1	Si 251.611†	641.3	107.9	3.4584	ug/L	3.4584	ppb	06:01:52
1	Sn 189.927†	13.3	2.9	0.5322	ug/L	0.5322	ppb	06:01:52
1	Ti 334.940†	-1538.5	-258.6	-0.3852	ug/L	-0.3852	ppb	06:01:32
1	Tl 190.801†	-29.4	1.7	0.5601	ug/L	0.5601	ppb	06:01:52
1	U 409.014†	-3148.3	-335.9	-9.0751	ug/L	-9.0751	ppb	06:01:32
1	V 292.402†	-1533.2	-104.6	-0.7398	ug/L	-0.7398	ppb	06:01:32
1	Zn 213.857†	565.1	8.1	0.0772	ug/L	0.0772	ppb	06:01:52
1	SiO2†	671.2	120.6	8.2777	ug/L	8.2777	ppb	06:02:48
2	Sc Radial	3889.2	3889.2	91.4	%			06:01:00
2	Y RADIAL	4465.7	4465.7	95.18	%			06:00:40
2	Al 396.153Radial†	-117.4	-17.7	-16.046	ug/L	-16.046	ppb	06:00:40
2	Ca 317.933Radial†	17.1	3.3	6.5037	ug/L	6.5037	ppb	06:01:00
2	Fe 238.204 Radial†	10.9	1.8	22.938	ug/L	22.938	ppb	06:01:00
2	K 766.490 Radial†	4401.4	2256.9	422.24	ug/L	422.24	ppb	06:00:40
2	Mg 279.077 IEC†	4.0	1.7	75.222	ug/L	75.222	ppb	06:01:00
2	Na 589.592 Radial†	-689.8	-14.1	-4.0852	ug/L	-4.0852	ppb	06:00:40
2	Sr 421.552†	63.5	32.7	0.2167	ug/L	0.2167	ppb	06:00:40
2	Sc 361.383	891783.7	891783.7	99.080	%			06:01:57
2	Y 371.029	751795.3	751795.3	98.604	%			06:01:57
2	Ag 328.068†	179.4	-48.2	-0.2076	ug/L	-0.2076	ppb	06:01:57
2	As 188.979†	-19.6	0.8	0.3417	ug/L	0.3417	ppb	06:02:17
2	B 249.677†	-275.5	94.9	2.2604	ug/L	2.2604	ppb	06:02:17
2	Ba 233.527†	8.7	18.0	0.1398	ug/L	0.1398	ppb	06:02:17
2	Be 313.107†	-3747.4	71.1	0.0256	ug/L	0.0256	ppb	06:01:57
2	Cd 226.502†	-205.2	-23.8	-0.2803	ug/L	-0.2803	ppb	06:02:17
2	Co 228.616†	-64.9	-3.6	-0.0725	ug/L	-0.0725	ppb	06:02:17
2	Cr 267.716†	49.8	-15.7	-0.1708	ug/L	-0.1708	ppb	06:02:17
2	Cu 324.752†	6121.9	101.7	0.3126	ug/L	0.3126	ppb	06:01:57
2	Mn 257.610†	460.7	28.1	0.0307	ug/L	0.0307	ppb	06:02:17
2	Mo 202.031†	14.4	8.5	0.6238	ug/L	0.6238	ppb	06:02:17
2	Ni 231.604†	46.5	-5.3	-0.1357	ug/L	-0.1357	ppb	06:02:17

2	P 214.914†	204.1	3.9	2.2985	ug/L	2.2985 ppb	06:02:17
2	Pb 220.353†	-44.9	19.7	2.4361	ug/L	2.4361 ppb	06:02:17
2	S 181.975 Axial†	42.5	5.8	8.5187	ug/L	8.5187 ppb	06:02:17
2	Sb 206.836†	31.6	-4.8	-1.6480	ug/L	-1.6480 ppb	06:02:17
2	Se 196.026†	-27.8	-7.3	-4.7473	ug/L	-4.7473 ppb	06:02:17
2	Si 251.611†	635.7	107.5	3.4398	ug/L	3.4398 ppb	06:02:17
2	Sn 189.927†	9.1	-1.2	-0.2217	ug/L	-0.2217 ppb	06:02:17
2	Ti 334.940†	-1527.8	-260.2	-0.3939	ug/L	-0.3939 ppb	06:01:57
2	Tl 190.801†	-36.5	-5.6	-1.7988	ug/L	-1.7988 ppb	06:02:17
2	U 409.014†	-3194.4	-407.8	-11.021	ug/L	-11.021 ppb	06:01:57
2	V 292.402†	-1489.3	-72.7	-0.5181	ug/L	-0.5181 ppb	06:01:57
2	Zn 213.857†	578.7	26.4	0.2619	ug/L	0.2619 ppb	06:02:17
2	SiO2†	644.5	99.0	6.7828	ug/L	6.7828 ppb	06:02:53
3	Sc Radial	3912.2	3912.2	92.0	%		06:01:25
3	Y RADIAL	4509.5	4509.5	96.11	%		06:01:05
3	Al 396.153Radial†	-117.2	-16.7	-15.077	ug/L	-15.077 ppb	06:01:05
3	Ca 317.933Radial†	16.4	2.4	4.7650	ug/L	4.7650 ppb	06:01:25
3	Fe 238.204 Radial†	8.7	-0.7	-9.5597	ug/L	-9.5597 ppb	06:01:25
3	K 766.490 Radial†	4243.9	2057.3	384.91	ug/L	384.91 ppb	06:01:05
3	Mg 279.077 IEC†	3.3	0.9	40.429	ug/L	40.429 ppb	06:01:25
3	Na 589.592 Radial†	-711.3	-33.0	-9.5777	ug/L	-9.5777 ppb	06:01:05
3	Sr 421.552†	70.0	39.4	0.2608	ug/L	0.2608 ppb	06:01:05
3	Sc 361.383	887351.6	887351.6	98.588	%		06:02:22
3	Y 371.029	749326.0	749326.0	98.280	%		06:02:22
3	Ag 328.068†	208.4	-17.9	-0.0808	ug/L	-0.0808 ppb	06:02:22
3	As 188.979†	-22.4	-2.2	-0.9875	ug/L	-0.9875 ppb	06:02:42
3	B 249.677†	-278.2	90.8	2.1695	ug/L	2.1695 ppb	06:02:42
3	Ba 233.527†	3.7	12.9	0.0990	ug/L	0.0990 ppb	06:02:42
3	Be 313.107†	-3775.8	23.4	0.0080	ug/L	0.0080 ppb	06:02:22
3	Cd 226.502†	-191.1	-10.5	-0.1225	ug/L	-0.1225 ppb	06:02:42
3	Co 228.616†	-76.6	-15.8	-0.3300	ug/L	-0.3300 ppb	06:02:42
3	Cr 267.716†	49.2	-16.1	-0.1787	ug/L	-0.1787 ppb	06:02:42
3	Cu 324.752†	6086.6	96.7	0.2946	ug/L	0.2946 ppb	06:02:22
3	Mn 257.610†	479.4	49.4	0.0528	ug/L	0.0528 ppb	06:02:42
3	Mo 202.031†	5.3	-0.7	-0.0529	ug/L	-0.0529 ppb	06:02:42
3	Ni 231.604†	49.9	-1.7	-0.0439	ug/L	-0.0439 ppb	06:02:42
3	P 214.914†	202.9	3.8	2.2467	ug/L	2.2467 ppb	06:02:42
3	Pb 220.353†	-67.6	-3.6	-0.4424	ug/L	-0.4424 ppb	06:02:42
3	S 181.975 Axial†	37.8	1.3	1.9183	ug/L	1.9183 ppb	06:02:42
3	Sb 206.836†	44.4	8.3	2.8899	ug/L	2.8899 ppb	06:02:42
3	Se 196.026†	-17.1	3.4	2.1960	ug/L	2.1960 ppb	06:02:42
3	Si 251.611†	644.3	119.4	3.8311	ug/L	3.8311 ppb	06:02:42
3	Sn 189.927†	7.7	-2.6	-0.4728	ug/L	-0.4728 ppb	06:02:42
3	Ti 334.940†	-1484.1	-223.6	-0.3370	ug/L	-0.3370 ppb	06:02:22
3	Tl 190.801†	-29.5	1.3	0.4128	ug/L	0.4128 ppb	06:02:42
3	U 409.014†	-3087.2	-315.2	-8.5145	ug/L	-8.5145 ppb	06:02:22
3	V 292.402†	-1501.4	-92.4	-0.6562	ug/L	-0.6562 ppb	06:02:22
3	Zn 213.857†	573.0	23.5	0.2374	ug/L	0.2374 ppb	06:02:42
3	SiO2†	663.8	121.8	8.3690	ug/L	8.3690 ppb	06:02:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	892701.3	99.182	%	0.6513				0.66%
Sc Radial	3889.8	91.4	%	0.52				0.57%
Y 371.029	753684.1	98.851	%	0.7278				0.74%
Y RADIAL	4464.9	95.16	%	0.959				1.01%
Ag 328.068†	23.3	0.1127	ug/L	0.44938	0.1127	ppb	0.44938	398.86%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-22.4	-20.311	ug/L	8.2418	-20.311	ppb	8.2418	40.58%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.0	-0.8868	ug/L	1.18143	-0.8868	ppb	1.18143	133.22%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	88.8	2.1202	ug/L	0.17019	2.1202	ppb	0.17019	8.03%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	17.6	0.1360	ug/L	0.03532	0.1360	ppb	0.03532	25.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	78.5	0.0284	ug/L	0.02201	0.0284	ppb	0.02201	77.47%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.6	5.2184	ug/L	1.12911	5.2184	ppb	1.12911	21.64%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -14.0     -0.1640 ug/L       0.10209     -0.1640 ppb        0.10209  62.25%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               -7.5     -0.1548 ug/L       0.15180     -0.1548 ppb        0.15180  98.05%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -6.2     -0.0663 ug/L       0.18792     -0.0663 ppb        0.18792 283.51%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               62.9      0.1942 ug/L       0.18959      0.1942 ppb        0.18959  97.61%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         0.2      2.0093 ug/L      18.15854      2.0093 ppb       18.15854 903.72%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       2263.8      423.53 ug/L        39.284      423.53 ppb         39.284   9.28%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            0.7      32.760 ug/L       46.7715      32.760 ppb        46.7715 142.77%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               47.0      0.0516 ug/L       0.02023      0.0516 ppb        0.02023  39.24%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                3.5      0.2595 ug/L       0.34132      0.2595 ppb        0.34132 131.52%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -18.5     -5.3601 ug/L       3.74651     -5.3601 ppb        3.74651  69.90%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                8.7      0.2208 ug/L       0.53983      0.2208 ppb        0.53983 244.53%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 7.4      4.4162 ug/L       3.71291      4.4162 ppb        3.71291  84.07%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                7.2      0.8936 ug/L       1.45031      0.8936 ppb        1.45031 162.30%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           5.0      7.3757 ug/L       4.98518      7.3757 ppb        4.98518  67.59%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                2.4      0.8428 ug/L       2.30125      0.8428 ppb        2.30125 273.06%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -3.0     -1.9499 ug/L       3.66278     -1.9499 ppb        3.66278 187.85%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              111.6      3.5764 ug/L       0.22076      3.5764 ppb        0.22076   6.17%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -0.3     -0.0541 ug/L       0.52303     -0.0541 ppb        0.52303 966.43%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               50.6      0.3356 ug/L       0.16913      0.3356 ppb        0.16913  50.40%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -247.4     -0.3720 ug/L       0.03062     -0.3720 ppb        0.03062   8.23%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -0.9     -0.2753 ug/L       1.32144     -0.2753 ppb        1.32144 479.98%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              -352.9     -9.5368 ug/L       1.31543     -9.5368 ppb        1.31543  13.79%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               -89.9     -0.6380 ug/L       0.11195     -0.6380 ppb        0.11195  17.55%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               19.3      0.1922 ug/L       0.10030      0.1922 ppb        0.10030  52.19%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    113.8      7.8098 ug/L       0.89060      7.8098 ppb        0.89060  11.40%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

User canceled analysis.

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Analysis Begun

Start Time: 2/24/2010 06:17:09 **Plasma On Time: 2/22/2010 05:55:10**
Logged In Analyst: Optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\022310C.sif
Batch ID:
Results Data Set: 022310A
Results Library: C:\pe\Optima3\Results\Results.mdb

==========

Sequence No.: 104 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 2/24/2010 06:17:10**
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.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4033.5	4033.5	94.8	%			06:19:02
1	Y RADIAL	4436.5	4436.5	94.55	%			06:19:02
1	Al 396.153Radial†	5272.5	5671.0	5111.6	ug/L	5111.6	ppb	06:19:02
1	Ca 317.933Radial†	2490.1	2610.4	5193.7	ug/L	5193.7	ppb	06:19:22
1	Fe 238.204 Radial†	375.4	385.7	4984.2	ug/L	4984.2	ppb	06:19:22
1	K 766.490 Radial†	29290.2	28331.6	5294.1	ug/L	5294.1	ppb	06:19:02
1	Mg 279.077 IEC†	109.5	112.7	5124.2	ug/L	5124.2	ppb	06:19:22
1	Na 589.592 Radial†	31786.2	34260.9	9942.6	ug/L	9942.6	ppb	06:19:02
1	Sr 421.552†	71406.2	75265.5	498.81	ug/L	498.81	ppb	06:19:02
1	Sc 361.383	900638.3	900638.3	100.06	%			06:20:19
1	Y 371.029	749075.0	749075.0	98.247	%			06:20:19
1	Ag 328.068†	107720.8	107422.7	496.39	ug/L	496.39	ppb	06:20:25
1	As 188.979†	1111.4	1131.3	514.15	ug/L	514.15	ppb	06:20:45
1	B 249.677†	19698.7	20059.1	476.48	ug/L	476.48	ppb	06:20:25
1	Ba 233.527†	63608.1	63576.7	497.83	ug/L	497.83	ppb	06:20:25
1	Be 313.107†	1329644.7	1332648.8	497.76	ug/L	497.76	ppb	06:20:19
1	Cd 226.502†	43297.6	43453.2	504.27	ug/L	504.27	ppb	06:20:25
1	Co 228.616†	23985.6	24032.2	502.54	ug/L	502.54	ppb	06:20:25
1	Cr 267.716†	44474.4	44380.0	498.74	ug/L	498.74	ppb	06:20:25
1	Cu 324.752†	167152.6	160968.7	483.38	ug/L	483.38	ppb	06:20:25
1	Mn 257.610†	442662.3	441942.8	495.78	ug/L	495.78	ppb	06:20:19
1	Mo 202.031†	6863.8	6853.3	501.99	ug/L	501.99	ppb	06:20:45
1	Ni 231.604†	19898.4	19833.4	503.82	ug/L	503.82	ppb	06:20:25
1	P 214.914†	4387.6	4182.8	2444.1	ug/L	2444.1	ppb	06:20:45
1	Pb 220.353†	4041.9	4104.3	510.13	ug/L	510.13	ppb	06:20:45
1	S 181.975 Axial†	754.3	716.7	1049.0	ug/L	1049.0	ppb	06:20:45
1	Sb 206.836†	1495.2	1457.5	526.26	ug/L	526.26	ppb	06:20:45
1	Se 196.026†	743.8	764.0	520.71	ug/L	520.71	ppb	06:20:45
1	Si 251.611†	77669.3	77085.5	2466.7	ug/L	2466.7	ppb	06:20:25
1	Sn 189.927†	2835.5	2823.2	511.39	ug/L	511.39	ppb	06:20:45
1	Ti 334.940†	323565.7	324640.9	490.89	ug/L	490.89	ppb	06:20:19
1	Tl 190.801†	1530.7	1561.0	504.25	ug/L	504.25	ppb	06:20:45
1	U 409.014†	14467.3	17274.3	465.08	ug/L	465.08	ppb	06:20:25
1	V 292.402†	69345.0	70731.2	497.71	ug/L	497.71	ppb	06:20:25
1	Zn 213.857†	50452.1	49862.2	495.72	ug/L	495.72	ppb	06:20:25
1	SiO2†	76791.5	76190.9	5221.3	ug/L	5221.3	ppb	06:21:53
2	Sc Radial	4003.6	4003.6	94.1	%			06:19:27
2	Y RADIAL	4383.7	4383.7	93.43	%			06:19:27
2	Al 396.153Radial†	5244.4	5682.7	5122.5	ug/L	5122.5	ppb	06:19:27
2	Ca 317.933Radial†	2469.6	2608.4	5189.6	ug/L	5189.6	ppb	06:19:47
2	Fe 238.204 Radial†	375.1	388.4	5018.4	ug/L	5018.4	ppb	06:19:47
2	K 766.490 Radial†	29146.9	28410.0	5308.8	ug/L	5308.8	ppb	06:19:27
2	Mg 279.077 IEC†	110.9	115.1	5230.0	ug/L	5230.0	ppb	06:19:47
2	Na 589.592 Radial†	31374.1	34073.5	9888.2	ug/L	9888.2	ppb	06:19:27
2	Sr 421.552†	70667.3	75042.9	497.34	ug/L	497.34	ppb	06:19:27
2	Sc 361.383	908257.7	908257.7	100.91	%			06:20:51

2	Y 371.029	753518.5	753518.5	98.830	%		06:20:51
2	Ag 328.068†	108151.2	106946.1	494.20	ug/L	494.20 ppb	06:20:56
2	As 188.979†	1100.8	1111.4	505.21	ug/L	505.21 ppb	06:21:16
2	B 249.677†	19907.6	20100.9	477.48	ug/L	477.48 ppb	06:20:56
2	Ba 233.527†	63871.8	63304.7	495.70	ug/L	495.70 ppb	06:20:56
2	Be 313.107†	1333304.1	1325127.9	494.95	ug/L	494.95 ppb	06:20:51
2	Cd 226.502†	43489.8	43280.7	502.26	ug/L	502.26 ppb	06:20:56
2	Co 228.616†	24055.0	23899.9	499.76	ug/L	499.76 ppb	06:20:56
2	Cr 267.716†	44520.5	44052.8	495.07	ug/L	495.07 ppb	06:20:56
2	Cu 324.752†	168022.1	160429.0	481.76	ug/L	481.76 ppb	06:20:56
2	Mn 257.610†	445430.2	440974.5	494.70	ug/L	494.70 ppb	06:20:51
2	Mo 202.031†	6820.1	6752.5	494.62	ug/L	494.62 ppb	06:21:16
2	Ni 231.604†	19944.3	19712.0	500.74	ug/L	500.74 ppb	06:20:56
2	P 214.914†	4349.7	4108.4	2399.2	ug/L	2399.2 ppb	06:21:16
2	Pb 220.353†	4017.9	4046.7	502.96	ug/L	502.96 ppb	06:21:16
2	S 181.975 Axial†	748.3	704.5	1031.1	ug/L	1031.1 ppb	06:21:16
2	Sb 206.836†	1482.6	1432.6	517.28	ug/L	517.28 ppb	06:21:16
2	Se 196.026†	735.6	749.6	511.33	ug/L	511.33 ppb	06:21:16
2	Si 251.611†	78053.5	76815.1	2458.1	ug/L	2458.1 ppb	06:20:56
2	Sn 189.927†	2819.0	2783.1	504.13	ug/L	504.13 ppb	06:21:16
2	Ti 334.940†	325005.2	323354.7	488.94	ug/L	488.94 ppb	06:20:51
2	Tl 190.801†	1523.7	1541.2	497.89	ug/L	497.89 ppb	06:21:16
2	U 409.014†	14565.8	17250.7	464.45	ug/L	464.45 ppb	06:20:56
2	V 292.402†	69452.3	70256.1	494.31	ug/L	494.31 ppb	06:20:56
2	Zn 213.857†	50798.2	49782.2	494.93	ug/L	494.93 ppb	06:20:56
2	SiO2†	78631.7	77370.8	5302.6	ug/L	5302.6 ppb	06:21:58
3	Sc Radial	4016.7	4016.7	94.4	%		06:19:52
3	Y RADIAL	4384.9	4384.9	93.45	%		06:19:52
3	Al 396.153Radial†	5268.6	5690.0	5128.9	ug/L	5128.9 ppb	06:19:52
3	Ca 317.933Radial†	2483.1	2614.0	5200.9	ug/L	5200.9 ppb	06:20:12
3	Fe 238.204 Radial†	377.5	389.5	5033.3	ug/L	5033.3 ppb	06:20:12
3	K 766.490 Radial†	29181.6	28345.2	5296.7	ug/L	5296.7 ppb	06:19:52
3	Mg 279.077 IEC†	116.9	121.0	5500.5	ug/L	5500.5 ppb	06:20:12
3	Na 589.592 Radial†	31049.8	33620.7	9756.8	ug/L	9756.8 ppb	06:19:52
3	Sr 421.552†	70691.2	74821.9	495.87	ug/L	495.87 ppb	06:19:52
3	Sc 361.383	909191.6	909191.6	101.01	%		06:21:22
3	Y 371.029	755388.1	755388.1	99.075	%		06:21:22
3	Ag 328.068†	108199.7	106884.0	493.91	ug/L	493.91 ppb	06:21:27
3	As 188.979†	1110.6	1120.0	509.06	ug/L	509.06 ppb	06:21:47
3	B 249.677†	19857.0	20030.5	475.80	ug/L	475.80 ppb	06:21:27
3	Ba 233.527†	63805.9	63174.4	494.68	ug/L	494.68 ppb	06:21:27
3	Be 313.107†	1335114.5	1325562.9	495.11	ug/L	495.11 ppb	06:21:22
3	Cd 226.502†	43500.5	43247.1	501.87	ug/L	501.87 ppb	06:21:27
3	Co 228.616†	23977.3	23798.5	497.65	ug/L	497.65 ppb	06:21:27
3	Cr 267.716†	44564.1	44050.7	495.05	ug/L	495.05 ppb	06:21:27
3	Cu 324.752†	167675.3	159914.7	480.22	ug/L	480.22 ppb	06:21:27
3	Mn 257.610†	444740.0	439837.9	493.41	ug/L	493.41 ppb	06:21:22
3	Mo 202.031†	6898.5	6823.1	499.79	ug/L	499.79 ppb	06:21:47
3	Ni 231.604†	19893.3	19641.3	498.94	ug/L	498.94 ppb	06:21:27
3	P 214.914†	4403.8	4157.6	2429.4	ug/L	2429.4 ppb	06:21:47
3	Pb 220.353†	4049.6	4073.9	506.36	ug/L	506.36 ppb	06:21:47
3	S 181.975 Axial†	754.6	710.0	1039.2	ug/L	1039.2 ppb	06:21:47
3	Sb 206.836†	1485.1	1433.4	517.81	ug/L	517.81 ppb	06:21:47
3	Se 196.026†	739.1	752.4	513.20	ug/L	513.20 ppb	06:21:47
3	Si 251.611†	77857.0	76541.1	2449.3	ug/L	2449.3 ppb	06:21:27
3	Sn 189.927†	2863.5	2824.3	511.59	ug/L	511.59 ppb	06:21:47
3	Ti 334.940†	325209.2	323225.8	488.72	ug/L	488.72 ppb	06:21:22
3	Tl 190.801†	1532.8	1548.6	500.27	ug/L	500.27 ppb	06:21:47
3	U 409.014†	14644.7	17313.9	466.16	ug/L	466.16 ppb	06:21:27
3	V 292.402†	69469.7	70202.6	494.02	ug/L	494.02 ppb	06:21:27
3	Zn 213.857†	50705.1	49638.3	493.50	ug/L	493.50 ppb	06:21:27
3	SiO2†	78330.2	76992.3	5276.4	ug/L	5276.4 ppb	06:22:03

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	906029.2	100.66	%	0.521				0.52%
Sc Radial	4017.9	94.5	%	0.35				0.37%
Y 371.029	752660.5	98.717	%	0.4253				0.43%
Y RADIAL	4401.7	93.81	%	0.643				0.68%

Ag 328.068†	107084.2	494.83 ug/L	1.354	494.83 ppb	1.354	0.27%
QC value within limits for Ag 328.068 Recovery = 98.97%						
Al 396.153Radial†	5681.2	5121.0 ug/L	8.74	5121.0 ppb	8.74	0.17%
QC value within limits for Al 396.153Radial Recovery = 102.42%						
As 188.979†	1120.9	509.47 ug/L	4.485	509.47 ppb	4.485	0.88%
QC value within limits for As 188.979 Recovery = 101.89%						
B 249.677†	20063.5	476.58 ug/L	0.843	476.58 ppb	0.843	0.18%
QC value within limits for B 249.677 Recovery = 95.32%						
Ba 233.527†	63351.9	496.07 ug/L	1.607	496.07 ppb	1.607	0.32%
QC value within limits for Ba 233.527 Recovery = 99.21%						
Be 313.107†	1327779.9	495.94 ug/L	1.576	495.94 ppb	1.576	0.32%
QC value within limits for Be 313.107 Recovery = 99.19%						
Ca 317.933Radial†	2611.0	5194.7 ug/L	5.72	5194.7 ppb	5.72	0.11%
QC value within limits for Ca 317.933Radial Recovery = 103.89%						
Cd 226.502†	43327.0	502.80 ug/L	1.288	502.80 ppb	1.288	0.26%
QC value within limits for Cd 226.502 Recovery = 100.56%						
Co 228.616†	23910.2	499.99 ug/L	2.452	499.99 ppb	2.452	0.49%
QC value within limits for Co 228.616 Recovery = 100.00%						
Cr 267.716†	44161.2	496.29 ug/L	2.126	496.29 ppb	2.126	0.43%
QC value within limits for Cr 267.716 Recovery = 99.26%						
Cu 324.752†	160437.5	481.78 ug/L	1.582	481.78 ppb	1.582	0.33%
QC value within limits for Cu 324.752 Recovery = 96.36%						
Fe 238.204 Radial†	387.9	5011.9 ug/L	25.17	5011.9 ppb	25.17	0.50%
QC value within limits for Fe 238.204 Radial Recovery = 100.24%						
K 766.490 Radial†	28362.3	5299.8 ug/L	7.84	5299.8 ppb	7.84	0.15%
QC value within limits for K 766.490 Radial Recovery = 106.00%						
Mg 279.077 IEC†	116.3	5284.9 ug/L	194.10	5284.9 ppb	194.10	3.67%
QC value within limits for Mg 279.077 IEC Recovery = 105.70%						
Mn 257.610†	440918.4	494.63 ug/L	1.187	494.63 ppb	1.187	0.24%
QC value within limits for Mn 257.610 Recovery = 98.93%						
Mo 202.031†	6809.6	498.80 ug/L	3.787	498.80 ppb	3.787	0.76%
QC value within limits for Mo 202.031 Recovery = 99.76%						
Na 589.592 Radial†	33985.0	9862.6 ug/L	95.52	9862.6 ppb	95.52	0.97%
QC value within limits for Na 589.592 Radial Recovery = 98.63%						
Ni 231.604†	19728.9	501.17 ug/L	2.468	501.17 ppb	2.468	0.49%
QC value within limits for Ni 231.604 Recovery = 100.23%						
P 214.914†	4149.6	2424.3 ug/L	22.90	2424.3 ppb	22.90	0.94%
QC value within limits for P 214.914 Recovery = 96.97%						
Pb 220.353†	4075.0	506.48 ug/L	3.585	506.48 ppb	3.585	0.71%
QC value within limits for Pb 220.353 Recovery = 101.30%						
S 181.975 Axial†	710.4	1039.8 ug/L	8.97	1039.8 ppb	8.97	0.86%
QC value within limits for S 181.975 Axial Recovery = 103.98%						
Sb 206.836†	1441.2	520.45 ug/L	5.038	520.45 ppb	5.038	0.97%
QC value within limits for Sb 206.836 Recovery = 104.09%						
Se 196.026†	755.3	515.08 ug/L	4.965	515.08 ppb	4.965	0.96%
QC value within limits for Se 196.026 Recovery = 103.02%						
Si 251.611†	76813.9	2458.0 ug/L	8.72	2458.0 ppb	8.72	0.35%
QC value within limits for Si 251.611 Recovery = 98.32%						
Sn 189.927†	2810.2	509.04 ug/L	4.248	509.04 ppb	4.248	0.83%
QC value within limits for Sn 189.927 Recovery = 101.81%						
Sr 421.552†	75043.4	497.34 ug/L	1.470	497.34 ppb	1.470	0.30%
QC value within limits for Sr 421.552 Recovery = 99.47%						
Ti 334.940†	323740.5	489.52 ug/L	1.195	489.52 ppb	1.195	0.24%
QC value within limits for Ti 334.940 Recovery = 97.90%						
Tl 190.801†	1550.2	500.81 ug/L	3.211	500.81 ppb	3.211	0.64%
QC value within limits for Tl 190.801 Recovery = 100.16%						
U 409.014†	17279.6	465.23 ug/L	0.864	465.23 ppb	0.864	0.19%
QC value within limits for U 409.014 Recovery = 93.05%						
V 292.402†	70396.6	495.34 ug/L	2.054	495.34 ppb	2.054	0.41%
QC value within limits for V 292.402 Recovery = 99.07%						
Zn 213.857†	49760.9	494.72 ug/L	1.125	494.72 ppb	1.125	0.23%
QC value within limits for Zn 213.857 Recovery = 98.94%						
SiO2†	76851.3	5266.8 ug/L	41.48	5266.8 ppb	41.48	0.79%
QC value within limits for SiO2 Recovery = 98.49%						

All analyte(s) passed QC.

Sequence No.: 105
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/24/2010 06:24:14
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3907.7	3907.7	91.9	%			06:26:26
1	Y RADIAL	4482.7	4482.7	95.54	%			06:26:06
1	Al 396.153Radial†	-117.6	-17.2	-15.673	ug/L	-15.673	ppb	06:26:06
1	Ca 317.933Radial†	16.2	2.2	4.3690	ug/L	4.3690	ppb	06:26:26
1	Fe 238.204 Radial†	10.4	1.2	15.290	ug/L	15.290	ppb	06:26:26
1	K 766.490 Radial†	3359.5	1100.0	205.81	ug/L	205.81	ppb	06:26:06
1	Mg 279.077 IEC†	2.6	0.1	6.0058	ug/L	6.0058	ppb	06:26:26
1	Na 589.592 Radial†	-784.1	-113.1	-32.824	ug/L	-32.824	ppb	06:26:06
1	Sr 421.552†	26.2	-8.3	-0.0550	ug/L	-0.0550	ppb	06:26:06
1	Sc 361.383	896138.7	896138.7	99.564	%			06:27:23
1	Y 371.029	756516.3	756516.3	99.223	%			06:27:23
1	Ag 328.068†	272.0	43.9	0.2078	ug/L	0.2078	ppb	06:27:23
1	As 188.979†	-29.7	-9.3	-4.2054	ug/L	-4.2054	ppb	06:27:43
1	B 249.677†	-402.1	-30.9	-0.7405	ug/L	-0.7405	ppb	06:27:43
1	Ba 233.527†	1.2	10.4	0.0795	ug/L	0.0795	ppb	06:27:43
1	Be 313.107†	-3703.8	133.3	0.0489	ug/L	0.0489	ppb	06:27:23
1	Cd 226.502†	-187.0	-4.5	-0.0547	ug/L	-0.0547	ppb	06:27:43
1	Co 228.616†	-67.5	-5.9	-0.1198	ug/L	-0.1198	ppb	06:27:43
1	Cr 267.716†	74.3	8.6	0.0993	ug/L	0.0993	ppb	06:27:43
1	Cu 324.752†	6104.3	53.9	0.1660	ug/L	0.1660	ppb	06:27:23
1	Mn 257.610†	486.2	51.5	0.0590	ug/L	0.0590	ppb	06:27:43
1	Mo 202.031†	21.4	15.4	1.1266	ug/L	1.1266	ppb	06:27:43
1	Ni 231.604†	81.4	29.4	0.7471	ug/L	0.7471	ppb	06:27:43
1	P 214.914†	197.7	-3.5	-2.1551	ug/L	-2.1551	ppb	06:27:43
1	Pb 220.353†	-79.1	-14.4	-1.7883	ug/L	-1.7883	ppb	06:27:43
1	S 181.975 Axial†	41.7	4.9	7.1335	ug/L	7.1335	ppb	06:27:43
1	Sb 206.836†	38.9	2.3	0.8399	ug/L	0.8399	ppb	06:27:43
1	Se 196.026†	-26.7	-6.1	-3.9879	ug/L	-3.9879	ppb	06:27:43
1	Si 251.611†	598.6	67.1	2.1387	ug/L	2.1387	ppb	06:27:43
1	Sn 189.927†	9.9	-0.4	-0.0808	ug/L	-0.0808	ppb	06:27:43
1	Ti 334.940†	-1485.6	-210.3	-0.3154	ug/L	-0.3154	ppb	06:27:23
1	Tl 190.801†	-33.5	-2.4	-0.7847	ug/L	-0.7847	ppb	06:27:43
1	U 409.014†	-3022.1	-219.0	-5.9204	ug/L	-5.9204	ppb	06:27:23
1	V 292.402†	-1541.4	-117.7	-0.8144	ug/L	-0.8144	ppb	06:27:23
1	Zn 213.857†	592.2	37.1	0.3646	ug/L	0.3646	ppb	06:27:43
1	SiO2†	594.3	45.4	3.0859	ug/L	3.0859	ppb	06:28:39
2	Sc Radial	3882.4	3882.4	91.3	%			06:26:52
2	Y RADIAL	4431.0	4431.0	94.44	%			06:26:32
2	Al 396.153Radial†	-117.2	-17.6	-16.032	ug/L	-16.032	ppb	06:26:32
2	Ca 317.933Radial†	18.2	4.5	8.8951	ug/L	8.8951	ppb	06:26:52
2	Fe 238.204 Radial†	10.6	1.4	18.149	ug/L	18.149	ppb	06:26:52
2	K 766.490 Radial†	3343.8	1106.7	207.06	ug/L	207.06	ppb	06:26:32
2	Mg 279.077 IEC†	3.9	1.6	71.032	ug/L	71.032	ppb	06:26:52
2	Na 589.592 Radial†	-840.0	-180.0	-52.236	ug/L	-52.236	ppb	06:26:32
2	Sr 421.552†	57.6	26.3	0.1742	ug/L	0.1742	ppb	06:26:32
2	Sc 361.383	889663.8	889663.8	98.845	%			06:27:49
2	Y 371.029	750618.1	750618.1	98.449	%			06:27:49
2	Ag 328.068†	212.4	-14.5	-0.0553	ug/L	-0.0553	ppb	06:27:49
2	As 188.979†	-19.1	1.2	0.5286	ug/L	0.5286	ppb	06:28:09
2	B 249.677†	-381.2	-12.7	-0.3049	ug/L	-0.3049	ppb	06:28:09
2	Ba 233.527†	-9.6	-0.6	-0.0049	ug/L	-0.0049	ppb	06:28:09
2	Be 313.107†	-3751.4	58.0	0.0207	ug/L	0.0207	ppb	06:27:49
2	Cd 226.502†	-175.8	5.4	0.0595	ug/L	0.0595	ppb	06:28:09
2	Co 228.616†	-66.5	-5.4	-0.1081	ug/L	-0.1081	ppb	06:28:09
2	Cr 267.716†	52.2	-13.2	-0.1430	ug/L	-0.1430	ppb	06:28:09
2	Cu 324.752†	6058.5	52.2	0.1628	ug/L	0.1628	ppb	06:27:49
2	Mn 257.610†	472.3	40.9	0.0448	ug/L	0.0448	ppb	06:28:09
2	Mo 202.031†	27.2	21.4	1.5705	ug/L	1.5705	ppb	06:28:09
2	Ni 231.604†	71.7	20.3	0.5149	ug/L	0.5149	ppb	06:28:09

2	P 214.914†	209.5	9.9	5.9708	ug/L	5.9708 ppb	06:28:09
2	Pb 220.353†	-50.5	14.0	1.7303	ug/L	1.7303 ppb	06:28:09
2	S 181.975 Axial†	36.9	0.3	0.4237	ug/L	0.4237 ppb	06:28:09
2	Sb 206.836†	49.8	13.7	4.7933	ug/L	4.7933 ppb	06:28:09
2	Se 196.026†	-33.6	-13.3	-8.7307	ug/L	-8.7307 ppb	06:28:09
2	Si 251.611†	589.2	62.0	1.9682	ug/L	1.9682 ppb	06:28:09
2	Sn 189.927†	8.3	-2.0	-0.3585	ug/L	-0.3585 ppb	06:28:09
2	Ti 334.940†	-1539.7	-275.9	-0.4177	ug/L	-0.4177 ppb	06:27:49
2	Tl 190.801†	-34.6	-3.8	-1.2121	ug/L	-1.2121 ppb	06:28:09
2	U 409.014†	-3124.4	-344.6	-9.3139	ug/L	-9.3139 ppb	06:27:49
2	V 292.402†	-1480.4	-67.2	-0.4632	ug/L	-0.4632 ppb	06:27:49
2	Zn 213.857†	559.5	8.3	0.0772	ug/L	0.0772 ppb	06:28:09
2	SiO2†	636.8	92.7	6.3272	ug/L	6.3272 ppb	06:28:44
3	Sc Radial	3892.9	3892.9	91.5	%		06:27:17
3	Y RADIAL	4357.2	4357.2	92.86	%		06:26:57
3	Al 396.153Radial†	-135.9	-37.7	-34.170	ug/L	-34.170 ppb	06:26:57
3	Ca 317.933Radial†	15.1	1.0	2.0376	ug/L	2.0376 ppb	06:27:17
3	Fe 238.204 Radial†	11.9	2.8	35.603	ug/L	35.603 ppb	06:27:17
3	K 766.490 Radial†	3327.2	1078.8	201.83	ug/L	201.83 ppb	06:26:57
3	Mg 279.077 IEC†	0.9	-1.8	-82.791	ug/L	-82.791 ppb	06:27:17
3	Na 589.592 Radial†	-778.8	-110.6	-32.095	ug/L	-32.095 ppb	06:26:57
3	Sr 421.552†	23.5	-11.1	-0.0739	ug/L	-0.0739 ppb	06:26:57
3	Sc 361.383	885640.0	885640.0	98.398	%		06:28:14
3	Y 371.029	748115.1	748115.1	98.121	%		06:28:14
3	Ag 328.068†	231.1	5.5	0.0399	ug/L	0.0399 ppb	06:28:14
3	As 188.979†	-21.0	-0.8	-0.3644	ug/L	-0.3644 ppb	06:28:34
3	B 249.677†	-391.7	-25.1	-0.6054	ug/L	-0.6054 ppb	06:28:34
3	Ba 233.527†	1.3	10.4	0.0812	ug/L	0.0812 ppb	06:28:34
3	Be 313.107†	-3653.8	140.0	0.0518	ug/L	0.0518 ppb	06:28:14
3	Cd 226.502†	-197.5	-17.4	-0.2062	ug/L	-0.2062 ppb	06:28:34
3	Co 228.616†	-60.5	0.5	0.0099	ug/L	0.0099 ppb	06:28:34
3	Cr 267.716†	79.1	14.4	0.1668	ug/L	0.1668 ppb	06:28:34
3	Cu 324.752†	5959.8	-20.3	-0.0549	ug/L	-0.0549 ppb	06:28:14
3	Mn 257.610†	472.0	42.8	0.0549	ug/L	0.0549 ppb	06:28:34
3	Mo 202.031†	8.1	2.1	0.1583	ug/L	0.1583 ppb	06:28:34
3	Ni 231.604†	84.3	33.3	0.8472	ug/L	0.8472 ppb	06:28:34
3	P 214.914†	207.4	8.8	5.2838	ug/L	5.2838 ppb	06:28:34
3	Pb 220.353†	-53.2	11.0	1.3529	ug/L	1.3529 ppb	06:28:34
3	S 181.975 Axial†	32.7	-3.8	-5.6223	ug/L	-5.6223 ppb	06:28:34
3	Sb 206.836†	47.0	11.1	3.8536	ug/L	3.8536 ppb	06:28:34
3	Se 196.026†	-20.6	-0.2	-0.0248	ug/L	-0.0248 ppb	06:28:34
3	Si 251.611†	598.6	74.3	2.3801	ug/L	2.3801 ppb	06:28:34
3	Sn 189.927†	8.2	-2.1	-0.3884	ug/L	-0.3884 ppb	06:28:34
3	Ti 334.940†	-1378.1	-118.8	-0.1694	ug/L	-0.1694 ppb	06:28:14
3	Tl 190.801†	-35.2	-4.6	-1.4722	ug/L	-1.4722 ppb	06:28:34
3	U 409.014†	-3040.7	-273.9	-7.4061	ug/L	-7.4061 ppb	06:28:14
3	V 292.402†	-1491.0	-84.9	-0.6077	ug/L	-0.6077 ppb	06:28:14
3	Zn 213.857†	578.2	29.9	0.2898	ug/L	0.2898 ppb	06:28:34
3	SiO2†	607.3	65.7	4.5068	ug/L	4.5068 ppb	06:28:49

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	890480.8	98.935	%	0.5885				0.59%
Sc Radial	3894.3	91.6	%	0.30				0.33%
Y 371.029	751749.9	98.598	%	0.5657				0.57%
Y RADIAL	4423.6	94.28	%	1.344				1.43%
Ag 328.068†	11.6	0.0641	ug/L	0.13318	0.0641	ppb	0.13318	207.72%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-24.2	-21.958	ug/L	10.5769	-21.958	ppb	10.5769	48.17%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.0	-1.3471	ug/L	2.51533	-1.3471	ppb	2.51533	186.73%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-22.9	-0.5503	ug/L	0.22297	-0.5503	ppb	0.22297	40.52%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	6.7	0.0519	ug/L	0.04924	0.0519	ppb	0.04924	94.81%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	110.4	0.0405	ug/L	0.01720	0.0405	ppb	0.01720	42.51%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.6	5.1005	ug/L	3.48681	5.1005	ppb	3.48681	68.36%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -5.5     -0.0671 ug/L      0.13325     -0.0671 ppb       0.13325 198.54%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†              -3.6     -0.0727 ug/L      0.07178     -0.0727 ppb       0.07178  98.79%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               3.3      0.0410 ug/L      0.16289      0.0410 ppb       0.16289 396.84%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              28.6      0.0913 ug/L      0.12662      0.0913 ppb       0.12662 138.69%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        1.8     23.014 ug/L      10.9958     23.014 ppb       10.9958  47.78%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†      1095.1     204.90 ug/L        2.729     204.90 ppb         2.729   1.33%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†          -0.0     -1.9177 ug/L     77.21722     -1.9177 ppb      77.21722 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              45.1      0.0529 ug/L      0.00732      0.0529 ppb       0.00732  13.84%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              13.0      0.9518 ug/L      0.72217      0.9518 ppb       0.72217  75.87%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†     -134.6    -39.052 ug/L      11.4235    -39.052 ppb       11.4235  29.25%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              27.7      0.7030 ug/L      0.17049      0.7030 ppb       0.17049  24.25%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                5.1      3.0332 ug/L      4.50628      3.0332 ppb       4.50628 148.57%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               3.5      0.4316 ug/L      1.93174      0.4316 ppb       1.93174 447.56%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          0.4      0.6450 ug/L      6.38081      0.6450 ppb       6.38081 989.31%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               9.0      3.1623 ug/L      2.06536      3.1623 ppb       2.06536  65.31%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -6.6     -4.2478 ug/L      4.35878     -4.2478 ppb       4.35878 102.61%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              67.8      2.1623 ug/L      0.20692      2.1623 ppb       0.20692   9.57%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -1.5     -0.2759 ug/L      0.16966     -0.2759 ppb       0.16966  61.49%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               2.3      0.0151 ug/L      0.13808      0.0151 ppb       0.13808 913.26%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†            -201.6     -0.3008 ug/L      0.12480     -0.3008 ppb       0.12480  41.48%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -3.6     -1.1564 ug/L      0.34711     -1.1564 ppb       0.34711  30.02%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†             -279.2     -7.5468 ug/L      1.70110     -7.5468 ppb       1.70110  22.54%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†              -89.9     -0.6284 ug/L      0.17651     -0.6284 ppb       0.17651  28.09%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              25.1      0.2439 ug/L      0.14913      0.2439 ppb       0.14913  61.15%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    67.9      4.6400 ug/L      1.62478      4.6400 ppb       1.62478  35.02%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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

Autosampler Location: 7
Date Collected: 2/24/2010 07:41:04
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3842.0	3842.0	90.3	%			07:43:16
1	Y RADIAL	4305.0	4305.0	91.75	%			07:42:56
1	Al 396.153Radial†	5183.4	5849.4	5273.3	ug/L	5273.3	ppb	07:42:56
1	Ca 317.933Radial†	2461.8	2710.1	5391.9	ug/L	5391.9	ppb	07:43:16
1	Fe 238.204 Radial†	370.2	399.7	5164.0	ug/L	5164.0	ppb	07:43:16
1	K 766.490 Radial†	28202.7	28667.1	5356.7	ug/L	5356.7	ppb	07:42:56
1	Mg 279.077 IEC†	111.4	120.5	5478.7	ug/L	5478.7	ppb	07:43:16
1	Na 589.592 Radial†	30575.2	34590.9	10038	ug/L	10038	ppb	07:42:56
1	Sr 421.552†	69501.9	76910.4	509.71	ug/L	509.71	ppb	07:42:56
1	Sc 361.383	900706.2	900706.2	100.07	%			07:44:14
1	Y 371.029	749868.7	749868.7	98.351	%			07:44:14
1	Ag 328.068†	106619.7	106314.3	491.33	ug/L	491.33	ppb	07:44:19
1	As 188.979†	1103.8	1123.5	510.56	ug/L	510.56	ppb	07:44:39
1	B 249.677†	19406.3	19765.4	469.46	ug/L	469.46	ppb	07:44:19
1	Ba 233.527†	62981.8	62946.0	492.90	ug/L	492.90	ppb	07:44:19
1	Be 313.107†	1336660.4	1339559.4	500.29	ug/L	500.29	ppb	07:44:14
1	Cd 226.502†	42926.3	43079.0	499.90	ug/L	499.90	ppb	07:44:19
1	Co 228.616†	23602.0	23647.0	494.52	ug/L	494.52	ppb	07:44:19
1	Cr 267.716†	44130.1	44032.6	494.86	ug/L	494.86	ppb	07:44:19
1	Cu 324.752†	165185.9	158990.9	477.45	ug/L	477.45	ppb	07:44:19
1	Mn 257.610†	443691.3	442937.7	496.90	ug/L	496.90	ppb	07:44:14
1	Mo 202.031†	6838.2	6827.2	500.10	ug/L	500.10	ppb	07:44:39
1	Ni 231.604†	19648.0	19581.7	497.43	ug/L	497.43	ppb	07:44:19
1	P 214.914†	4326.3	4121.2	2407.8	ug/L	2407.8	ppb	07:44:39
1	Pb 220.353†	4002.0	4064.2	505.17	ug/L	505.17	ppb	07:44:39
1	S 181.975 Axial†	759.5	721.9	1056.6	ug/L	1056.6	ppb	07:44:39
1	Sb 206.836†	1468.9	1431.2	516.98	ug/L	516.98	ppb	07:44:39
1	Se 196.026†	731.1	751.2	512.86	ug/L	512.86	ppb	07:44:39
1	Si 251.611†	76635.1	76046.3	2433.4	ug/L	2433.4	ppb	07:44:19
1	Sn 189.927†	2807.9	2795.5	506.39	ug/L	506.39	ppb	07:44:39
1	Ti 334.940†	312338.3	313397.1	473.88	ug/L	473.88	ppb	07:44:19
1	Tl 190.801†	1535.9	1566.0	505.76	ug/L	505.76	ppb	07:44:39
1	U 409.014†	14450.0	17255.9	464.58	ug/L	464.58	ppb	07:44:19
1	V 292.402†	68760.8	70142.2	493.59	ug/L	493.59	ppb	07:44:19
1	Zn 213.857†	50001.4	49408.0	491.18	ug/L	491.18	ppb	07:44:19
1	SiO2†	77931.8	77324.7	5299.3	ug/L	5299.3	ppb	07:45:46
2	Sc Radial	3848.9	3848.9	90.5	%			07:43:41
2	Y RADIAL	4355.9	4355.9	92.83	%			07:43:21
2	Al 396.153Radial†	5266.8	5931.4	5347.3	ug/L	5347.3	ppb	07:43:21
2	Ca 317.933Radial†	2459.0	2702.1	5376.1	ug/L	5376.1	ppb	07:43:41
2	Fe 238.204 Radial†	369.5	398.2	5145.2	ug/L	5145.2	ppb	07:43:41
2	K 766.490 Radial†	28631.6	29085.2	5434.9	ug/L	5434.9	ppb	07:43:21
2	Mg 279.077 IEC†	109.8	118.6	5388.7	ug/L	5388.7	ppb	07:43:41
2	Na 589.592 Radial†	31187.9	35207.4	10217	ug/L	10217	ppb	07:43:21
2	Sr 421.552†	70870.2	78284.8	518.82	ug/L	518.82	ppb	07:43:21
2	Sc 361.383	900169.0	900169.0	100.01	%			07:44:45
2	Y 371.029	749041.9	749041.9	98.242	%			07:44:45
2	Ag 328.068†	106953.4	106711.5	493.15	ug/L	493.15	ppb	07:44:50
2	As 188.979†	1102.7	1123.1	510.38	ug/L	510.38	ppb	07:45:10
2	B 249.677†	19588.5	19959.2	474.08	ug/L	474.08	ppb	07:44:50
2	Ba 233.527†	63064.1	63065.8	493.84	ug/L	493.84	ppb	07:44:50
2	Be 313.107†	1337332.9	1341028.9	500.85	ug/L	500.85	ppb	07:44:45
2	Cd 226.502†	42915.7	43093.9	500.08	ug/L	500.08	ppb	07:44:50
2	Co 228.616†	23657.0	23716.2	495.97	ug/L	495.97	ppb	07:44:50
2	Cr 267.716†	44161.2	44090.0	495.50	ug/L	495.50	ppb	07:44:50
2	Cu 324.752†	166167.8	160071.2	480.69	ug/L	480.69	ppb	07:44:50
2	Mn 257.610†	444340.3	443851.2	497.93	ug/L	497.93	ppb	07:44:45
2	Mo 202.031†	6879.6	6872.8	503.43	ug/L	503.43	ppb	07:45:10
2	Ni 231.604†	19730.5	19675.8	499.82	ug/L	499.82	ppb	07:44:50

2	P 214.914†	4392.0	4189.5	2448.7 ug/L	2448.7 ppb	07:45:10
2	Pb 220.353†	4080.3	4144.8	515.19 ug/L	515.19 ppb	07:45:10
2	S 181.975 Axial†	770.9	733.7	1073.9 ug/L	1073.9 ppb	07:45:10
2	Sb 206.836†	1493.5	1456.6	526.03 ug/L	526.03 ppb	07:45:10
2	Se 196.026†	742.7	763.3	520.79 ug/L	520.79 ppb	07:45:10
2	Si 251.611†	76952.2	76409.0	2445.0 ug/L	2445.0 ppb	07:44:50
2	Sn 189.927†	2847.7	2837.0	513.90 ug/L	513.90 ppb	07:45:10
2	Ti 334.940†	313066.9	314311.9	475.27 ug/L	475.27 ppb	07:44:50
2	Tl 190.801†	1539.6	1570.6	507.25 ug/L	507.25 ppb	07:45:10
2	U 409.014†	14451.7	17266.2	464.85 ug/L	464.85 ppb	07:44:50
2	V 292.402†	68766.0	70188.3	493.96 ug/L	493.96 ppb	07:44:50
2	Zn 213.857†	50116.9	49553.3	492.62 ug/L	492.62 ppb	07:44:50
2	SiO2†	76407.9	75847.4	5197.7 ug/L	5197.7 ppb	07:45:51
3	Sc Radial	3850.7	3850.7	90.5 %		07:44:06
3	Y RADIAL	4348.4	4348.4	92.68 %		07:43:46
3	Al 396.153Radial†	5237.3	5896.0	5315.3 ug/L	5315.3 ppb	07:43:46
3	Ca 317.933Radial†	2466.3	2708.9	5389.5 ug/L	5389.5 ppb	07:44:06
3	Fe 238.204 Radial†	373.6	402.5	5200.6 ug/L	5200.6 ppb	07:44:06
3	K 766.490 Radial†	28627.1	29065.3	5431.2 ug/L	5431.2 ppb	07:43:46
3	Mg 279.077 IEC†	110.5	119.3	5423.9 ug/L	5423.9 ppb	07:44:06
3	Na 589.592 Radial†	30872.1	34842.4	10111 ug/L	10111 ppb	07:43:46
3	Sr 421.552†	70486.4	77824.1	515.77 ug/L	515.77 ppb	07:43:46
3	Sc 361.383	893209.0	893209.0	99.238 %		07:45:16
3	Y 371.029	743207.8	743207.8	97.477 %		07:45:16
3	Ag 328.068†	107826.4	108424.5	501.06 ug/L	501.06 ppb	07:45:21
3	As 188.979†	1095.2	1124.1	510.90 ug/L	510.90 ppb	07:45:41
3	B 249.677†	19798.4	20323.3	482.75 ug/L	482.75 ppb	07:45:21
3	Ba 233.527†	63262.7	63757.3	499.25 ug/L	499.25 ppb	07:45:21
3	Be 313.107†	1321674.1	1335669.4	498.86 ug/L	498.86 ppb	07:45:16
3	Cd 226.502†	42916.2	43428.8	503.96 ug/L	503.96 ppb	07:45:21
3	Co 228.616†	23684.5	23928.2	500.39 ug/L	500.39 ppb	07:45:21
3	Cr 267.716†	44313.7	44587.8	501.09 ug/L	501.09 ppb	07:45:21
3	Cu 324.752†	167241.1	162447.4	487.83 ug/L	487.83 ppb	07:45:21
3	Mn 257.610†	439476.9	442412.5	496.32 ug/L	496.32 ppb	07:45:16
3	Mo 202.031†	6826.6	6872.9	503.44 ug/L	503.44 ppb	07:45:41
3	Ni 231.604†	19754.9	19854.2	504.35 ug/L	504.35 ppb	07:45:21
3	P 214.914†	4355.4	4186.8	2445.6 ug/L	2445.6 ppb	07:45:41
3	Pb 220.353†	3985.3	4080.9	507.25 ug/L	507.25 ppb	07:45:41
3	S 181.975 Axial†	756.8	725.6	1061.9 ug/L	1061.9 ppb	07:45:41
3	Sb 206.836†	1472.0	1446.7	522.51 ug/L	522.51 ppb	07:45:41
3	Se 196.026†	738.8	765.2	522.17 ug/L	522.17 ppb	07:45:41
3	Si 251.611†	77268.3	77327.1	2474.5 ug/L	2474.5 ppb	07:45:21
3	Sn 189.927†	2807.5	2818.6	510.58 ug/L	510.58 ppb	07:45:41
3	Ti 334.940†	314647.7	318344.0	481.36 ug/L	481.36 ppb	07:45:21
3	Tl 190.801†	1524.0	1566.9	506.09 ug/L	506.09 ppb	07:45:41
3	U 409.014†	14633.4	17562.0	472.83 ug/L	472.83 ppb	07:45:21
3	V 292.402†	69127.8	71088.7	500.21 ug/L	500.21 ppb	07:45:21
3	Zn 213.857†	50232.6	50060.4	497.67 ug/L	497.67 ppb	07:45:21
3	SiO2†	77838.5	77884.3	5337.6 ug/L	5337.6 ppb	07:45:57

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	898028.1	99.774	%	0.4646				0.47%
Sc Radial	3847.2	90.4	%	0.11				0.12%
Y 371.029	747372.8	98.024	%	0.4762				0.49%
Y RADIAL	4336.4	92.42	%	0.585				0.63%
Ag 328.068†	107150.1	495.18	ug/L	5.168	495.18	ppb	5.168	1.04%
QC value within limits for Ag 328.068 Recovery = 99.04%								
Al 396.153Radial†	5892.3	5312.0	ug/L	37.14	5312.0	ppb	37.14	0.70%
QC value within limits for Al 396.153Radial Recovery = 106.24%								
As 188.979†	1123.6	510.61	ug/L	0.262	510.61	ppb	0.262	0.05%
QC value within limits for As 188.979 Recovery = 102.12%								
B 249.677†	20016.0	475.43	ug/L	6.747	475.43	ppb	6.747	1.42%
QC value within limits for B 249.677 Recovery = 95.09%								
Ba 233.527†	63256.4	495.33	ug/L	3.430	495.33	ppb	3.430	0.69%
QC value within limits for Ba 233.527 Recovery = 99.07%								
Be 313.107†	1338752.6	500.00	ug/L	1.024	500.00	ppb	1.024	0.20%
QC value within limits for Be 313.107 Recovery = 100.00%								
Ca 317.933Radial†	2707.0	5385.8	ug/L	8.53	5385.8	ppb	8.53	0.16%

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   QC value within limits for Ca 317.933Radial  Recovery = 107.72%
Cd 226.502†            43200.6      501.31 ug/L        2.297      501.31 ppb          2.297   0.46%
   QC value within limits for Cd 226.502  Recovery = 100.26%
Co 228.616†            23763.8      496.96 ug/L        3.058      496.96 ppb          3.058   0.62%
   QC value within limits for Co 228.616  Recovery = 99.39%
Cr 267.716†            44236.8      497.15 ug/L        3.430      497.15 ppb          3.430   0.69%
   QC value within limits for Cr 267.716  Recovery = 99.43%
Cu 324.752†           160503.1      481.99 ug/L        5.309      481.99 ppb          5.309   1.10%
   QC value within limits for Cu 324.752  Recovery = 96.40%
Fe 238.204 Radial†       400.1      5169.9 ug/L       28.18      5169.9 ppb          28.18   0.55%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.40%
K 766.490 Radial†      28939.2      5407.6 ug/L       44.09      5407.6 ppb          44.09   0.82%
   QC value within limits for K 766.490 Radial  Recovery = 108.15%
Mg 279.077 IEC†          119.5      5430.4 ug/L       45.33      5430.4 ppb          45.33   0.83%
   QC value within limits for Mg 279.077 IEC  Recovery = 108.61%
Mn 257.610†           443067.1      497.05 ug/L        0.815      497.05 ppb          0.815   0.16%
   QC value within limits for Mn 257.610  Recovery = 99.41%
Mo 202.031†             6857.6      502.33 ug/L        1.927      502.33 ppb          1.927   0.38%
   QC value within limits for Mo 202.031  Recovery = 100.47%
Na 589.592 Radial†     34880.2       10122 ug/L         90.0       10122 ppb           90.0   0.89%
   QC value within limits for Na 589.592 Radial  Recovery = 101.22%
Ni 231.604†            19703.9      500.53 ug/L        3.516      500.53 ppb          3.516   0.70%
   QC value within limits for Ni 231.604  Recovery = 100.11%
P 214.914†              4165.8      2434.0 ug/L       22.76      2434.0 ppb          22.76   0.94%
   QC value within limits for P 214.914  Recovery = 97.36%
Pb 220.353†             4096.7      509.20 ug/L        5.284      509.20 ppb          5.284   1.04%
   QC value within limits for Pb 220.353  Recovery = 101.84%
S 181.975 Axial†         727.1      1064.1 ug/L        8.84      1064.1 ppb           8.84   0.83%
   QC value within limits for S 181.975 Axial  Recovery = 106.41%
Sb 206.836†             1444.8      521.84 ug/L        4.563      521.84 ppb          4.563   0.87%
   QC value within limits for Sb 206.836  Recovery = 104.37%
Se 196.026†              759.9      518.61 ug/L        5.024      518.61 ppb          5.024   0.97%
   QC value within limits for Se 196.026  Recovery = 103.72%
Si 251.611†            76594.1      2451.0 ug/L       21.16      2451.0 ppb          21.16   0.86%
   QC value within limits for Si 251.611  Recovery = 98.04%
Sn 189.927†             2817.0      510.29 ug/L        3.761      510.29 ppb          3.761   0.74%
   QC value within limits for Sn 189.927  Recovery = 102.06%
Sr 421.552†            77673.1      514.77 ug/L        4.636      514.77 ppb          4.636   0.90%
   QC value within limits for Sr 421.552  Recovery = 102.95%
Ti 334.940†           315351.0      476.84 ug/L        3.979      476.84 ppb          3.979   0.83%
   QC value within limits for Ti 334.940  Recovery = 95.37%
Tl 190.801†             1567.8      506.36 ug/L        0.784      506.36 ppb          0.784   0.15%
   QC value within limits for Tl 190.801  Recovery = 101.27%
U 409.014†             17361.4      467.42 ug/L        4.685      467.42 ppb          4.685   1.00%
   QC value within limits for U 409.014  Recovery = 93.48%
V 292.402†             70473.1      495.92 ug/L        3.719      495.92 ppb          3.719   0.75%
   QC value within limits for V 292.402  Recovery = 99.18%
Zn 213.857†            49673.9      493.82 ug/L        3.404      493.82 ppb          3.404   0.69%
   QC value within limits for Zn 213.857  Recovery = 98.76%
SiO2†                  77018.8      5278.2 ug/L       72.32      5278.2 ppb          72.32   1.37%
   QC value within limits for SiO2  Recovery = 98.70%
All analyte(s) passed QC.
```

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

Autosampler Location: 8
Date Collected: 2/24/2010 07:48:06
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4046.3	4046.3	95.1	%			07:49:59
1	Y RADIAL	4467.8	4467.8	95.22	%			07:49:59
1	Al 396.153Radial†	-112.9	-7.9	-7.1911	ug/L	-7.1911	ppb	07:49:59
1	Ca 317.933Radial†	21.6	7.2	14.303	ug/L	14.303	ppb	07:50:19
1	Fe 238.204 Radial†	13.1	3.6	45.757	ug/L	45.757	ppb	07:50:19
1	K 766.490 Radial†	2865.2	455.3	85.182	ug/L	85.182	ppb	07:49:59
1	Mg 279.077 IEC†	2.3	-0.3	-15.454	ug/L	-15.454	ppb	07:50:19
1	Na 589.592 Radial†	-820.5	-122.1	-35.444	ug/L	-35.444	ppb	07:49:59
1	Sr 421.552†	64.5	31.0	0.2055	ug/L	0.2055	ppb	07:49:59
1	Sc 361.383	885902.5	885902.5	98.427	%			07:51:16
1	Y 371.029	749245.1	749245.1	98.269	%			07:51:16
1	Ag 328.068†	222.4	-3.4	0.0022	ug/L	0.0022	ppb	07:51:16
1	As 188.979†	-30.4	-10.3	-4.6492	ug/L	-4.6492	ppb	07:51:36
1	B 249.677†	-398.7	-32.1	-0.7743	ug/L	-0.7743	ppb	07:51:36
1	Ba 233.527†	9.2	18.5	0.1442	ug/L	0.1442	ppb	07:51:36
1	Be 313.107†	-3593.5	202.3	0.0745	ug/L	0.0745	ppb	07:51:16
1	Cd 226.502†	-194.0	-13.8	-0.1661	ug/L	-0.1661	ppb	07:51:36
1	Co 228.616†	-55.7	5.4	0.1145	ug/L	0.1145	ppb	07:51:36
1	Cr 267.716†	80.1	15.4	0.1794	ug/L	0.1794	ppb	07:51:36
1	Cu 324.752†	5950.1	-31.9	-0.0885	ug/L	-0.0885	ppb	07:51:16
1	Mn 257.610†	453.0	23.4	0.0314	ug/L	0.0314	ppb	07:51:36
1	Mo 202.031†	17.1	11.3	0.8273	ug/L	0.8273	ppb	07:51:36
1	Ni 231.604†	69.6	18.4	0.4685	ug/L	0.4685	ppb	07:51:36
1	P 214.914†	205.5	6.7	4.0453	ug/L	4.0453	ppb	07:51:36
1	Pb 220.353†	-58.4	5.7	0.6988	ug/L	0.6988	ppb	07:51:36
1	S 181.975 Axial†	47.8	11.5	16.852	ug/L	16.852	ppb	07:51:36
1	Sb 206.836†	32.8	-3.4	-1.1700	ug/L	-1.1700	ppb	07:51:36
1	Se 196.026†	-14.3	6.2	4.2181	ug/L	4.2181	ppb	07:51:36
1	Si 251.611†	586.3	61.6	1.9649	ug/L	1.9649	ppb	07:51:36
1	Sn 189.927†	6.6	-3.7	-0.6681	ug/L	-0.6681	ppb	07:51:36
1	Ti 334.940†	-1512.1	-254.4	-0.3777	ug/L	-0.3777	ppb	07:51:16
1	Tl 190.801†	-27.8	2.9	0.9396	ug/L	0.9396	ppb	07:51:36
1	U 409.014†	-3100.3	-333.6	-9.0187	ug/L	-9.0187	ppb	07:51:16
1	V 292.402†	-1528.3	-122.3	-0.8610	ug/L	-0.8610	ppb	07:51:16
1	Zn 213.857†	574.8	26.3	0.2542	ug/L	0.2542	ppb	07:51:36
1	SiO2†	614.8	73.1	5.0022	ug/L	5.0022	ppb	07:52:32
2	Sc Radial	4082.3	4082.3	96.0	%			07:50:24
2	Y RADIAL	4514.6	4514.6	96.22	%			07:50:24
2	Al 396.153Radial†	-109.7	-3.5	-3.1860	ug/L	-3.1860	ppb	07:50:24
2	Ca 317.933Radial†	18.0	3.2	6.4593	ug/L	6.4593	ppb	07:50:44
2	Fe 238.204 Radial†	11.7	2.1	26.420	ug/L	26.420	ppb	07:50:44
2	K 766.490 Radial†	2980.3	548.5	102.63	ug/L	102.63	ppb	07:50:24
2	Mg 279.077 IEC†	2.6	-0.1	-3.5029	ug/L	-3.5029	ppb	07:50:44
2	Na 589.592 Radial†	-834.8	-129.5	-37.574	ug/L	-37.574	ppb	07:50:24
2	Sr 421.552†	71.0	37.2	0.2462	ug/L	0.2462	ppb	07:50:24
2	Sc 361.383	889783.9	889783.9	98.858	%			07:51:41
2	Y 371.029	751614.8	751614.8	98.580	%			07:51:41
2	Ag 328.068†	216.0	-10.8	-0.0404	ug/L	-0.0404	ppb	07:51:41
2	As 188.979†	-18.2	2.1	0.9504	ug/L	0.9504	ppb	07:52:01
2	B 249.677†	-426.7	-58.6	-1.4032	ug/L	-1.4032	ppb	07:52:01
2	Ba 233.527†	12.1	21.4	0.1662	ug/L	0.1662	ppb	07:52:01
2	Be 313.107†	-3756.1	53.8	0.0194	ug/L	0.0194	ppb	07:51:41
2	Cd 226.502†	-190.2	-9.1	-0.1089	ug/L	-0.1089	ppb	07:52:01
2	Co 228.616†	-71.9	-10.8	-0.2249	ug/L	-0.2249	ppb	07:52:01
2	Cr 267.716†	66.3	1.1	0.0155	ug/L	0.0155	ppb	07:52:01
2	Cu 324.752†	6074.2	67.3	0.2060	ug/L	0.2060	ppb	07:51:41
2	Mn 257.610†	488.9	57.8	0.0675	ug/L	0.0675	ppb	07:52:01
2	Mo 202.031†	9.7	3.7	0.2747	ug/L	0.2747	ppb	07:52:01
2	Ni 231.604†	68.1	16.6	0.4216	ug/L	0.4216	ppb	07:52:01

2	P 214.914†	210.4	10.8	6.5011 ug/L	6.5011 ppb	07:52:01
2	Pb 220.353†	-58.7	5.7	0.6980 ug/L	0.6980 ppb	07:52:01
2	S 181.975 Axial†	56.0	19.6	28.662 ug/L	28.662 ppb	07:52:01
2	Sb 206.836†	41.8	5.6	1.9709 ug/L	1.9709 ppb	07:52:01
2	Se 196.026†	-30.4	-10.1	-6.5661 ug/L	-6.5661 ppb	07:52:01
2	Si 251.611†	611.9	84.8	2.7166 ug/L	2.7166 ppb	07:52:01
2	Sn 189.927†	14.9	4.6	0.8314 ug/L	0.8314 ppb	07:52:01
2	Ti 334.940†	-1443.7	-178.6	-0.2670 ug/L	-0.2670 ppb	07:51:41
2	Tl 190.801†	-33.6	-2.8	-0.8877 ug/L	-0.8877 ppb	07:52:01
2	U 409.014†	-2953.1	-170.9	-4.6218 ug/L	-4.6218 ppb	07:51:41
2	V 292.402†	-1504.6	-91.5	-0.6442 ug/L	-0.6442 ppb	07:51:41
2	Zn 213.857†	561.3	10.1	0.0940 ug/L	0.0940 ppb	07:52:01
2	SiO2†	642.1	98.0	6.7293 ug/L	6.7293 ppb	07:52:37
3	Sc Radial	3946.8	3946.8	92.8 %		07:50:49
3	Y RADIAL	4396.9	4396.9	93.71 %		07:50:49
3	Al 396.153Radial†	-99.1	4.0	3.5845 ug/L	3.5845 ppb	07:50:49
3	Ca 317.933Radial†	27.9	14.6	29.123 ug/L	29.123 ppb	07:51:09
3	Fe 238.204 Radial†	9.2	-0.3	-3.8675 ug/L	-3.8675 ppb	07:51:09
3	K 766.490 Radial†	2994.1	670.0	125.38 ug/L	125.38 ppb	07:50:49
3	Mg 279.077 IEC†	3.8	1.4	62.848 ug/L	62.848 ppb	07:51:09
3	Na 589.592 Radial†	-967.0	-301.8	-87.571 ug/L	-87.571 ppb	07:50:49
3	Sr 421.552†	34.2	0.1	0.0003 ug/L	0.0003 ppb	07:50:49
3	Sc 361.383	881488.8	881488.8	97.936 %		07:52:06
3	Y 371.029	745084.3	745084.3	97.723 %		07:52:06
3	Ag 328.068†	224.3	-0.3	0.0008 ug/L	0.0008 ppb	07:52:06
3	As 188.979†	-29.8	-9.9	-4.4730 ug/L	-4.4730 ppb	07:52:26
3	B 249.677†	-388.5	-23.7	-0.5665 ug/L	-0.5665 ppb	07:52:26
3	Ba 233.527†	17.9	27.4	0.2125 ug/L	0.2125 ppb	07:52:26
3	Be 313.107†	-3569.7	208.4	0.0770 ug/L	0.0770 ppb	07:52:06
3	Cd 226.502†	-182.6	-3.1	-0.0375 ug/L	-0.0375 ppb	07:52:26
3	Co 228.616†	-51.4	9.5	0.2008 ug/L	0.2008 ppb	07:52:26
3	Cr 267.716†	61.0	-3.7	-0.0393 ug/L	-0.0393 ppb	07:52:26
3	Cu 324.752†	6017.9	67.6	0.2073 ug/L	0.2073 ppb	07:52:06
3	Mn 257.610†	477.1	50.3	0.0534 ug/L	0.0534 ppb	07:52:26
3	Mo 202.031†	19.3	13.6	0.9975 ug/L	0.9975 ppb	07:52:26
3	Ni 231.604†	60.9	9.9	0.2507 ug/L	0.2507 ppb	07:52:26
3	P 214.914†	202.0	4.2	2.5072 ug/L	2.5072 ppb	07:52:26
3	Pb 220.353†	-73.0	-9.5	-1.1721 ug/L	-1.1721 ppb	07:52:26
3	S 181.975 Axial†	48.4	12.4	18.114 ug/L	18.114 ppb	07:52:26
3	Sb 206.836†	36.8	0.9	0.3324 ug/L	0.3324 ppb	07:52:26
3	Se 196.026†	-23.7	-3.5	-2.2859 ug/L	-2.2859 ppb	07:52:26
3	Si 251.611†	586.2	64.4	2.0546 ug/L	2.0546 ppb	07:52:26
3	Sn 189.927†	12.3	2.2	0.3989 ug/L	0.3989 ppb	07:52:26
3	Ti 334.940†	-1441.9	-190.5	-0.2857 ug/L	-0.2857 ppb	07:52:06
3	Tl 190.801†	-26.4	4.3	1.3749 ug/L	1.3749 ppb	07:52:26
3	U 409.014†	-3055.0	-303.1	-8.1886 ug/L	-8.1886 ppb	07:52:06
3	V 292.402†	-1500.5	-101.6	-0.7051 ug/L	-0.7051 ppb	07:52:06
3	Zn 213.857†	576.0	30.4	0.3042 ug/L	0.3042 ppb	07:52:26
3	SiO2†	642.3	104.4	7.1438 ug/L	7.1438 ppb	07:52:42

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	885725.1	98.407	%	0.4611				0.47%
Sc Radial	4025.1	94.6	%	1.65				1.74%
Y 371.029	748648.1	98.191	%	0.4336				0.44%
Y RADIAL	4459.8	95.05	%	1.263				1.33%
Ag 328.068†	-4.8	-0.0125	ug/L	0.02418	-0.0125	ppb	0.02418	193.63%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-2.5	-2.2642	ug/L	5.44658	-2.2642	ppb	5.44658	240.55%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-6.0	-2.7239	ug/L	3.18326	-2.7239	ppb	3.18326	116.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-38.2	-0.9147	ug/L	0.43562	-0.9147	ppb	0.43562	47.63%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	22.4	0.1743	ug/L	0.03484	0.1743	ppb	0.03484	19.99%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	154.8	0.0570	ug/L	0.03255	0.0570	ppb	0.03255	57.12%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.4	16.629	ug/L	11.5096	16.629	ppb	11.5096	69.22%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -8.7     -0.1042 ug/L       0.06443     -0.1042 ppb        0.06443  61.83%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               1.3      0.0301 ug/L       0.22504      0.0301 ppb        0.22504 747.06%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               4.3      0.0519 ug/L       0.11382      0.0519 ppb        0.11382 219.42%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              34.3      0.1083 ug/L       0.17038      0.1083 ppb        0.17038 157.36%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        1.8     22.770 ug/L       25.0129     22.770 ppb        25.0129 109.85%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       557.9     104.40 ug/L        20.155     104.40 ppb         20.155  19.31%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           0.3     14.630 ug/L       42.1830     14.630 ppb        42.1830 288.32%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              43.8      0.0508 ug/L       0.01820      0.0508 ppb        0.01820  35.84%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               9.5      0.6998 ug/L       0.37791      0.6998 ppb        0.37791  54.00%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†     -184.5    -53.530 ug/L       29.5002    -53.530 ppb        29.5002  55.11%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              15.0      0.3803 ug/L       0.11463      0.3803 ppb        0.11463  30.14%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                7.2      4.3512 ug/L       2.01444      4.3512 ppb        2.01444  46.30%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               0.6      0.0749 ug/L       1.07991      0.0749 ppb        1.07991 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†         14.5     21.209 ug/L        6.4852     21.209 ppb         6.4852  30.58%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               1.0      0.3777 ug/L       1.57093      0.3777 ppb        1.57093 415.88%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -2.5     -1.5446 ug/L       5.43017     -1.5446 ppb        5.43017 351.55%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              70.3      2.2454 ug/L       0.41055      2.2454 ppb        0.41055  18.28%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               1.0      0.1874 ug/L       0.77178      0.1874 ppb        0.77178 411.78%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              22.8      0.1507 ug/L       0.13180      0.1507 ppb        0.13180  87.47%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†            -207.8     -0.3101 ug/L       0.05930     -0.3101 ppb        0.05930  19.12%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               1.5      0.4756 ug/L       1.20051      0.4756 ppb        1.20051 252.42%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†             -269.2     -7.2764 ug/L       2.33607     -7.2764 ppb        2.33607  32.10%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†             -105.1     -0.7368 ug/L       0.11184     -0.7368 ppb        0.11184  15.18%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              22.3      0.2175 ug/L       0.10984      0.2175 ppb        0.10984  50.51%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    91.8      6.2917 ug/L       1.13587      6.2917 ppb        1.13587  18.05%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Analysis Begun

Start Time: 2/24/2010 08:48:43
Logged In Analyst: Optima3
Spectrometer Model: Optima 5300 DV, S/N 077C7090601

Plasma On Time: 2/22/2010 05:55:10
Technique: ICP Continuous
Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\022310I.SIF
Batch ID:
Results Data Set: 022310A
Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1
Sample ID: 245806001|948071|2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 2/24/2010 08:48:44
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245806001|948071|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	4011.7	4011.7	94.3	%			08:50:58
1	Y RADIAL	5015.2	5015.2	106.9	%			08:50:38
1	Al 396.153Radial†	27321.5	29079.3	26336	ug/L	26336	ppb	08:50:38
1	Ca 317.933Radial†	5516.3	5833.3	11606	ug/L	11606	ppb	08:50:38
1	Fe 238.204 Radial†	3229.8	3414.3	43988	ug/L	43988	ppb	08:50:58
1	K 766.490 Radial†	21177.2	19897.0	3718.1	ug/L	3718.1	ppb	08:50:38
1	Mg 279.077 IEC†	108.4	112.2	5051.6	ug/L	5051.6	ppb	08:50:58
1	Na 589.592 Radial†	603.8	1380.5	400.63	ug/L	400.63	ppb	08:50:38
1	Sr 421.552†	12050.2	12739.9	84.351	ug/L	84.351	ppb	08:50:38
1	Sc 361.383	921015.0	921015.0	102.33	%			08:51:56
1	Y 371.029	840622.7	840622.7	110.25	%			08:51:56
1	Ag 328.068†	-2583.4	-2753.9	0.8139	ug/L	0.8139	ppb	08:51:56
1	As 188.979†	-9.7	11.1	22.327	ug/L	22.327	ppb	08:52:16
1	B 249.677†	576.5	936.3	15.167	ug/L	15.167	ppb	08:51:56
1	Ba 233.527†	35373.1	34577.6	271.57	ug/L	271.57	ppb	08:51:56
1	Be 313.107†	3839.1	7605.1	4.6764	ug/L	4.6764	ppb	08:51:56
1	Cd 226.502†	217.3	395.7	0.1099	ug/L	0.1099	ppb	08:52:16
1	Co 228.616†	536.0	585.7	10.018	ug/L	10.018	ppb	08:52:16
1	Cr 267.716†	5024.7	4844.4	58.530	ug/L	58.530	ppb	08:52:16
1	Cu 324.752†	125179.8	116255.0	351.32	ug/L	351.32	ppb	08:51:56
1	Mn 257.610†	818912.5	799846.6	900.91	ug/L	900.91	ppb	08:51:56
1	Mo 202.031†	13.8	7.4	4.0924	ug/L	4.0924	ppb	08:52:16
1	Ni 231.604†	1484.6	1398.5	35.540	ug/L	35.540	ppb	08:52:16
1	P 214.914†	859.1	637.6	288.59	ug/L	288.59	ppb	08:52:16
1	Pb 220.353†	883.9	928.8	115.78	ug/L	115.78	ppb	08:52:16
1	S 181.975 Axial†	147.8	107.4	152.37	ug/L	152.37	ppb	08:52:16
1	Sb 206.836†	48.6	10.8	0.0018	ug/L	0.0018	ppb	08:52:16
1	Se 196.026†	-218.9	-193.3	9.5277	ug/L	9.5277	ppb	08:52:16
1	Si 251.611†	613045.4	598565.3	19202	ug/L	19202	ppb	08:51:56
1	Sn 189.927†	-29.9	-39.7	-7.6435	ug/L	-7.6435	ppb	08:52:16
1	Ti 334.940†	547694.4	536516.9	812.48	ug/L	812.48	ppb	08:51:56
1	Tl 190.801†	-71.0	-38.2	-1.4135	ug/L	-1.4135	ppb	08:52:16
1	U 409.014†	4576.1	7288.2	191.80	ug/L	191.80	ppb	08:51:56
1	V 292.402†	7970.7	9219.8	57.207	ug/L	57.207	ppb	08:51:56
1	Zn 213.857†	17749.6	16788.1	161.17	ug/L	161.17	ppb	08:51:56
1	SiO2†	608339.4	593949.0	40809	ug/L	40809	ppb	08:53:13
2	Sc Radial	4044.0	4044.0	95.1	%			08:51:23
2	Y RADIAL	4963.9	4963.9	105.8	%			08:51:03
2	Al 396.153Radial†	27374.0	28903.4	26176	ug/L	26176	ppb	08:51:03
2	Ca 317.933Radial†	5551.5	5823.7	11587	ug/L	11587	ppb	08:51:03
2	Fe 238.204 Radial†	3266.5	3425.6	44133	ug/L	44133	ppb	08:51:23
2	K 766.490 Radial†	21113.9	19651.4	3672.1	ug/L	3672.1	ppb	08:51:03
2	Mg 279.077 IEC†	110.7	113.7	5122.9	ug/L	5122.9	ppb	08:51:23
2	Na 589.592 Radial†	587.4	1358.2	394.15	ug/L	394.15	ppb	08:51:03
2	Sr 421.552†	12045.5	12632.9	83.643	ug/L	83.643	ppb	08:51:03
2	Sc 361.383	913403.8	913403.8	101.48	%			08:52:21
2	Y 371.029	833921.7	833921.7	109.38	%			08:52:21

2	Ag 328.068†	-2514.2	-2706.8	1.0765 ug/L	1.0765 ppb	08:52:21
2	As 188.979†	-14.3	6.5	20.287 ug/L	20.287 ppb	08:52:42
2	B 249.677†	571.8	936.4	15.145 ug/L	15.145 ppb	08:52:21
2	Ba 233.527†	35077.2	34574.0	271.54 ug/L	271.54 ppb	08:52:21
2	Be 313.107†	3727.9	7526.7	4.6471 ug/L	4.6471 ppb	08:52:21
2	Cd 226.502†	212.1	392.3	0.0559 ug/L	0.0559 ppb	08:52:42
2	Co 228.616†	539.9	594.0	10.189 ug/L	10.189 ppb	08:52:42
2	Cr 267.716†	5006.4	4867.3	58.801 ug/L	58.801 ppb	08:52:42
2	Cu 324.752†	124383.2	116489.4	352.03 ug/L	352.03 ppb	08:52:21
2	Mn 257.610†	812005.0	799708.5	900.77 ug/L	900.77 ppb	08:52:21
2	Mo 202.031†	19.1	12.7	4.4944 ug/L	4.4944 ppb	08:52:42
2	Ni 231.604†	1488.6	1414.5	35.947 ug/L	35.947 ppb	08:52:42
2	P 214.914†	862.9	648.3	294.81 ug/L	294.81 ppb	08:52:42
2	Pb 220.353†	890.4	942.4	117.42 ug/L	117.42 ppb	08:52:42
2	S 181.975 Axial†	161.5	122.1	174.03 ug/L	174.03 ppb	08:52:42
2	Sb 206.836†	50.3	12.8	0.7174 ug/L	0.7174 ppb	08:52:42
2	Se 196.026†	-224.8	-200.8	4.9888 ug/L	4.9888 ppb	08:52:42
2	Si 251.611†	608209.0	598791.6	19209 ug/L	19209 ppb	08:52:21
2	Sn 189.927†	-28.4	-38.4	-7.4240 ug/L	-7.4240 ppb	08:52:42
2	Ti 334.940†	543135.4	536484.5	812.42 ug/L	812.42 ppb	08:52:21
2	Tl 190.801†	-69.2	-37.0	-1.0150 ug/L	-1.0150 ppb	08:52:42
2	U 409.014†	4451.7	7202.9	189.47 ug/L	189.47 ppb	08:52:21
2	V 292.402†	7888.7	9203.9	57.077 ug/L	57.077 ppb	08:52:21
2	Zn 213.857†	17642.8	16827.4	161.54 ug/L	161.54 ppb	08:52:21
2	SiO2†	611490.6	602008.0	41363 ug/L	41363 ppb	08:53:19
3	Sc Radial	3997.3	3997.3	94.0 %		08:51:48
3	Y RADIAL	4920.4	4920.4	104.9 %		08:51:28
3	Al 396.153Radial†	27359.9	29224.4	26467 ug/L	26467 ppb	08:51:28
3	Ca 317.933Radial†	5507.6	5845.1	11629 ug/L	11629 ppb	08:51:28
3	Fe 238.204 Radial†	3241.2	3438.7	44303 ug/L	44303 ppb	08:51:48
3	K 766.490 Radial†	21127.1	19924.5	3723.2 ug/L	3723.2 ppb	08:51:28
3	Mg 279.077 IEC†	112.6	117.0	5272.4 ug/L	5272.4 ppb	08:51:48
3	Na 589.592 Radial†	541.2	1316.2	381.98 ug/L	381.98 ppb	08:51:28
3	Sr 421.552†	11949.3	12678.4	83.944 ug/L	83.944 ppb	08:51:28
3	Sc 361.383	903988.3	903988.3	100.44 %		08:52:47
3	Y 371.029	827293.1	827293.1	108.51 %		08:52:47
3	Ag 328.068†	-2468.9	-2687.5	1.2171 ug/L	1.2171 ppb	08:52:47
3	As 188.979†	-23.5	-2.9	16.115 ug/L	16.115 ppb	08:53:07
3	B 249.677†	521.6	892.3	14.064 ug/L	14.064 ppb	08:52:47
3	Ba 233.527†	34845.4	34703.2	272.56 ug/L	272.56 ppb	08:52:47
3	Be 313.107†	3698.8	7536.0	4.6540 ug/L	4.6540 ppb	08:52:47
3	Cd 226.502†	198.5	381.0	-0.0934 ug/L	-0.0934 ppb	08:53:07
3	Co 228.616†	543.7	603.2	10.378 ug/L	10.378 ppb	08:53:07
3	Cr 267.716†	5007.3	4919.5	59.403 ug/L	59.403 ppb	08:53:07
3	Cu 324.752†	123332.2	116719.6	352.74 ug/L	352.74 ppb	08:52:47
3	Mn 257.610†	804543.4	800613.2	901.79 ug/L	901.79 ppb	08:52:47
3	Mo 202.031†	22.6	16.4	4.7768 ug/L	4.7768 ppb	08:53:07
3	Ni 231.604†	1491.2	1432.4	36.400 ug/L	36.400 ppb	08:53:07
3	P 214.914†	861.4	655.6	299.08 ug/L	299.08 ppb	08:53:07
3	Pb 220.353†	891.6	952.7	118.74 ug/L	118.74 ppb	08:53:07
3	S 181.975 Axial†	154.5	116.8	166.20 ug/L	166.20 ppb	08:53:07
3	Sb 206.836†	56.2	19.3	2.9674 ug/L	2.9674 ppb	08:53:07
3	Se 196.026†	-224.6	-202.9	4.1282 ug/L	4.1282 ppb	08:53:07
3	Si 251.611†	602180.5	599031.7	19217 ug/L	19217 ppb	08:52:47
3	Sn 189.927†	-27.3	-37.6	-7.2757 ug/L	-7.2757 ppb	08:53:07
3	Ti 334.940†	538529.0	537472.5	813.91 ug/L	813.91 ppb	08:52:47
3	Tl 190.801†	-88.2	-56.6	-7.3179 ug/L	-7.3179 ppb	08:53:07
3	U 409.014†	4395.5	7192.7	189.18 ug/L	189.18 ppb	08:52:47
3	V 292.402†	7804.2	9200.8	57.035 ug/L	57.035 ppb	08:52:47
3	Zn 213.857†	17455.9	16822.4	161.46 ug/L	161.46 ppb	08:52:47
3	SiO2†	607968.0	604776.6	41553 ug/L	41553 ppb	08:53:24

2 2/26/10

Mean Data: 245806001|948071|2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	912802.4	101.42	%	0.948				0.93%
Sc Radial	4017.7	94.5	%	0.56				0.59%
Y 371.029	833945.8	109.38	%	0.874				0.80%
Y RADIAL	4966.5	105.8	%	1.01				0.96%
Ag 328.068†	-2716.1	1.0358	ug/L	0.20465	1.0358	ppb	0.20465	19.76%

Al 396.153Radial†	29069.0	26326	ug/L	145.6	26326	ppb	145.6	0.55%
As 188.979†	4.9	19.576	ug/L	3.1665	19.576	ppb	3.1665	16.18%
B 249.677†	921.7	14.792	ug/L	0.6305	14.792	ppb	0.6305	4.26%
Ba 233.527†	34618.3	271.89	ug/L	0.579	271.89	ppb	0.579	0.21%
Be 313.107†	7555.9	4.6591	ug/L	0.01533	4.6591	ppb	0.01533	0.33%
Ca 317.933Radial†	5834.0	11607	ug/L	21.4	11607	ppb	21.4	0.18%
Cd 226.502†	389.6	0.0241	ug/L	0.10529	0.0241	ppb	0.10529	436.07%
Co 228.616†	594.3	10.195	ug/L	0.1802	10.195	ppb	0.1802	1.77%
Cr 267.716†	4877.1	58.911	ug/L	0.4470	58.911	ppb	0.4470	0.76%
Cu 324.752†	116488.0	352.03	ug/L	0.707	352.03	ppb	0.707	0.20%
Fe 238.204 Radial†	3426.2	44141	ug/L	157.5	44141	ppb	157.5	0.36%
K 766.490 Radial†	19824.3	3704.5	ug/L	28.13	3704.5	ppb	28.13	0.76%
Mg 279.077 IEC†	114.3	5149.0	ug/L	112.68	5149.0	ppb	112.68	2.19%
Mn 257.610†	800056.1	901.16	ug/L	0.555	901.16	ppb	0.555	0.06%
Mo 202.031†	12.2	4.4545	ug/L	0.34396	4.4545	ppb	0.34396	7.72%
Na 589.592 Radial†	1351.6	392.25	ug/L	9.469	392.25	ppb	9.469	2.41%
Ni 231.604†	1415.1	35.962	ug/L	0.4301	35.962	ppb	0.4301	1.20%
P 214.914†	647.2	294.16	ug/L	5.270	294.16	ppb	5.270	1.79%
Pb 220.353†	941.3	117.31	ug/L	1.480	117.31	ppb	1.480	1.26%
S 181.975 Axial†	115.5	164.20	ug/L	10.969	164.20	ppb	10.969	6.68%
Sb 206.836†	14.3	1.2289	ug/L	1.54758	1.2289	ppb	1.54758	125.93%
Se 196.026†	-199.0	6.2149	ug/L	2.90106	6.2149	ppb	2.90106	46.68%
Si 251.611†	598796.2	19209	ug/L	7.5	19209	ppb	7.5	0.04%
Sn 189.927†	-38.6	-7.4477	ug/L	0.18502	-7.4477	ppb	0.18502	2.48%
Sr 421.552†	12683.7	83.979	ug/L	0.3556	83.979	ppb	0.3556	0.42%
Ti 334.940†	536824.6	812.94	ug/L	0.843	812.94	ppb	0.843	0.10%
Tl 190.801†	-43.9	-3.2488	ug/L	3.52959	-3.2488	ppb	3.52959	108.64%
U 409.014†	7227.9	190.15	ug/L	1.434	190.15	ppb	1.434	0.75%
V 292.402†	9208.2	57.106	ug/L	0.0893	57.106	ppb	0.0893	0.16%
Zn 213.857†	16812.6	161.39	ug/L	0.194	161.39	ppb	0.194	0.12%
SiO2†	600244.5	41242	ug/L	386.5	41242	ppb	386.5	0.94%

Sequence No.: 2
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/24/2010 08:55:36
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3844.7	3844.7	90.4	%			08:57:49
1	Y RADIAL	4256.5	4256.5	90.72	%			08:57:29
1	Al 396.153Radial†	5359.4	6040.1	5445.9	ug/L	5445.9	ppb	08:57:29
1	Ca 317.933Radial†	2499.4	2749.7	5470.9	ug/L	5470.9	ppb	08:57:49
1	Fe 238.204 Radial†	383.5	414.1	5349.4	ug/L	5349.4	ppb	08:57:49
1	K 766.490 Radial†	29075.8	29611.0	5532.9	ug/L	5532.9	ppb	08:57:29
1	Mg 279.077 IEC†	106.3	114.9	5220.6	ug/L	5220.6	ppb	08:57:49
1	Na 589.592 Radial†	33441.9	37738.4	10952	ug/L	10952	ppb	08:57:29
1	Sr 421.552†	74200.7	82054.5	543.81	ug/L	543.81	ppb	08:57:29
1	Sc 361.383	891251.1	891251.1	99.021	%			08:58:46
1	Y 371.029	743852.0	743852.0	97.562	%			08:58:46
1	Ag 328.068†	106824.0	107650.9	497.54	ug/L	497.54	ppb	08:58:51
1	As 188.979†	1081.3	1112.5	505.68	ug/L	505.68	ppb	08:59:11
1	B 249.677†	19378.9	19943.5	473.67	ug/L	473.67	ppb	08:58:51
1	Ba 233.527†	62648.6	63277.2	495.50	ug/L	495.50	ppb	08:58:51
1	Be 313.107†	1320981.1	1337895.3	499.68	ug/L	499.68	ppb	08:58:46
1	Cd 226.502†	42298.2	42899.7	497.80	ug/L	497.80	ppb	08:58:51
1	Co 228.616†	23449.9	23743.7	496.53	ug/L	496.53	ppb	08:58:51
1	Cr 267.716†	43807.2	44174.3	496.47	ug/L	496.47	ppb	08:58:51
1	Cu 324.752†	166018.2	161582.6	485.23	ug/L	485.23	ppb	08:58:51
1	Mn 257.610†	437519.4	441408.5	495.21	ug/L	495.21	ppb	08:58:46
1	Mo 202.031†	6791.6	6852.7	501.98	ug/L	501.98	ppb	08:59:11
1	Ni 231.604†	19505.9	19646.5	499.07	ug/L	499.07	ppb	08:58:51
1	P 214.914†	4275.2	4115.5	2402.6	ug/L	2402.6	ppb	08:59:11
1	Pb 220.353†	3965.2	4069.4	505.84	ug/L	505.84	ppb	08:59:11
1	S 181.975 Axial†	726.0	696.1	1018.8	ug/L	1018.8	ppb	08:59:11
1	Sb 206.836†	1437.7	1415.2	511.42	ug/L	511.42	ppb	08:59:11
1	Se 196.026†	729.6	757.5	517.55	ug/L	517.55	ppb	08:59:11
1	Si 251.611†	76478.0	76700.0	2454.4	ug/L	2454.4	ppb	08:58:51
1	Sn 189.927†	2767.0	2783.9	504.31	ug/L	504.31	ppb	08:59:11
1	Ti 334.940†	312130.9	316498.9	478.60	ug/L	478.60	ppb	08:58:51
1	Tl 190.801†	1506.1	1552.2	501.35	ug/L	501.35	ppb	08:59:11
1	U 409.014†	14756.0	17718.2	477.04	ug/L	477.04	ppb	08:58:51
1	V 292.402†	68671.5	70780.9	498.04	ug/L	498.04	ppb	08:58:51
1	Zn 213.857†	49683.3	49616.8	493.23	ug/L	493.23	ppb	08:58:51
1	SiO2†	78418.4	78642.2	5389.7	ug/L	5389.7	ppb	09:00:19
2	Sc Radial	3946.8	3946.8	92.8	%			08:58:14
2	Y RADIAL	4406.1	4406.1	93.91	%			08:57:54
2	Al 396.153Radial†	5276.1	5796.9	5225.5	ug/L	5225.5	ppb	08:57:54
2	Ca 317.933Radial†	2515.1	2695.1	5362.2	ug/L	5362.2	ppb	08:58:14
2	Fe 238.204 Radial†	382.0	401.5	5187.5	ug/L	5187.5	ppb	08:58:14
2	K 766.490 Radial†	28530.2	28190.9	5267.5	ug/L	5267.5	ppb	08:57:54
2	Mg 279.077 IEC†	115.9	122.2	5552.7	ug/L	5552.7	ppb	08:58:14
2	Na 589.592 Radial†	32409.4	35668.8	10351	ug/L	10351	ppb	08:57:54
2	Sr 421.552†	72305.7	77889.0	516.20	ug/L	516.20	ppb	08:57:54
2	Sc 361.383	889514.3	889514.3	98.828	%			08:59:17
2	Y 371.029	742567.5	742567.5	97.393	%			08:59:17
2	Ag 328.068†	106632.4	107667.6	497.57	ug/L	497.57	ppb	08:59:22
2	As 188.979†	1098.4	1132.0	514.41	ug/L	514.41	ppb	08:59:42
2	B 249.677†	19413.9	20017.1	475.47	ug/L	475.47	ppb	08:59:22
2	Ba 233.527†	62305.7	63053.8	493.75	ug/L	493.75	ppb	08:59:22
2	Be 313.107†	1320060.9	1339569.0	500.31	ug/L	500.31	ppb	08:59:17
2	Cd 226.502†	42185.4	42869.0	497.46	ug/L	497.46	ppb	08:59:22
2	Co 228.616†	23244.2	23581.8	493.15	ug/L	493.15	ppb	08:59:22
2	Cr 267.716†	43717.9	44170.3	496.41	ug/L	496.41	ppb	08:59:22
2	Cu 324.752†	165772.0	161660.8	485.47	ug/L	485.47	ppb	08:59:22
2	Mn 257.610†	436106.8	440841.8	494.55	ug/L	494.55	ppb	08:59:17
2	Mo 202.031†	6815.8	6890.6	504.74	ug/L	504.74	ppb	08:59:42
2	Ni 231.604†	19419.5	19597.5	497.83	ug/L	497.83	ppb	08:59:22

2	P 214.914†	4286.3	4135.1	2414.6	ug/L	2414.6 ppb	08:59:42
2	Pb 220.353†	3967.5	4079.5	507.07	ug/L	507.07 ppb	08:59:42
2	S 181.975 Axial†	730.0	701.7	1026.9	ug/L	1026.9 ppb	08:59:42
2	Sb 206.836†	1448.7	1429.2	516.37	ug/L	516.37 ppb	08:59:42
2	Se 196.026†	741.8	771.3	526.14	ug/L	526.14 ppb	08:59:42
2	Si 251.611†	76227.2	76597.1	2451.0	ug/L	2451.0 ppb	08:59:22
2	Sn 189.927†	2768.0	2790.4	505.47	ug/L	505.47 ppb	08:59:42
2	Ti 334.940†	311066.9	316037.7	477.87	ug/L	477.87 ppb	08:59:22
2	Tl 190.801†	1521.2	1570.4	507.22	ug/L	507.22 ppb	08:59:42
2	U 409.014†	14419.1	17406.4	468.63	ug/L	468.63 ppb	08:59:22
2	V 292.402†	68466.9	70709.3	497.60	ug/L	497.60 ppb	08:59:22
2	Zn 213.857†	49430.8	49459.3	491.68	ug/L	491.68 ppb	08:59:22
2	SiO2†	78372.8	78750.7	5397.1	ug/L	5397.1 ppb	09:00:24
3	Sc Radial	3880.2	3880.2	91.2	%		08:58:39
3	Y RADIAL	4399.2	4399.2	93.76	%		08:58:19
3	Al 396.153Radial†	5256.3	5872.8	5294.2	ug/L	5294.2 ppb	08:58:19
3	Ca 317.933Radial†	2489.4	2713.4	5398.6	ug/L	5398.6 ppb	08:58:39
3	Fe 238.204 Radial†	378.5	404.7	5228.7	ug/L	5228.7 ppb	08:58:39
3	K 766.490 Radial†	28608.3	28804.5	5382.2	ug/L	5382.2 ppb	08:58:19
3	Mg 279.077 IEC†	110.5	118.4	5380.6	ug/L	5380.6 ppb	08:58:39
3	Na 589.592 Radial†	32656.4	36539.2	10604	ug/L	10604 ppb	08:58:19
3	Sr 421.552†	72270.0	79187.6	524.80	ug/L	524.80 ppb	08:58:19
3	Sc 361.383	882848.2	882848.2	98.087	%		08:59:48
3	Y 371.029	739137.4	739137.4	96.943	%		08:59:48
3	Ag 328.068†	107987.1	109863.4	507.70	ug/L	507.70 ppb	08:59:53
3	As 188.979†	1074.1	1115.6	507.10	ug/L	507.10 ppb	09:00:13
3	B 249.677†	19746.4	20504.4	487.06	ug/L	487.06 ppb	08:59:53
3	Ba 233.527†	63076.9	64316.0	503.64	ug/L	503.64 ppb	08:59:53
3	Be 313.107†	1315633.4	1345140.7	502.41	ug/L	502.41 ppb	08:59:48
3	Cd 226.502†	42679.8	43695.3	507.06	ug/L	507.06 ppb	08:59:53
3	Co 228.616†	23534.8	24055.6	503.04	ug/L	503.04 ppb	08:59:53
3	Cr 267.716†	44371.8	45171.0	507.65	ug/L	507.65 ppb	08:59:53
3	Cu 324.752†	167851.2	165047.0	495.63	ug/L	495.63 ppb	08:59:53
3	Mn 257.610†	433719.9	441740.3	495.57	ug/L	495.57 ppb	08:59:48
3	Mo 202.031†	6786.1	6912.3	506.33	ug/L	506.33 ppb	09:00:13
3	Ni 231.604†	19680.1	20011.5	508.35	ug/L	508.35 ppb	08:59:53
3	P 214.914†	4256.8	4137.8	2414.2	ug/L	2414.2 ppb	09:00:13
3	Pb 220.353†	3956.5	4098.7	509.44	ug/L	509.44 ppb	09:00:13
3	S 181.975 Axial†	729.5	706.7	1034.3	ug/L	1034.3 ppb	09:00:13
3	Sb 206.836†	1440.0	1431.4	517.21	ug/L	517.21 ppb	09:00:13
3	Se 196.026†	733.4	768.4	524.36	ug/L	524.36 ppb	09:00:13
3	Si 251.611†	77186.6	78157.5	2501.1	ug/L	2501.1 ppb	08:59:53
3	Sn 189.927†	2762.3	2805.8	508.25	ug/L	508.25 ppb	09:00:13
3	Ti 334.940†	315133.8	322560.5	487.74	ug/L	487.74 ppb	08:59:53
3	Tl 190.801†	1511.9	1572.6	507.92	ug/L	507.92 ppb	09:00:13
3	U 409.014†	14762.2	17866.3	481.03	ug/L	481.03 ppb	08:59:53
3	V 292.402†	69443.1	72227.6	508.16	ug/L	508.16 ppb	08:59:53
3	Zn 213.857†	50023.7	50441.5	501.45	ug/L	501.45 ppb	08:59:53
3	SiO2†	76726.8	77671.4	5322.9	ug/L	5322.9 ppb	09:00:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	887871.2	98.645	%	0.4928				0.50%
Sc Radial	3890.5	91.5	%	1.22				1.33%
Y 371.029	741852.3	97.299	%	0.3197				0.33%
Y RADIAL	4354.0	92.79	%	1.800				1.94%
Ag 328.068†	108394.0	500.93	ug/L	5.857	500.93	ppb	5.857	1.17%
QC value within limits for Ag 328.068 Recovery = 100.19%								
Al 396.153Radial†	5903.3	5321.9	ug/L	112.79	5321.9	ppb	112.79	2.12%
QC value within limits for Al 396.153Radial Recovery = 106.44%								
As 188.979†	1120.0	509.06	ug/L	4.687	509.06	ppb	4.687	0.92%
QC value within limits for As 188.979 Recovery = 101.81%								
B 249.677†	20155.0	478.73	ug/L	7.267	478.73	ppb	7.267	1.52%
QC value within limits for B 249.677 Recovery = 95.75%								
Ba 233.527†	63549.0	497.63	ug/L	5.274	497.63	ppb	5.274	1.06%
QC value within limits for Ba 233.527 Recovery = 99.53%								
Be 313.107†	1340868.3	500.80	ug/L	1.426	500.80	ppb	1.426	0.28%
QC value within limits for Be 313.107 Recovery = 100.16%								
Ca 317.933Radial†	2719.4	5410.6	ug/L	55.30	5410.6	ppb	55.30	1.02%

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   QC value within limits for Ca 317.933Radial  Recovery = 108.21%
Cd 226.502†            43154.7      500.78 ug/L         5.444      500.78 ppb          5.444   1.09%
   QC value within limits for Cd 226.502  Recovery = 100.16%
Co 228.616†            23793.7      497.58 ug/L         5.027      497.58 ppb          5.027   1.01%
   QC value within limits for Co 228.616  Recovery = 99.52%
Cr 267.716†            44505.2      500.17 ug/L         6.471      500.17 ppb          6.471   1.29%
   QC value within limits for Cr 267.716  Recovery = 100.03%
Cu 324.752†           162763.5      488.78 ug/L         5.936      488.78 ppb          5.936   1.21%
   QC value within limits for Cu 324.752  Recovery = 97.76%
Fe 238.204 Radial†       406.8      5255.2 ug/L        84.12      5255.2 ppb         84.12   1.60%
   QC value within limits for Fe 238.204 Radial  Recovery = 105.10%
K 766.490 Radial†      28868.8      5394.2 ug/L       133.11      5394.2 ppb        133.11   2.47%
   QC value within limits for K 766.490 Radial  Recovery = 107.88%
Mg 279.077 IEC†          118.5      5384.6 ug/L       166.08      5384.6 ppb        166.08   3.08%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.69%
Mn 257.610†           441330.2      495.11 ug/L         0.517      495.11 ppb          0.517   0.10%
   QC value within limits for Mn 257.610  Recovery = 99.02%
Mo 202.031†             6885.2      504.35 ug/L         2.202      504.35 ppb          2.202   0.44%
   QC value within limits for Mo 202.031  Recovery = 100.87%
Na 589.592 Radial†     36648.8       10636 ug/L       301.6       10636 ppb        301.6   2.84%
   QC value within limits for Na 589.592 Radial  Recovery = 106.36%
Ni 231.604†            19751.8      501.75 ug/L         5.747      501.75 ppb          5.747   1.15%
   QC value within limits for Ni 231.604  Recovery = 100.35%
P 214.914†              4129.5      2410.5 ug/L         6.80      2410.5 ppb          6.80   0.28%
   QC value within limits for P 214.914  Recovery = 96.42%
Pb 220.353†             4082.5      507.45 ug/L         1.833      507.45 ppb          1.833   0.36%
   QC value within limits for Pb 220.353  Recovery = 101.49%
S 181.975 Axial†         701.5      1026.7 ug/L         7.79      1026.7 ppb          7.79   0.76%
   QC value within limits for S 181.975 Axial  Recovery = 102.67%
Sb 206.836†             1425.3      515.00 ug/L         3.132      515.00 ppb          3.132   0.61%
   QC value within limits for Sb 206.836  Recovery = 103.00%
Se 196.026†              765.7      522.68 ug/L         4.538      522.68 ppb          4.538   0.87%
   QC value within limits for Se 196.026  Recovery = 104.54%
Si 251.611†            77151.5      2468.8 ug/L        27.98      2468.8 ppb         27.98   1.13%
   QC value within limits for Si 251.611  Recovery = 98.75%
Sn 189.927†             2793.4      506.01 ug/L         2.028      506.01 ppb          2.028   0.40%
   QC value within limits for Sn 189.927  Recovery = 101.20%
Sr 421.552†            79710.4      528.27 ug/L        14.126      528.27 ppb         14.126   2.67%
   QC value within limits for Sr 421.552  Recovery = 105.65%
Ti 334.940†           318365.7      481.40 ug/L         5.501      481.40 ppb          5.501   1.14%
   QC value within limits for Ti 334.940  Recovery = 96.28%
Tl 190.801†             1565.1      505.50 ug/L         3.605      505.50 ppb          3.605   0.71%
   QC value within limits for Tl 190.801  Recovery = 101.10%
U 409.014†             17663.6      475.57 ug/L         6.328      475.57 ppb          6.328   1.33%
   QC value within limits for U 409.014  Recovery = 95.11%
V 292.402†             71239.3      501.27 ug/L         5.975      501.27 ppb          5.975   1.19%
   QC value within limits for V 292.402  Recovery = 100.25%
Zn 213.857†            49839.2      495.45 ug/L         5.250      495.45 ppb          5.250   1.06%
   QC value within limits for Zn 213.857  Recovery = 99.09%
SiO2†                  78354.8      5369.9 ug/L        40.88      5369.9 ppb         40.88   0.76%
   QC value within limits for SiO2  Recovery = 100.42%
All analyte(s) passed QC.
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Sequence No.: 3
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/24/2010 09:02:40
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	3917.7	3917.7	92.1	%			09:04:52
1	Y RADIAL	4583.2	4583.2	97.68	%			09:04:32
1	Al 396.153Radial†	-131.8	-32.3	-29.327	ug/L	-29.327	ppb	09:04:32
1	Ca 317.933Radial†	19.7	6.0	11.843	ug/L	11.843	ppb	09:04:52
1	Fe 238.204 Radial†	14.4	5.4	69.737	ug/L	69.737	ppb	09:04:52
1	K 766.490 Radial†	2802.3	485.8	90.909	ug/L	90.909	ppb	09:04:32
1	Mg 279.077 IEC†	3.0	0.5	21.925	ug/L	21.925	ppb	09:04:52
1	Na 589.592 Radial†	-905.5	-242.8	-70.458	ug/L	-70.458	ppb	09:04:32
1	Sr 421.552†	32.0	-2.0	-0.0134	ug/L	-0.0134	ppb	09:04:32
1	Sc 361.383	906943.6	906943.6	100.76	%			09:05:49
1	Y 371.029	766758.9	766758.9	100.57	%			09:05:49
1	Ag 328.068†	381.1	148.9	0.7062	ug/L	0.7062	ppb	09:05:54
1	As 188.979†	-22.4	-1.7	-0.7606	ug/L	-0.7606	ppb	09:06:14
1	B 249.677†	-336.3	39.2	0.9236	ug/L	0.9236	ppb	09:06:14
1	Ba 233.527†	25.5	34.5	0.2712	ug/L	0.2712	ppb	09:06:14
1	Be 313.107†	-3662.0	219.0	0.0814	ug/L	0.0814	ppb	09:05:54
1	Cd 226.502†	-192.4	-7.7	-0.0963	ug/L	-0.0963	ppb	09:06:14
1	Co 228.616†	-69.3	-6.8	-0.1410	ug/L	-0.1410	ppb	09:06:14
1	Cr 267.716†	45.0	-21.3	-0.2319	ug/L	-0.2319	ppb	09:06:14
1	Cu 324.752†	6098.1	-25.3	-0.0713	ug/L	-0.0713	ppb	09:05:54
1	Mn 257.610†	490.5	50.0	0.0620	ug/L	0.0620	ppb	09:06:14
1	Mo 202.031†	18.4	12.2	0.9000	ug/L	0.9000	ppb	09:06:14
1	Ni 231.604†	62.7	9.9	0.2523	ug/L	0.2523	ppb	09:06:14
1	P 214.914†	203.6	0.0	-0.0313	ug/L	-0.0313	ppb	09:06:14
1	Pb 220.353†	-72.9	-7.3	-0.9218	ug/L	-0.9218	ppb	09:06:14
1	S 181.975 Axial†	38.4	1.1	1.6295	ug/L	1.6295	ppb	09:06:14
1	Sb 206.836†	39.4	2.4	0.8776	ug/L	0.8776	ppb	09:06:14
1	Se 196.026†	-17.1	3.8	2.7089	ug/L	2.7089	ppb	09:06:14
1	Si 251.611†	616.5	77.7	2.4822	ug/L	2.4822	ppb	09:06:14
1	Sn 189.927†	15.7	5.1	0.9262	ug/L	0.9262	ppb	09:06:14
1	Ti 334.940†	-1371.2	-79.0	-0.1188	ug/L	-0.1188	ppb	09:05:54
1	Tl 190.801†	-18.2	13.2	4.2275	ug/L	4.2275	ppb	09:06:14
1	U 409.014†	-2898.7	-60.4	-1.6396	ug/L	-1.6396	ppb	09:05:49
1	V 292.402†	-1446.7	-5.3	-0.0365	ug/L	-0.0365	ppb	09:05:54
1	Zn 213.857†	570.0	8.0	0.0680	ug/L	0.0680	ppb	09:06:14
1	SiO2†	609.0	52.9	3.6098	ug/L	3.6098	ppb	09:07:20
2	Sc Radial	3938.7	3938.7	92.6	%			09:05:17
2	Y RADIAL	4430.8	4430.8	94.43	%			09:04:57
2	Al 396.153Radial†	-125.4	-24.7	-22.391	ug/L	-22.391	ppb	09:04:57
2	Ca 317.933Radial†	18.9	4.9	9.8344	ug/L	9.8344	ppb	09:05:17
2	Fe 238.204 Radial†	11.2	1.9	24.704	ug/L	24.704	ppb	09:05:17
2	K 766.490 Radial†	2857.4	529.1	99.003	ug/L	99.003	ppb	09:04:57
2	Mg 279.077 IEC†	0.2	-2.6	-116.87	ug/L	-116.87	ppb	09:05:17
2	Na 589.592 Radial†	-920.2	-253.5	-73.553	ug/L	-73.553	ppb	09:04:57
2	Sr 421.552†	25.2	-9.6	-0.0634	ug/L	-0.0634	ppb	09:04:57
2	Sc 361.383	906639.5	906639.5	100.73	%			09:06:19
2	Y 371.029	767212.7	767212.7	100.63	%			09:06:19
2	Ag 328.068†	273.5	42.2	0.1967	ug/L	0.1967	ppb	09:06:24
2	As 188.979†	-23.8	-3.1	-1.3875	ug/L	-1.3875	ppb	09:06:44
2	B 249.677†	-367.0	8.6	0.2020	ug/L	0.2020	ppb	09:06:44
2	Ba 233.527†	6.4	15.5	0.1207	ug/L	0.1207	ppb	09:06:44
2	Be 313.107†	-3553.4	325.6	0.1211	ug/L	0.1211	ppb	09:06:24
2	Cd 226.502†	-185.1	-0.4	-0.0062	ug/L	-0.0062	ppb	09:06:44
2	Co 228.616†	-78.0	-15.5	-0.3223	ug/L	-0.3223	ppb	09:06:44
2	Cr 267.716†	82.3	15.7	0.1766	ug/L	0.1766	ppb	09:06:44
2	Cu 324.752†	6064.5	-56.6	-0.1705	ug/L	-0.1705	ppb	09:06:24
2	Mn 257.610†	508.8	68.3	0.0838	ug/L	0.0838	ppb	09:06:44
2	Mo 202.031†	13.8	7.7	0.5624	ug/L	0.5624	ppb	09:06:44
2	Ni 231.604†	75.6	22.8	0.5791	ug/L	0.5791	ppb	09:06:44

2	P 214.914†	210.8	7.2	4.3813	ug/L	4.3813 ppb	09:06:44
2	Pb 220.353†	-64.4	1.1	0.1288	ug/L	0.1288 ppb	09:06:44
2	S 181.975 Axial†	33.4	-3.9	-5.6535	ug/L	-5.6535 ppb	09:06:44
2	Sb 206.836†	34.2	-2.7	-0.9266	ug/L	-0.9266 ppb	09:06:44
2	Se 196.026†	-15.9	5.0	3.3451	ug/L	3.3451 ppb	09:06:44
2	Si 251.611†	602.9	64.3	2.0573	ug/L	2.0573 ppb	09:06:44
2	Sn 189.927†	15.0	4.5	0.8152	ug/L	0.8152 ppb	09:06:44
2	Ti 334.940†	-1360.0	-68.4	-0.0941	ug/L	-0.0941 ppb	09:06:24
2	Tl 190.801†	-34.3	-2.8	-0.8979	ug/L	-0.8979 ppb	09:06:44
2	U 409.014†	-2711.9	124.0	3.3475	ug/L	3.3475 ppb	09:06:19
2	V 292.402†	-1499.2	-57.8	-0.3931	ug/L	-0.3931 ppb	09:06:24
2	Zn 213.857†	586.9	25.0	0.2434	ug/L	0.2434 ppb	09:06:44
2	SiO2†	560.4	4.8	0.3144	ug/L	0.3144 ppb	09:07:25
3	Sc Radial	3930.6	3930.6	92.4	%		09:05:42
3	Y RADIAL	4435.4	4435.4	94.53	%		09:05:22
3	Al 396.153Radial†	-113.2	-11.8	-10.681	ug/L	-10.681 ppb	09:05:22
3	Ca 317.933Radial†	19.5	5.6	11.179	ug/L	11.179 ppb	09:05:42
3	Fe 238.204 Radial†	10.8	1.5	18.955	ug/L	18.955 ppb	09:05:42
3	K 766.490 Radial†	2808.5	482.4	90.276	ug/L	90.276 ppb	09:05:22
3	Mg 279.077 IEC†	1.9	-0.7	-30.868	ug/L	-30.868 ppb	09:05:42
3	Na 589.592 Radial†	-859.7	-190.0	-55.136	ug/L	-55.136 ppb	09:05:22
3	Sr 421.552†	63.7	32.2	0.2130	ug/L	0.2130 ppb	09:05:22
3	Sc 361.383	894844.7	894844.7	99.420	%		09:06:50
3	Y 371.029	758612.7	758612.7	99.498	%		09:06:50
3	Ag 328.068†	261.1	33.3	0.1586	ug/L	0.1586 ppb	09:06:55
3	As 188.979†	-22.8	-2.4	-1.0972	ug/L	-1.0972 ppb	09:07:15
3	B 249.677†	-371.2	-0.4	-0.0129	ug/L	-0.0129 ppb	09:07:15
3	Ba 233.527†	4.4	13.5	0.1054	ug/L	0.1054 ppb	09:07:15
3	Be 313.107†	-3655.5	176.4	0.0655	ug/L	0.0655 ppb	09:06:55
3	Cd 226.502†	-188.6	-6.3	-0.0754	ug/L	-0.0754 ppb	09:07:15
3	Co 228.616†	-60.4	1.2	0.0262	ug/L	0.0262 ppb	09:07:15
3	Cr 267.716†	75.6	10.0	0.1147	ug/L	0.1147 ppb	09:07:15
3	Cu 324.752†	6044.6	2.7	0.0103	ug/L	0.0103 ppb	09:06:55
3	Mn 257.610†	507.2	73.4	0.0854	ug/L	0.0854 ppb	09:07:15
3	Mo 202.031†	15.0	9.0	0.6594	ug/L	0.6594 ppb	09:07:15
3	Ni 231.604†	84.1	32.3	0.8198	ug/L	0.8198 ppb	09:07:15
3	P 214.914†	203.7	2.8	1.7046	ug/L	1.7046 ppb	09:07:15
3	Pb 220.353†	-49.9	14.9	1.8404	ug/L	1.8404 ppb	09:07:15
3	S 181.975 Axial†	38.4	1.6	2.2982	ug/L	2.2982 ppb	09:07:15
3	Sb 206.836†	36.1	-0.4	-0.1244	ug/L	-0.1244 ppb	09:07:15
3	Se 196.026†	-32.7	-12.2	-7.9653	ug/L	-7.9653 ppb	09:07:15
3	Si 251.611†	610.4	79.8	2.5532	ug/L	2.5532 ppb	09:07:15
3	Sn 189.927†	9.2	-1.2	-0.2131	ug/L	-0.2131 ppb	09:07:15
3	Ti 334.940†	-1341.2	-67.2	-0.0969	ug/L	-0.0969 ppb	09:06:55
3	Tl 190.801†	-40.1	-9.1	-2.9127	ug/L	-2.9127 ppb	09:07:15
3	U 409.014†	-2869.9	-70.4	-1.9042	ug/L	-1.9042 ppb	09:06:50
3	V 292.402†	-1472.4	-50.6	-0.3488	ug/L	-0.3488 ppb	09:06:55
3	Zn 213.857†	589.9	35.7	0.3497	ug/L	0.3497 ppb	09:07:15
3	SiO2†	663.8	116.2	7.9664	ug/L	7.9664 ppb	09:07:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	902809.3	100.31	%	0.767				0.76%
Sc Radial	3929.0	92.4	%	0.25				0.27%
Y 371.029	764194.8	100.23	%	0.635				0.63%
Y RADIAL	4483.2	95.55	%	1.847				1.93%
Ag 328.068†	74.8	0.3539	ug/L	0.30577	0.3539	ppb	0.30577	86.41%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-22.9	-20.799	ug/L	9.4244	-20.799	ppb	9.4244	45.31%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.4	-1.0818	ug/L	0.31375	-1.0818	ppb	0.31375	29.00%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	15.8	0.3709	ug/L	0.49058	0.3709	ppb	0.49058	132.27%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	21.2	0.1658	ug/L	0.09163	0.1658	ppb	0.09163	55.27%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	240.4	0.0893	ug/L	0.02864	0.0893	ppb	0.02864	32.07%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.5	10.952	ug/L	1.0234	10.952	ppb	1.0234	9.34%

```
   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -4.8     -0.0593 ug/L       0.04716     -0.0593 ppb        0.04716  79.51%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†              -7.0     -0.1457 ug/L       0.17431     -0.1457 ppb        0.17431 119.62%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               1.5      0.0198 ug/L       0.22015      0.0198 ppb        0.22015 >999.9%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -26.4     -0.0772 ug/L       0.09055     -0.0772 ppb        0.09055 117.32%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        2.9      37.798 ug/L       27.8082      37.798 ppb        27.8082  73.57%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       499.1      93.396 ug/L        4.8662      93.396 ppb         4.8662   5.21%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†          -0.9     -41.938 ug/L       70.0569     -41.938 ppb        70.0569 167.05%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              63.9      0.0771 ug/L       0.01305      0.0771 ppb        0.01305  16.93%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               9.6      0.7073 ug/L       0.17380      0.7073 ppb        0.17380  24.57%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†     -228.7     -66.382 ug/L        9.8620     -66.382 ppb         9.8620  14.86%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              21.6      0.5504 ug/L       0.28486      0.5504 ppb        0.28486  51.76%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                3.4      2.0182 ug/L       2.22298      2.0182 ppb        2.22298 110.15%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               2.9      0.3491 ug/L       1.39422      0.3491 ppb        1.39422 399.32%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†         -0.4     -0.5753 ug/L       4.41060     -0.5753 ppb        4.41060 766.70%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†              -0.2     -0.0578 ug/L       0.90392     -0.0578 ppb        0.90392 >999.9%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -1.1     -0.6371 ug/L       6.35436     -0.6371 ppb        6.35436 997.41%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              74.0      2.3643 ug/L       0.26817      2.3643 ppb        0.26817  11.34%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               2.8      0.5094 ug/L       0.62818      0.5094 ppb        0.62818 123.31%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               6.9      0.0454 ug/L       0.14730      0.0454 ppb        0.14730 324.49%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -71.5     -0.1032 ug/L       0.01356     -0.1032 ppb        0.01356  13.13%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               0.4      0.1389 ug/L       3.68129      0.1389 ppb        3.68129 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -2.3     -0.0654 ug/L       2.95867     -0.0654 ppb        2.95867 >999.9%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†              -37.9     -0.2595 ug/L       0.19433     -0.2595 ppb        0.19433  74.89%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              22.9      0.2204 ug/L       0.14229      0.2204 ppb        0.14229  64.57%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    58.0      3.9635 ug/L       3.83826      3.9635 ppb        3.83826  96.84%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, February 18, 2010 11:08:36
Sample Description:
Method File: c:\elandata\Method\daily2.mth
Dataset File: c:\elandata\Dataset\100125\Sample.327
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	1492.1	1492.078	20.751	1.4
	Mg	24.0	24345.7	24345.729	268.827	1.1
	Co	58.9	55141.4	55141.422	488.165	0.9
	Rh	102.9	96829.3	96829.251	315.538	0.3
	In	114.9	134330.2	134330.213	527.859	0.4
	Pb	208.0	55155.9	55155.879	547.143	1.0
⌈>	Ba	137.9	106513.9	106513.875	754.642	0.7
⌊	Ba++	69.0	1320.2	0.012	0.000	2.6
⌈>	Ce	139.9	124580.7	124580.670	766.142	0.6
⌊	CeO	155.9	2940.0	0.024	0.001	2.5
	Bkgd	220.0	1.2	1.200	0.837	69.7

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	4.5	1242.4
Co	59	17	5.3	38851.1
In	115	17	6.3	99610.1

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	604	2060	0.671
Be	9.0	8.9	2041	2045	0.681
Mg	24.0	24.0	5678	2065	0.682
Mg	25.0	25.1	5953	2080	0.666
Mg	26.0	26.0	6159	2085	0.636
Co	58.9	58.9	14186	2140	0.644
Rh	102.9	102.9	24873	2230	0.647
In	114.9	114.9	27785	2255	0.669
Ce	139.9	139.9	33847	2310	0.627
Pb	206.0	206.0	49940	2500	0.601
Pb	207.0	207.0	50113	2375	0.623
Pb	208.0	208.0	50436	2570	0.608
U	238.1	238.0	57688	2510	0.682

ICPMS#4 - Summary Report

Sample ID: Blank
Sample Date/Time: Thursday, February 18, 2010 23:02:29
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lani soil.mth
Dataset File: c:\elandata\Dataset\100218\Blank.205

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9		ug/L		6	
>	Sc	45		ug/L		1100591	
	Ni	60		ug/L		48	
>	Ge	74		ug/L		247373	
	As	75		ug/L		-501	
	Se	77		ug/L		4793	
	Se	82		ug/L		25	
	Kr	83		ug/L		43	
>	Lu	175		ug/L		153953	
	Tl	205		ug/L		152	
	U	238		ug/L		321	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Simple Linear	
As	75	Simple Linear	
Se	77	Simple Linear	
Se	82	Simple Linear	
Kr	83	Simple Linear	
Lu	175	Simple Linear	
Tl	205	Simple Linear	
U	238	Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45					
	Ni	60					
>	Ge	74					
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175					
	Tl	205					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 1
Sample Date/Time: Thursday, February 18, 2010 23:06:36
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\Standard 1.206

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	10.000	ug/L	2.020	1450	0.001
>	Sc	45		ug/L		1096251	1096251.409
	Ni	60	10.000	ug/L	1.511	10591	0.010
>	Ge	74		ug/L		242112	242111.509
	As	75	10.000	ug/L	4.941	5997	0.027
	Se	77		ug/L		6239	0.006
	Se	82	10.000	ug/L	1.670	760	0.003
	Kr	83		ug/L		38	-0.000
>	Lu	175		ug/L		149798	149798.114
	Tl	205	10.000	ug/L	1.833	17095	0.113
	U	238	10.000	ug/L	0.828	109430	0.728

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45					
	Ni	60					
>	Ge	74					
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175					
	Tl	205					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 2
Sample Date/Time: Thursday, February 18, 2010 23:10:41
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\Standard 2.207

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**99.954**	ug/L	0.785	13685	0.013
>	Sc	45		ug/L		1087261	1087261.185
	Ni	60	**99.950**	ug/L	1.321	99620	0.092
>	Ge	74		ug/L		237644	237644.436
	As	75	**100.013**	ug/L	0.558	64037	0.272
	Se	77		ug/L		11602	0.029
	Se	82	**99.969**	ug/L	0.952	7029	0.029
	Kr	83		ug/L		47	0.000
>	Lu	175		ug/L		147824	147824.099
	Tl	205	**99.984**	ug/L	0.973	164647	1.113
	U	238	**99.975**	ug/L	1.026	1051030	7.108

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45					
	Ni	60					
>	Ge	74					
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175					
	Tl	205					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Thursday, February 18, 2010 23:14:46
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 1.208

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**52.431**	ug/L	1.792	7157	0.007
>	Sc	45		ug/L		1083620	1083619.719
	Ni	60	**52.172**	ug/L	0.847	51846	0.048
>	Ge	74		ug/L		239741	239741.232
	As	75	**49.357**	ug/L	1.178	31639	0.134
	Se	77		ug/L		8761	0.017
	Se	82	**50.161**	ug/L	0.586	3570	0.015
	Kr	83		ug/L		45	0.000
>	Lu	175		ug/L		149686	149686.412
	Tl	205	**48.389**	ug/L	0.595	80754	0.539
	U	238	**52.783**	ug/L	1.028	561960	3.753

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	104.862				
>	Sc	45		98.5			
	Ni	60	104.343				
>	Ge	74		96.9			
	As	75	98.713				
	Se	77					
	Se	82	100.322				
	Kr	83					
>	Lu	175		97.2			
	Tl	205	96.777				
	U	238	105.566				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Thursday, February 18, 2010 23:18:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lani soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 2.209

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.003**	**ug/L**	1169.608	6	0.000
>	Sc	45		**ug/L**		1090622	1090621.875
	Ni	60	**0.015**	**ug/L**	34.323	62	0.000
>	Ge	74		**ug/L**		246907	246907.308
	As	75	**0.023**	**ug/L**	2726.919	-484	0.000
	Se	77		**ug/L**		4910	0.001
	Se	82	**0.180**	**ug/L**	91.561	38	0.000
	Kr	83		**ug/L**		40	-0.000
>	Lu	175		**ug/L**		152376	152375.930
	Tl	205	**0.228**	**ug/L**	5.966	538	0.003
	U	238	**0.019**	**ug/L**	6.810	524	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45			99.1		
	Ni	60					
>	Ge	74			99.8		
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175			99.0		
	Tl	205					
	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#4 - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Thursday, February 18, 2010 23:23:01
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lani soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 3.210

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.635**	**ug/L**	4.623	93	0.000
>	Sc	45		**ug/L**		1089785	1089785.492
	Ni	60	**2.286**	**ug/L**	2.191	2329	0.002
>	Ge	74		**ug/L**		243048	243047.659
	As	75	**5.988**	**ug/L**	7.193	3461	0.016
	Se	77		**ug/L**		5978	0.005
	Se	82	**5.911**	**ug/L**	7.295	448	0.002
	Kr	83		**ug/L**		39	-0.000
>	Lu	175		**ug/L**		150807	150807.015
	Tl	205	**1.123**	**ug/L**	0.963	2035	0.013
	U	238	**0.229**	**ug/L**	1.542	2768	0.016

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	126.959				
>	Sc	45		99.0			
	Ni	60	114.282				
>	Ge	74		98.3			
	As	75	119.754				
	Se	77					
	Se	82	118.221				
	Kr	83					
>	Lu	175		98.0			
	Tl	205	112.349				
	U	238	114.427				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, February 18, 2010 23:27:07
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 4.211

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.076**	**ug/L**	68.469	14	0.000
>	Sc	45		**ug/L**		948851	948850.913
	Ni	60	**4.907**	**ug/L**	2.113	4307	0.004
>	Ge	74		**ug/L**		206336	206335.806
	As	75	**-0.361**	**ug/L**	119.845	-620	-0.001
	Se	77		**ug/L**		6325	0.011
	Se	82	**-0.571**	**ug/L**	13.130	-14	-0.000
	Kr	83		**ug/L**		100	0.000
>	Lu	175		**ug/L**		131482	131482.277
	Tl	205	**0.021**	**ug/L**	48.394	160	0.000
	U	238	**-0.016**	**ug/L**	9.238	122	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		86.2			
	Ni	60	148.240				
>	Ge	74		83.4			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		85.4			
	Tl	205					
	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#4 - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Thursday, February 18, 2010 23:31:14
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 5.212

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**19.659**	**ug/L**	2.035	2248	0.002
>	Sc	45		**ug/L**		906767	906766.975
	Ni	60	**24.405**	**ug/L**	1.964	20313	0.022
>	Ge	74		**ug/L**		200416	200415.698
	As	75	**19.841**	**ug/L**	2.284	10389	0.054
	Se	77		**ug/L**		7640	0.019
	Se	82	**21.097**	**ug/L**	3.704	1267	0.006
	Kr	83		**ug/L**		108	0.000
>	Lu	175		**ug/L**		127796	127796.049
	Tl	205	**17.937**	**ug/L**	1.124	25640	0.200
	U	238	**21.499**	**ug/L**	0.432	195603	1.528

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	98.297				
>	Sc	45		82.4			
	Ni	60	104.698				
>	Ge	74		81.0			
	As	75	99.206				
	Se	77					
	Se	82	105.485				
	Kr	83					
>	Lu	175		83.0			
	Tl	205	89.687				
	U	238	107.495				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, February 18, 2010 23:35:22
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 6.213

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**51.784**	**ug/L**	0.816	6839	0.007
>	Sc	45		**ug/L**		1048387	1048387.349
	Ni	60	**52.039**	**ug/L**	1.113	50034	0.048
>	Ge	74		**ug/L**		233709	233708.567
	As	75	**47.677**	**ug/L**	0.898	29775	0.129
	Se	77		**ug/L**		8464	0.017
	Se	82	**49.937**	**ug/L**	1.479	3465	0.015
	Kr	83		**ug/L**		39	-0.000
>	Lu	175		**ug/L**		146986	146985.764
	Tl	205	**47.313**	**ug/L**	0.867	77541	0.527
	U	238	**51.860**	**ug/L**	0.921	542224	3.687

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	103.568				
>	Sc	45			95.3		
	Ni	60	104.079				
>	Ge	74			94.5		
	As	75	95.355				
	Se	77					
	Se	82	99.873				
	Kr	83					
>	Lu	175			95.5		
	Tl	205	94.626				
	U	238	103.720				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Thursday, February 18, 2010 23:39:31
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 7.214

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.008**	**ug/L**	280.248	7	0.000
>	Sc	45		**ug/L**		1084765	1084764.750
	Ni	60	**0.016**	**ug/L**	32.163	63	0.000
>	Ge	74		**ug/L**		242949	242948.878
	As	75	**-0.171**	**ug/L**	163.694	-604	-0.000
	Se	77		**ug/L**		4988	0.001
	Se	82	**0.226**	**ug/L**	33.131	40	0.000
	Kr	83		**ug/L**		36	-0.000
>	Lu	175		**ug/L**		151807	151806.836
	Tl	205	**0.216**	**ug/L**	5.157	516	0.002
	U	238	**0.014**	**ug/L**	6.980	469	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45			98.6		
	Ni	60					
>	Ge	74			98.2		
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175			98.6		
	Tl	205					
	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#4 - Summary Report

Sample ID: QC Std 10
Sample Date/Time: Thursday, February 18, 2010 23:43:38
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lani soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 10.215

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**1008.870**	**ug/L**	1.164	119213	0.127
>	Sc	45		**ug/L**		938761	938760.582
	Ni	60	**932.998**	**ug/L**	1.134	802533	0.855
>	Ge	74		**ug/L**		208263	208262.867
	As	75	**922.279**	**ug/L**	0.681	520995	2.504
	Se	77		**ug/L**		28092	0.116
	Se	82	**491.363**	**ug/L**	1.213	30198	0.145
	Kr	83		**ug/L**		80	0.000
>	Lu	175		**ug/L**		129481	129480.787
	Tl	205	**459.892**	**ug/L**	0.403	662859	5.118
	U	238	**4960.205**	**ug/L**	0.816	45662282	352.641

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	100.887				
>	Sc	45			85.3		
	Ni	60	93.300				
>	Ge	74			84.2		
	As	75	92.228				
	Se	77					
	Se	82	98.273				
	Kr	83					
>	Lu	175			84.1		
	Tl	205	91.978				
	U	238	99.204				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 11
Sample Date/Time: Thursday, February 18, 2010 23:47:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 11.216

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**52.724**	ug/L	1.005	6845	0.007
>	Sc	45		ug/L		1030583	1030583.161
	Ni	60	**52.986**	ug/L	0.147	50078	0.049
>	Ge	74		ug/L		230063	230063.156
	As	75	**49.491**	ug/L	0.252	30444	0.134
	Se	77		ug/L		8126	0.016
	Se	82	**52.221**	ug/L	1.705	3565	0.015
	Kr	83		ug/L		39	-0.000
>	Lu	175		ug/L		144528	144527.513
	Tl	205	**49.483**	ug/L	1.428	79737	0.551
	U	238	**54.693**	ug/L	1.370	562279	3.888

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	105.449				
>	Sc	45		93.6			
	Ni	60	105.971				
>	Ge	74		93.0			
	As	75	98.982				
	Se	77					
	Se	82	104.442				
	Kr	83					
>	Lu	175		93.9			
	Tl	205	98.966				
	U	238	109.386				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 12
Sample Date/Time: Thursday, February 18, 2010 23:51:50
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lani soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 12.217

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.058**	**ug/L**	27.497	13	0.000
>	Sc	45		**ug/L**		1069079	1069078.668
	Ni	60	**0.052**	**ug/L**	7.754	97	0.000
>	Ge	74		**ug/L**		239734	239733.962
	As	75	**0.019**	**ug/L**	1784.688	-475	0.000
	Se	77		**ug/L**		4698	0.000
	Se	82	**0.103**	**ug/L**	153.057	31	0.000
	Kr	83		**ug/L**		45	0.000
>	Lu	175		**ug/L**		150818	150818.484
	Tl	205	**0.350**	**ug/L**	3.080	736	0.004
	U	238	**0.190**	**ug/L**	6.574	2347	0.013

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		97.1			
	Ni	60					
>	Ge	74		96.9			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		98.0			
	Tl	205					
	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#4 - Summary Report

Sample ID: 1202030975
Sample Date/Time: Thursday, February 18, 2010 23:56:01
Sample Type:
Sample Description: LANL 6020 MB
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\1202030975.218

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.008**	ug/L	430.732	7	0.000
>	Sc	45		ug/L		1081865	1081865.117
	Ni	60	**0.192**	ug/L	1.946	237	0.000
>	Ge	74		ug/L		234744	234744.098
	As	75	**0.116**	ug/L	144.091	-402	0.000
	Se	77		ug/L		3504	-0.004
	Se	82	**0.376**	ug/L	45.272	49	0.000
	Kr	83		ug/L		40	-0.000
>	Lu	175		ug/L		150351	150350.971
	Tl	205	**0.189**	ug/L	1.478	465	0.002
	U	238	**0.150**	ug/L	9.942	1914	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
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		98.3			
	Ni	60					
>	Ge	74		94.9			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		97.7			
	Tl	205					
	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#4 - Summary Report

Sample ID: 1202030980
Sample Date/Time: Friday, February 19, 2010 00:00:12
Sample Type:
Sample Description: LANL 6020 LCS
Number of Replicates: 3
Batch ID: 948073|40|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\1202030980.219

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**22.134**	**ug/L**	1.814	3059	0.003
>	Sc	45		**ug/L**		1096205	1096204.890
	Ni	60	**37.728**	**ug/L**	1.258	37936	0.035
>	Ge	74		**ug/L**		243326	243326.054
	As	75	**30.376**	**ug/L**	2.157	19573	0.082
	Se	77		**ug/L**		8613	0.016
	Se	82	**81.683**	**ug/L**	0.818	5885	0.024
	Kr	83		**ug/L**		45	0.000
>	Lu	175		**ug/L**		153816	153815.962
	Tl	205	**31.757**	**ug/L**	0.930	54519	0.353
	U	238	**0.543**	**ug/L**	1.945	6255	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
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		99.6			
	Ni	60					
>	Ge	74		98.4			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		99.9			
	Tl	205					
	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#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, February 19, 2010 00:04:22
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 6.220

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**51.442**	**ug/L**	1.812	6853	0.006
>	Sc	45		**ug/L**		1057695	1057695.424
	Ni	60	**51.322**	**ug/L**	0.678	49780	0.047
>	Ge	74		**ug/L**		234056	234056.127
	As	75	**48.693**	**ug/L**	0.708	30465	0.132
	Se	77		**ug/L**		8202	0.016
	Se	82	**49.404**	**ug/L**	2.971	3433	0.015
	Kr	83		**ug/L**		45	0.000
>	Lu	175		**ug/L**		146388	146388.399
	Tl	205	**47.883**	**ug/L**	0.535	78160	0.533
	U	238	**52.756**	**ug/L**	0.152	549345	3.751

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	102.885				
>	Sc	45		96.1			
	Ni	60	102.645				
>	Ge	74		94.6			
	As	75	97.387				
	Se	77					
	Se	82	98.809				
	Kr	83					
>	Lu	175		95.1			
	Tl	205	95.767				
	U	238	105.511				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, February 19, 2010 00:08:31
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 7.221

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	0.011	ug/L	202.806	7	0.000
>	Sc	45		ug/L		1074701	1074700.799
	Ni	60	0.024	ug/L	26.213	70	0.000
>	Ge	74		ug/L		241361	241361.305
	As	75	-0.131	ug/L	233.673	-574	-0.000
	Se	77		ug/L		4780	0.000
	Se	82	0.042	ug/L	181.102	27	0.000
	Kr	83		ug/L		37	-0.000
>	Lu	175		ug/L		151374	151374.304
	Tl	205	0.304	ug/L	6.350	662	0.003
	U	238	0.034	ug/L	9.854	680	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		97.6			
	Ni	60					
>	Ge	74		97.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		98.3			
	Tl	205					
	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#4 - Summary Report

Sample ID: 245806001
Sample Date/Time: Friday, February 19, 2010 00:12:42
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\245806001.222

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**6.617**	**ug/L**	3.256	931	0.001
>	Sc	45		**ug/L**		1110803	1110803.361
	Ni	60	**34.343**	**ug/L**	3.674	34993	0.031
>	Ge	74		**ug/L**		224910	224909.954
	As	75	**7.053**	**ug/L**	6.405	3849	0.019
	Se	77		**ug/L**		3196	-0.005
	Se	82	**2.324**	**ug/L**	5.742	177	0.001
	Kr	83		**ug/L**		128	0.000
>	Lu	175		**ug/L**		157787	157786.814
	Tl	205	**0.419**	**ug/L**	19.830	889	0.005
	U	238	**402.886**	**ug/L**	3.435	4517386	28.643

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		100.9			
	Ni	60					
>	Ge	74		90.9			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		102.5			
	Tl	205					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202030976
Sample Date/Time: Friday, February 19, 2010 00:16:54
Sample Type:
Sample Description: LANL 6020 DUP
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\1202030976.223

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**5.279**	**ug/L**	1.798	715	0.001
>	Sc	45		**ug/L**		1068224	1068223.617
	Ni	60	**22.577**	**ug/L**	5.189	22122	0.021
>	Ge	74		**ug/L**		220576	220576.146
	As	75	**6.243**	**ug/L**	7.964	3286	0.017
	Se	77		**ug/L**		2928	-0.006
	Se	82	**2.194**	**ug/L**	13.533	165	0.001
	Kr	83		**ug/L**		93	0.000
>	Lu	175		**ug/L**		157584	157583.609
	Tl	205	**0.332**	**ug/L**	2.050	738	0.004
	U	238	**327.019**	**ug/L**	5.407	3659481	23.249

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		97.1			
	Ni	60					
>	Ge	74		89.2			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		102.4			
	Tl	205					
	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#4 - Summary Report

Sample ID: 1202030978
Sample Date/Time: Friday, February 19, 2010 00:21:07
Sample Type:
Sample Description: LANL 6020 MS
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\1202030978.224

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**32.061**	ug/L	2.157	4438	0.004
>	Sc	45		ug/L		1098340	1098340.353
	Ni	60	**56.683**	ug/L	0.263	57091	0.052
>	Ge	74		ug/L		217104	217104.449
	As	75	**50.346**	ug/L	0.820	29232	0.137
	Se	77		ug/L		3278	-0.004
	Se	82	**11.215**	ug/L	5.522	740	0.003
	Kr	83		ug/L		136	0.000
>	Lu	175		ug/L		159072	159071.648
	Tl	205	**41.844**	ug/L	0.974	74237	0.466
	U	238	**496.495**	ug/L	1.253	5615219	35.298

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		99.8			
	Ni	60					
>	Ge	74		87.8			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		103.3			
	Tl	205					
	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#4 - Summary Report

Sample ID: 1202030979
Sample Date/Time: Friday, February 19, 2010 00:25:21
Sample Type:
Sample Description: LANL 6020 MSD
Number of Replicates: 3
Batch ID: 948073|2|sk|
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\1202030979.225

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**33.979**	**ug/L**	2.457	4615	0.004
>	Sc	45		**ug/L**		1077836	1077836.498
	Ni	60	**51.271**	**ug/L**	1.313	50677	0.047
>	Ge	74		**ug/L**		217876	217876.125
	As	75	**44.119**	**ug/L**	1.013	25653	0.120
	Se	77		**ug/L**		3161	-0.005
	Se	82	**10.338**	**ug/L**	5.983	686	0.003
	Kr	83		**ug/L**		113	0.000
>	Lu	175		**ug/L**		159023	159022.811
	Tl	205	**41.721**	**ug/L**	0.998	74001	0.464
	U	238	**498.739**	**ug/L**	0.172	5638906	35.457

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		97.9			
	Ni	60					
>	Ge	74		88.1			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		103.3			
	Tl	205					
	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#4 - Summary Report

Sample ID: 1202030977
Sample Date/Time: Friday, February 19, 2010 00:29:34
Sample Type:
Sample Description: LANL 6020 SDILT
Number of Replicates: 3
Batch ID: 948073|10|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\1202030977.226

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**1.728**	**ug/L**	4.136	225	0.000
>	Sc	45		**ug/L**		1009029	1009028.670
	Ni	60	**7.745**	**ug/L**	0.891	7204	0.007
>	Ge	74		**ug/L**		222362	222362.106
	As	75	**2.136**	**ug/L**	13.995	839	0.006
	Se	77		**ug/L**		3119	-0.005
	Se	82	**0.775**	**ug/L**	21.245	73	0.000
	Kr	83		**ug/L**		49	0.000
>	Lu	175		**ug/L**		151151	151150.934
	Tl	205	**0.306**	**ug/L**	7.595	664	0.003
	U	238	**87.759**	**ug/L**	0.430	943362	6.239

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		91.7			
	Ni	60					
>	Ge	74		89.9			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		98.2			
	Tl	205					
	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#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, February 19, 2010 00:33:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 6.227

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**56.556**	ug/L	0.507	7179	0.007
>	Sc	45		ug/L		1007777	1007777.067
	Ni	60	**50.851**	ug/L	0.589	46995	0.047
>	Ge	74		ug/L		221917	221916.790
	As	75	**49.088**	ug/L	1.194	29121	0.133
	Se	77		ug/L		7303	0.014
	Se	82	**50.691**	ug/L	0.699	3340	0.015
	Kr	83		ug/L		43	0.000
>	Lu	175		ug/L		148582	148581.949
	Tl	205	**46.658**	ug/L	0.708	77306	0.519
	U	238	**50.957**	ug/L	0.445	538574	3.623

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	113.113				
>	Sc	45			91.6		
	Ni	60	101.701				
>	Ge	74			89.7		
	As	75	98.175				
	Se	77					
	Se	82	101.381				
	Kr	83					
>	Lu	175			96.5		
	Tl	205	93.315				
	U	238	101.914				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be	9	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, February 19, 2010 00:37:52
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lani soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 7.228

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.009**	**ug/L**	263.038	6	0.000
>	Sc	45		**ug/L**		1004654	1004654.229
	Ni	60	**0.015**	**ug/L**	26.726	57	0.000
>	Ge	74		**ug/L**		226621	226620.945
	As	75	**0.269**	**ug/L**	127.081	-293	0.001
	Se	77		**ug/L**		3955	-0.002
	Se	82	**0.222**	**ug/L**	67.785	37	0.000
	Kr	83		**ug/L**		34	-0.000
>	Lu	175		**ug/L**		148210	148210.495
	Tl	205	**0.212**	**ug/L**	14.950	496	0.002
	U	238	**0.033**	**ug/L**	2.568	661	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		91.3			
	Ni	60					
>	Ge	74		91.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		96.3			
	Tl	205					
	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#4 - Summary Report

Sample ID: 245806002
Sample Date/Time: Friday, February 19, 2010 00:42:02
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\245806002.229

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**164.139**	**ug/L**	0.999	22369	0.021
>	Sc	45		**ug/L**		1082545	1082545.013
	Ni	60	**34.817**	**ug/L**	0.762	34578	0.032
>	Ge	74		**ug/L**		216759	216759.418
	As	75	**13.698**	**ug/L**	1.508	7622	0.037
	Se	77		**ug/L**		3079	-0.005
	Se	82	**3.105**	**ug/L**	14.748	220	0.001
	Kr	83		**ug/L**		137	0.000
>	Lu	175		**ug/L**		156806	156806.143
	Tl	205	**0.676**	**ug/L**	3.686	1335	0.008
	U	238	**338.501**	**ug/L**	1.428	3773732	24.065

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
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		98.4			
	Ni	60					
>	Ge	74		87.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		101.9			
	Tl	205					
	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#4 - Summary Report

Sample ID: 245806003
Sample Date/Time: Friday, February 19, 2010 00:46:14
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\245806003.230

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**35.520**	**ug/L**	2.938	4536	0.004
>	Sc	45		**ug/L**		1013974	1013974.129
	Ni	60	**27.739**	**ug/L**	2.427	25803	0.025
>	Ge	74		**ug/L**		210916	210916.197
	As	75	**7.699**	**ug/L**	5.639	3976	0.021
	Se	77		**ug/L**		2638	-0.007
	Se	82	**1.901**	**ug/L**	15.679	140	0.001
	Kr	83		**ug/L**		83	0.000
>	Lu	175		**ug/L**		150377	150376.724
	Tl	205	**0.314**	**ug/L**	5.465	674	0.003
	U	238	**784.247**	**ug/L**	1.995	8382203	55.755

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		92.1			
	Ni	60					
>	Ge	74		85.3			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		97.7			
	Tl	205					
	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#4 - Summary Report

Sample ID: 245806004
Sample Date/Time: Friday, February 19, 2010 00:50:27
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\245806004.231

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**66.069**	**ug/L**	2.591	8168	0.008
>	Sc	45		**ug/L**		981871	981871.263
	Ni	60	**37.928**	**ug/L**	0.519	34163	0.035
>	Ge	74		**ug/L**		209015	209015.474
	As	75	**10.260**	**ug/L**	4.572	5396	0.028
	Se	77		**ug/L**		3161	-0.004
	Se	82	**1.125**	**ug/L**	5.500	90	0.000
	Kr	83		**ug/L**		62	0.000
>	Lu	175		**ug/L**		149801	149800.806
	Tl	205	**0.169**	**ug/L**	3.376	429	0.002
	U	238	**1622.319**	**ug/L**	1.334	17277971	115.337

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45			89.2		
	Ni	60					
>	Ge	74			84.5		
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175			97.3		
	Tl	205					
	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#4 - Summary Report

Sample ID: 245806005
Sample Date/Time: Friday, February 19, 2010 00:54:40
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\245806005.232

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**1.822**	**ug/L**	0.807	231	0.000
>	Sc	45		**ug/L**		985144	985144.120
	Ni	60	**20.190**	**ug/L**	0.373	18267	0.018
>	Ge	74		**ug/L**		207159	207158.981
	As	75	**4.163**	**ug/L**	13.407	1921	0.011
	Se	77		**ug/L**		3174	-0.004
	Se	82	**1.538**	**ug/L**	32.987	115	0.000
	Kr	83		**ug/L**		94	0.000
>	Lu	175		**ug/L**		159001	159000.553
	Tl	205	**0.143**	**ug/L**	4.111	410	0.002
	U	238	**2.577**	**ug/L**	3.174	29462	0.183

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		89.5			
	Ni	60					
>	Ge	74		83.7			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		103.3			
	Tl	205					
	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#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, February 19, 2010 00:58:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 6.233

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**58.649**	**ug/L**	1.584	7089	0.007
>	Sc	45		**ug/L**		959859	959858.789
	Ni	60	**51.599**	**ug/L**	0.812	45419	0.047
>	Ge	74		**ug/L**		214635	214634.637
	As	75	**49.507**	**ug/L**	2.150	28410	0.134
	Se	77		**ug/L**		6755	0.012
	Se	82	**49.422**	**ug/L**	0.544	3150	0.015
	Kr	83		**ug/L**		38	0.000
>	Lu	175		**ug/L**		149958	149957.791
	Tl	205	**45.794**	**ug/L**	0.299	76576	0.510
	U	238	**50.206**	**ug/L**	0.853	535570	3.569

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	117.299				
>	Sc	45			87.2		
	Ni	60	103.198				
>	Ge	74			86.8		
	As	75	99.015				
	Se	77					
	Se	82	98.844				
	Kr	83					
>	Lu	175			97.4		
	Tl	205	91.588				
	U	238	100.413				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be	9	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, February 19, 2010 01:02:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\Nanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 7.234

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	0.012	ug/L	142.433	6	0.000
>	Sc	45		ug/L		947390	947390.465
	Ni	60	0.024	ug/L	20.659	62	0.000
>	Ge	74		ug/L		217441	217441.212
	As	75	0.270	ug/L	138.613	-281	0.001
	Se	77		ug/L		3664	-0.003
	Se	82	0.141	ug/L	117.735	31	0.000
	Kr	83		ug/L		37	-0.000
>	Lu	175		ug/L		148384	148383.864
	Tl	205	0.174	ug/L	11.421	434	0.002
	U	238	0.049	ug/L	4.476	827	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		86.1			
	Ni	60					
>	Ge	74		87.9			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		96.4			
	Tl	205					
	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#4 - Summary Report

Sample ID: 245806006
Sample Date/Time: Friday, February 19, 2010 01:07:11
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\245806006.235

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**48.892**	**ug/L**	1.728	5924	0.006
>	Sc	45		**ug/L**		961743	961742.817
	Ni	60	**34.614**	**ug/L**	2.445	30544	0.032
>	Ge	74		**ug/L**		204066	204065.858
	As	75	**16.871**	**ug/L**	3.794	8930	0.046
	Se	77		**ug/L**		3100	-0.004
	Se	82	**1.435**	**ug/L**	3.616	107	0.000
	Kr	83		**ug/L**		74	0.000
>	Lu	175		**ug/L**		148158	148157.568
	Tl	205	**0.238**	**ug/L**	5.764	539	0.003
	U	238	**1604.796**	**ug/L**	1.180	16902694	114.091

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45			87.4		
	Ni	60					
>	Ge	74			82.5		
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175			96.2		
	Tl	205					
	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#4 - Summary Report

Sample ID: 245806007
Sample Date/Time: Friday, February 19, 2010 01:11:25
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\245806007.236

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**11.286**	**ug/L**	2.399	1456	0.001
>	Sc	45		**ug/L**		1021354	1021353.722
	Ni	60	**26.669**	**ug/L**	0.201	25001	0.024
>	Ge	74		**ug/L**		208153	208152.682
	As	75	**9.766**	**ug/L**	6.918	5094	0.027
	Se	77		**ug/L**		3223	-0.004
	Se	82	**1.850**	**ug/L**	34.311	134	0.001
	Kr	83		**ug/L**		76	0.000
>	Lu	175		**ug/L**		152765	152765.052
	Tl	205	**0.459**	**ug/L**	3.823	932	0.005
	U	238	**177.591**	**ug/L**	0.294	1929089	12.626

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		92.8			
	Ni	60					
>	Ge	74		84.1			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		99.2			
	Tl	205					
	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#4 - Summary Report

Sample ID: 245806008
Sample Date/Time: Friday, February 19, 2010 01:15:35
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\245806008.237

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**1.552**	**ug/L**	5.773	201	0.000
>	Sc	45		**ug/L**		1002469	1002469.316
	Ni	60	**20.237**	**ug/L**	0.641	18631	0.019
>	Ge	74		**ug/L**		210377	210377.307
	As	75	**4.010**	**ug/L**	16.661	1867	0.011
	Se	77		**ug/L**		3176	-0.004
	Se	82	**1.373**	**ug/L**	46.354	106	0.000
	Kr	83		**ug/L**		87	0.000
>	Lu	175		**ug/L**		160491	160491.115
	Tl	205	**0.144**	**ug/L**	12.649	416	0.002
	U	238	**2.773**	**ug/L**	0.974	31977	0.197

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		91.1			
	Ni	60					
>	Ge	74		85.0			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175		104.2			
	Tl	205					
	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#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, February 19, 2010 01:19:42
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 6.238

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**58.279**	ug/L	0.970	7087	0.007
>	Sc	45		ug/L		965473	965473.149
	Ni	60	**50.797**	ug/L	0.959	44979	0.047
>	Ge	74		ug/L		214526	214526.421
	As	75	**48.922**	ug/L	0.596	28057	0.133
	Se	77		ug/L		6801	0.012
	Se	82	**49.654**	ug/L	0.967	3163	0.015
	Kr	83		ug/L		39	0.000
>	Lu	175		ug/L		148764	148763.731
	Tl	205	**46.056**	ug/L	1.012	76400	0.513
	U	238	**50.584**	ug/L	1.594	535291	3.596

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	116.559				
>	Sc	45		87.7			
	Ni	60	101.594				
>	Ge	74		86.7			
	As	75	97.844				
	Se	77					
	Se	82	99.308				
	Kr	83					
>	Lu	175		96.6			
	Tl	205	92.112				
	U	238	101.169				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be	9	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, February 19, 2010 01:23:50
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lani soil.mth
Dataset File: c:\elandata\Dataset\100218\QC Std 7.239

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.036**	**ug/L**	86.516	9	0.000
>	Sc	45		**ug/L**		963845	963844.841
	Ni	60	**0.010**	**ug/L**	50.238	51	0.000
>	Ge	74		**ug/L**		219621	219621.200
	As	75	**-0.016**	**ug/L**	2348.859	-454	-0.000
	Se	77		**ug/L**		3674	-0.003
	Se	82	**0.203**	**ug/L**	21.801	35	0.000
	Kr	83		**ug/L**		34	-0.000
>	Lu	175		**ug/L**		149844	149843.932
	Tl	205	**0.171**	**ug/L**	17.037	434	0.002
	U	238	**0.037**	**ug/L**	7.247	705	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45			87.6		
	Ni	60					
>	Ge	74			88.8		
	As	75					
	Se	77					
	Se	82					
	Kr	83					
>	Lu	175			97.3		
	Tl	205					
	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

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, February 19, 2010 10:06:02
Sample Description:
Method File: c:\elandata\Method\daily2.mth
Dataset File: c:\elandata\Dataset\100125\Sample.328
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	1489.1	1489.078	43.184	2.9
	Mg	24.0	28749.5	28749.501	232.437	0.8
	Co	58.9	59460.1	59460.089	361.476	0.6
	Rh	102.9	98298.8	98298.839	439.007	0.4
	In	114.9	131859.2	131859.189	1277.638	1.0
	Pb	208.0	52661.5	52661.486	238.973	0.5
⌈>	Ba	137.9	107737.7	107737.683	629.177	0.6
⌊	Ba++	69.0	1366.9	0.013	0.000	1.4
⌈>	Ce	139.9	127413.9	127413.911	1095.808	0.9
⌊	CeO	155.9	3206.9	0.025	0.000	0.8
	Bkgd	220.0	1.3	1.300	1.037	79.8

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	4.8	1330.7
Co	59	17	5.5	40861.7
In	115	17	6.8	95754.8

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	606	2060	0.687
Be	9.0	9.0	2044	2045	0.721
Mg	24.0	24.0	5676	2065	0.654
Mg	25.0	25.0	5951	2080	0.655
Mg	26.0	26.0	6158	2085	0.650
Co	58.9	58.9	14184	2140	0.635
Rh	102.9	102.9	24866	2230	0.658
In	114.9	114.9	27778	2255	0.676
Ce	139.9	139.9	33852	2310	0.641
Pb	206.0	206.0	49941	2500	0.663
Pb	207.0	207.0	50113	2375	0.686
Pb	208.0	208.0	50436	2570	0.793
U	238.1	238.1	57706	2510	0.711

ICPMS#4 - Summary Report

Sample ID: Blank
Sample Date/Time: Friday, February 19, 2010 14:11:54
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\Blank.058

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9		ug/L		0	
Sc	45		ug/L		839247	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 1
Sample Date/Time: Friday, February 19, 2010 14:14:05
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\Standard 1.059

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	10.000	ug/L	6.843	1301	0.002
Sc	45		ug/L		861432	861431.651

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 2
Sample Date/Time: Friday, February 19, 2010 14:16:14
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\Standard 2.060

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	100.016	ug/L	3.428	12372	0.015
Sc	45		ug/L		805612	805612.142

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Friday, February 19, 2010 14:18:24
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 1.061

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	52.075	ug/L	0.900	6407	0.008
Sc	45		ug/L		800967	800967.104

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	104.149				
Sc	45		95.4			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Friday, February 19, 2010 14:20:36
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 2.062

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.052	ug/L	40.369	7	0.000
Sc	45		ug/L		793930	793929.982

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45			94.6		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Friday, February 19, 2010 14:22:48
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 3.063

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.496	ug/L	12.307	64	0.000
Sc	45		ug/L		835674	835673.666

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	99.196				
Sc	45		99.6			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Friday, February 19, 2010 14:24:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 4.064

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.102	ug/L	48.484	12	0.000
Sc	45		ug/L		728967	728967.432

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45			86.9		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Friday, February 19, 2010 14:27:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 5.065

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	17.927	ug/L	4.768	1909	0.003
Sc	45		ug/L		693507	693506.724

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	89.635				
Sc	45		82.6			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, February 19, 2010 14:29:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 6.066

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	50.142	ug/L	1.932	6156	0.008
Sc	45		ug/L		799544	799544.186

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	100.284				
Sc	45			95.3		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, February 19, 2010 14:31:36
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 7.067

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.033	ug/L	15.585	4	0.000
Sc	45		ug/L		787111	787111.041

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		93.8			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202030975
Sample Date/Time: Friday, February 19, 2010 14:33:51
Sample Type:
Sample Description: LANL 6020 MB
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\1202030975.068

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	0.011	ug/L	42.317	2	0.000
⌊>	Sc	45		ug/L		812170	812170.215

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Be	9					
⌊>	Sc	45		96.8			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202030980
Sample Date/Time: Friday, February 19, 2010 14:36:07
Sample Type:
Sample Description: LANL 6020 LCS
Number of Replicates: 3
Batch ID: 948073|40|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\1202030980.069

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	21.271	ug/L	2.499	2764	0.003
⌊>	Sc	45		ug/L		846077	846076.780

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Be	9					
⌊>	Sc	45		100.8			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, February 19, 2010 14:38:21
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 6.070

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	49.997	ug/L	1.075	6264	0.008
Sc	45		ug/L		815746	815746.484

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	99.994				
Sc	45		97.2			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, February 19, 2010 14:40:34
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 7.071

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.011	ug/L	43.411	2	0.000
Sc	45		ug/L		800752	800752.085

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45			95.4		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245806001
Sample Date/Time: Friday, February 19, 2010 14:42:50
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|sk|
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\245806001.072

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	6.540	ug/L	0.692	821	0.001
Sc	45		ug/L		817067	817066.636

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		97.4			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202030976
Sample Date/Time: Friday, February 19, 2010 14:45:07
Sample Type:
Sample Description: LANL 6020 DUP
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\1202030976.073

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	4.373	ug/L	2.344	562	0.001
Sc	45		ug/L		835955	835955.087

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		99.6			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202030978
Sample Date/Time: Friday, February 19, 2010 14:47:24
Sample Type:
Sample Description: LANL 6020 MS
Number of Replicates: 3
Batch ID: 948073|2|sk|
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\1202030978.074

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	28.373	ug/L	3.126	3507	0.004
>	Sc	45		ug/L		804738	804737.838

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
>	Sc	45		95.9			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202030979
Sample Date/Time: Friday, February 19, 2010 14:49:43
Sample Type:
Sample Description: LANL 6020 MSD
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\1202030979.075

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	28.991	ug/L	1.396	3589	0.004
Sc	45		ug/L		806061	806061.152

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45			96.0		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, February 19, 2010 14:51:58
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 6.076

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	**50.412**	**ug/L**	3.532	5967	0.008
Sc	45		**ug/L**		771150	771150.195

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	100.824				
Sc	45		91.9			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, February 19, 2010 14:54:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 7.077

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.039	ug/L	42.923	5	0.000
Sc	45		ug/L		785965	785964.801

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		93.7			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202030977
Sample Date/Time: Friday, February 19, 2010 14:56:26
Sample Type:
Sample Description: LANL 6020 SDILT
Number of Replicates: 3
Batch ID: 948073|10|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\1202030977.078

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.464	ug/L	3.055	179	0.000
Sc	45		ug/L		795000	794999.662

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		94.7			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245806002
Sample Date/Time: Friday, February 19, 2010 14:58:42
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|sk|
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\245806002.079

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	141.378	ug/L	1.316	17320	0.022
Sc	45		ug/L		797658	797658.028

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45			95.0		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245806003
Sample Date/Time: Friday, February 19, 2010 15:00:58
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\245806003.080

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	29.347	ug/L	2.946	3515	0.005
Sc	45		ug/L		779851	779850.995

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		92.9			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245806004
Sample Date/Time: Friday, February 19, 2010 15:03:15
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\245806004.081

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	54.825	ug/L	0.551	6328	0.008
Sc	45		ug/L		751494	751493.812

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		89.5			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, February 19, 2010 15:05:30
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 6.082

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	50.238	ug/L	1.772	6175	0.008
Sc	45		ug/L		800328	800328.372

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	100.475				
Sc	45		95.4			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, February 19, 2010 15:07:44
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 7.083

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.031	ug/L	53.222	4	0.000
Sc	45		ug/L		778134	778134.007

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		92.7			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245806005
Sample Date/Time: Friday, February 19, 2010 15:10:00
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\245806005.084

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.540	ug/L	14.263	182	0.000
Sc	45		ug/L		765963	765963.311

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		91.3			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245806006
Sample Date/Time: Friday, February 19, 2010 15:12:18
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\245806006.085

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	41.396	ug/L	1.605	4711	0.006
Sc	45		ug/L		740849	740848.801

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		88.3			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245806007
Sample Date/Time: Friday, February 19, 2010 15:14:37
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\245806007.086

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	9.375	ug/L	5.017	1141	0.001
Sc	45		ug/L		792420	792420.108

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		94.4			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 245806008
Sample Date/Time: Friday, February 19, 2010 15:16:51
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948073|2|skj
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\245806008.087

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	1.444	ug/L	13.957	176	0.000
⌊>	Sc	45		ug/L		791397	791397.187

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Be	9					
⌊>	Sc	45		94.3			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, February 19, 2010 15:19:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 6.088

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	52.516	ug/L	4.072	6239	0.008
Sc	45		ug/L		774118	774117.686

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9	105.032				
Sc	45		92.2			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, February 19, 2010 15:21:16
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\be only.mth
Dataset File: C:\elandata\Dataset\100219\QC Std 7.089

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.017	ug/L	76.203	2	0.000
Sc	45		ug/L		758978	758978.019

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45			90.4		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

==========

Method Name: SOIL
Method Description: 7471A, ILM04 ANALYST JXL1
Element: Hg

Date: 02/16/2010
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 021610S1.SIF Results Data Set Name: 021610S2

==========

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 02/16/2010
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0025	0.0025	08:48:33	No
2			0.0023	0.0023	08:49:08	No
Mean:			0.0024			
SD :			0.0001			
%RSD:			3.2649			

Auto-zero performed.

==========

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 02/16/2010
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0017	0.0041	08:50:31	No
2			0.0018	0.0042	08:51:05	No
Mean:			0.0017			
SD :			0.0000			
%RSD:			2.5015			

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.00873
Intercept : 0.00000

==========

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 02/16/2010
Sample ID: S0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0035	0.0059	08:52:29	No
2			0.0032	0.0056	08:53:04	No
Mean:			0.0033			
SD :			0.0002			
%RSD:			5.1881			

[Hg] Standard number 2 applied. [0.500]
Correlation Coefficient: 0.98999 Slope: 0.00657
Intercept : 0.00016

==========

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 02/16/2010
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0104	0.0128	08:54:30	No
2			0.0105	0.0129	08:55:05	No
Mean:			0.0104			
SD :			0.0000			
%RSD:			0.2507			

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99659 Slope: 0.00503
Intercept : 0.00048

==========

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 02/16/2010
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0257	0.0281	08:56:30	No
2			0.0257	0.0281	08:57:05	No
Mean:			0.0257			
SD :			0.0000			
%RSD:			0.1116			

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99952 Slope: 0.00504
Intercept : 0.00048

==========

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 02/16/2010
Sample ID: S10

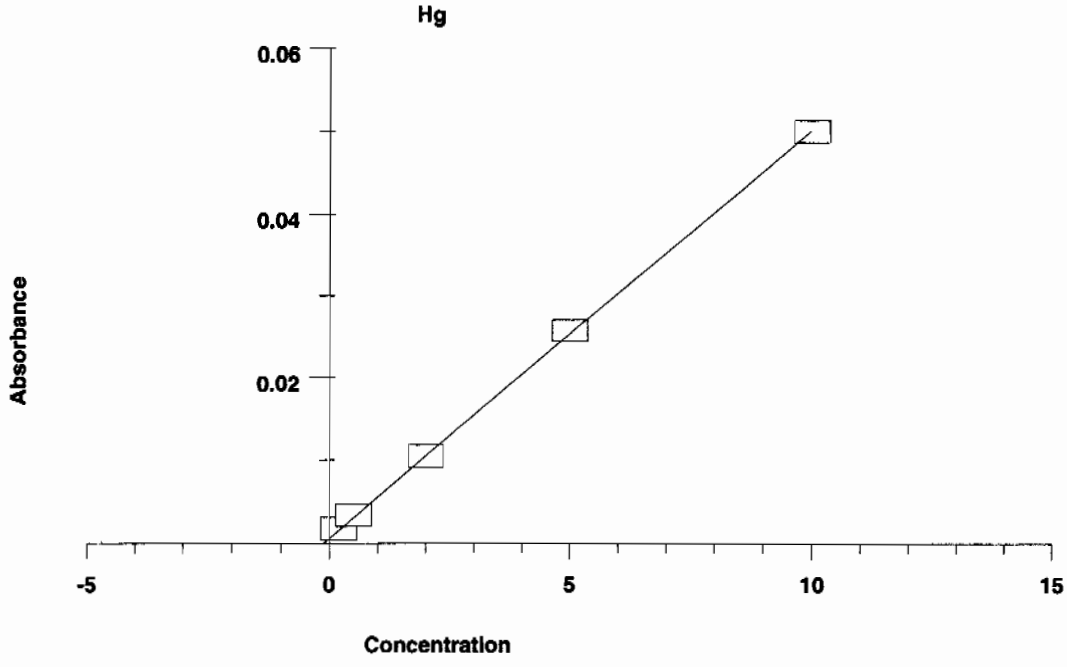
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0498	0.0522	08:58:31	No
2			0.0500	0.0524	08:59:06	No
Mean:			0.0499			
SD :			0.0001			
%RSD:			0.1977			

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99983 Slope: 0.00495
Intercept : 0.00058

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0024	---	----	----	----
S0.2	0.0017	0.200	0.235	0.0000	2.5
S0.5	0.0033	0.500	0.557	0.0002	5.2
S2.0	0.0104	2.000	1.990	0.0000	0.3
S5.0	0.0257	5.000	5.075	0.0000	0.1
S10	0.0499	10.000	9.961	0.0001	0.2

Correlation Coefficient: 0.99983 Slope: 0.00495 Intercept: 0.0006



==========

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 02/16/2010
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.030	5.030	0.0255	0.0279	09:00:34	No
2	5.059	5.059	0.0256	0.0280	09:01:09	No
Mean:	5.044	5.044	0.0256			
SD :	0.0203	0.0203	0.0001			
%RSD:	0.4	0.4	0.3931			

QC value within specified limits.

==========

Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 02/16/2010
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.020	-0.020	0.0005	0.0029	09:02:31	No
2	-0.070	-0.070	0.0002	0.0026	09:03:06	No
Mean:	-0.045	-0.045	0.0004			
SD :	0.0354	0.0354	0.0002			
%RSD:	78.9	78.9	48.4674			

QC value within specified limits.

==========

Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 02/16/2010
Sample ID: CRDL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.255	0.255	0.0018	0.0042	09:04:28	No
2	0.255	0.255	0.0018	0.0042	09:05:02	No
Mean:	0.255	0.255	0.0018			
SD :	0.0000	0.0000	0.0000			
%RSD:						

QC value within specified limits.

==========

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 02/16/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.135	5.135	0.0260	0.0284	09:06:27	No
2	5.108	5.108	0.0259	0.0283	09:07:02	No
Mean:	5.122	5.122	0.0259			
SD :	0.0194	0.0194	0.0001			
%RSD:	0.4	0.4	0.3705			

QC value within specified limits.

==========

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 02/16/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.030	0.030	0.0007	0.0031	09:08:30	No
2	0.038	0.038	0.0008	0.0032	09:09:05	No
Mean:	0.034	0.034	0.0008			
SD :	0.0054	0.0054	0.0000			
%RSD:	16.1	16.1	3.5883			

QC value within specified limits.

==========

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 02/16/2010
Sample ID: 1202029970|i||947650|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.003	-0.003	0.0006	0.0030	09:10:31	No
2	-0.032	-0.032	0.0004	0.0028	09:11:06	No
Mean:	-0.018	-0.018	0.0005			
SD :	0.0208	0.0208	0.0001			
%RSD:	117.0	117.0	20.7886			

==========

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 02/16/2010
Sample ID: 1202029971|i|10||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.056	4.056	0.0207	0.0231	09:12:30	No
2	4.021	4.021	0.0205	0.0229	09:13:05	No
Mean:	4.038	4.038	0.0206			
SD :	0.0245	0.0245	0.0001			
%RSD:	0.6	0.6	0.5896			

==========

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 02/16/2010
Sample ID: 245682001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.033	0.033	0.0007	0.0031	09:14:31	No
2	-0.020	-0.020	0.0005	0.0029	09:15:06	No
Mean:	0.007	0.007	0.0006			
SD :	0.0375	0.0375	0.0002			
%RSD:	551.5	551.5	30.1200			

==========

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 02/16/2010
Sample ID: 245682002|i|||

%RSD: 8.9 8.9 6.5532

==========

Element: Hg Seq. No.: 21 AS Loc.: 21 Date: 02/16/2010
Sample ID: 245682008|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.236	0.236	0.0018	0.0042	09:28:22	No
2	0.226	0.226	0.0017	0.0041	09:28:58	No
Mean:	0.231	0.231	0.0017			
SD :	0.0068	0.0068	0.0000			
%RSD:	3.0	3.0	1.9600			

==========

Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 02/16/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.287	5.287	0.0268	0.0292	09:30:23	No
2	5.240	5.240	0.0265	0.0289	09:30:58	No
Mean:	5.263	5.263	0.0266			
SD :	0.0336	0.0336	0.0002			
%RSD:	0.6	0.6	0.6245			

QC value within specified limits.

==========

Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 02/16/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.006	-0.006	0.0006	0.0030	09:32:26	No
2	-0.012	-0.012	0.0005	0.0029	09:33:01	No
Mean:	-0.009	-0.009	0.0005			
SD :	0.0042	0.0042	0.0000			
%RSD:	48.8	48.8	3.8689			

QC value within specified limits.

==========

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 02/16/2010
Sample ID: 245682009|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.275	0.275	0.0019	0.0043	09:34:26	No
2	0.238	0.238	0.0018	0.0042	09:35:01	No
Mean:	0.257	0.257	0.0019			
SD :	0.0259	0.0259	0.0001			
%RSD:	10.1	10.1	6.9142			

==========

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 02/16/2010
Sample ID: 245682010|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.378	0.378	0.0025	0.0049	09:36:24	No
2	0.359	0.359	0.0024	0.0048	09:36:59	No
Mean:	0.369	0.369	0.0024			
SD :	0.0136	0.0136	0.0001			
%RSD:	3.7	3.7	2.7863			

==========

Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 02/16/2010
Sample ID: 245786001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.139	0.139	0.0013	0.0037	09:38:23	No
2	0.130	0.130	0.0012	0.0036	09:38:58	No
Mean:	0.134	0.134	0.0012			
SD :	0.0064	0.0064	0.0000			
%RSD:	4.7	4.7	2.5206			

Element: Hg Seq. No.: 27 AS Loc.: 25 Date: 02/16/2010
Sample ID: 245806001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.245	0.245	0.0018	0.0042	09:40:23	No
2	0.229	0.229	0.0017	0.0041	09:40:58	No
Mean:	0.237	0.237	0.0018			
SD :	0.0115	0.0115	0.0001			
%RSD:	4.8	4.8	3.2354			

Element: Hg Seq. No.: 28 AS Loc.: 26 Date: 02/16/2010
Sample ID: 1202029972|i|||DUP

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.270	0.270	0.0019	0.0043	09:42:23	No
2	0.246	0.246	0.0018	0.0042	09:42:58	No
Mean:	0.258	0.258	0.0019			
SD :	0.0169	0.0169	0.0001			
%RSD:	6.6	6.6	4.5045			

Element: Hg Seq. No.: 29 AS Loc.: 27 Date: 02/16/2010
Sample ID: 1202029973|i|||MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.601	2.601	0.0135	0.0159	09:44:23	No
2	2.542	2.542	0.0132	0.0156	09:44:57	No
Mean:	2.572	2.572	0.0133			
SD :	0.0412	0.0412	0.0002			
%RSD:	1.6	1.6	1.5334			

Element: Hg Seq. No.: 30 AS Loc.: 28 Date: 02/16/2010
Sample ID: 1202029975|i|||MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.548	2.548	0.0132	0.0156	09:46:23	No
2	2.555	2.555	0.0132	0.0156	09:46:58	No
Mean:	2.551	2.551	0.0132			
SD :	0.0053	0.0053	0.0000			
%RSD:	0.2	0.2	0.2004			

Element: Hg Seq. No.: 31 AS Loc.: 29 Date: 02/16/2010
Sample ID: 1202029974|i|5||SDILT

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.070	-0.070	0.0002	0.0026	09:48:24	No
2	-0.067	-0.067	0.0002	0.0026	09:48:59	No
Mean:	-0.069	-0.069	0.0002			
SD :	0.0021	0.0021	0.0000			

%RSD: 3.0 3.0 4.1967

==========

Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 02/16/2010
Sample ID: 245806002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.309	0.309	0.0021	0.0045	09:50:25	No
2	0.246	0.246	0.0018	0.0042	09:51:00	No
Mean:	0.277	0.277	0.0020			
SD :	0.0445	0.0445	0.0002			
%RSD:	16.0	16.0	11.2574			

==========

Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 02/16/2010
Sample ID: 245806003|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.246	0.246	0.0018	0.0042	09:52:27	No
2	0.220	0.220	0.0017	0.0041	09:53:03	No
Mean:	0.233	0.233	0.0017			
SD :	0.0178	0.0178	0.0001			
%RSD:	7.6	7.6	5.0805			

==========

Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 02/16/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.598	5.598	0.0283	0.0307	09:54:30	No
2	5.744	5.744	0.0290	0.0314	09:55:05	No
Mean:	5.671	5.671	0.0287			
SD :	0.1031	0.1031	0.0005			
%RSD:	1.8	1.8	1.7811			

QC value within specified limits.

==========

Element: Hg Seq. No.: 35 AS Loc.: 8 Date: 02/16/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.017	0.017	0.0007	0.0031	09:56:33	No
2	0.001	0.001	0.0006	0.0030	09:57:08	No
Mean:	0.009	0.009	0.0006			
SD :	0.0107	0.0107	0.0001			
%RSD:	118.3	118.3	8.4126			

QC value within specified limits.

==========

Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 02/16/2010
Sample ID: 245806004|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.315	0.315	0.0021	0.0045	09:58:32	No
2	0.254	0.254	0.0018	0.0042	09:59:06	No
Mean:	0.285	0.285	0.0020			
SD :	0.0429	0.0429	0.0002			
%RSD:	15.1	15.1	10.6570			

==========

Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 02/16/2010
Sample ID: 245806005|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.340	0.340	0.0023	0.0047	10:00:26	No
2	0.379	0.379	0.0025	0.0049	10:01:01	No
Mean:	0.359	0.359	0.0024			
SD :	0.0278	0.0278	0.0001			
%RSD:	7.7	7.7	5.8285			

Element: Hg Seq. No.: 38 AS Loc.: 34 Date: 02/16/2010
Sample ID: 245806006|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.252	0.252	0.0018	0.0042	10:02:22	No
2	0.247	0.247	0.0018	0.0042	10:02:57	No
Mean:	0.250	0.250	0.0018			
SD :	0.0033	0.0033	0.0000			
%RSD:	1.3	1.3	0.9112			

Element: Hg Seq. No.: 39 AS Loc.: 35 Date: 02/16/2010
Sample ID: 245806007|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.466	0.466	0.0029	0.0053	10:04:18	No
2	0.421	0.421	0.0027	0.0051	10:04:53	No
Mean:	0.444	0.444	0.0028			
SD :	0.0315	0.0315	0.0002			
%RSD:	7.1	7.1	5.6140			

Element: Hg Seq. No.: 40 AS Loc.: 36 Date: 02/16/2010
Sample ID: 245806008|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.423	0.423	0.0027	0.0051	10:06:15	No
2	0.409	0.409	0.0026	0.0050	10:06:50	No
Mean:	0.416	0.416	0.0026			
SD :	0.0099	0.0099	0.0000			
%RSD:	2.4	2.4	1.8551			

Element: Hg Seq. No.: 41 AS Loc.: 37 Date: 02/16/2010
Sample ID: 1202029993|i||947654|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.104	0.104	0.0011	0.0035	10:08:12	No
2	0.069	0.069	0.0009	0.0033	10:08:47	No
Mean:	0.087	0.087	0.0010			
SD :	0.0250	0.0250	0.0001			
%RSD:	28.9	28.9	12.2296			

Element: Hg Seq. No.: 42 AS Loc.: 38 Date: 02/16/2010
Sample ID: 1202029994|i|10||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.793	4.793	0.0243	0.0267	10:10:10	No
2	4.858	4.858	0.0246	0.0270	10:10:45	No
Mean:	4.826	4.826	0.0245			
SD :	0.0458	0.0458	0.0002			

%RSD: 0.9 0.9 0.9273

==========

Element: Hg Seq. No.: 43 AS Loc.: 39 Date: 02/16/2010
Sample ID: 245688001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored

==========

Element: Hg Seq. No.: 43 AS Loc.: 7 Date: 02/16/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.564	5.564	0.0281	0.0305	10:13:29	No
2	5.567	5.567	0.0281	0.0305	10:14:03	No
Mean:	5.566	5.566	0.0281			
SD :	0.0016	0.0016	0.0000			
%RSD:						

QC value within specified limits.

==========

Element: Hg Seq. No.: 44 AS Loc.: 8 Date: 02/16/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.092	0.092	0.0010	0.0034	10:15:32	No
2	0.097	0.097	0.0011	0.0035	10:16:06	No
Mean:	0.094	0.094	0.0010			
SD :	0.0035	0.0035	0.0000			
%RSD:	3.7	3.7	1.6345			

==========

Method Name: SOIL
Method Description: 7471A, ILM04 ANALYST JXL1
Element: Hg

Date: 02/16/2010
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 021610S1.SIF Results Data Set Name: 021610S2

==========

Element: Hg Seq. No.: 45 AS Loc.: 1 Date: 02/16/2010
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0032	0.0032	10:18:51	No
2			0.0031	0.0031	10:19:26	No
Mean:			0.0031			
SD :			0.0000			
%RSD:			1.1573			

Auto-zero performed.

==========

Element: Hg Seq. No.: 46 AS Loc.: 2 Date: 02/16/2010
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0029	0.0060	10:20:48	No
2			0.0029	0.0060	10:21:23	No
Mean:			0.0029			

Miscellaneous

Prep LogBook

Analyst: FGA Verified by:_____

Batch: 948070

Lab SOP: GL-MA-E-009 REV# 19

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202030974	UI062540-I	.514	g
MS	1202030972	UI100120-01	.25	mL
MS	1202030972	UI100120-06	.25	mL
MSD	1202030973	UI100120-01	.25	mL
MSD	1202030973	UI100120-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202030969		SW846 3050B	08-FEB-2010 14:00	0.523 g	50 mL	95.60229	SOIL
LCS	1202030974		SW846 3050B	08-FEB-2010 14:00	0.514 g	50 mL	97.27626	SOIL
SAMPLE	245806001		SW846 3050B	08-FEB-2010 14:00	0.532 g	50 mL	93.98496	SOIL
DUP	1202030970	245806001	SW846 3050B	08-FEB-2010 14:00	0.532 g	50 mL	93.98496	SOIL
SDILT	1202030971	245806001	SW846 3050B	08-FEB-2010 14:00	0.532 g	50 mL	93.98496	SOIL
MS	1202030972	245806001	SW846 3050B	08-FEB-2010 14:00	0.52 g	50 mL	96.15385	SOIL
MSD	1202030973	245806001	SW846 3050B	08-FEB-2010 14:00	0.526 g	50 mL	95.05703	SOIL
SAMPLE	245806002		SW846 3050B	08-FEB-2010 14:00	0.523 g	50 mL	95.60229	SOIL
SAMPLE	245806003		SW846 3050B	08-FEB-2010 14:00	0.521 g	50 mL	95.96929	SOIL
SAMPLE	245806004		SW846 3050B	08-FEB-2010 14:00	0.53 g	50 mL	94.33962	SOIL
SAMPLE	245806005		SW846 3050B	08-FEB-2010 14:00	0.513 g	50 mL	97.46589	SOIL
SAMPLE	245806006		SW846 3050B	08-FEB-2010 14:00	0.522 g	50 mL	95.78544	SOIL
SAMPLE	245806007		SW846 3050B	08-FEB-2010 14:00	0.517 g	50 mL	96.7118	SOIL
SAMPLE	245806008		SW846 3050B	08-FEB-2010 14:00	0.514 g	50 mL	97.27626	SOIL

Reagent/Solvent Lot ID	Amount	Description
1265209	10 mL	HYDROCHLORIC ACID
1264396	1.25 mL	Nitric Acid CONC.

Comments Gray,soil w/artifacts.

Prep LogBook

Analyst: FGA Verified by:_____

Batch: 948072

Lab SOP: GL-MA-E-009 REV# 19

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202030980	UI062540-MS	.515	g
MS	1202030978	UI091015-A	.5	mL
MS	1202030978	UI091015-B	.5	mL
MSD	1202030979	UI091015-A	.5	mL
MSD	1202030979	UI091015-B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202030975		SW846 3050B	08-FEB-2010 14:00	0.506 g	50 mL	98.81423	SOIL
LCS	1202030980		SW846 3050B	08-FEB-2010 14:00	0.515 g	50 mL	97.08738	SOIL
SAMPLE	245806001		SW846 3050B	08-FEB-2010 14:00	0.507 g	50 mL	98.61933	SOIL
DUP	1202030976	245806001	SW846 3050B	08-FEB-2010 14:00	0.504 g	50 mL	99.20635	SOIL
SDILT	1202030977	245806001	SW846 3050B	08-FEB-2010 14:00	0.507 g	50 mL	98.61933	SOIL
MS	1202030978	245806001	SW846 3050B	08-FEB-2010 14:00	0.502 g	50 mL	99.60159	SOIL
MSD	1202030979	245806001	SW846 3050B	08-FEB-2010 14:00	0.509 g	50 mL	98.23183	SOIL
SAMPLE	245806002		SW846 3050B	08-FEB-2010 14:00	0.517 g	50 mL	96.7118	SOIL
SAMPLE	245806003		SW846 3050B	08-FEB-2010 14:00	0.523 g	50 mL	95.60229	SOIL
SAMPLE	245806004		SW846 3050B	08-FEB-2010 14:00	0.521 g	50 mL	95.96929	SOIL
SAMPLE	245806005		SW846 3050B	08-FEB-2010 14:00	0.532 g	50 mL	93.98496	SOIL
SAMPLE	245806006		SW846 3050B	08-FEB-2010 14:00	0.534 g	50 mL	93.63296	SOIL
SAMPLE	245806007		SW846 3050B	08-FEB-2010 14:00	0.515 g	50 mL	97.08738	SOIL
SAMPLE	245806008		SW846 3050B	08-FEB-2010 14:00	0.512 g	50 mL	97.65625	SOIL

Reagent/Solvent Lot ID	Amount	Description
1203655-02	1.5 mL	Hydrogen Peroxide 30%
1264396	5 mL	Nitric Acid CONC.

Comments: Gray,soil w/artifacts.

Prep LogBook

Analyst: TXB3 Verified by:_____

Batch: 947648

Lab SOP: GL-MA-E-010 REV# 23

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202029971	UI031809A	.209	g
MS	1202029973	WHG100215-14	.3	mL
MSD	1202029975	WHG100215-14	.3	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202029970		SW846 7471A Prep	15-FEB-2010 16:45	0.535 g	30 mL	56.07477	SOIL
LCS	1202029971		SW846 7471A Prep	15-FEB-2010 16:45	0.209 g	30 mL	143.54067	SOIL
SAMPLE	245682001		SW846 7471A Prep	15-FEB-2010 16:45	0.51 g	30 mL	58.82353	SOIL
SAMPLE	245682002		SW846 7471A Prep	15-FEB-2010 16:45	0.5 g	30 mL	60	SOIL
SAMPLE	245682003		SW846 7471A Prep	15-FEB-2010 16:45	0.557 g	30 mL	53.85996	SOIL
SAMPLE	245682004		SW846 7471A Prep	15-FEB-2010 16:45	0.586 g	30 mL	51.19454	SOIL
SAMPLE	245682005		SW846 7471A Prep	15-FEB-2010 16:45	0.598 g	30 mL	50.16722	SOIL
SAMPLE	245682006		SW846 7471A Prep	15-FEB-2010 16:45	0.554 g	30 mL	54.15162	SOIL
SAMPLE	245682007		SW846 7471A Prep	15-FEB-2010 16:45	0.58 g	30 mL	51.72414	SOIL
SAMPLE	245682008		SW846 7471A Prep	15-FEB-2010 16:45	0.581 g	30 mL	51.63511	SOIL
SAMPLE	245682009		SW846 7471A Prep	15-FEB-2010 16:45	0.504 g	30 mL	59.52381	SOIL
SAMPLE	245682010		SW846 7471A Prep	15-FEB-2010 16:45	0.555 g	30 mL	54.05405	SOIL
SAMPLE	245786001		SW846 7471A Prep	15-FEB-2010 16:45	0.58 g	30 mL	51.72414	SOIL
SAMPLE	245806001		SW846 7471A Prep	15-FEB-2010 16:45	0.524 g	30 mL	57.25191	SOIL
DUP	1202029972	245806001	SW846 7471A Prep	15-FEB-2010 16:45	0.504 g	30 mL	59.52381	SOIL
MS	1202029973	245806001	SW846 7471A Prep	15-FEB-2010 16:45	0.595 g	30 mL	50.42017	SOIL
MSD	1202029975	245806001	SW846 7471A Prep	15-FEB-2010 16:45	0.593 g	30 mL	50.59022	SOIL
SDILT	1202029974	245806001	SW846 7471A Prep	15-FEB-2010 16:45	0.524 g	30 mL	57.25191	SOIL
SAMPLE	245806002		SW846 7471A Prep	15-FEB-2010 16:45	0.572 g	30 mL	52.44755	SOIL
SAMPLE	245806003		SW846 7471A Prep	15-FEB-2010 16:45	0.544 g	30 mL	55.14706	SOIL
SAMPLE	245806004		SW846 7471A Prep	15-FEB-2010 16:45	0.562 g	30 mL	53.38078	SOIL
SAMPLE	245806005		SW846 7471A Prep	15-FEB-2010 16:45	0.521 g	30 mL	57.58157	SOIL
SAMPLE	245806006		SW846 7471A Prep	15-FEB-2010 16:45	0.5 g	30 mL	60	SOIL
SAMPLE	245806007		SW846 7471A Prep	15-FEB-2010 16:45	0.501 g	30 mL	59.88024	SOIL
SAMPLE	245806008		SW846 7471A Prep	15-FEB-2010 16:45	0.508 g	30 mL	59.05512	SOIL

Reagent/Solvent Lot ID	Amount	Description
1264796-A	1.125 mL	Hydrochloric Acid Conc.
1257474-1	.375 mL	NITRIC ACID
1264984-C	7.5 mL	5% KMnO4 solution
1255532-C	2 mL	Hg reducing agent

Comments: Sample 245806001 is a dry brown soil.
Digestion Start Date: 15-FEB-10 16:45
Digestion End Date: 15-FEB-10 17:15

Prep LogBook

WHG100215-07	30 uL	Mercury Working Standard 1st Source CAL S 0.2/CRA
WHG100215-08	75 uL	Mercury Working Standard 1st Source CAL S 0.5
WHG100215-11	1.5 mL	Mercury Working 1st Source CAL S 10.0
WHG100215-09	300 uL	Mercury Working 1st Source CAL S 2.0
WHG100215-10	750 uL	Mercury Working 1st Source CAL S 5.0/CCV
WHG100215-12	750 uL	Mercury Working 2nd Source S 5.0/ICV

DATA EXCEPTION REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
19-FEB-10	Industrial	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
ICP/MS	SW846 3050B/6020	Solid	LANL
Batch ID:	**Sample Numbers:**		
948073	See Below		

Potentially affected work order(s)(SDG): 245806(10-1474)

Application Issues:

Failed RPD for DUP

Failed Recovery for MSD/PSD

Specification and Requirements Exception Description:	DER Disposition:
1. Failed RPD for DUP: QC 1202030976DUP	The matrix spike duplicate recovery failed outside of the control limits for Ni due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.
2. Failed Recovery for MSD/PSD: QC 1202030979MSD	The sample and sample duplicate % RPD failed outside the control limits for Ni, U, and Be due to possible sample non-homogeneity and/or matrix interference. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

Originator's Name:

Samantha Jacobs 23-FEB-10

Data Validator/Group Leader:

Rose Jenkins 24-FEB-10

DATA EXCEPTION REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
24-FEB-10	Industrial	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
ICP	SW846 3050B/6010B	Solid	LANL
Batch ID:	**Sample Numbers:**		
948071	See Below		

Potentially affected work order(s)(SDG): 245806(10-1474)

Application Issues:

Failed Recovery for MS/PS

Failed RPD for MS/MSD, or PS/PSD

Failed RPD for DUP

Failed Recovery for MSD/PSD

Specification and Requirements Exception Description:	DER Disposition:
1. Failed Recovery for MS/PS: QC 1202030972MS 2. Failed RPD for DUP: QC 1202030970DUP 3. Failed RPD for MS/MSD, or PS/PSD: QC 1202030973MSD 4. Failed Recovery for MSD/PSD: QC 1202030973MSD	1. The matrix spike recovery failed outside of the control limits for copper,magnesium,manganese and potassium due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported. 2. The sample and sample duplicate % RPD failed outside the control limits for antimony,chromium,cobalt and copper 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. 3. The matrix spike and matrix spike duplicate % RPD failed outside of the control limits for copper due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported. 4. The matrix spike duplicate recovery failed outside of the control limits for copper,magnesium,manganese and potassium due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

Originator's Name:
Helen Camello 24-FEB-10

Data Validator/Group Leader:
Louise Smith 24-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

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%IN5%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 S **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: 02SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L

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 Sta **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

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

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

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 :** H20/tr HF
Supplier: ENVIRNMENTAL EXPRESS
Description: SILICON 1000mg/L H20/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 Standa **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 Standa **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

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
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: UI100120-01 **Opened:** 20-JAN-10 **Lot Number :** 1018095
Name: METALSPIKE-1 **Received:** 20-JAN-10
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: OS2I

Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI100120-06 **Opened:** 20-JAN-10 **Lot Number :** 1018096
Name: METALSPIKE-2 **Received:** 20-JAN-10
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

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

Standard Logbook

Serial ID: UI100210-48 **Opened:** 11-FEB-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 10-FEB-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 11-FEB-11 **Lot Number :** 1018807
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: UI100211-40 **Opened:** 11-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 10-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 11-FEB-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

Serial ID: UI100211-41 **Opened:** 11-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 10-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 11-FEB-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

Analyte	Concentration	Analyte	Concentration
Sodium	500000 ug/L	Uranium	15000 ug/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

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: 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

Standard Logbook

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: IHG100215-01 **Opened:** 15-FEB-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 15-FEB-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 16-FEB-10 **Solvent :** 1mL HNO3 + Typel H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100215-02 **Opened:** 15-FEB-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 15-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Intermediate **Expires:** 16-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: WHG100215-07 **Opened:** 15-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.2CRA **Received:** 15-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 22-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.
IHG100215-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Serial ID: WHG100215-08 **Opened:** 15-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.5 **Received:** 15-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 22-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working Standard 1st Source CAL S 0.5
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100215-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100215-09 **Opened:** 15-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS2.0 **Received:** 15-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 22-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.
IHG100215-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100215-10 **Opened:** 15-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 15-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 22-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.
IHG100215-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100215-11 **Opened:** 15-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 15-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 22-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.
IHG100215-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Serial ID: WHG100215-12 **Opened:** 15-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 15-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 22-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 2nd Source S 5.0/ICV
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100215-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100215-14 **Opened:** 15-FEB-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 15-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 22-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: WI100216-42 **Opened:** 16-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1270010
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.
WI100216-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100216-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100216-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100216-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100216-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100216-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100216-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100216-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100216-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100216-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100216-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100216-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100216-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100216-43 **Opened:** 16-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1270010
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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100216-44 **Opened:** 16-FEB-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-FEB-10 **Solvent :** 3%HCL and 1 %HNO3-1270010
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100216-45 **Opened:** 16-FEB-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1270010
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: WI100216-46 **Opened:** 16-FEB-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-FEB-10 **Solvent :** 3%HCL AND 1%HNO3-1270010
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100216-47 **Opened:** 16-FEB-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-FEB-10 **Solvent :** 3%HCL &1%HNO3-1270010
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100223-42 **Opened:** 23-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 24-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1272839
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.
WI100223-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100223-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100223-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100223-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100223-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100223-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100223-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100223-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100223-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100223-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100223-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100223-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100223-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100223-43 **Opened:** 23-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 24-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1272839
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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100223-44 **Opened:** 23-FEB-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 24-FEB-10 **Solvent :** 3%HCL and 1 %HNO3-1272839
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100223-45 **Opened:** 23-FEB-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 24-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1272839
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: WI100223-46 **Opened:** 23-FEB-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 24-FEB-10 **Solvent :** 3%HCL AND 1%HNO3-1272839
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100223-47 **Opened:** 23-FEB-10 **Balance Id :** 216

Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809

Type: Working **Expires:** 24-FEB-10 **Solvent :** 3%HCL &1%HNO3-1272839

Employee: Helen Camello

Supplier: 02si

Description: PQL Working Standard

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100217-04B **Opened:** 17-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 17-FEB-10 **Balance Id :** 40245216
Type: Working **Expires:** 18-FEB-10 **Pipet Id :** 1758088
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl- 1269792
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	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Serial ID: WMS100218-04 **Opened:** 18-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 18-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 19-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.	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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100218-04A **Opened:** 18-FEB-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 18-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 19-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.
WMS100217-04B	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100217-04B	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100217-04B	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100217-04B	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100217-04B	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100217-04B	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100217-04B	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100217-04B	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100217-04B	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Tin	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100217-04B	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100217-04B	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100217-04B	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100218-05 **Opened:** 18-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 18-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 19-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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100218-06 **Opened:** 18-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 18-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 19-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

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100218-07 **Opened:** 18-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 18-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 19-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: WMS100218-08 **Opened:** 18-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 18-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 19-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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100218-70 **Opened:** 18-FEB-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 18-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 19-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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100219-04 **Opened:** 19-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 19-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 20-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.	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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100219-04A **Opened:** 19-FEB-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 19-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 20-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.
WMS100219-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100219-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100219-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100219-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100219-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100219-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100219-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100219-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100219-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100219-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100219-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100219-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100219-05 **Opened:** 19-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 19-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 20-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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100219-06 **Opened:** 19-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 19-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 20-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

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100219-07 **Opened:** 19-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 19-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 20-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: WMS100219-08 **Opened:** 19-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 19-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 20-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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: 100202 **Opened:** 02-FEB-10 **Lot Number :** 200930201
Name: I-HCL **Received:** 02-FEB-10
Type: Reagent/Solvent **Expires:** 02-FEB-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Standard Logbook

Serial ID: 1100721TCLP **Opened:** 16-APR-09 **Lot Number :** H02026 L
Name: I-HNO3 **Received:** 02-APR-09
Type: Reagent/Solvent **Expires:** 02-APR-10
Employee: Clifford Postell
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-07
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Serial ID: 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: Hydroxlyamine Hydrochloride
Comments: None

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Standard Logbook

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: 1264396 **Opened:** 03-FEB-10 **Lot Number :** H51025 L
Name: I-HNO3 **Received:** 02-FEB-10
Type: Reagent/Solvent **Expires:** 03-FEB-11
Employee: Bryan Davis
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1264796-A **Opened:** 04-FEB-10 **Lot Number :** 200930201
Name: B-HCl-MER **Received:** 04-FEB-10
Type: Reagent/Solvent **Expires:** 04-FEB-11
Employee: Tara Griffin
Supplier: Aristar
Description: Hydrochloric Acid Conc.
Comments: None

Serial ID: 1264984-C **Opened:** 04-FEB-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 04-FEB-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1265209 **Opened:** 04-FEB-10 **Lot Number :** J02039
Name: I-HCL **Received:** 04-FEB-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 04-FEB-11
Employee: Bryan Davis
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Standard Logbook

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

Serial ID: 1270010 **Opened:** 15-FEB-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 05-FEB-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 21-FEB-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Serial ID: 1272839 **Opened:** 22-FEB-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 12-FEB-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 28-FEB-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Metals Analysis

Case Narrative

Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1474-1

Sample Analysis

Sample ID	**Client ID**
245807001	RE15-10-8081
245807002	RE15-10-8082
1202031021	Method Blank (MB) **ICP**
1202031026	Laboratory Control Sample (LCS)
1202031023	245673001(CAMO-10-9311L) Serial Dilution (SD)
1202031022	245673001(CAMO-10-9311D) Sample Duplicate (DUP)
1202031024	245673001(CAMO-10-9311S) Matrix Spike (MS)
1202031027	Method Blank (MB) **ICP-MS**
1202031028	Laboratory Control Sample (LCS)
1202031031	245676001(CAWR-10-11786L) Serial Dilution (SD)
1202031029	245676001(CAWR-10-11786D) Sample Duplicate (DUP)
1202031030	245676001(CAWR-10-11786S) Matrix Spike (MS)
1202029965	Method Blank (MB) **CVAA**
1202029966	Laboratory Control Sample (LCS)
1202029969	245807001(RE15-10-8081L) Serial Dilution (SD)
1202029967	245807001(RE15-10-8081D) Sample Duplicate (DUP)
1202029968	245807001(RE15-10-8081S) Matrix Spike (MS)

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

Method/Analysis Information

Analytical Batch:	948088, 948090 and 947646
Prep Batch :	948085, 948089 and 947645
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 5300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

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

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

Calibration Information

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

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

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

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

Continuing Calibration Verification (CCV) Requirements
All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement
The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement
The following samples were selected as the quality control (QC) samples for this SDG: 245673001, 245676001 and 245807001.

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 instruments. Dilutions were required for this SDG in order to minimize tin suppression due to matrix interferences.

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: Kristen Parson **Date:** 2/26/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474-1 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245807001 **BASIS:** As Received **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8081 **LEVEL:** Low **DATE RECEIVED** 29-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	02/25/10 16:33	022510-1	948088
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	02/20/10 22:38	100220-2	948090
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	02/21/10 11:54	100220-7	948090
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	02/20/10 22:38	100220-2	948090
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	02/25/10 16:33	022510-1	948088
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	02/25/10 16:33	022510-1	948088
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	02/21/10 11:54	100220-7	948090
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	02/25/10 16:33	022510-1	948088
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	02/21/10 11:54	100220-7	948090
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/15/10 11:13	021510W1-9	947646
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-09-7	Potassium	180	ug/L		50	150	150	1	P	HSC	02/25/10 16:33	022510-1	948088
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-23-5	Sodium	160	ug/L	J	100	300	300	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BAJ	02/20/10 22:38	100220-2	948090
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	02/21/10 13:39	100221-8	948090
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:33	022510-1	948088
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	02/25/10 16:33	022510-1	948088

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947646	947645	SW846 7470A Prep	20	mL	20	mL	02/12/10	TXB3
948088	948085	SW846 3005A	25	mL	25	mL	02/25/10	AXG2
948090	948089	SW846 3005A	50	mL	50	mL	02/03/10	LYH1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1474-1 **CONTRACT:** LANL01004 **METHOD TYPE:** SW846

SAMPLE ID: 245807002 **BASIS:** As Received **DATE COLLECTED** 26-JAN-10

CLIENT ID: RE15-10-8082 **LEVEL:** Low **DATE RECEIVED** 29-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	02/25/10 16:39	022510-1	948088
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	02/20/10 22:44	100220-2	948090
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	02/21/10 11:56	100220-7	948090
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	02/20/10 22:44	100220-2	948090
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	02/25/10 16:39	022510-1	948088
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	02/25/10 16:39	022510-1	948088
7439-92-1	Lead	0.604	ug/L	J	0.5	2	2	1	MS	BAJ	02/21/10 11:56	100220-7	948090
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	02/25/10 16:39	022510-1	948088
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	02/21/10 11:56	100220-7	948090
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/15/10 11:25	021510W1-9	947646
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-09-7	Potassium	82.7	ug/L	J	50	150	150	1	P	HSC	02/25/10 16:39	022510-1	948088
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-23-5	Sodium	154	ug/L	J	100	300	300	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BAJ	02/20/10 22:44	100220-2	948090
7440-61-1	Uranium	0.088	ug/L	J	0.05	0.2	0.2	1	MS	BAJ	02/21/10 13:41	100221-8	948090
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	02/25/10 16:39	022510-1	948088
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	02/25/10 16:39	022510-1	948088

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
947646	947645	SW846 7470A Prep	20	mL	20	mL	02/12/10	TXB3
948088	948085	SW846 3005A	25	mL	25	mL	02/25/10	AXG2
948090	948089	SW846 3005A	50	mL	50	mL	02/03/10	LYH1

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
ICV01										
	Mercury	5.02	ug/L	5	ug/L	100.4	90.0 - 110.0	AV	15-FEB-10 09:34	021510W1-9
	Antimony	51.2	ug/L	50	ug/L	102.4	90.0 - 110.0	MS	20-FEB-10 16:41	100220-2
	Cadmium	50.6	ug/L	50	ug/L	101.2	90.0 - 110.0	MS	20-FEB-10 16:41	100220-2
	Thallium	52.3	ug/L	50	ug/L	104.6	90.0 - 110.0	MS	20-FEB-10 16:41	100220-2
	Beryllium	51.8	ug/L	50	ug/L	103.6	90.0 - 110.0	MS	21-FEB-10 10:39	100220-7
	Lead	51.6	ug/L	50	ug/L	103.2	90.0 - 110.0	MS	21-FEB-10 10:39	100220-7
	Manganese	54.7	ug/L	50	ug/L	109.5	90.0 - 110.0	MS	21-FEB-10 10:39	100220-7
	Uranium	51.2	ug/L	50	ug/L	102.4	90.0 - 110.0	MS	21-FEB-10 12:09	100221-8
	Aluminum	5520	ug/L	5000	ug/L	110.5	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Arsenic	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Barium	524	ug/L	500	ug/L	104.9	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Calcium	5410	ug/L	5000	ug/L	108.1	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Chromium	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Cobalt	518	ug/L	500	ug/L	103.7	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Copper	521	ug/L	500	ug/L	104.1	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Iron	5250	ug/L	5000	ug/L	105	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Magnesium	5370	ug/L	5000	ug/L	107.5	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Nickel	488	ug/L	500	ug/L	97.6	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Potassium	2630	ug/L	2500	ug/L	105.1	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Selenium	2650	ug/L	2500	ug/L	106.1	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Silver	252	ug/L	250	ug/L	101	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Sodium	2380	ug/L	2500	ug/L	95.2	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Vanadium	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
	Zinc	492	ug/L	500	ug/L	98.3	90.0 - 110.0	P	25-FEB-10 12:50	022510-1
CCV01										
	Mercury	5.04	ug/L	5	ug/L	100.8	80.0 - 120.0	AV	15-FEB-10 09:40	021510W1-9
	Antimony	51.5	ug/L	50	ug/L	102.9	90.0 - 110.0	MS	20-FEB-10 17:11	100220-2
	Cadmium	51.4	ug/L	50	ug/L	102.9	90.0 - 110.0	MS	20-FEB-10 17:11	100220-2
	Thallium	53.3	ug/L	50	ug/L	106.6	90.0 - 110.0	MS	20-FEB-10 17:11	100220-2
	Beryllium	51.8	ug/L	50	ug/L	103.5	90.0 - 110.0	MS	21-FEB-10 10:50	100220-7

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Lead	51	ug/L	50	ug/L	102.1	90.0 - 110.0	MS	21-FEB-10 10:50	100220-7
	Manganese	51.7	ug/L	50	ug/L	103.4	90.0 - 110.0	MS	21-FEB-10 10:50	100220-7
	Uranium	49.1	ug/L	50	ug/L	98.2	90.0 - 110.0	MS	21-FEB-10 12:17	100221-8
	Aluminum	5040	ug/L	5000	ug/L	100.8	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Arsenic	504	ug/L	500	ug/L	100.7	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Barium	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Calcium	5130	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Chromium	478	ug/L	500	ug/L	95.6	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Cobalt	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Copper	473	ug/L	500	ug/L	94.6	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Iron	5000	ug/L	5000	ug/L	100.1	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Nickel	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Potassium	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Selenium	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Silver	479	ug/L	500	ug/L	95.9	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Sodium	10000	ug/L	10000	ug/L	100.3	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Vanadium	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
	Zinc	475	ug/L	500	ug/L	95.1	90.0 - 110.0	P	25-FEB-10 13:38	022510-1
CCV02										
	Mercury	5.12	ug/L	5	ug/L	102.3	80.0 - 120.0	AV	15-FEB-10 10:04	021510W1-9
	Antimony	52.4	ug/L	50	ug/L	104.9	90.0 - 110.0	MS	20-FEB-10 17:30	100220-2
	Cadmium	51.4	ug/L	50	ug/L	102.8	90.0 - 110.0	MS	20-FEB-10 17:30	100220-2
	Thallium	53.8	ug/L	50	ug/L	107.5	90.0 - 110.0	MS	20-FEB-10 17:30	100220-2
	Beryllium	54	ug/L	50	ug/L	108	90.0 - 110.0	MS	21-FEB-10 11:03	100220-7
	Lead	50.3	ug/L	50	ug/L	100.7	90.0 - 110.0	MS	21-FEB-10 11:03	100220-7
	Manganese	50.4	ug/L	50	ug/L	100.9	90.0 - 110.0	MS	21-FEB-10 11:03	100220-7
	Uranium	47.7	ug/L	50	ug/L	95.4	90.0 - 110.0	MS	21-FEB-10 12:35	100221-8
	Aluminum	5060	ug/L	5000	ug/L	101.1	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Arsenic	483	ug/L	500	ug/L	96.5	90.0 - 110.0	P	25-FEB-10 14:08	022510-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Barium	475	ug/L	500	ug/L	94.9	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Calcium	5360	ug/L	5000	ug/L	107.3	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Chromium	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Cobalt	475	ug/L	500	ug/L	94.9	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Copper	470	ug/L	500	ug/L	94	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Iron	5320	ug/L	5000	ug/L	106.4	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Magnesium	5440	ug/L	5000	ug/L	108.8	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Nickel	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Potassium	5000	ug/L	5000	ug/L	100.1	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Selenium	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Silver	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Sodium	10600	ug/L	10000	ug/L	105.8	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Vanadium	478	ug/L	500	ug/L	95.6	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
	Zinc	469	ug/L	500	ug/L	93.8	90.0 - 110.0	P	25-FEB-10 14:08	022510-1
CCV03										
	Mercury	5.14	ug/L	5	ug/L	102.8	80.0 - 120.0	AV	15-FEB-10 10:28	021510W1-9
	Antimony	50.7	ug/L	50	ug/L	101.4	90.0 - 110.0	MS	20-FEB-10 18:19	100220-2
	Cadmium	50.6	ug/L	50	ug/L	101.3	90.0 - 110.0	MS	20-FEB-10 18:19	100220-2
	Thallium	53.4	ug/L	50	ug/L	106.7	90.0 - 110.0	MS	20-FEB-10 18:19	100220-2
	Beryllium	51.4	ug/L	50	ug/L	102.7	90.0 - 110.0	MS	21-FEB-10 11:25	100220-7
	Lead	50.7	ug/L	50	ug/L	101.3	90.0 - 110.0	MS	21-FEB-10 11:25	100220-7
	Manganese	52.5	ug/L	50	ug/L	104.9	90.0 - 110.0	MS	21-FEB-10 11:25	100220-7
	Uranium	46.9	ug/L	50	ug/L	93.8	90.0 - 110.0	MS	21-FEB-10 12:52	100221-8
	Aluminum	5140	ug/L	5000	ug/L	102.8	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Arsenic	488	ug/L	500	ug/L	97.6	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Barium	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Calcium	5170	ug/L	5000	ug/L	103.5	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Chromium	485	ug/L	500	ug/L	96.9	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Cobalt	488	ug/L	500	ug/L	97.5	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Copper	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	25-FEB-10 15:31	022510-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Iron	5050	ug/L	5000	ug/L	101	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Magnesium	5230	ug/L	5000	ug/L	104.6	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Nickel	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Potassium	5040	ug/L	5000	ug/L	100.7	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Selenium	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Silver	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Sodium	10300	ug/L	10000	ug/L	103.1	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Vanadium	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
	Zinc	482	ug/L	500	ug/L	96.3	90.0 - 110.0	P	25-FEB-10 15:31	022510-1
CCV04										
	Mercury	5.1	ug/L	5	ug/L	102.1	80.0 - 120.0	AV	15-FEB-10 10:51	021510W1-9
	Antimony	52.9	ug/L	50	ug/L	105.8	90.0 - 110.0	MS	20-FEB-10 18:44	100220-2
	Cadmium	52.9	ug/L	50	ug/L	105.9	90.0 - 110.0	MS	20-FEB-10 18:44	100220-2
	Thallium	54.2	ug/L	50	ug/L	108.3	90.0 - 110.0	MS	20-FEB-10 18:44	100220-2
	Beryllium	51.3	ug/L	50	ug/L	102.6	90.0 - 110.0	MS	21-FEB-10 11:43	100220-7
	Lead	49.9	ug/L	50	ug/L	99.7	90.0 - 110.0	MS	21-FEB-10 11:43	100220-7
	Manganese	51.6	ug/L	50	ug/L	103.1	90.0 - 110.0	MS	21-FEB-10 11:43	100220-7
	Uranium	46.2	ug/L	50	ug/L	92.4	90.0 - 110.0	MS	21-FEB-10 13:13	100221-8
	Aluminum	5060	ug/L	5000	ug/L	101.2	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Arsenic	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Barium	492	ug/L	500	ug/L	98.3	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Calcium	5090	ug/L	5000	ug/L	101.7	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Chromium	490	ug/L	500	ug/L	98.1	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Cobalt	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Copper	484	ug/L	500	ug/L	96.8	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Iron	4880	ug/L	5000	ug/L	97.6	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Magnesium	5100	ug/L	5000	ug/L	102	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Nickel	495	ug/L	500	ug/L	98.9	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Potassium	4930	ug/L	5000	ug/L	98.6	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Selenium	505	ug/L	500	ug/L	101	90.0 - 110.0	P	25-FEB-10 16:46	022510-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Silver	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Sodium	9690	ug/L	10000	ug/L	96.9	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Vanadium	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
	Zinc	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	25-FEB-10 16:46	022510-1
CCV05										
	Mercury	5.1	ug/L	5	ug/L	102	80.0 - 120.0	AV	15-FEB-10 11:15	021510W1-9
	Antimony	50.4	ug/L	50	ug/L	100.9	90.0 - 110.0	MS	20-FEB-10 19:21	100220-2
	Cadmium	49.6	ug/L	50	ug/L	99.2	90.0 - 110.0	MS	20-FEB-10 19:21	100220-2
	Thallium	51.8	ug/L	50	ug/L	103.5	90.0 - 110.0	MS	20-FEB-10 19:21	100220-2
	Beryllium	49.9	ug/L	50	ug/L	99.7	90.0 - 110.0	MS	21-FEB-10 11:58	100220-7
	Lead	50.5	ug/L	50	ug/L	101	90.0 - 110.0	MS	21-FEB-10 11:58	100220-7
	Manganese	50.8	ug/L	50	ug/L	101.6	90.0 - 110.0	MS	21-FEB-10 11:58	100220-7
	Uranium	46.4	ug/L	50	ug/L	92.8	90.0 - 110.0	MS	21-FEB-10 13:27	100221-8
CCV06										
	Mercury	5.2	ug/L	5	ug/L	103.9	80.0 - 120.0	AV	15-FEB-10 11:39	021510W1-9
	Antimony	51	ug/L	50	ug/L	102.1	90.0 - 110.0	MS	20-FEB-10 20:04	100220-2
	Cadmium	49.4	ug/L	50	ug/L	98.8	90.0 - 110.0	MS	20-FEB-10 20:04	100220-2
	Thallium	52.5	ug/L	50	ug/L	105.1	90.0 - 110.0	MS	20-FEB-10 20:04	100220-2
	Uranium	46.3	ug/L	50	ug/L	92.6	90.0 - 110.0	MS	21-FEB-10 13:43	100221-8
CCV07										
	Antimony	50.6	ug/L	50	ug/L	101.2	90.0 - 110.0	MS	20-FEB-10 20:28	100220-2
	Cadmium	49.2	ug/L	50	ug/L	98.3	90.0 - 110.0	MS	20-FEB-10 20:28	100220-2
	Thallium	52.4	ug/L	50	ug/L	104.8	90.0 - 110.0	MS	20-FEB-10 20:28	100220-2
CCV08										
	Antimony	51.7	ug/L	50	ug/L	103.3	90.0 - 110.0	MS	20-FEB-10 21:05	100220-2
	Cadmium	49.9	ug/L	50	ug/L	99.9	90.0 - 110.0	MS	20-FEB-10 21:05	100220-2
	Thallium	53.6	ug/L	50	ug/L	107.2	90.0 - 110.0	MS	20-FEB-10 21:05	100220-2
CCV09										
	Antimony	52.5	ug/L	50	ug/L	104.9	90.0 - 110.0	MS	20-FEB-10 21:55	100220-2
	Cadmium	49.7	ug/L	50	ug/L	99.5	90.0 - 110.0	MS	20-FEB-10 21:55	100220-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Thallium	54.5	ug/L	50	ug/L	109.1	90.0 - 110.0	MS	20-FEB-10 21:55	100220-2
CCV10										
	Antimony	51.3	ug/L	50	ug/L	102.6	90.0 - 110.0	MS	20-FEB-10 22:50	100220-2
	Cadmium	50	ug/L	50	ug/L	100.1	90.0 - 110.0	MS	20-FEB-10 22:50	100220-2
	Thallium	48.2	ug/L	50	ug/L	96.4	90.0 - 110.0	MS	20-FEB-10 22:50	100220-2

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS5,MER536,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M	Analysis Date/Time	Run Number
CRDL01										
	Mercury	.197	ug/L	.2	ug/L	98.4	70.0 – 130.0	AV	15-FEB-10 09:38	021510W1-9
	Thallium	1.28	ug/L	1	ug/L	127.6	70.0 – 130.0	MS	20-FEB-10 16:53	100220-2
	Antimony	3.32	ug/L	3	ug/L	110.6	70.0 – 130.0	MS	20-FEB-10 16:53	100220-2
	Cadmium	1.13	ug/L	1	ug/L	113.4	70.0 – 130.0	MS	20-FEB-10 16:53	100220-2
	Lead	2.45	ug/L	2	ug/L	122.5	70.0 – 130.0	MS	21-FEB-10 10:44	100220-7
	Manganese	6.07	ug/L	5	ug/L	121.3	70.0 – 130.0	MS	21-FEB-10 10:44	100220-7
	Beryllium	.541	ug/L	.5	ug/L	108.2	70.0 – 130.0	MS	21-FEB-10 10:44	100220-7
	Uranium	.25	ug/L	.2	ug/L	125	70.0 – 130.0	MS	21-FEB-10 12:12	100221-8
PQL01										
	Aluminum	206	ug/L	200	ug/L	103	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Iron	96.6	ug/L	100	ug/L	96.6	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Magnesium	401	ug/L	300	ug/L	133.8	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Nickel	4.93	ug/L	5	ug/L	98.6	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Potassium	155	ug/L	150	ug/L	103.1	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Silver	5.26	ug/L	5	ug/L	105.3	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Sodium	272	ug/L	300	ug/L	90.6	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Arsenic	29.1	ug/L	30	ug/L	97.1	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Barium	5.14	ug/L	5	ug/L	102.8	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Chromium	4.73	ug/L	5	ug/L	94.6	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Cobalt	4.94	ug/L	5	ug/L	98.8	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Copper	9.72	ug/L	10	ug/L	97.2	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Vanadium	4.95	ug/L	5	ug/L	99	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Zinc	11.5	ug/L	10	ug/L	114.9	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Calcium	213	ug/L	200	ug/L	106.3	70.0 – 130.0	P	25-FEB-10 13:04	022510-1
	Selenium	30.7	ug/L	30	ug/L	102.4	70.0 – 130.0	P	25-FEB-10 13:04	022510-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474-1

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
ICB01										
	Mercury	0.066	+/-.2	U	0.066	0.2	LIQ	AV	15-FEB-10 09:36	021510W1-9
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 16:47	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 16:47	100220-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	20-FEB-10 16:47	100220-2
	Beryllium	0.1	+/-.5	U	0.1	0.5	LIQ	MS	21-FEB-10 10:41	100220-7
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	21-FEB-10 10:41	100220-7
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	21-FEB-10 10:41	100220-7
	Uranium	0.05	+/-.2	U	0.05	0.2	LIQ	MS	21-FEB-10 12:10	100221-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	25-FEB-10 12:57	022510-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	25-FEB-10 12:57	022510-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 12:57	022510-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	25-FEB-10 12:57	022510-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 12:57	022510-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 12:57	022510-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	25-FEB-10 12:57	022510-1
	Iron	-42.67	+/-100	J	30.0	100	LIQ	P	25-FEB-10 12:57	022510-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	25-FEB-10 12:57	022510-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	25-FEB-10 12:57	022510-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	25-FEB-10 12:57	022510-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	25-FEB-10 12:57	022510-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 12:57	022510-1
	Sodium	100	+/-300	U	100	300	LIQ	P	25-FEB-10 12:57	022510-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 12:57	022510-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	25-FEB-10 12:57	022510-1
CCB01										
	Mercury	0.066	+/-.2	U	0.066	0.2	LIQ	AV	15-FEB-10 09:42	021510W1-9
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 17:17	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 17:17	100220-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	20-FEB-10 17:17	100220-2
	Beryllium	0.1	+/-.5	U	0.1	0.5	LIQ	MS	21-FEB-10 10:52	100220-7
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	21-FEB-10 10:52	100220-7

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474-1

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	21-FEB-10 10:52	100220-7
	Uranium	0.05	+/-.2	U	0.05	0.2	LIQ	MS	21-FEB-10 12:19	100221-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	25-FEB-10 13:45	022510-1
	Arsenic	11.14	+/-30	J	5.0	30.0	LIQ	P	25-FEB-10 13:45	022510-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 13:45	022510-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	25-FEB-10 13:45	022510-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 13:45	022510-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 13:45	022510-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	25-FEB-10 13:45	022510-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	25-FEB-10 13:45	022510-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	25-FEB-10 13:45	022510-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	25-FEB-10 13:45	022510-1
	Potassium	117.82	+/-150	J	50.0	150	LIQ	P	25-FEB-10 13:45	022510-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	25-FEB-10 13:45	022510-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 13:45	022510-1
	Sodium	100	+/-300	U	100	300	LIQ	P	25-FEB-10 13:45	022510-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 13:45	022510-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	25-FEB-10 13:45	022510-1
CCB02										
	Mercury	0.066	+/-.2	U	0.066	0.2	LIQ	AV	15-FEB-10 10:06	021510W1-9
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 17:36	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 17:36	100220-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	20-FEB-10 17:36	100220-2
	Beryllium	0.1	+/-.5	U	0.1	0.5	LIQ	MS	21-FEB-10 11:05	100220-7
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	21-FEB-10 11:05	100220-7
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	21-FEB-10 11:05	100220-7
	Uranium	0.05	+/-.2	U	0.05	0.2	LIQ	MS	21-FEB-10 12:37	100221-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	25-FEB-10 14:15	022510-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	25-FEB-10 14:15	022510-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 14:15	022510-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	25-FEB-10 14:15	022510-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474-1

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 14:15	022510-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 14:15	022510-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	25-FEB-10 14:15	022510-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	25-FEB-10 14:15	022510-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	25-FEB-10 14:15	022510-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	25-FEB-10 14:15	022510-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	25-FEB-10 14:15	022510-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	25-FEB-10 14:15	022510-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 14:15	022510-1
	Sodium	100	+/-300	U	100	300	LIQ	P	25-FEB-10 14:15	022510-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 14:15	022510-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	25-FEB-10 14:15	022510-1
CCB03										
	Mercury	0.066	+/-.2	U	0.066	0.2	LIQ	AV	15-FEB-10 10:30	021510W1-9
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 18:26	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 18:26	100220-2
	Thallium	0.332	+/-1	J	0.3	1.0	LIQ	MS	20-FEB-10 18:26	100220-2
	Beryllium	0.1	+/-.5	U	0.1	0.5	LIQ	MS	21-FEB-10 11:27	100220-7
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	21-FEB-10 11:27	100220-7
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	21-FEB-10 11:27	100220-7
	Uranium	0.05	+/-.2	U	0.05	0.2	LIQ	MS	21-FEB-10 12:54	100221-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	25-FEB-10 15:38	022510-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	25-FEB-10 15:38	022510-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 15:38	022510-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	25-FEB-10 15:38	022510-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 15:38	022510-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 15:38	022510-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	25-FEB-10 15:38	022510-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	25-FEB-10 15:38	022510-1
	Magnesium	112.52	+/-300	J	85.0	300	LIQ	P	25-FEB-10 15:38	022510-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	25-FEB-10 15:38	022510-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474-1

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	25-FEB-10 15:38	022510-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	25-FEB-10 15:38	022510-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 15:38	022510-1
	Sodium	100	+/-300	U	100	300	LIQ	P	25-FEB-10 15:38	022510-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 15:38	022510-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	25-FEB-10 15:38	022510-1
CCB04										
	Mercury	-0.097	+/-.2	J	0.066	0.2	LIQ	AV	15-FEB-10 10:53	021510W1-9
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 18:50	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 18:50	100220-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	20-FEB-10 18:50	100220-2
	Beryllium	0.1	+/-.5	U	0.1	0.5	LIQ	MS	21-FEB-10 11:45	100220-7
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	21-FEB-10 11:45	100220-7
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	21-FEB-10 11:45	100220-7
	Uranium	0.05	+/-.2	U	0.05	0.2	LIQ	MS	21-FEB-10 13:14	100221-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	25-FEB-10 16:53	022510-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	25-FEB-10 16:53	022510-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 16:53	022510-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	25-FEB-10 16:53	022510-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 16:53	022510-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 16:53	022510-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	25-FEB-10 16:53	022510-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	25-FEB-10 16:53	022510-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	25-FEB-10 16:53	022510-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	25-FEB-10 16:53	022510-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	25-FEB-10 16:53	022510-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	25-FEB-10 16:53	022510-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 16:53	022510-1
	Sodium	100	+/-300	U	100	300	LIQ	P	25-FEB-10 16:53	022510-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	25-FEB-10 16:53	022510-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	25-FEB-10 16:53	022510-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1474-1

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
CCB05										
	Mercury	-0.108	+/-.2	J	0.066	0.2	LIQ	AV	15-FEB-10 11:17	021510W1-9
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 19:27	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 19:27	100220-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	20-FEB-10 19:27	100220-2
	Beryllium	0.1	+/-.5	U	0.1	0.5	LIQ	MS	21-FEB-10 12:00	100220-7
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	21-FEB-10 12:00	100220-7
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	21-FEB-10 12:00	100220-7
	Uranium	0.05	+/-.2	U	0.05	0.2	LIQ	MS	21-FEB-10 13:29	100221-8
CCB06										
	Mercury	-0.096	+/-.2	J	0.066	0.2	LIQ	AV	15-FEB-10 11:41	021510W1-9
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 20:10	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 20:10	100220-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	20-FEB-10 20:10	100220-2
	Uranium	0.05	+/-.2	U	0.05	0.2	LIQ	MS	21-FEB-10 13:44	100221-8
CCB07										
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 20:35	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 20:35	100220-2
	Thallium	0.33	+/-1	J	0.3	1.0	LIQ	MS	20-FEB-10 20:35	100220-2
CCB08										
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 21:11	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 21:11	100220-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	20-FEB-10 21:11	100220-2
CCB09										
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 22:01	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 22:01	100220-2
	Thallium	0.426	+/-1	J	0.3	1.0	LIQ	MS	20-FEB-10 22:01	100220-2
CCB10										
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	20-FEB-10 22:56	100220-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	20-FEB-10 22:56	100220-2
	Thallium	0.983	+/-1	J	0.3	1.0	LIQ	MS	20-FEB-10 22:56	100220-2

METALS
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PREPARATION BLANK SUMMARY

SDG NO. 10-1474-1

Contract: LANL01004

Matrix: WATER

Sample ID	Analyte	Result	Units	Acceptance Window	Conc Qual	M	MDL	RDL
1202029965								
	Mercury	-0.115	ug/L	+/-0.2	J	AV	0.066	0.2
1202031021								
	Aluminum	68	ug/L	+/-200	U	P	68	200
	Arsenic	5	ug/L	+/-30	U	P	5	30
	Barium	1	ug/L	+/-5	U	P	1	5
	Calcium	50	ug/L	+/-200	U	P	50	200
	Chromium	1	ug/L	+/-5	U	P	1	5
	Cobalt	1	ug/L	+/-5	U	P	1	5
	Copper	3	ug/L	+/-10	U	P	3	10
	Iron	30	ug/L	+/-100	U	P	30	100
	Magnesium	107	ug/L	+/-300	J	P	85	300
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Potassium	50	ug/L	+/-150	U	P	50	150
	Selenium	5	ug/L	+/-30	U	P	5	30
	Silver	1	ug/L	+/-5	U	P	1	5
	Sodium	100	ug/L	+/-300	U	P	100	300
	Vanadium	1	ug/L	+/-5	U	P	1	5
	Zinc	3.3	ug/L	+/-10	U	P	3.3	10
1202031027								
	Antimony	0.5	ug/L	+/-3	U	MS	0.5	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

METALS
-4-
Interference Check Sample

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

ICS: O2Si

Instrument: OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Aluminum	531000	ug/L	500000	ug/L	106	80.0 – 120.0	25-FEB-10 13:11	022510-1
	Arsenic	9.55	ug/L					25-FEB-10 13:11	022510-1
	Barium	0.543	ug/L					25-FEB-10 13:11	022510-1
	Calcium	492000	ug/L	500000	ug/L	98.4	80.0 – 120.0	25-FEB-10 13:11	022510-1
	Chromium	-0.041	ug/L					25-FEB-10 13:11	022510-1
	Cobalt	-1.44	ug/L					25-FEB-10 13:11	022510-1
	Copper	2.08	ug/L					25-FEB-10 13:11	022510-1
	Iron	187000	ug/L	200000	ug/L	93.5	80.0 – 120.0	25-FEB-10 13:11	022510-1
	Magnesium	500000	ug/L	500000	ug/L	100	80.0 – 120.0	25-FEB-10 13:11	022510-1
	Nickel	3.15	ug/L					25-FEB-10 13:11	022510-1
	Potassium	-183.0	ug/L					25-FEB-10 13:11	022510-1
	Selenium	-48.8	ug/L					25-FEB-10 13:11	022510-1
	Silver	-2.52	ug/L					25-FEB-10 13:11	022510-1
	Sodium	22.8	ug/L					25-FEB-10 13:11	022510-1
	Vanadium	-1.23	ug/L					25-FEB-10 13:11	022510-1
	Zinc	-2.74	ug/L					25-FEB-10 13:11	022510-1
ICSAB01									
	Aluminum	524000	ug/L	500000	ug/L	105	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Arsenic	514	ug/L	500	ug/L	103	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Barium	485	ug/L	500	ug/L	97.1	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Calcium	487000	ug/L	500000	ug/L	97.3	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Chromium	473	ug/L	500	ug/L	94.6	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Cobalt	431	ug/L	500	ug/L	86.2	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Copper	536	ug/L	500	ug/L	107	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Iron	188000	ug/L	200000	ug/L	93.8	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Magnesium	498000	ug/L	500000	ug/L	99.5	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Nickel	437	ug/L	500	ug/L	87.3	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Potassium	5400	ug/L	5000	ug/L	108	80.0 – 120.0	25-FEB-10 13:18	022510-1
	Selenium	2470	ug/L	2500	ug/L	98.9	80.0 – 120.0	25-FEB-10 13:18	022510-1

METALS
-4-
Interference Check Sample

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

ICS:

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
	Silver	265	ug/L	250	ug/L	106	80.0 - 120.0	25-FEB-10 13:18	022510-1
	Sodium	5310	ug/L	5000	ug/L	106	80.0 - 120.0	25-FEB-10 13:18	022510-1
	Vanadium	498	ug/L	500	ug/L	99.7	80.0 - 120.0	25-FEB-10 13:18	022510-1
	Zinc	482	ug/L	500	ug/L	96.5	80.0 - 120.0	25-FEB-10 13:18	022510-1

METALS
–4–
Interference Check Sample

SDG No: 10–1474–1

Contract: LANL01004 **Lab Code:** GEL

ICS: O2Si

Instrument: ICPMS5

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Antimony	0.132	ug/L					20–FEB–10 16:59	100220–2
	Cadmium	0.65	ug/L					20–FEB–10 16:59	100220–2
	Thallium	0.064	ug/L					20–FEB–10 16:59	100220–2
ICSAB01									
	Antimony	21.6	ug/L	20	ug/L	108	80.0 – 120.0	20–FEB–10 17:05	100220–2
	Cadmium	20.1	ug/L	20.44	ug/L	98.5	80.0 – 120.0	20–FEB–10 17:05	100220–2
	Thallium	21.9	ug/L	20	ug/L	109	80.0 – 120.0	20–FEB–10 17:05	100220–2

METALS
-4-
Interference Check Sample

SDG No: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

ICS: O2Si

Instrument: ICPMS5

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Beryllium	0.106	ug/L					21-FEB-10 10:46	100220-7
	Lead	0.257	ug/L					21-FEB-10 10:46	100220-7
	Manganese	6.84	ug/L					21-FEB-10 10:46	100220-7
ICSAB01									
	Beryllium	20.2	ug/L	20	ug/L	101	80.0 - 120.0	21-FEB-10 10:48	100220-7
	Lead	22.1	ug/L	20.19	ug/L	109	80.0 - 120.0	21-FEB-10 10:48	100220-7
	Manganese	29.9	ug/L	25.8	ug/L	116	80.0 - 120.0	21-FEB-10 10:48	100220-7

METALS
–4–
Interference Check Sample

SDG No: 10–1474–1

Contract: LANL01004 **Lab Code:** GEL

ICS: O2Si

Instrument: ICPMS5

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Uranium	0.0	ug/L					21–FEB–10 12:14	100221–8
ICSAB01									
	Uranium	23.7	ug/L	20	ug/L	118	80.0 – 120.0	21–FEB–10 12:15	100221–8

METALS
-5a-
Matrix Spike Summary

SDG NO. 10-1474-1 **Client ID:** RE15-10-8081S

Contract: LANL01004 **Level:** Low

Matrix: WATER **% Solids:**

Sample ID: 245807001 **Spike ID:** 1202029968

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75-125	2.11		0.066	U	2	106		AV

METALS
-5a-
Matrix Spike Summary

SDG NO. 10-1474-1 **Client ID** CAMO-10-9311S

Contract: ESHL01000 **Level:** Low

Matrix: GROUND WATER **% Solids:**

Sample ID: 245673001 **Spike ID:** 1202031024

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75-125	5270		68	U	5000	105		P
Arsenic	ug/L	75-125	501		5	U	500	99.9		P
Barium	ug/L	75-125	510		12.5		500	99.4		P
Calcium	ug/L		33700		30000		5000	74.2	N/A	P
Chromium	ug/L	75-125	491		4.86	J	500	97.3		P
Cobalt	ug/L	75-125	467		1	U	500	93.4		P
Copper	ug/L	75-125	516		4.84	J	500	102		P
Iron	ug/L	75-125	5380		30	U	5000	108		P
Magnesium	ug/L	75-125	9790		4690		5000	102		P
Nickel	ug/L	75-125	479		3.7	J	500	95		P
Potassium	ug/L	75-125	5870		745		5000	102		P
Selenium	ug/L	75-125	496		5	U	500	99.1		P
Silver	ug/L	75-125	486		1	U	500	97.2		P
Sodium	ug/L		26500		22300		5000	84.7	N/A	P
Vanadium	ug/L	75-125	505		1.55	J	500	101		P
Zinc	ug/L	75-125	512		28.1		500	96.8		P

METALS
-5a-
Matrix Spike Summary

SDG NO. 10-1474-1 **Client ID** CAWR-10-11786S

Contract: ESHL01000 **Level:** Low

Matrix: SURFACE WATER **% Solids:**

Sample ID: 245676001 **Spike ID:** 1202031030

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75-125	217		0.5	U	200	108		MS
Beryllium	ug/L	75-125	54.4		0.1	U	50	109		MS
Cadmium	ug/L	75-125	11.1		0.11	U	10	110		MS
Lead	ug/L	75-125	48.1		0.762	J	40	118		MS
Manganese	ug/L	75-125	88.1		40.3		50	95.7		MS
Thallium	ug/L	75-125	100		0.3	U	100	99.9		MS
Uranium	ug/L	75-125	60.1		3.49		50	113		MS

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1474-1

Contract: LANL01004 **Lab Code:** GEL

Matrix: LIQUID **Level:** Low **Client ID:** RE15-10-8081D

Sample ID: 245807001 **Duplicate ID:** 1202029967 **Percent Solids for Dup:** N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L		0.066	U	0.066	U			AV

Metals
–6–
Duplicate Sample Summary

SDG No.: 10–1474–1

Contract: LANL01004 **Lab Code:** GEL

Matrix: LIQUID **Level:** Low **Client ID:** CAMO–10–9311D

Sample ID: 245673001 **Duplicate ID:** 1202031022 **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	+/–5	12.5		11.4		9.42		P
Calcium	ug/L	+/–20%	30000		26600		11.8		P
Chromium	ug/L	+/–5	4.86	J	4.55	J	6.62		P
Cobalt	ug/L		1	U	1	U			P
Copper	ug/L	+/–10	4.84	J	4.23	J	13.5		P
Iron	ug/L		30	U	30	U			P
Magnesium	ug/L	+/–20%	4690		4320		8.12		P
Nickel	ug/L	+/–5	3.7	J	2.82	J	26.8		P
Potassium	ug/L	+/–150	745		655		12.8		P
Selenium	ug/L		5	U	5	U			P
Silver	ug/L		1	U	1	U			P
Sodium	ug/L	+/–20%	22300		19700		12.2		P
Vanadium	ug/L	+/–5	1.55	J	1.3	J	17		P
Zinc	ug/L	+/–10	28.1		25.3		10.5		P

Metals
–6–
Duplicate Sample Summary

SDG No.: 10–1474–1

Contract: LANL01004 **Lab Code:** GEL

Matrix: LIQUID **Level:** Low **Client ID:** CAWR–10–11786D

Sample ID: 245676001 **Duplicate ID:** 1202031029 **Percent Solids for Dup:** N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L		0.5	U	0.5	U			MS
Beryllium	ug/L		0.1	U	0.1	U			MS
Cadmium	ug/L		0.11	U	0.11	U			MS
Lead	ug/L	+/–2	0.762	J	0.689	J	10.1		MS
Manganese	ug/L	+/–20%	40.3		41.4		2.88		MS
Thallium	ug/L		0.3	U	0.3	U			MS
Uranium	ug/L	+/–20%	3.49		3.59		2.94		MS

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-1474-1

Contract: LANL01004

Aqueous LCS Source: GEL **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1202029966								
	Mercury	ug/L	2	2.04		102	80-120	AV

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-1474-1

Contract: LANL01004

Aqueous LCS Source: OS2I **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1202031026								
	Copper	ug/L	500	506		101	80-120	P
	Iron	ug/L	5000	5000		100	80-120	P
	Magnesium	ug/L	5000	5330		107	80-120	P
	Nickel	ug/L	500	502		100	80-120	P
	Potassium	ug/L	5000	5050		101	80-120	P
	Selenium	ug/L	500	504		101	80-120	P
	Silver	ug/L	500	482		96.3	80-120	P
	Sodium	ug/L	5000	5180		104	80-120	P
	Vanadium	ug/L	500	505		101	80-120	P
	Zinc	ug/L	500	489		97.7	80-120	P
	Aluminum	ug/L	5000	5220		104	80-120	P
	Arsenic	ug/L	500	499		99.9	80-120	P
	Barium	ug/L	500	499		99.7	80-120	P
	Calcium	ug/L	5000	5270		105	80-120	P
	Chromium	ug/L	500	496		99.1	80-120	P
	Cobalt	ug/L	500	480		96	80-120	P

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 10-1474-1

Contract: LANL01004

Aqueous LCS Source: O2si **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1202031028								
	Antimony	ug/L	50	58		116	80-120	MS
	Beryllium	ug/L	50	59.4		119	80-120	MS
	Cadmium	ug/L	50	53.4		107	80-120	MS
	Lead	ug/L	50	58.2		116	80-120	MS
	Manganese	ug/L	50	54.9		110	80-120	MS
	Thallium	ug/L	50	54.7		109	80-120	MS
	Uranium	ug/L	50	56.7		113	80-120	MS

METALS
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Serial Dilution Sample Summary

SDG NO. 10-1474-1 **Client ID** RE15-10-8081L

Contract: LANL01004

Matrix: LIQUID **Level:** Low

Sample ID: 245807001 **Serial Dilution ID:** 1202029969

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.066	U	.33	U				AV

METALS
-9-
Serial Dilution Sample Summary

SDG NO. 10-1474-1 **Client ID** CAMO-10-9311L

Contract: LANL01004

Matrix: LIQUID **Level:** Low

Sample ID: 245673001 **Serial Dilution ID:** 1202031023

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	12.5		12.2	J	2.4			P
Calcium	30000		28300		5.83		10	P
Chromium	4.86	J	5	U	100			P
Cobalt	1	U	5	U				P
Copper	4.84	J	15	U	100			P
Iron	30	U	150	U				P
Magnesium	4690		5000		6.61		10	P
Nickel	3.7	J	7.5	U	100			P
Potassium	745		755		1.34			P
Selenium	5	U	25	U				P
Silver	1	U	5	U				P
Sodium	22300		20300		9.19		10	P
Vanadium	1.55	J	5	U	100			P
Zinc	28.1		36.9	J	31.1			P

METALS
–9–
Serial Dilution Sample Summary

SDG NO. 10–1474–1 **Client ID** CAWR–10–11786L

Contract: LANL01004

Matrix: LIQUID **Level:** Low

Sample ID: 245676001 **Serial Dilution ID:** 1202031031

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Antimony	.5	U	2.5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.11	U	.55	U				MS
Lead	.762	J	2.5	U	100			MS
Manganese	40.3		47.1		16.9			MS
Thallium	.3	U	6.5					MS
Uranium	3.49		3.41		2.44			MS

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1474-1 **Method Type:** P

Contract: LANL01004 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	948085						
1202031021	MB for batch 948085	MB	G	25-FEB-10	25mL	25mL	
1202031026	LCS for batch 948085	LCS	G	25-FEB-10	25mL	25mL	
1202031024	CAMO-10-9311S	MS	G	25-FEB-10	25mL	25mL	
1202031022	CAMO-10-9311D	DUP	G	25-FEB-10	25mL	25mL	
245807001	RE15-10-8081	SAMPLE	W	25-FEB-10	25mL	25mL	
245807002	RE15-10-8082	SAMPLE	W	25-FEB-10	25mL	25mL	

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1474-1 **Method Type**: MS

Contract: LANL01004 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	948089						
1202031027	MB for batch 948089	MB	SU	03-FEB-10	50mL	50mL	
1202031028	LCS for batch 948089	LCS	SU	03-FEB-10	50mL	50mL	
1202031030	CAWR-10-11786S	MS	SU	03-FEB-10	50mL	50mL	
1202031029	CAWR-10-11786D	DUP	SU	03-FEB-10	50mL	50mL	
245807001	RE15-10-8081	SAMPLE	W	03-FEB-10	50mL	50mL	
245807002	RE15-10-8082	SAMPLE	W	03-FEB-10	50mL	50mL	

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10–1474–1 **Method Type:** AV

Contract: LANL01004 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number 947645							
1202029965	MB for batch 947645	MB	W	12–FEB–10	20mL	20mL	
1202029966	LCS for batch 947645	LCS	W	12–FEB–10	20mL	20mL	
1202029968	RE15–10–8081S	MS	W	12–FEB–10	20mL	20mL	
1202029967	RE15–10–8081D	DUP	W	12–FEB–10	20mL	20mL	
245807001	RE15–10–8081	SAMPLE	W	12–FEB–10	20mL	20mL	
245807002	RE15–10–8082	SAMPLE	W	12–FEB–10	20mL	20mL	

Metals
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Analysis Run Log

Contract: LANL01004
Lab Code: GEL
Inst Name: ICPMS5
Start Date: 20-FEB-10
End Date: 21-FEB-10
Client Sdg: 10-1474-1
Method MS
Data File: 100220-2

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	16:22		X				X															X			
S10	1	16:29		X				X															X			
S100	1	16:35		X				X															X			
ICV01	1	16:41		X				X															X			
ICB01	1	16:47		X				X															X			
CRDL01	1	16:53		X				X															X			
ICSA01	1	16:59		X				X															X			
ICSAB01	1	17:05		X				X															X			
CCV01	1	17:11		X				X															X			
CCB01	1	17:17		X				X															X			
LR01	1	17:23		X				X															X			
CCV02	1	17:30		X				X															X			
CCB02	1	17:36		X				X															X			
ZZZZZZ	1	17:43																								
ZZZZZZ	1	17:49																								
ZZZZZZ	1	17:55																								
ZZZZZZ	1	18:01																								
ZZZZZZ	1	18:07																								
ZZZZZZ	5	18:13																								
CCV03	1	18:19		X				X															X			
CCB03	1	18:26		X				X															X			
ZZZZZZ	1	18:32																								
ZZZZZZ	1	18:38																								
CCV04	1	18:44		X				X															X			
CCB04	1	18:50		X				X															X			
ZZZZZZ	1	18:56																								
ZZZZZZ	1	19:03																								
ZZZZZZ	1	19:09																								
ZZZZZZ	1	19:15																								
CCV05	1	19:21		X				X															X			
CCB05	1	19:27		X				X															X			
ZZZZZZ	1	19:33																								
ZZZZZZ	1	19:39																								
ZZZZZZ	1	19:46																								
ZZZZZZ	1	19:52																								
ZZZZZZ	1	19:58																								
CCV06	1	20:04		X				X															X			
CCB06	1	20:10		X				X															X			
1202031027	1	20:16		X				X															X			
1202031028	1	20:22		X				X															X			

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																							
CCV07	1	20:28		X				X														X			
CCB07	1	20:35		X				X														X			
ZZZZZZ	1	20:41																							
ZZZZZZ	1	20:47																							
ZZZZZZ	1	20:53																							
ZZZZZZ	1	20:59																							
CCV08	1	21:05		X				X														X			
CCB08	1	21:11		X				X														X			
ZZZZZZ	1	21:18																							
ZZZZZZ	1	21:24																							
ZZZZZZ	1	21:30																							
1202031029	1	21:36		X				X														X			
1202031030	1	21:42		X				X														X			
1202031031	5	21:48		X				X														X			
CCV09	1	21:55		X				X														X			
CCB09	1	22:01		X				X														X			
ZZZZZZ	1	22:07																							
ZZZZZZ	1	22:13																							
ZZZZZZ	1	22:19																							
ZZZZZZ	1	22:25																							
ZZZZZZ	1	22:32																							
245807001	1	22:38		X				X														X			
245807002	1	22:44		X				X														X			
CCV10	1	22:50		X				X														X			
CCB10	1	22:56		X				X														X			

Metals
–14–
Analysis Run Log

Contract: LANL01004
Lab Code: GEL
Inst Name: ICPMS5
Start Date: 20–FEB–10
End Date: 21–FEB–10

Client Sdg: 10–1474–1
Method MS
Data File: 100220–7

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	10:33					X							X		X										
S10	1	10:35					X							X		X										
S100	1	10:37					X							X		X										
ICV01	1	10:39					X							X		X										
ICB01	1	10:41					X							X		X										
CRDL01	1	10:44					X							X		X										
ICSA01	1	10:46					X							X		X										
ICSAB01	1	10:48					X							X		X										
CCV01	1	10:50					X							X		X										
CCB01	1	10:52					X							X		X										
ZZZZZZ	1	10:54																								
ZZZZZZ	1	10:56																								
ZZZZZZ	1	10:59																								
ZZZZZZ	1	11:01																								
CCV02	1	11:03					X							X		X										
CCB02	1	11:05					X							X		X										
1202031027	1	11:08					X							X		X										
1202031028	1	11:10					X							X		X										
ZZZZZZ	1	11:12																								
ZZZZZZ	1	11:14																								
ZZZZZZ	1	11:16																								
ZZZZZZ	1	11:18																								
ZZZZZZ	1	11:21																								
ZZZZZZ	1	11:23																								
CCV03	1	11:25					X							X		X										
CCB03	1	11:27					X							X		X										
ZZZZZZ	1	11:30																								
1202031030	1	11:32					X							X		X										
1202031029	1	11:34					X							X		X										
1202031031	5	11:36					X							X		X										
ZZZZZZ	1	11:38																								
ZZZZZZ	1	11:40																								
CCV04	1	11:43					X							X		X										
CCB04	1	11:45					X							X		X										
ZZZZZZ	1	11:47																								
ZZZZZZ	1	11:49																								
ZZZZZZ	1	11:51																								
245807001	1	11:54					X							X		X										
245807002	1	11:56					X							X		X										
CCV05	1	11:58					X							X		X										

Metals
–14–
Analysis Run Log

Samp No.	D/F	Run Time																								
CCB05	1	12:00					X							X		X										

Metals
–14–
Analysis Run Log

Contract: LANL01004
Lab Code: GEL
Inst Name: ICPMS5
Start Date: 21–FEB–10
End Date: 21–FEB–10

Client Sdg: 10–1474–1
Method MS
Data File: 100221–8

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	12:04																						X		
S10	1	12:05																						X		
S100	1	12:07																						X		
ICV01	1	12:09																						X		
ICB01	1	12:10																						X		
CRDL01	1	12:12																						X		
ICSA01	1	12:14																						X		
ICSAB01	1	12:15																						X		
CCV01	1	12:17																						X		
CCB01	1	12:19																						X		
ZZZZZZ	1	12:20																								
ZZZZZZ	1	12:22																								
ZZZZZZ	1	12:24																								
ZZZZZZ	1	12:25																								
ZZZZZZ	1	12:27																								
ZZZZZZ	5	12:29																								
ZZZZZZ	1	12:30																								
ZZZZZZ	1	12:32																								
ZZZZZZ	1	12:34																								
CCV02	1	12:35																						X		
CCB02	1	12:37																						X		
ZZZZZZ	1	12:39																								
ZZZZZZ	1	12:40																								
ZZZZZZ	1	12:42																								
ZZZZZZ	1	12:44																								
ZZZZZZ	1	12:45																								
ZZZZZZ	1	12:47																								
ZZZZZZ	1	12:49																								
ZZZZZZ	1	12:50																								
CCV03	1	12:52																						X		
CCB03	1	12:54																						X		
1202031027	1	12:59																						X		
1202031028	1	13:01																						X		
ZZZZZZ	1	13:02																								
ZZZZZZ	1	13:04																								
ZZZZZZ	1	13:06																								
ZZZZZZ	1	13:08																								
ZZZZZZ	1	13:09																								
ZZZZZZ	1	13:11																								
CCV04	1	13:13																						X		

Metals
–14–
Analysis Run Log

Samp No.	D/F	Run Time																								
CCB04	1	13:14																						X		
ZZZZZZ	1	13:16																								
ZZZZZZ	1	13:18																								
ZZZZZZ	1	13:19																								
1202031029	1	13:22																						X		
1202031030	1	13:24																						X		
1202031031	5	13:25																						X		
CCV05	1	13:27																						X		
CCB05	1	13:29																						X		
ZZZZZZ	1	13:31																								
ZZZZZZ	1	13:32																								
ZZZZZZ	1	13:34																								
ZZZZZZ	1	13:36																								
ZZZZZZ	1	13:37																								
245807001	1	13:39																						X		
245807002	1	13:41																						X		
CCV06	1	13:43																						X		
CCB06	1	13:44																						X		

Metals
-14-
Analysis Run Log

Contract: LANL01004
Lab Code: GEL
Inst Name: OPTIMA3
Start Date: 25-FEB-10 **End Date:** 25-FEB-10

Client Sdg: 10-1474-1
Method P
Data File: 022510-1

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	12:17	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S0.1	1	12:24			X	X				X	X	X						X	X	X	X				X	X
S0.5	1	12:31	X		X	X			X	X	X	X			X			X	X	X	X				X	X
SCAL	1	12:38	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S10	1	12:45	X						X				X		X							X				
ICV01	1	12:50	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICB01	1	12:57	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
PQL01	1	13:04	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSA01	1	13:11	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSAB01	1	13:18	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR01	1	13:25	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR02	1	13:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV01	1	13:38	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB01	1	13:45	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR03	1	13:55	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR04	1	14:01	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV02	1	14:08	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB02	1	14:15	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202031021	1	14:23	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202031026	1	14:29	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	14:36																								
1202031022	1	14:43	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202031024	1	14:50	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202031023	5	14:57	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	15:04																								
ZZZZZZ	1	15:10																								
ZZZZZZ	1	15:17																								
ZZZZZZ	1	15:24																								
CCV03	1	15:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB03	1	15:38	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	15:45																								
ZZZZZZ	1	15:52																								
ZZZZZZ	1	15:59																								
ZZZZZZ	1	16:06																								
ZZZZZZ	1	16:12																								
ZZZZZZ	1	16:19																								
ZZZZZZ	1	16:26																								
245807001	1	16:33	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
245807002	1	16:39	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV04	1	16:46	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																						
CCB04	1	16:53	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X

Metals
–14–
Analysis Run Log

Contract: LANL01004
Lab Code: GEL
Inst Name: MER536
Start Date: 15–FEB–10
End Date: 15–FEB–10
Client Sdg: 10–1474–1
Method AV
Data File: 021510W1–9

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	09:22															X									
S0.2	1	09:24															X									
S0.5	1	09:26															X									
S2.0	1	09:28															X									
S5.0	1	09:30															X									
S10	1	09:32															X									
ICV01	1	09:34															X									
ICB01	1	09:36															X									
CRDL01	1	09:38															X									
CCV01	1	09:40															X									
CCB01	1	09:42															X									
ZZZZZZ	1	09:44																								
ZZZZZZ	1	09:46																								
ZZZZZZ	1	09:48																								
ZZZZZZ	1	09:50																								
ZZZZZZ	1	09:52																								
ZZZZZZ	1	09:54																								
ZZZZZZ	1	09:56																								
ZZZZZZ	1	09:58																								
ZZZZZZ	1	10:00																								
ZZZZZZ	5	10:02																								
CCV02	1	10:04															X									
CCB02	1	10:06															X									
ZZZZZZ	1	10:08																								
ZZZZZZ	1	10:10																								
ZZZZZZ	1	10:12																								
ZZZZZZ	1	10:14																								
ZZZZZZ	1	10:16																								
ZZZZZZ	1	10:18																								
ZZZZZZ	1	10:20																								
ZZZZZZ	1	10:22																								
ZZZZZZ	1	10:24																								
ZZZZZZ	1	10:26																								
CCV03	1	10:28															X									
CCB03	1	10:30															X									
ZZZZZZ	5	10:32																								
ZZZZZZ	1	10:34																								
ZZZZZZ	1	10:36																								
ZZZZZZ	1	10:37																								
ZZZZZZ	1	10:39																								

Metals
–14–
Analysis Run Log

Samp No.	D/F	Run Time																							
ZZZZZZ	1	10:41																							
ZZZZZZ	1	10:43																							
ZZZZZZ	1	10:45																							
ZZZZZZ	1	10:47																							
ZZZZZZ	5	10:49																							
CCV04	1	10:51														X									
CCB04	1	10:53														X									
ZZZZZZ	1	10:55																							
ZZZZZZ	1	10:57																							
ZZZZZZ	1	10:59																							
1202029965	1	11:01														X									
1202029966	1	11:03														X									
ZZZZZZ	1	11:05																							
ZZZZZZ	1	11:07																							
ZZZZZZ	1	11:09																							
ZZZZZZ	1	11:11																							
245807001	1	11:13														X									
CCV05	1	11:15														X									
CCB05	1	11:17														X									
1202029967	1	11:19														X									
1202029968	1	11:21														X									
1202029969	5	11:23														X									
245807002	1	11:25														X									
ZZZZZZ	1	11:27																							
ZZZZZZ	1	11:29																							
ZZZZZZ	1	11:31																							
ZZZZZZ	1	11:33																							
ZZZZZZ	1	11:35																							
ZZZZZZ	1	11:37																							
CCV06	1	11:39														X									
CCB06	1	11:41														X									

Standards

METALS
–10–
Instrument Detection Limits

SDG NO. 10–1474–1

Contract: LANL01004 **Lab Code: GEL** **MDL Effective Date:** 01–JUL–09

ICP/MS	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
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. 10–1474–1

Contract: LANL01004 **Lab Code: GEL** **MDL Effective Date:** 01–JUL–09

MERCURY	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
LIQUID	Mercury		0.066	.2

METALS
–10–
Instrument Detection Limits

SDG NO. 10–1474–1

Contract: LANL01004 **Lab Code: GEL** **MDL Effective Date:** 01–JUL–09

ICP	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
LIQUID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.0	10
	Arsenic	188.979	5.0	30
	Barium	233.527	1.0	5
	Beryllium	313.107	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	50.0	200
	Chromium	267.716	1.0	5
	Cobalt	228.616	1.0	5
	Copper	324.752	3.0	10
	Iron	238.204	30.0	100
	Lead	220.353	3.3	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	50.0	150
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	100	300
	Thallium	190.801	5.0	20
	Uranium	409.014	10.0	50
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474-1
Effective Dates: 01-FEB-10

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb,analyte/ppm interferent)

GEL Job No: 10-1474-1
Effective Dates: 01-FEB-10

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474-1
Effective Dates: 01-FEB-10

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474-1
Effective Dates: 01-FEB-10

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
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474-1
Effective Dates: 01-FEB-10

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

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL01004
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 10-1474-1
Effective Dates: 01-FEB-10

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

METALS
–12–
Linear Ranges

SDG NO. 10–1474–1

Contract: LANL01004 **Lab Code: GEL**

Instrument ID ICPMS5

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

METALS
-12-
Linear Ranges

SDG NO. 10-1474-1

Contract: LANL01004 **Lab Code: GEL**

Instrument ID OPTIMA3

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

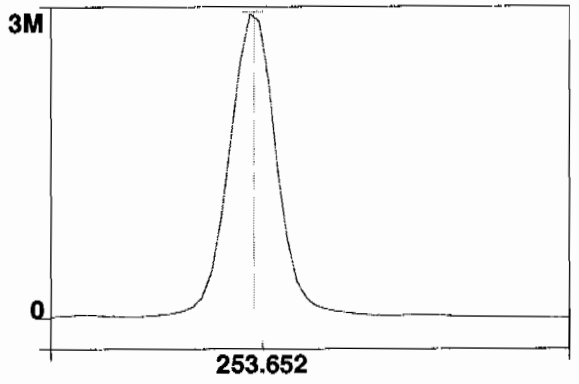
Raw Data

Method: Hg_ReAlign
Result: 022610

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



Intensity: 3249806.5 cps
Conc:

1

==========

Analysis Begun

Start Time: 2/25/2010 12:17:29 **Plasma On Time: 00:00:00**
Logged In Analyst: Optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\022510.sif
Batch ID:
Results Data Set: 022510
Results Library: C:\pe\Optima3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 8**
Sample ID: S0 **Date Collected: 2/25/2010 12:17:29**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	3863.0	3863.0	100	%	12:19:42
1	Y RADIAL	4433.2	4433.2	99.58	%	12:19:22
1	Al 396.153Radial†	-101.8	-101.6	[0.00]	ug/L	12:19:22
1	Ca 317.933Radial†	15.9	15.9	[0.00]	ug/L	12:19:42
1	Fe 238.204 Radial†	13.3	13.2	[0.00]	ug/L	12:19:42
1	K 766.490 Radial†	2816.1	2811.7	[0.00]	ug/L	12:19:22
1	Mg 279.077 IEC†	0.7	0.7	[0.00]	ug/L	12:19:42
1	Na 589.592 Radial†	-900.1	-898.6	[0.00]	ug/L	12:19:22
1	Sr 421.552†	27.0	27.0	[0.00]	ug/L	12:19:22
1	Sc 361.383	880399.5	880399.5	100.04	%	12:20:38
1	Y 371.029	761132.7	761132.7	100.07	%	12:20:38
1	Ag 328.068†	208.2	208.1	[0.00]	ug/L	12:20:38
1	As 188.979†	-19.3	-19.3	[0.00]	ug/L	12:20:59
1	B 249.677†	-241.1	-241.0	[0.00]	ug/L	12:20:59
1	Ba 233.527†	3.9	3.9	[0.00]	ug/L	12:20:59
1	Be 313.107†	-3561.3	-3560.0	[0.00]	ug/L	12:20:38
1	Cd 226.502†	-178.2	-178.2	[0.00]	ug/L	12:20:59
1	Co 228.616†	-62.9	-62.9	[0.00]	ug/L	12:20:59
1	Cr 267.716†	78.5	78.4	[0.00]	ug/L	12:20:59
1	Cu 324.752†	5965.4	5963.2	[0.00]	ug/L	12:20:38
1	Mn 257.610†	483.8	483.7	[0.00]	ug/L	12:20:59
1	Mo 202.031†	7.5	7.5	[0.00]	ug/L	12:20:59
1	Ni 231.604†	95.3	95.3	[0.00]	ug/L	12:20:59
1	P 214.914†	207.0	206.9	[0.00]	ug/L	12:20:59
1	Pb 220.353†	60.8	60.7	[0.00]	ug/L	12:20:59
1	S 181.975 Axial†	40.5	40.5	[0.00]	ug/L	12:20:59
1	Sb 206.836†	37.5	37.5	[0.00]	ug/L	12:20:59
1	Se 196.026†	-25.9	-25.8	[0.00]	ug/L	12:20:59
1	Si 251.611†	568.7	568.5	[0.00]	ug/L	12:20:59
1	Sn 189.927†	10.9	10.9	[0.00]	ug/L	12:20:59
1	Ti 334.940†	-1416.0	-1415.5	[0.00]	ug/L	12:20:38
1	Tl 190.801†	-19.8	-19.8	[0.00]	ug/L	12:20:59
1	U 409.014†	-2793.3	-2792.2	[0.00]	ug/L	12:20:38
1	V 292.402†	-1416.6	-1416.0	[0.00]	ug/L	12:20:38
1	Zn 213.857†	741.5	741.2	[0.00]	ug/L	12:20:59
1	SiO2†	592.2	592.0	[0.00]	ug/L	12:21:54
2	Sc Radial	3860.4	3860.4	100	%	12:20:07
2	Y RADIAL	4567.4	4567.4	102.6	%	12:19:47
2	Al 396.153Radial†	-111.4	-111.3	[0.00]	ug/L	12:19:47
2	Ca 317.933Radial†	21.1	21.1	[0.00]	ug/L	12:20:07
2	Fe 238.204 Radial†	11.6	11.6	[0.00]	ug/L	12:20:07
2	K 766.490 Radial†	2716.4	2714.0	[0.00]	ug/L	12:19:47
2	Mg 279.077 IEC†	-0.3	-0.3	[0.00]	ug/L	12:20:07
2	Na 589.592 Radial†	-889.6	-888.8	[0.00]	ug/L	12:19:47
2	Sr 421.552†	0.7	0.7	[0.00]	ug/L	12:19:47
2	Sc 361.383	876161.3	876161.3	99.556	%	12:21:04
2	Y 371.029	755204.3	755204.3	99.286	%	12:21:04

2	Ag 328.068†	232.2	233.3	[0.00]	ug/L	12:21:04
2	As 188.979†	-20.5	-20.6	[0.00]	ug/L	12:21:24
2	B 249.677†	-265.9	-267.1	[0.00]	ug/L	12:21:24
2	Ba 233.527†	23.5	23.6	[0.00]	ug/L	12:21:24
2	Be 313.107†	-3567.2	-3583.2	[0.00]	ug/L	12:21:04
2	Cd 226.502†	-170.3	-171.1	[0.00]	ug/L	12:21:24
2	Co 228.616†	-67.7	-68.0	[0.00]	ug/L	12:21:24
2	Cr 267.716†	80.2	80.6	[0.00]	ug/L	12:21:24
2	Cu 324.752†	5955.3	5981.9	[0.00]	ug/L	12:21:04
2	Mn 257.610†	488.5	490.7	[0.00]	ug/L	12:21:24
2	Mo 202.031†	-1.9	-1.9	[0.00]	ug/L	12:21:24
2	Ni 231.604†	81.0	81.4	[0.00]	ug/L	12:21:24
2	P 214.914†	213.0	214.0	[0.00]	ug/L	12:21:24
2	Pb 220.353†	60.0	60.3	[0.00]	ug/L	12:21:24
2	S 181.975 Axial†	35.9	36.0	[0.00]	ug/L	12:21:24
2	Sb 206.836†	43.6	43.8	[0.00]	ug/L	12:21:24
2	Se 196.026†	-26.4	-26.5	[0.00]	ug/L	12:21:24
2	Si 251.611†	542.0	544.5	[0.00]	ug/L	12:21:24
2	Sn 189.927†	11.3	11.4	[0.00]	ug/L	12:21:24
2	Ti 334.940†	-1403.6	-1409.9	[0.00]	ug/L	12:21:04
2	Tl 190.801†	-27.1	-27.2	[0.00]	ug/L	12:21:24
2	U 409.014†	-3037.6	-3051.1	[0.00]	ug/L	12:21:04
2	V 292.402†	-1469.7	-1476.3	[0.00]	ug/L	12:21:04
2	Zn 213.857†	740.3	743.6	[0.00]	ug/L	12:21:24
2	SiO2†	578.0	580.6	[0.00]	ug/L	12:22:00
3	Sc Radial	3847.5	3847.5	99.8	%	12:20:32
3	Y RADIAL	4354.5	4354.5	97.82	%	12:20:12
3	Al 396.153Radial†	-131.9	-132.2	[0.00]	ug/L	12:20:12
3	Ca 317.933Radial†	19.0	19.0	[0.00]	ug/L	12:20:32
3	Fe 238.204 Radial†	10.2	10.2	[0.00]	ug/L	12:20:32
3	K 766.490 Radial†	2762.7	2769.5	[0.00]	ug/L	12:20:12
3	Mg 279.077 IEC†	3.1	3.1	[0.00]	ug/L	12:20:32
3	Na 589.592 Radial†	-915.4	-917.6	[0.00]	ug/L	12:20:12
3	Sr 421.552†	-1.4	-1.4	[0.00]	ug/L	12:20:12
3	Sc 361.383	883658.1	883658.1	100.41	%	12:21:29
3	Y 371.029	765568.9	765568.9	100.65	%	12:21:29
3	Ag 328.068†	262.2	261.1	[0.00]	ug/L	12:21:29
3	As 188.979†	-20.0	-19.9	[0.00]	ug/L	12:21:49
3	B 249.677†	-327.3	-325.9	[0.00]	ug/L	12:21:49
3	Ba 233.527†	5.6	5.6	[0.00]	ug/L	12:21:49
3	Be 313.107†	-3545.9	-3531.6	[0.00]	ug/L	12:21:29
3	Cd 226.502†	-180.0	-179.3	[0.00]	ug/L	12:21:49
3	Co 228.616†	-63.9	-63.7	[0.00]	ug/L	12:21:49
3	Cr 267.716†	96.7	96.3	[0.00]	ug/L	12:21:49
3	Cu 324.752†	5944.3	5920.2	[0.00]	ug/L	12:21:29
3	Mn 257.610†	460.5	458.6	[0.00]	ug/L	12:21:49
3	Mo 202.031†	8.5	8.4	[0.00]	ug/L	12:21:49
3	Ni 231.604†	72.0	71.7	[0.00]	ug/L	12:21:49
3	P 214.914†	197.4	196.6	[0.00]	ug/L	12:21:49
3	Pb 220.353†	62.8	62.5	[0.00]	ug/L	12:21:49
3	S 181.975 Axial†	31.1	31.0	[0.00]	ug/L	12:21:49
3	Sb 206.836†	35.9	35.8	[0.00]	ug/L	12:21:49
3	Se 196.026†	-21.9	-21.8	[0.00]	ug/L	12:21:49
3	Si 251.611†	583.6	581.2	[0.00]	ug/L	12:21:49
3	Sn 189.927†	6.0	6.0	[0.00]	ug/L	12:21:49
3	Ti 334.940†	-1410.0	-1404.3	[0.00]	ug/L	12:21:29
3	Tl 190.801†	-35.4	-35.3	[0.00]	ug/L	12:21:49
3	U 409.014†	-2873.9	-2862.2	[0.00]	ug/L	12:21:29
3	V 292.402†	-1519.9	-1513.7	[0.00]	ug/L	12:21:29
3	Zn 213.857†	736.5	733.5	[0.00]	ug/L	12:21:49
3	SiO2†	594.5	592.1	[0.00]	ug/L	12:22:05

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	880073.0	3759.05	0.43%	100.00	%
Sc Radial	3857.0	8.33	0.22%	100	%
Y 371.029	760635.3	5200.16	0.68%	100.00	%
Y RADIAL	4451.7	107.66	2.42%	100.0	%
Ag 328.068†	234.2	26.52	11.32%	[0.00]	ug/L

Al 396.153Radial†	-115.1	15.65	13.60%	[0.00]	ug/L
As 188.979†	-19.9	0.64	3.22%	[0.00]	ug/L
B 249.677†	-278.0	43.52	15.65%	[0.00]	ug/L
Ba 233.527†	11.0	10.92	98.84%	[0.00]	ug/L
Be 313.107†	-3558.2	25.85	0.73%	[0.00]	ug/L
Ca 317.933Radial†	18.7	2.61	13.97%	[0.00]	ug/L
Cd 226.502†	-176.2	4.44	2.52%	[0.00]	ug/L
Co 228.616†	-64.8	2.74	4.22%	[0.00]	ug/L
Cr 267.716†	85.1	9.76	11.47%	[0.00]	ug/L
Cu 324.752†	5955.1	31.63	0.53%	[0.00]	ug/L
Fe 238.204 Radial†	11.7	1.50	12.87%	[0.00]	ug/L
K 766.490 Radial†	2765.1	49.02	1.77%	[0.00]	ug/L
Mg 279.077 IEC†	1.2	1.72	146.81%	[0.00]	ug/L
Mn 257.610†	477.7	16.86	3.53%	[0.00]	ug/L
Mo 202.031†	4.7	5.74	122.92%	[0.00]	ug/L
Na 589.592 Radial†	-901.7	14.66	1.63%	[0.00]	ug/L
Ni 231.604†	82.8	11.86	14.32%	[0.00]	ug/L
P 214.914†	205.8	8.74	4.25%	[0.00]	ug/L
Pb 220.353†	61.2	1.20	1.96%	[0.00]	ug/L
S 181.975 Axial†	35.8	4.76	13.27%	[0.00]	ug/L
Sb 206.836†	39.0	4.22	10.82%	[0.00]	ug/L
Se 196.026†	-24.7	2.56	10.34%	[0.00]	ug/L
Si 251.611†	564.7	18.66	3.30%	[0.00]	ug/L
Sn 189.927†	9.4	3.01	31.95%	[0.00]	ug/L
Sr 421.552†	8.7	15.83	180.99%	[0.00]	ug/L
Ti 334.940†	-1409.9	5.58	0.40%	[0.00]	ug/L
Tl 190.801†	-27.4	7.75	28.25%	[0.00]	ug/L
U 409.014†	-2901.9	133.92	4.61%	[0.00]	ug/L
V 292.402†	-1468.7	49.29	3.36%	[0.00]	ug/L
Zn 213.857†	739.4	5.26	0.71%	[0.00]	ug/L
SiO2†	588.2	6.60	1.12%	[0.00]	ug/L

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

Autosampler Location: 2
Date Collected: 2/25/2010 12:24:15
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	3996.7	3996.7	104	%	12:26:27
1	Y RADIAL	4411.5	4411.5	99.10	%	12:26:27
1	K 766.490 Radial†	7718.5	4683.6	[1000]	ug/L	12:26:07
1	Sr 421.552†	14526.4	14009.7	[100]	ug/L	12:26:27
1	Sc 361.383	921764.2	921764.2	104.74	%	12:27:24
1	Y 371.029	774346.2	774346.2	101.80	%	12:27:24
1	Ag 328.068†	21403.4	20201.1	[100]	ug/L	12:27:29
1	As 188.979†	192.8	204.0	[100]	ug/L	12:27:49
1	B 249.677†	3460.2	3581.7	[100]	ug/L	12:27:29
1	Ba 233.527†	12498.7	11922.3	[100]	ug/L	12:27:29
1	Be 313.107†	262851.0	254520.5	[100]	ug/L	12:27:24
1	Cd 226.502†	8249.2	8052.3	[100]	ug/L	12:27:29
1	Co 228.616†	4589.3	4446.5	[100]	ug/L	12:27:49
1	Cr 267.716†	8841.0	8356.0	[100]	ug/L	12:27:29
1	Cu 324.752†	37712.1	30051.3	[100]	ug/L	12:27:29
1	Mn 257.610†	87168.5	82748.3	[100]	ug/L	12:27:29
1	Mo 202.031†	1343.2	1277.8	[100]	ug/L	12:27:49
1	Ni 231.604†	3912.9	3653.1	[100]	ug/L	12:27:49
1	P 214.914†	1011.4	759.8	[500]	ug/L	12:27:49
1	Pb 220.353†	866.3	765.9	[100]	ug/L	12:27:49
1	S 181.975 Axial†	170.1	126.6	[200]	ug/L	12:27:49
1	Sb 206.836†	315.0	261.7	[100]	ug/L	12:27:49
1	Se 196.026†	129.1	148.0	[100]	ug/L	12:27:49
1	Si 251.611†	15482.3	14217.3	[500]	ug/L	12:27:29
1	Sn 189.927†	550.6	516.3	[100]	ug/L	12:27:49
1	Ti 334.940†	60602.8	59271.7	[100]	ug/L	12:27:29
1	Tl 190.801†	278.0	292.9	[100]	ug/L	12:27:49
1	U 409.014†	717.2	3586.6	[100]	ug/L	12:27:24
1	V 292.402†	12383.5	13292.1	[100]	ug/L	12:27:29
1	Zn 213.857†	10624.8	9404.8	[100]	ug/L	12:27:29
1	SiO2†	15603.5	14309.5	[1069.5]	ug/L	12:28:55
2	Sc Radial	3937.0	3937.0	102	%	12:26:52
2	Y RADIAL	4360.1	4360.1	97.94	%	12:26:52
2	K 766.490 Radial†	7980.5	5053.2	[1000]	ug/L	12:26:32
2	Sr 421.552†	14327.3	14027.3	[100]	ug/L	12:26:52
2	Sc 361.383	922629.0	922629.0	104.84	%	12:27:54
2	Y 371.029	774609.2	774609.2	101.84	%	12:27:54
2	Ag 328.068†	21598.8	20368.4	[100]	ug/L	12:27:59
2	As 188.979†	195.4	206.3	[100]	ug/L	12:28:19
2	B 249.677†	3489.7	3606.7	[100]	ug/L	12:27:59
2	Ba 233.527†	12569.5	11978.7	[100]	ug/L	12:27:59
2	Be 313.107†	263659.5	255056.5	[100]	ug/L	12:27:54
2	Cd 226.502†	8398.3	8187.1	[100]	ug/L	12:27:59
2	Co 228.616†	4551.9	4406.8	[100]	ug/L	12:28:19
2	Cr 267.716†	8909.1	8413.0	[100]	ug/L	12:27:59
2	Cu 324.752†	37970.2	30263.8	[100]	ug/L	12:27:59
2	Mn 257.610†	88128.9	83586.3	[100]	ug/L	12:27:59
2	Mo 202.031†	1342.3	1275.7	[100]	ug/L	12:28:19
2	Ni 231.604†	3884.7	3622.7	[100]	ug/L	12:28:19
2	P 214.914†	1013.0	760.4	[500]	ug/L	12:28:19
2	Pb 220.353†	860.1	759.2	[100]	ug/L	12:28:19
2	S 181.975 Axial†	170.7	126.9	[200]	ug/L	12:28:19
2	Sb 206.836†	305.5	252.4	[100]	ug/L	12:28:19
2	Se 196.026†	124.3	143.3	[100]	ug/L	12:28:19
2	Si 251.611†	15581.0	14297.6	[500]	ug/L	12:27:59
2	Sn 189.927†	545.1	510.5	[100]	ug/L	12:28:19
2	Ti 334.940†	61248.0	59832.9	[100]	ug/L	12:27:59
2	Tl 190.801†	265.1	280.3	[100]	ug/L	12:28:19
2	U 409.014†	891.9	3752.6	[100]	ug/L	12:27:54

2	V 292.402†	12572.2	13461.0	[100]	ug/L	12:27:59
2	Zn 213.857†	10711.0	9477.5	[100]	ug/L	12:27:59
2	SiO2†	15621.0	14312.3	[1069.5]	ug/L	12:29:00
3	Sc Radial	3955.0	3955.0	103	%	12:27:17
3	Y RADIAL	4388.0	4388.0	98.57	%	12:27:17
3	K 766.490 Radial†	7936.9	4975.1	[1000]	ug/L	12:26:57
3	Sr 421.552†	14365.6	14000.8	[100]	ug/L	12:27:17
3	Sc 361.383	913005.5	913005.5	103.74	%	12:28:25
3	Y 371.029	765538.5	765538.5	100.64	%	12:28:25
3	Ag 328.068†	21712.9	20695.5	[100]	ug/L	12:28:30
3	As 188.979†	203.0	215.6	[100]	ug/L	12:28:50
3	B 249.677†	3510.3	3661.7	[100]	ug/L	12:28:30
3	Ba 233.527†	12749.1	12278.2	[100]	ug/L	12:28:30
3	Be 313.107†	260377.4	254543.7	[100]	ug/L	12:28:25
3	Cd 226.502†	8441.8	8313.5	[100]	ug/L	12:28:30
3	Co 228.616†	4569.3	4469.4	[100]	ug/L	12:28:50
3	Cr 267.716†	8935.8	8528.3	[100]	ug/L	12:28:30
3	Cu 324.752†	38476.6	31133.6	[100]	ug/L	12:28:30
3	Mn 257.610†	88881.0	85197.4	[100]	ug/L	12:28:30
3	Mo 202.031†	1356.8	1303.2	[100]	ug/L	12:28:50
3	Ni 231.604†	3881.5	3658.7	[100]	ug/L	12:28:50
3	P 214.914†	1001.0	759.0	[500]	ug/L	12:28:50
3	Pb 220.353†	870.2	777.6	[100]	ug/L	12:28:50
3	S 181.975 Axial†	178.2	136.0	[200]	ug/L	12:28:50
3	Sb 206.836†	316.6	266.2	[100]	ug/L	12:28:50
3	Se 196.026†	121.7	142.1	[100]	ug/L	12:28:50
3	Si 251.611†	15690.2	14559.6	[500]	ug/L	12:28:30
3	Sn 189.927†	547.8	518.6	[100]	ug/L	12:28:50
3	Ti 334.940†	61734.4	60917.5	[100]	ug/L	12:28:30
3	Tl 190.801†	274.4	292.0	[100]	ug/L	12:28:50
3	U 409.014†	805.7	3678.5	[100]	ug/L	12:28:25
3	V 292.402†	12683.6	13694.8	[100]	ug/L	12:28:30
3	Zn 213.857†	10835.1	9704.9	[100]	ug/L	12:28:30
3	SiO2†	15685.3	14531.3	[1069.5]	ug/L	12:29:05

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	919132.9	5324.05	0.58%	104.44	%
Sc Radial	3962.9	30.64	0.77%	103	%
Y 371.029	771498.0	5162.73	0.67%	101.43	%
Y RADIAL	4386.5	25.72	0.59%	98.54	%
Ag 328.068†	20421.7	251.46	1.23%	[100]	ug/L
As 188.979†	208.6	6.16	2.95%	[100]	ug/L
B 249.677†	3616.7	40.92	1.13%	[100]	ug/L
Ba 233.527†	12059.7	191.28	1.59%	[100]	ug/L
Be 313.107†	254706.9	302.97	0.12%	[100]	ug/L
Cd 226.502†	8184.3	130.64	1.60%	[100]	ug/L
Co 228.616†	4440.9	31.68	0.71%	[100]	ug/L
Cr 267.716†	8432.5	87.79	1.04%	[100]	ug/L
Cu 324.752†	30482.9	573.44	1.88%	[100]	ug/L
K 766.490 Radial†	4904.0	194.83	3.97%	[1000]	ug/L
Mn 257.610†	83844.0	1244.72	1.48%	[100]	ug/L
Mo 202.031†	1285.6	15.26	1.19%	[100]	ug/L
Ni 231.604†	3644.8	19.34	0.53%	[100]	ug/L
P 214.914†	759.8	0.70	0.09%	[500]	ug/L
Pb 220.353†	767.6	9.33	1.21%	[100]	ug/L
S 181.975 Axial†	129.8	5.33	4.10%	[200]	ug/L
Sb 206.836†	260.1	7.06	2.71%	[100]	ug/L
Se 196.026†	144.5	3.12	2.16%	[100]	ug/L
Si 251.611†	14358.2	178.97	1.25%	[500]	ug/L
Sn 189.927†	515.1	4.15	0.81%	[100]	ug/L
Sr 421.552†	14012.6	13.45	0.10%	[100]	ug/L
Ti 334.940†	60007.4	836.69	1.39%	[100]	ug/L
Tl 190.801†	288.4	6.99	2.42%	[100]	ug/L
U 409.014†	3672.6	83.13	2.26%	[100]	ug/L
V 292.402†	13482.6	202.25	1.50%	[100]	ug/L
Zn 213.857†	9529.0	156.55	1.64%	[100]	ug/L
SiO2†	14384.4	127.28	0.88%	[1069.5]	ug/L

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

Autosampler Location: 3
Date Collected: 2/25/2010 12:31:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	3815.9	3815.9	98.9	%	12:33:28
1	Y RADIAL	4273.1	4273.1	95.99	%	12:33:08
1	Al 396.153Radial†	5270.3	5442.1	[5000]	ug/L	12:33:08
1	Ca 317.933Radial†	2362.7	2369.5	[5000]	ug/L	12:33:28
1	K 766.490 Radial†	28474.2	26015.9	[5000]	ug/L	12:33:08
1	Mg 279.077 IEC†	96.2	96.0	[5000]	ug/L	12:33:28
1	Sr 421.552†	70971.0	71726.8	[500]	ug/L	12:33:08
1	Sc 361.383	909073.5	909073.5	103.30	%	12:34:26
1	Y 371.029	755222.6	755222.6	99.288	%	12:34:26
1	Ag 328.068†	108576.0	104878.1	[500]	ug/L	12:34:31
1	As 188.979†	1099.8	1084.6	[500]	ug/L	12:34:51
1	B 249.677†	20107.1	19743.7	[500]	ug/L	12:34:31
1	Ba 233.527†	63954.8	61903.5	[500]	ug/L	12:34:31
1	Be 313.107†	1320359.0	1281796.3	[500]	ug/L	12:34:26
1	Cd 226.502†	43069.5	41871.7	[500]	ug/L	12:34:31
1	Co 228.616†	23930.0	23231.4	[500]	ug/L	12:34:31
1	Cr 267.716†	44886.0	43369.0	[500]	ug/L	12:34:31
1	Cu 324.752†	171029.0	159617.9	[500]	ug/L	12:34:31
1	Mn 257.610†	435290.4	420926.4	[500]	ug/L	12:34:26
1	Mo 202.031†	6740.4	6520.7	[500]	ug/L	12:34:51
1	Ni 231.604†	19830.5	19115.1	[500]	ug/L	12:34:31
1	P 214.914†	4309.5	3966.3	[2500]	ug/L	12:34:51
1	Pb 220.353†	4033.9	3844.1	[500]	ug/L	12:34:51
1	S 181.975 Axial†	745.4	685.8	[1000]	ug/L	12:34:51
1	Sb 206.836†	1446.9	1361.7	[500]	ug/L	12:34:51
1	Se 196.026†	733.5	734.9	[500]	ug/L	12:34:51
1	Si 251.611†	78117.1	75060.3	[2500]	ug/L	12:34:31
1	Sn 189.927†	2755.5	2658.1	[500]	ug/L	12:34:51
1	Ti 334.940†	317468.0	308750.3	[500]	ug/L	12:34:31
1	Tl 190.801†	1526.1	1504.8	[500]	ug/L	12:34:51
1	U 409.014†	15013.4	17436.4	[500]	ug/L	12:34:31
1	V 292.402†	70392.7	69615.8	[500]	ug/L	12:34:31
1	Zn 213.857†	50458.4	48109.3	[500]	ug/L	12:34:31
1	SiO2†	76580.7	73549.4	[5347.5]	ug/L	12:35:58
2	Sc Radial	3837.8	3837.8	99.5	%	12:33:53
2	Y RADIAL	4236.0	4236.0	95.15	%	12:33:33
2	Al 396.153Radial†	5207.1	5348.2	[5000]	ug/L	12:33:33
2	Ca 317.933Radial†	2351.6	2344.7	[5000]	ug/L	12:33:53
2	K 766.490 Radial†	27888.0	25262.3	[5000]	ug/L	12:33:33
2	Mg 279.077 IEC†	100.2	99.5	[5000]	ug/L	12:33:53
2	Sr 421.552†	69303.4	69641.1	[500]	ug/L	12:33:33
2	Sc 361.383	900648.1	900648.1	102.34	%	12:34:57
2	Y 371.029	747540.3	747540.3	98.278	%	12:34:57
2	Ag 328.068†	107323.5	104637.6	[500]	ug/L	12:35:02
2	As 188.979†	1099.6	1094.4	[500]	ug/L	12:35:22
2	B 249.677†	19798.2	19624.0	[500]	ug/L	12:35:02
2	Ba 233.527†	63354.3	61896.0	[500]	ug/L	12:35:02
2	Be 313.107†	1341770.2	1314675.9	[500]	ug/L	12:34:57
2	Cd 226.502†	42812.2	42010.3	[500]	ug/L	12:35:02
2	Co 228.616†	23624.5	23149.6	[500]	ug/L	12:35:02
2	Cr 267.716†	44408.7	43309.1	[500]	ug/L	12:35:02
2	Cu 324.752†	168474.8	158670.9	[500]	ug/L	12:35:02
2	Mn 257.610†	442284.4	431702.8	[500]	ug/L	12:34:57
2	Mo 202.031†	6757.9	6598.9	[500]	ug/L	12:35:22
2	Ni 231.604†	19702.1	19169.2	[500]	ug/L	12:35:02
2	P 214.914†	4328.7	4024.0	[2500]	ug/L	12:35:22
2	Pb 220.353†	4064.7	3910.7	[500]	ug/L	12:35:22
2	S 181.975 Axial†	733.3	680.7	[1000]	ug/L	12:35:22
2	Sb 206.836†	1426.3	1354.7	[500]	ug/L	12:35:22

2	Se 196.026†	722.6	730.8	[500]	ug/L	12:35:22
2	Si 251.611†	77199.6	74871.3	[2500]	ug/L	12:35:02
2	Sn 189.927†	2764.5	2691.9	[500]	ug/L	12:35:22
2	Ti 334.940†	313638.3	307883.1	[500]	ug/L	12:35:02
2	Tl 190.801†	1533.1	1525.5	[500]	ug/L	12:35:22
2	U 409.014†	14833.2	17396.2	[500]	ug/L	12:35:02
2	V 292.402†	69582.3	69461.4	[500]	ug/L	12:35:02
2	Zn 213.857†	50065.1	48181.9	[500]	ug/L	12:35:02
2	SiO2†	77056.7	74708.1	[5347.5]	ug/L	12:36:03
3	Sc Radial	3880.2	3880.2	101	%	12:34:18
3	Y RADIAL	4406.4	4406.4	98.98	%	12:33:58
3	Al 396.153Radial†	5270.8	5354.2	[5000]	ug/L	12:33:58
3	Ca 317.933Radial†	2374.3	2341.3	[5000]	ug/L	12:34:18
3	K 766.490 Radial†	28524.3	25588.1	[5000]	ug/L	12:33:58
3	Mg 279.077 IEC†	102.5	100.8	[5000]	ug/L	12:34:18
3	Sr 421.552†	70910.1	70475.9	[500]	ug/L	12:33:58
3	Sc 361.383	902117.6	902117.6	102.50	%	12:35:28
3	Y 371.029	748965.4	748965.4	98.466	%	12:35:28
3	Ag 328.068†	107987.3	105114.3	[500]	ug/L	12:35:33
3	As 188.979†	1101.7	1094.7	[500]	ug/L	12:35:53
3	B 249.677†	19923.8	19714.9	[500]	ug/L	12:35:33
3	Ba 233.527†	63787.9	62218.1	[500]	ug/L	12:35:33
3	Be 313.107†	1323920.3	1295126.6	[500]	ug/L	12:35:28
3	Cd 226.502†	42964.4	42090.7	[500]	ug/L	12:35:33
3	Co 228.616†	23840.8	23323.0	[500]	ug/L	12:35:33
3	Cr 267.716†	44608.0	43432.8	[500]	ug/L	12:35:33
3	Cu 324.752†	169488.4	159391.6	[500]	ug/L	12:35:33
3	Mn 257.610†	436662.0	425513.9	[500]	ug/L	12:35:28
3	Mo 202.031†	6746.8	6577.2	[500]	ug/L	12:35:53
3	Ni 231.604†	19817.3	19250.3	[500]	ug/L	12:35:33
3	P 214.914†	4289.0	3978.4	[2500]	ug/L	12:35:53
3	Pb 220.353†	4030.4	3870.7	[500]	ug/L	12:35:53
3	S 181.975 Axial†	740.7	686.8	[1000]	ug/L	12:35:53
3	Sb 206.836†	1438.6	1364.4	[500]	ug/L	12:35:53
3	Se 196.026†	733.5	740.3	[500]	ug/L	12:35:53
3	Si 251.611†	77722.8	75258.8	[2500]	ug/L	12:35:33
3	Sn 189.927†	2749.7	2673.1	[500]	ug/L	12:35:53
3	Ti 334.940†	315604.6	309302.2	[500]	ug/L	12:35:33
3	Tl 190.801†	1510.3	1500.9	[500]	ug/L	12:35:53
3	U 409.014†	14830.6	17370.1	[500]	ug/L	12:35:33
3	V 292.402†	69999.6	69757.8	[500]	ug/L	12:35:33
3	Zn 213.857†	50312.8	48343.9	[500]	ug/L	12:35:33
3	SiO2†	77192.6	74718.0	[5347.5]	ug/L	12:36:09

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	903946.4	4500.55	0.50%	102.71	%
Sc Radial	3844.6	32.74	0.85%	99.7	%
Y 371.029	750576.1	4086.60	0.54%	98.678	%
Y RADIAL	4305.2	89.63	2.08%	96.71	%
Ag 328.068†	104876.7	238.39	0.23%	[500]	ug/L
Al 396.153Radial†	5381.5	52.57	0.98%	[5000]	ug/L
As 188.979†	1091.2	5.74	0.53%	[500]	ug/L
B 249.677†	19694.2	62.49	0.32%	[500]	ug/L
Ba 233.527†	62005.9	183.86	0.30%	[500]	ug/L
Be 313.107†	1297199.6	16537.56	1.27%	[500]	ug/L
Ca 317.933Radial†	2351.8	15.36	0.65%	[5000]	ug/L
Cd 226.502†	41990.9	110.76	0.26%	[500]	ug/L
Co 228.616†	23234.7	86.75	0.37%	[500]	ug/L
Cr 267.716†	43370.3	61.86	0.14%	[500]	ug/L
Cu 324.752†	159226.8	494.55	0.31%	[500]	ug/L
K 766.490 Radial†	25622.1	377.93	1.48%	[5000]	ug/L
Mg 279.077 IEC†	98.8	2.45	2.48%	[5000]	ug/L
Mn 257.610†	426047.7	5407.96	1.27%	[500]	ug/L
Mo 202.031†	6565.6	40.35	0.61%	[500]	ug/L
Ni 231.604†	19178.2	68.06	0.35%	[500]	ug/L
P 214.914†	3989.6	30.47	0.76%	[2500]	ug/L
Pb 220.353†	3875.2	33.54	0.87%	[500]	ug/L
S 181.975 Axial†	684.4	3.25	0.47%	[1000]	ug/L

Sb 206.836†	1360.3	5.04	0.37%	[500]	ug/L
Se 196.026†	735.3	4.78	0.65%	[500]	ug/L
Si 251.611†	75063.5	193.81	0.26%	[2500]	ug/L
Sn 189.927†	2674.4	16.90	0.63%	[500]	ug/L
Sr 421.552†	70614.6	1049.72	1.49%	[500]	ug/L
Ti 334.940†	308645.2	715.33	0.23%	[500]	ug/L
Tl 190.801†	1510.4	13.22	0.88%	[500]	ug/L
U 409.014†	17400.9	33.40	0.19%	[500]	ug/L
V 292.402†	69611.7	148.23	0.21%	[500]	ug/L
Zn 213.857†	48211.7	120.14	0.25%	[500]	ug/L
SiO2†	74325.2	671.84	0.90%	[5347.5]	ug/L

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

Autosampler Location: 4
Date Collected: 2/25/2010 12:38:19
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: SCAL

Rep1#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	3808.4	3808.4	98.7	%	12:40:32
1	Y RADIAL	4299.5	4299.5	96.58	%	12:40:12
1	Al 396.153Radial†	10748.7	11000.8	[10000]	ug/L	12:40:12
1	Ca 317.933Radial†	4773.6	4815.8	[10000]	ug/L	12:40:12
1	Fe 238.204 Radial†	642.1	638.7	[10000]	ug/L	12:40:32
1	K 766.490 Radial†	54727.0	52659.5	[10000]	ug/L	12:40:12
1	Mg 279.077 IEC†	197.2	198.5	[10000]	ug/L	12:40:32
1	Na 589.592 Radial†	31596.4	32900.8	[10000]	ug/L	12:40:12
1	Sr 421.552†	143041.0	144855.5	[1000]	ug/L	12:40:12
1	Sc 361.383	865537.0	865537.0	98.348	%	12:41:35
1	Y 371.029	733545.9	733545.9	96.439	%	12:41:35
1	Ag 328.068†	213787.7	217143.9	[1000]	ug/L	12:41:35
1	As 188.979†	2209.9	2266.9	[1000]	ug/L	12:41:55
1	B 249.677†	40255.2	41209.3	[1000]	ug/L	12:41:35
1	Ba 233.527†	126205.4	128313.9	[1000]	ug/L	12:41:35
1	Be 313.107†	2632289.2	2680054.4	[1000]	ug/L	12:41:30
1	Cd 226.502†	85209.0	86816.3	[1000]	ug/L	12:41:35
1	Co 228.616†	47185.3	48042.6	[1000]	ug/L	12:41:35
1	Cr 267.716†	88600.0	90002.8	[1000]	ug/L	12:41:35
1	Cu 324.752†	332064.5	331686.1	[1000]	ug/L	12:41:35
1	Mn 257.610†	863783.8	877812.7	[1000]	ug/L	12:41:30
1	Mo 202.031†	13404.2	13624.7	[1000]	ug/L	12:41:55
1	Ni 231.604†	38923.9	39494.8	[1000]	ug/L	12:41:35
1	P 214.914†	8447.6	8383.7	[5000]	ug/L	12:41:55
1	Pb 220.353†	8063.5	8137.8	[1000]	ug/L	12:41:55
1	S 181.975 Axial†	1434.4	1422.7	[2000]	ug/L	12:41:55
1	Sb 206.836†	2844.1	2852.8	[1000]	ug/L	12:41:55
1	Se 196.026†	1478.1	1527.6	[1000]	ug/L	12:41:55
1	Si 251.611†	153849.1	155868.2	[5000]	ug/L	12:41:35
1	Sn 189.927†	5468.5	5551.0	[1000]	ug/L	12:41:55
1	Ti 334.940†	628706.2	640674.6	[1000]	ug/L	12:41:35
1	Tl 190.801†	3043.6	3122.2	[1000]	ug/L	12:41:55
1	U 409.014†	32570.8	36019.7	[1000]	ug/L	12:41:35
1	V 292.402†	140700.8	144532.5	[1000]	ug/L	12:41:35
1	Zn 213.857†	98914.5	99836.2	[1000]	ug/L	12:41:35
1	SiO2†	153891.4	155887.7	[10695]	ug/L	12:43:04
2	Sc Radial	3791.3	3791.3	98.3	%	12:40:57
2	Y RADIAL	4275.5	4275.5	96.04	%	12:40:37
2	Al 396.153Radial†	10639.9	10939.2	[10000]	ug/L	12:40:37
2	Ca 317.933Radial†	4752.5	4816.2	[10000]	ug/L	12:40:37
2	Fe 238.204 Radial†	639.9	639.3	[10000]	ug/L	12:40:57
2	K 766.490 Radial†	54149.5	52322.3	[10000]	ug/L	12:40:37
2	Mg 279.077 IEC†	198.9	201.2	[10000]	ug/L	12:40:57
2	Na 589.592 Radial†	31096.3	32536.6	[10000]	ug/L	12:40:37
2	Sr 421.552†	141512.6	143954.7	[1000]	ug/L	12:40:37
2	Sc 361.383	858880.8	858880.8	97.592	%	12:42:07
2	Y 371.029	724636.9	724636.9	95.267	%	12:42:07
2	Ag 328.068†	211388.0	216369.7	[1000]	ug/L	12:42:07
2	As 188.979†	2193.0	2267.0	[1000]	ug/L	12:42:27
2	B 249.677†	39871.5	41133.3	[1000]	ug/L	12:42:07
2	Ba 233.527†	124842.6	127912.0	[1000]	ug/L	12:42:07
2	Be 313.107†	2643274.2	2712053.0	[1000]	ug/L	12:42:01
2	Cd 226.502†	84171.8	86424.9	[1000]	ug/L	12:42:07
2	Co 228.616†	46623.3	47838.6	[1000]	ug/L	12:42:07
2	Cr 267.716†	87574.9	89650.6	[1000]	ug/L	12:42:07
2	Cu 324.752†	328101.6	330242.1	[1000]	ug/L	12:42:07
2	Mn 257.610†	869143.4	890111.1	[1000]	ug/L	12:42:01
2	Mo 202.031†	13414.2	13740.6	[1000]	ug/L	12:42:27
2	Ni 231.604†	38507.3	39374.6	[1000]	ug/L	12:42:07

2	P 214.914†	8424.5	8426.5	[5000]	ug/L	12:42:27
2	Pb 220.353†	8076.4	8214.5	[1000]	ug/L	12:42:27
2	S 181.975 Axial†	1442.7	1442.4	[2000]	ug/L	12:42:27
2	Sb 206.836†	2843.0	2874.1	[1000]	ug/L	12:42:27
2	Se 196.026†	1478.9	1540.1	[1000]	ug/L	12:42:27
2	Si 251.611†	151986.3	155171.7	[5000]	ug/L	12:42:07
2	Sn 189.927†	5497.4	5623.6	[1000]	ug/L	12:42:27
2	Ti 334.940†	621431.0	638174.2	[1000]	ug/L	12:42:07
2	Tl 190.801†	3030.9	3133.2	[1000]	ug/L	12:42:27
2	U 409.014†	32352.1	36052.2	[1000]	ug/L	12:42:07
2	V 292.402†	139014.6	143913.4	[1000]	ug/L	12:42:07
2	Zn 213.857†	98021.1	99700.2	[1000]	ug/L	12:42:07
2	SiO2†	152854.1	156037.5	[10695]	ug/L	12:43:09
3	Sc Radial	3798.6	3798.6	98.5	%	12:41:22
3	Y RADIAL	4291.5	4291.5	96.40	%	12:41:02
3	Al 396.153Radial†	10724.6	11004.3	[10000]	ug/L	12:41:02
3	Ca 317.933Radial†	4765.6	4820.1	[10000]	ug/L	12:41:02
3	Fe 238.204 Radial†	639.3	637.4	[10000]	ug/L	12:41:22
3	K 766.490 Radial†	54339.7	52409.1	[10000]	ug/L	12:41:02
3	Mg 279.077 IEC†	199.0	200.9	[10000]	ug/L	12:41:22
3	Na 589.592 Radial†	31138.9	32518.7	[10000]	ug/L	12:41:02
3	Sr 421.552†	142255.3	144431.0	[1000]	ug/L	12:41:02
3	Sc 361.383	863416.3	863416.3	98.107	%	12:42:38
3	Y 371.029	730824.4	730824.4	96.081	%	12:42:38
3	Ag 328.068†	212621.8	216489.4	[1000]	ug/L	12:42:38
3	As 188.979†	2204.5	2267.0	[1000]	ug/L	12:42:58
3	B 249.677†	40203.0	41256.6	[1000]	ug/L	12:42:38
3	Ba 233.527†	125631.2	128043.8	[1000]	ug/L	12:42:38
3	Be 313.107†	2647845.5	2702484.8	[1000]	ug/L	12:42:33
3	Cd 226.502†	84783.5	86595.3	[1000]	ug/L	12:42:38
3	Co 228.616†	46929.5	47899.7	[1000]	ug/L	12:42:38
3	Cr 267.716†	88024.9	89637.9	[1000]	ug/L	12:42:38
3	Cu 324.752†	330297.0	330713.9	[1000]	ug/L	12:42:38
3	Mn 257.610†	869497.7	885794.0	[1000]	ug/L	12:42:33
3	Mo 202.031†	13465.8	13720.9	[1000]	ug/L	12:42:58
3	Ni 231.604†	38723.4	39387.6	[1000]	ug/L	12:42:38
3	P 214.914†	8447.1	8404.3	[5000]	ug/L	12:42:58
3	Pb 220.353†	8065.7	8160.1	[1000]	ug/L	12:42:58
3	S 181.975 Axial†	1439.2	1431.1	[2000]	ug/L	12:42:58
3	Sb 206.836†	2851.6	2867.6	[1000]	ug/L	12:42:58
3	Se 196.026†	1484.4	1537.8	[1000]	ug/L	12:42:58
3	Si 251.611†	153082.1	155470.6	[5000]	ug/L	12:42:38
3	Sn 189.927†	5523.7	5620.9	[1000]	ug/L	12:42:58
3	Ti 334.940†	625737.3	639218.6	[1000]	ug/L	12:42:38
3	Tl 190.801†	3058.4	3144.8	[1000]	ug/L	12:42:58
3	U 409.014†	32562.2	36092.3	[1000]	ug/L	12:42:38
3	V 292.402†	140010.9	144180.6	[1000]	ug/L	12:42:38
3	Zn 213.857†	98551.7	99713.5	[1000]	ug/L	12:42:38
3	SiO2†	152217.1	154565.4	[10695]	ug/L	12:43:14

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	862611.4	3400.33	0.39%	98.016	%
Sc Radial	3799.5	8.59	0.23%	98.5	%
Y 371.029	729669.1	4565.49	0.63%	95.929	%
Y RADIAL	4288.8	12.19	0.28%	96.34	%
Ag 328.068†	216667.7	416.77	0.19%	[1000]	ug/L
Al 396.153Radial†	10981.4	36.61	0.33%	[10000]	ug/L
As 188.979†	2267.0	0.05	0.00%	[1000]	ug/L
B 249.677†	41199.7	62.17	0.15%	[1000]	ug/L
Ba 233.527†	128089.9	204.86	0.16%	[1000]	ug/L
Be 313.107†	2698197.4	16424.47	0.61%	[1000]	ug/L
Ca 317.933Radial†	4817.4	2.40	0.05%	[10000]	ug/L
Cd 226.502†	86612.2	196.23	0.23%	[1000]	ug/L
Co 228.616†	47926.9	104.71	0.22%	[1000]	ug/L
Cr 267.716†	89763.8	207.11	0.23%	[1000]	ug/L
Cu 324.752†	330880.7	736.33	0.22%	[1000]	ug/L
Fe 238.204 Radial†	638.5	0.97	0.15%	[10000]	ug/L
K 766.490 Radial†	52463.6	175.10	0.33%	[10000]	ug/L

Mg 279.077 IEC†	200.2	1.44	0.72%	[10000]	ug/L
Mn 257.610†	884572.6	6239.51	0.71%	[1000]	ug/L
Mo 202.031†	13695.4	62.01	0.45%	[1000]	ug/L
Na 589.592 Radial†	32652.0	215.63	0.66%	[10000]	ug/L
Ni 231.604†	39419.0	65.99	0.17%	[1000]	ug/L
P 214.914†	8404.8	21.43	0.26%	[5000]	ug/L
Pb 220.353†	8170.8	39.46	0.48%	[1000]	ug/L
S 181.975 Axial†	1432.1	9.92	0.69%	[2000]	ug/L
Sb 206.836†	2864.8	10.91	0.38%	[1000]	ug/L
Se 196.026†	1535.2	6.61	0.43%	[1000]	ug/L
Si 251.611†	155503.5	349.42	0.22%	[5000]	ug/L
Sn 189.927†	5598.5	41.17	0.74%	[1000]	ug/L
Sr 421.552†	144413.7	450.65	0.31%	[1000]	ug/L
Ti 334.940†	639355.8	1255.85	0.20%	[1000]	ug/L
Tl 190.801†	3133.4	11.34	0.36%	[1000]	ug/L
U 409.014†	36054.7	36.36	0.10%	[1000]	ug/L
V 292.402†	144208.8	310.51	0.22%	[1000]	ug/L
Zn 213.857†	99750.0	74.99	0.08%	[1000]	ug/L
SiO2†	155496.9	810.12	0.52%	[10695]	ug/L

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

Autosampler Location: 5
Date Collected: 2/25/2010 12:45:26
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	3844.6	3844.6	99.7	%	12:47:39
1	Y RADIAL	4222.1	4222.1	94.84	%	12:47:39
1	Al 396.153Radial†	53274.2	53560.6	[50000]	ug/L	12:47:19
1	Ca 317.933Radial†	23013.9	23069.3	[50000]	ug/L	12:47:19
1	Fe 238.204 Radial†	1244.5	1236.8	[20000]	ug/L	12:47:39
1	Mg 279.077 IEC†	943.8	945.6	[50000]	ug/L	12:47:39
1	Na 589.592 Radial†	63855.3	64962.3	[20000]	ug/L	12:47:19
1	Sc 361.383	893028.0	893028.0	101.47	%	12:48:36
1	Y 371.029	734538.4	734538.4	96.569	%	12:48:36
2	Sc Radial	3811.3	3811.3	98.8	%	12:48:04
2	Y RADIAL	4182.4	4182.4	93.95	%	12:48:04
2	Al 396.153Radial†	52033.4	52771.9	[50000]	ug/L	12:47:44
2	Ca 317.933Radial†	22452.6	22702.9	[50000]	ug/L	12:47:44
2	Fe 238.204 Radial†	1220.0	1222.9	[20000]	ug/L	12:48:04
2	Mg 279.077 IEC†	937.2	947.3	[50000]	ug/L	12:48:04
2	Na 589.592 Radial†	61735.0	63376.4	[20000]	ug/L	12:47:44
2	Sc 361.383	882359.1	882359.1	100.26	%	12:48:42
2	Y 371.029	726086.3	726086.3	95.458	%	12:48:42
3	Sc Radial	3845.7	3845.7	99.7	%	12:48:29
3	Y RADIAL	4207.0	4207.0	94.50	%	12:48:29
3	Al 396.153Radial†	52784.0	53054.1	[50000]	ug/L	12:48:09
3	Ca 317.933Radial†	22806.9	22855.2	[50000]	ug/L	12:48:09
3	Fe 238.204 Radial†	1231.6	1223.6	[20000]	ug/L	12:48:29
3	Mg 279.077 IEC†	940.4	942.0	[50000]	ug/L	12:48:29
3	Na 589.592 Radial†	62627.9	63713.6	[20000]	ug/L	12:48:09
3	Sc 361.383	889473.5	889473.5	101.07	%	12:48:48
3	Y 371.029	731482.8	731482.8	96.167	%	12:48:48

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	888286.8	5432.52	0.61%	100.93	%
Sc Radial	3833.9	19.54	0.51%	99.4	%
Y 371.029	730702.5	4279.75	0.59%	96.065	%
Y RADIAL	4203.8	20.07	0.48%	94.43	%
Al 396.153Radial†	53128.9	399.58	0.75%	[50000]	ug/L
Ca 317.933Radial†	22875.8	184.05	0.80%	[50000]	ug/L
Fe 238.204 Radial†	1227.8	7.85	0.64%	[20000]	ug/L
Mg 279.077 IEC†	945.0	2.72	0.29%	[50000]	ug/L
Na 589.592 Radial†	64017.4	835.48	1.31%	[20000]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	215.2	0.00000	0.999908	
Al 396.153Radial	3	Lin Thru 0	0.0	1.064	0.00000	0.999979	
As 188.979	3	Lin Thru 0	0.0	2.249	0.00000	0.999867	
B 249.677	3	Lin Thru 0	0.0	40.80	0.00000	0.999792	
Ba 233.527	3	Lin Thru 0	0.0	127.2	0.00000	0.999908	
Be 313.107	3	Lin Thru 0	0.0	2676	0.00000	0.999871	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.4586	0.00000	0.999946	
Cd 226.502	3	Lin Thru 0	0.0	86.05	0.00000	0.999916	
Co 228.616	3	Lin Thru 0	0.0	47.61	0.00000	0.999908	
Cr 267.716	3	Lin Thru 0	0.0	89.12	0.00000	0.999897	
Cu 324.752	3	Lin Thru 0	0.0	328.2	0.00000	0.999866	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0619	0.00000	0.999874	
K 766.490 Radial	3	Lin Thru 0	0.0	5.219	0.00000	0.999942	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0189	0.00000	0.999927
Mn 257.610	3	Lin Thru 0	0.0	877.8	0.00000	0.999883
Mo 202.031	3	Lin Thru 0	0.0	13.58	0.00000	0.999852
Na 589.592 Radia	2	Lin Thru 0	0.0	3.214	0.00000	0.999968
Ni 231.604	3	Lin Thru 0	0.0	39.18	0.00000	0.999922
P 214.914	3	Lin Thru 0	0.0	1.663	0.00000	0.999762
Pb 220.353	3	Lin Thru 0	0.0	8.083	0.00000	0.999775
S 181.975 Axial	3	Lin Thru 0	0.0	0.7092	0.00000	0.999814
Sb 206.836	3	Lin Thru 0	0.0	2.834	0.00000	0.999767
Se 196.026	3	Lin Thru 0	0.0	1.522	0.00000	0.999847
Si 251.611	3	Lin Thru 0	0.0	30.87	0.00000	0.999884
Sn 189.927	3	Lin Thru 0	0.0	5.545	0.00000	0.999819
Sr 421.552	3	Lin Thru 0	0.0	143.7	0.00000	0.999959
Ti 334.940	3	Lin Thru 0	0.0	634.7	0.00000	0.999892
Tl 190.801	3	Lin Thru 0	0.0	3.109	0.00000	0.999875
U 409.014	3	Lin Thru 0	0.0	35.81	0.00000	0.999900
V 292.402	3	Lin Thru 0	0.0	143.1	0.00000	0.999890
Zn 213.857	3	Lin Thru 0	0.0	99.05	0.00000	0.999905
SiO2	3	Lin Thru 0	0.0	14.40	0.00000	0.999826

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/25/2010 12:50:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	3787.2	3787.2	98.2	%			12:53:12
1	Y RADIAL	4280.9	4280.9	96.16	%			12:52:52
1	Al 396.153Radial†	5715.9	5936.3	5553.3	ug/L	5553.3	ppb	12:52:52
1	Ca 317.933Radial†	2447.2	2473.7	5394.4	ug/L	5394.4	ppb	12:53:12
1	Fe 238.204 Radial†	327.0	321.3	5208.4	ug/L	5208.4	ppb	12:53:12
1	K 766.490 Radial†	16243.6	13777.8	2636.1	ug/L	2636.1	ppb	12:52:52
1	Mg 279.077 IEC†	101.3	102.0	5381.0	ug/L	5381.0	ppb	12:53:12
1	Na 589.592 Radial†	6673.1	7697.7	2395.3	ug/L	2395.3	ppb	12:52:52
1	Sr 421.552†	75430.1	76811.2	534.31	ug/L	534.31	ppb	12:52:52
1	Sc 361.383	913785.7	913785.7	103.83	%			12:54:10
1	Y 371.029	759719.5	759719.5	99.880	%			12:54:10
1	Ag 328.068†	55833.2	53539.1	251.92	ug/L	251.92	ppb	12:54:10
1	As 188.979†	1112.4	1091.2	489.46	ug/L	489.46	ppb	12:54:30
1	B 249.677†	21795.9	21269.7	518.98	ug/L	518.98	ppb	12:54:10
1	Ba 233.527†	69195.7	66631.8	524.99	ug/L	524.99	ppb	12:54:10
1	Be 313.107†	702109.3	679764.3	255.10	ug/L	255.10	ppb	12:54:10
1	Cd 226.502†	44823.0	43345.5	503.58	ug/L	503.58	ppb	12:54:30
1	Co 228.616†	25647.3	24766.0	520.34	ug/L	520.34	ppb	12:54:30
1	Cr 267.716†	46283.5	44490.8	500.22	ug/L	500.22	ppb	12:54:10
1	Cu 324.752†	183346.3	170626.9	519.89	ug/L	519.89	ppb	12:54:10
1	Mn 257.610†	459402.6	441975.9	503.82	ug/L	503.82	ppb	12:54:10
1	Mo 202.031†	7431.0	7152.2	527.26	ug/L	527.26	ppb	12:54:30
1	Ni 231.604†	20024.2	19202.6	489.74	ug/L	489.74	ppb	12:54:30
1	P 214.914†	4716.9	4337.1	2507.2	ug/L	2507.2	ppb	12:54:30
1	Pb 220.353†	4416.1	4192.0	520.28	ug/L	520.28	ppb	12:54:30
1	S 181.975 Axial†	1836.8	1733.2	2442.7	ug/L	2442.7	ppb	12:54:30
1	Sb 206.836†	1475.4	1382.0	506.56	ug/L	506.56	ppb	12:54:30
1	Se 196.026†	4149.3	4021.0	2660.3	ug/L	2660.3	ppb	12:54:30
1	Si 251.611†	156519.8	150180.5	4858.7	ug/L	4858.7	ppb	12:54:10
1	Sn 189.927†	3044.2	2922.4	527.66	ug/L	527.66	ppb	12:54:30
1	Ti 334.940†	322705.7	312209.9	491.82	ug/L	491.82	ppb	12:54:10
1	Tl 190.801†	1658.3	1624.6	525.81	ug/L	525.81	ppb	12:54:30
1	U 409.014†	14690.8	17050.7	474.41	ug/L	474.41	ppb	12:54:10
1	V 292.402†	71767.5	70588.4	500.12	ug/L	500.12	ppb	12:54:10
1	Zn 213.857†	51846.5	49194.2	492.04	ug/L	492.04	ppb	12:54:10
1	SiO2†	156150.9	149801.7	10386	ug/L	10386	ppb	12:55:27
2	Sc Radial	3776.4	3776.4	97.9	%			12:53:37
2	Y RADIAL	4279.7	4279.7	96.14	%			12:53:17
2	Al 396.153Radial†	5650.6	5886.2	5506.4	ug/L	5506.4	ppb	12:53:17
2	Ca 317.933Radial†	2452.7	2486.4	5422.1	ug/L	5422.1	ppb	12:53:37
2	Fe 238.204 Radial†	324.4	319.7	5181.4	ug/L	5181.4	ppb	12:53:37
2	K 766.490 Radial†	16093.5	13671.7	2615.8	ug/L	2615.8	ppb	12:53:17
2	Mg 279.077 IEC†	99.9	100.8	5320.4	ug/L	5320.4	ppb	12:53:37
2	Na 589.592 Radial†	6606.3	7648.8	2380.0	ug/L	2380.0	ppb	12:53:17
2	Sr 421.552†	74450.1	76029.1	528.87	ug/L	528.87	ppb	12:53:17
2	Sc 361.383	915363.3	915363.3	104.01	%			12:54:36
2	Y 371.029	761399.8	761399.8	100.10	%			12:54:36
2	Ag 328.068†	56102.2	53705.1	252.68	ug/L	252.68	ppb	12:54:36
2	As 188.979†	1129.9	1106.3	496.17	ug/L	496.17	ppb	12:54:56
2	B 249.677†	21989.5	21419.7	522.67	ug/L	522.67	ppb	12:54:36
2	Ba 233.527†	69182.7	66504.4	523.99	ug/L	523.99	ppb	12:54:36
2	Be 313.107†	704685.7	681075.9	255.59	ug/L	255.59	ppb	12:54:36
2	Cd 226.502†	44811.3	43259.9	502.59	ug/L	502.59	ppb	12:54:56
2	Co 228.616†	25631.0	24707.7	519.11	ug/L	519.11	ppb	12:54:56
2	Cr 267.716†	46424.9	44550.0	500.88	ug/L	500.88	ppb	12:54:36
2	Cu 324.752†	184186.0	171129.9	521.42	ug/L	521.42	ppb	12:54:36
2	Mn 257.610†	460311.5	442087.2	503.95	ug/L	503.95	ppb	12:54:36
2	Mo 202.031†	7414.9	7124.4	525.21	ug/L	525.21	ppb	12:54:56
2	Ni 231.604†	20010.1	19155.9	488.55	ug/L	488.55	ppb	12:54:56

2	P 214.914†	4688.2	4301.6	2485.6	ug/L	2485.6 ppb	12:54:56
2	Pb 220.353†	4408.8	4177.7	518.50	ug/L	518.50 ppb	12:54:56
2	S 181.975 Axial†	1836.8	1730.1	2438.4	ug/L	2438.4 ppb	12:54:56
2	Sb 206.836†	1484.6	1388.4	508.78	ug/L	508.78 ppb	12:54:56
2	Se 196.026†	4153.1	4017.7	2658.1	ug/L	2658.1 ppb	12:54:56
2	Si 251.611†	157101.6	150480.0	4868.4	ug/L	4868.4 ppb	12:54:36
2	Sn 189.927†	3050.8	2923.8	527.92	ug/L	527.92 ppb	12:54:56
2	Ti 334.940†	323603.6	312537.4	492.35	ug/L	492.35 ppb	12:54:36
2	Tl 190.801†	1655.0	1618.6	523.91	ug/L	523.91 ppb	12:54:56
2	U 409.014†	14732.2	17066.0	474.85	ug/L	474.85 ppb	12:54:36
2	V 292.402†	71862.6	70560.7	499.90	ug/L	499.90 ppb	12:54:36
2	Zn 213.857†	51865.3	49126.2	491.36	ug/L	491.36 ppb	12:54:36
2	SiO2†	156137.2	149529.4	10367	ug/L	10367 ppb	12:55:32
3	Sc Radial	3713.3	3713.3	96.3	%		12:54:02
3	Y RADIAL	4164.7	4164.7	93.55	%		12:53:42
3	Al 396.153Radial†	5560.7	5891.0	5510.9	ug/L	5510.9 ppb	12:53:42
3	Ca 317.933Radial†	2401.3	2475.5	5398.5	ug/L	5398.5 ppb	12:54:02
3	Fe 238.204 Radial†	329.3	330.4	5354.4	ug/L	5354.4 ppb	12:54:02
3	K 766.490 Radial†	15891.4	13741.2	2629.1	ug/L	2629.1 ppb	12:53:42
3	Mg 279.077 IEC†	100.0	102.7	5421.2	ug/L	5421.2 ppb	12:54:02
3	Na 589.592 Radial†	6440.8	7591.7	2362.3	ug/L	2362.3 ppb	12:53:42
3	Sr 421.552†	72780.2	75587.5	525.79	ug/L	525.79 ppb	12:53:42
3	Sc 361.383	912594.3	912594.3	103.70	%		12:55:02
3	Y 371.029	760061.1	760061.1	99.925	%		12:55:02
3	Ag 328.068†	55908.1	53681.6	252.63	ug/L	252.63 ppb	12:55:02
3	As 188.979†	1118.2	1098.3	492.63	ug/L	492.63 ppb	12:55:22
3	B 249.677†	21817.8	21318.3	520.16	ug/L	520.16 ppb	12:55:02
3	Ba 233.527†	69017.4	66546.9	524.33	ug/L	524.33 ppb	12:55:02
3	Be 313.107†	702397.1	680924.6	255.53	ug/L	255.53 ppb	12:55:02
3	Cd 226.502†	44434.4	43027.1	499.86	ug/L	499.86 ppb	12:55:22
3	Co 228.616†	25383.2	24543.5	515.65	ug/L	515.65 ppb	12:55:22
3	Cr 267.716†	46254.2	44520.8	500.57	ug/L	500.57 ppb	12:55:02
3	Cu 324.752†	183319.8	170831.9	520.52	ug/L	520.52 ppb	12:55:02
3	Mn 257.610†	458440.7	441626.0	503.43	ug/L	503.43 ppb	12:55:02
3	Mo 202.031†	7370.8	7103.5	523.68	ug/L	523.68 ppb	12:55:22
3	Ni 231.604†	19840.5	19050.6	485.87	ug/L	485.87 ppb	12:55:22
3	P 214.914†	4657.5	4285.8	2476.1	ug/L	2476.1 ppb	12:55:22
3	Pb 220.353†	4372.0	4155.0	515.67	ug/L	515.67 ppb	12:55:22
3	S 181.975 Axial†	1819.2	1718.5	2422.1	ug/L	2422.1 ppb	12:55:22
3	Sb 206.836†	1463.6	1372.4	503.07	ug/L	503.07 ppb	12:55:22
3	Se 196.026†	4108.5	3986.9	2638.3	ug/L	2638.3 ppb	12:55:22
3	Si 251.611†	156318.5	150183.2	4858.8	ug/L	4858.8 ppb	12:55:02
3	Sn 189.927†	3026.3	2909.0	525.23	ug/L	525.23 ppb	12:55:22
3	Ti 334.940†	322101.2	312032.7	491.54	ug/L	491.54 ppb	12:55:02
3	Tl 190.801†	1644.2	1613.0	522.11	ug/L	522.11 ppb	12:55:22
3	U 409.014†	14665.8	17045.0	474.24	ug/L	474.24 ppb	12:55:02
3	V 292.402†	71773.4	70684.4	500.72	ug/L	500.72 ppb	12:55:02
3	Zn 213.857†	51710.8	49128.6	491.38	ug/L	491.38 ppb	12:55:02
3	SiO2†	155733.1	149595.2	10372	ug/L	10372 ppb	12:55:38

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	913914.4	103.85	%	0.158				0.15%
Sc Radial	3759.0	97.5	%	1.04				1.06%
Y 371.029	760393.4	99.968	%	0.1168				0.12%
Y RADIAL	4241.8	95.28	%	1.500				1.57%
Ag 328.068†	53641.9	252.41	ug/L	0.426	252.41	ppb	0.426	0.17%
QC value within limits for Ag 328.068 Recovery = 100.96%								
Al 396.153Radial†	5904.5	5523.5	ug/L	25.90	5523.5	ppb	25.90	0.47%
QC value greater than the upper limit for Al 396.153Radial Recovery = 110.47%								
As 188.979†	1098.6	492.75	ug/L	3.355	492.75	ppb	3.355	0.68%
QC value within limits for As 188.979 Recovery = 98.55%								
B 249.677†	21335.9	520.60	ug/L	1.881	520.60	ppb	1.881	0.36%
QC value within limits for B 249.677 Recovery = 104.12%								
Ba 233.527†	66561.0	524.44	ug/L	0.510	524.44	ppb	0.510	0.10%
QC value within limits for Ba 233.527 Recovery = 104.89%								
Be 313.107†	680588.3	255.41	ug/L	0.268	255.41	ppb	0.268	0.11%
QC value within limits for Be 313.107 Recovery = 102.16%								
Ca 317.933Radial†	2478.5	5405.0	ug/L	14.97	5405.0	ppb	14.97	0.28%

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   QC value within limits for Ca 317.933Radial  Recovery = 108.10%
Cd 226.502†          43210.8      502.01 ug/L        1.925      502.01 ppb        1.925   0.38%
   QC value within limits for Cd 226.502  Recovery = 100.40%
Co 228.616†          24672.4      518.37 ug/L        2.428      518.37 ppb        2.428   0.47%
   QC value within limits for Co 228.616  Recovery = 103.67%
Cr 267.716†          44520.5      500.56 ug/L        0.331      500.56 ppb        0.331   0.07%
   QC value within limits for Cr 267.716  Recovery = 100.11%
Cu 324.752†         170862.9      520.61 ug/L        0.769      520.61 ppb        0.769   0.15%
   QC value within limits for Cu 324.752  Recovery = 104.12%
Fe 238.204 Radial†     323.8      5248.1 ug/L        93.10      5248.1 ppb        93.10   1.77%
   QC value within limits for Fe 238.204 Radial  Recovery = 104.96%
K 766.490 Radial†    13730.2      2627.0 ug/L        10.33      2627.0 ppb        10.33   0.39%
   QC value within limits for K 766.490 Radial  Recovery = 105.08%
Mg 279.077 IEC†        101.8      5374.2 ug/L        50.71      5374.2 ppb        50.71   0.94%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.48%
Mn 257.610†         441896.4      503.73 ug/L        0.267      503.73 ppb        0.267   0.05%
   QC value within limits for Mn 257.610  Recovery = 100.75%
Mo 202.031†          7126.7      525.39 ug/L        1.796      525.39 ppb        1.796   0.34%
   QC value within limits for Mo 202.031  Recovery = 105.08%
Na 589.592 Radial†   7646.1      2379.2 ug/L        16.52      2379.2 ppb        16.52   0.69%
   QC value within limits for Na 589.592 Radial  Recovery = 95.17%
Ni 231.604†         19136.4      488.05 ug/L        1.985      488.05 ppb        1.985   0.41%
   QC value within limits for Ni 231.604  Recovery = 97.61%
P 214.914†           4308.2      2489.6 ug/L        15.96      2489.6 ppb        15.96   0.64%
   QC value within limits for P 214.914  Recovery = 99.59%
Pb 220.353†          4174.9      518.15 ug/L        2.326      518.15 ppb        2.326   0.45%
   QC value within limits for Pb 220.353  Recovery = 103.63%
S 181.975 Axial†     1727.3      2434.4 ug/L        10.90      2434.4 ppb        10.90   0.45%
   QC value within limits for S 181.975 Axial  Recovery = 97.38%
Sb 206.836†          1380.9      506.14 ug/L        2.876      506.14 ppb        2.876   0.57%
   QC value within limits for Sb 206.836  Recovery = 101.23%
Se 196.026†          4008.5      2652.2 ug/L        12.09      2652.2 ppb        12.09   0.46%
   QC value within limits for Se 196.026  Recovery = 106.09%
Si 251.611†         150281.3      4862.0 ug/L         5.58      4862.0 ppb         5.58   0.11%
   QC value within limits for Si 251.611  Recovery = 97.24%
Sn 189.927†          2918.4      526.94 ug/L        1.483      526.94 ppb        1.483   0.28%
   QC value within limits for Sn 189.927  Recovery = 105.39%
Sr 421.552†         76142.6      529.66 ug/L        4.311      529.66 ppb        4.311   0.81%
   QC value within limits for Sr 421.552  Recovery = 105.93%
Ti 334.940†         312260.0      491.90 ug/L        0.409      491.90 ppb        0.409   0.08%
   QC value within limits for Ti 334.940  Recovery = 98.38%
Tl 190.801†          1618.7      523.94 ug/L        1.849      523.94 ppb        1.849   0.35%
   QC value within limits for Tl 190.801  Recovery = 104.79%
U 409.014†          17053.9      474.50 ug/L        0.312      474.50 ppb        0.312   0.07%
   QC value within limits for U 409.014  Recovery = 94.90%
V 292.402†          70611.2      500.25 ug/L        0.424      500.25 ppb        0.424   0.08%
   QC value within limits for V 292.402  Recovery = 100.05%
Zn 213.857†         49149.7      491.59 ug/L        0.386      491.59 ppb        0.386   0.08%
   QC value within limits for Zn 213.857  Recovery = 98.32%
SiO2†               149642.1       10375 ug/L          9.8       10375 ppb          9.8   0.09%
   QC value within limits for SiO2  Recovery = 97.01%
QC Failed.  Continue with analysis.
```

Sequence No.: 7
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/25/2010 12:57:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3864.4	3864.4	100	%			13:00:01
1	Y RADIAL	4333.3	4333.3	97.34	%			12:59:41
1	Al 396.153Radial†	-114.9	0.4	0.4047	ug/L	0.4047	ppb	12:59:41
1	Ca 317.933Radial†	18.1	-0.7	-1.4345	ug/L	-1.4345	ppb	13:00:01
1	Fe 238.204 Radial†	8.6	-3.1	-50.577	ug/L	-50.577	ppb	13:00:01
1	K 766.490 Radial†	2812.4	42.0	8.0380	ug/L	8.0380	ppb	12:59:41
1	Mg 279.077 IEC†	1.7	0.5	26.336	ug/L	26.336	ppb	13:00:01
1	Na 589.592 Radial†	-864.9	38.4	11.962	ug/L	11.962	ppb	12:59:41
1	Sr 421.552†	12.8	4.0	0.0279	ug/L	0.0279	ppb	12:59:41
1	Sc 361.383	903426.7	903426.7	102.65	%			13:00:58
1	Y 371.029	759979.1	759979.1	99.914	%			13:00:58
1	Ag 328.068†	312.6	70.4	0.3161	ug/L	0.3161	ppb	13:00:58
1	As 188.979†	-22.9	-2.4	-1.0673	ug/L	-1.0673	ppb	13:01:18
1	B 249.677†	-163.6	118.6	2.9153	ug/L	2.9153	ppb	13:01:18
1	Ba 233.527†	2.9	-8.2	-0.0658	ug/L	-0.0658	ppb	13:01:18
1	Be 313.107†	-3630.0	22.1	0.0078	ug/L	0.0078	ppb	13:00:58
1	Cd 226.502†	-180.6	0.3	0.0076	ug/L	0.0076	ppb	13:01:18
1	Co 228.616†	-67.6	-1.0	-0.0193	ug/L	-0.0193	ppb	13:01:18
1	Cr 267.716†	64.6	-22.2	-0.2514	ug/L	-0.2514	ppb	13:01:18
1	Cu 324.752†	6040.2	-71.0	-0.2162	ug/L	-0.2162	ppb	13:00:58
1	Mn 257.610†	496.9	6.4	0.0012	ug/L	0.0012	ppb	13:01:18
1	Mo 202.031†	6.1	1.3	0.0918	ug/L	0.0918	ppb	13:01:18
1	Ni 231.604†	78.3	-6.5	-0.1664	ug/L	-0.1664	ppb	13:01:18
1	P 214.914†	205.3	-5.8	-3.3911	ug/L	-3.3911	ppb	13:01:18
1	Pb 220.353†	26.4	-35.4	-4.3757	ug/L	-4.3757	ppb	13:01:18
1	S 181.975 Axial†	43.4	6.4	9.0514	ug/L	9.0514	ppb	13:01:18
1	Sb 206.836†	30.1	-9.7	-3.4076	ug/L	-3.4076	ppb	13:01:18
1	Se 196.026†	-23.4	1.9	1.1192	ug/L	1.1192	ppb	13:01:18
1	Si 251.611†	581.9	2.2	0.0691	ug/L	0.0691	ppb	13:01:18
1	Sn 189.927†	8.4	-1.2	-0.2146	ug/L	-0.2146	ppb	13:01:18
1	Ti 334.940†	-1585.8	-134.9	-0.2126	ug/L	-0.2126	ppb	13:00:58
1	Tl 190.801†	-33.6	-5.3	-1.7107	ug/L	-1.7107	ppb	13:01:18
1	U 409.014†	-3169.7	-185.9	-5.1858	ug/L	-5.1858	ppb	13:00:58
1	V 292.402†	-1492.6	14.7	0.1022	ug/L	0.1022	ppb	13:00:58
1	Zn 213.857†	991.4	226.3	2.2935	ug/L	2.2935	ppb	13:01:18
1	SiO2†	638.3	33.5	2.3257	ug/L	2.3257	ppb	13:02:14
2	Sc Radial	3835.8	3835.8	99.5	%			13:00:26
2	Y RADIAL	4369.6	4369.6	98.16	%			13:00:06
2	Al 396.153Radial†	-106.5	8.0	7.4720	ug/L	7.4720	ppb	13:00:06
2	Ca 317.933Radial†	12.7	-5.9	-12.883	ug/L	-12.883	ppb	13:00:26
2	Fe 238.204 Radial†	8.0	-3.6	-58.396	ug/L	-58.396	ppb	13:00:26
2	K 766.490 Radial†	2770.3	20.5	3.9467	ug/L	3.9467	ppb	13:00:06
2	Mg 279.077 IEC†	2.4	1.3	66.800	ug/L	66.800	ppb	13:00:26
2	Na 589.592 Radial†	-962.1	-65.7	-20.454	ug/L	-20.454	ppb	13:00:06
2	Sr 421.552†	26.1	17.5	0.1217	ug/L	0.1217	ppb	13:00:06
2	Sc 361.383	895507.8	895507.8	101.75	%			13:01:23
2	Y 371.029	754233.9	754233.9	99.158	%			13:01:23
2	Ag 328.068†	160.1	-76.8	-0.3725	ug/L	-0.3725	ppb	13:01:23
2	As 188.979†	-22.0	-1.7	-0.7867	ug/L	-0.7867	ppb	13:01:43
2	B 249.677†	-148.3	132.3	3.2511	ug/L	3.2511	ppb	13:01:43
2	Ba 233.527†	5.1	-6.0	-0.0496	ug/L	-0.0496	ppb	13:01:43
2	Be 313.107†	-3647.0	-25.9	-0.0099	ug/L	-0.0099	ppb	13:01:23
2	Cd 226.502†	-169.3	9.8	0.1200	ug/L	0.1200	ppb	13:01:43
2	Co 228.616†	-64.5	1.4	0.0324	ug/L	0.0324	ppb	13:01:43
2	Cr 267.716†	81.9	-4.6	-0.0562	ug/L	-0.0562	ppb	13:01:43
2	Cu 324.752†	5918.8	-138.4	-0.4226	ug/L	-0.4226	ppb	13:01:23
2	Mn 257.610†	504.3	18.0	0.0120	ug/L	0.0120	ppb	13:01:43
2	Mo 202.031†	13.2	8.3	0.6044	ug/L	0.6044	ppb	13:01:43
2	Ni 231.604†	101.3	16.8	0.4275	ug/L	0.4275	ppb	13:01:43

2	P 214.914†	208.6	-0.8	-0.3650	ug/L	-0.3650 ppb	13:01:43
2	Pb 220.353†	-3.3	-64.5	-7.9643	ug/L	-7.9643 ppb	13:01:43
2	S 181.975 Axial†	37.1	0.6	0.8137	ug/L	0.8137 ppb	13:01:43
2	Sb 206.836†	42.3	2.5	0.9066	ug/L	0.9066 ppb	13:01:43
2	Se 196.026†	-23.8	1.4	0.7220	ug/L	0.7220 ppb	13:01:43
2	Si 251.611†	599.4	24.4	0.7817	ug/L	0.7817 ppb	13:01:43
2	Sn 189.927†	8.6	-0.9	-0.1666	ug/L	-0.1666 ppb	13:01:43
2	Ti 334.940†	-1488.5	-52.9	-0.0889	ug/L	-0.0889 ppb	13:01:23
2	Tl 190.801†	-33.6	-5.6	-1.8005	ug/L	-1.8005 ppb	13:01:43
2	U 409.014†	-3087.8	-132.7	-3.6995	ug/L	-3.6995 ppb	13:01:23
2	V 292.402†	-1527.3	-32.3	-0.2140	ug/L	-0.2140 ppb	13:01:23
2	Zn 213.857†	997.1	240.5	2.4342	ug/L	2.4342 ppb	13:01:43
2	SiO2†	628.5	29.5	2.0302	ug/L	2.0302 ppb	13:02:19
3	Sc Radial	3871.2	3871.2	100	%		13:00:51
3	Y RADIAL	4314.0	4314.0	96.91	%		13:00:31
3	Al 396.153Radial†	-120.0	-4.5	-4.2645	ug/L	-4.2645 ppb	13:00:31
3	Ca 317.933Radial†	14.5	-4.2	-9.1832	ug/L	-9.1832 ppb	13:00:51
3	Fe 238.204 Radial†	10.5	-1.2	-19.042	ug/L	-19.042 ppb	13:00:51
3	K 766.490 Radial†	2693.2	-81.8	-15.657	ug/L	-15.657 ppb	13:00:31
3	Mg 279.077 IEC†	-0.9	-2.1	-110.80	ug/L	-110.80 ppb	13:00:51
3	Na 589.592 Radial†	-932.9	-27.8	-8.6403	ug/L	-8.6403 ppb	13:00:31
3	Sr 421.552†	72.9	63.9	0.4447	ug/L	0.4447 ppb	13:00:31
3	Sc 361.383	910445.1	910445.1	103.45	%		13:01:49
3	Y 371.029	767542.4	767542.4	100.91	%		13:01:49
3	Ag 328.068†	306.2	61.8	0.2821	ug/L	0.2821 ppb	13:01:49
3	As 188.979†	-28.2	-7.3	-3.2559	ug/L	-3.2559 ppb	13:02:09
3	B 249.677†	-184.1	100.1	2.4564	ug/L	2.4564 ppb	13:02:09
3	Ba 233.527†	11.8	0.3	0.0022	ug/L	0.0022 ppb	13:02:09
3	Be 313.107†	-3689.4	-8.1	-0.0031	ug/L	-0.0031 ppb	13:01:49
3	Cd 226.502†	-179.3	2.9	0.0356	ug/L	0.0356 ppb	13:02:09
3	Co 228.616†	-67.5	-0.4	-0.0069	ug/L	-0.0069 ppb	13:02:09
3	Cr 267.716†	76.4	-11.2	-0.1275	ug/L	-0.1275 ppb	13:02:09
3	Cu 324.752†	6052.4	-104.7	-0.3197	ug/L	-0.3197 ppb	13:01:49
3	Mn 257.610†	483.3	-10.5	-0.0093	ug/L	-0.0093 ppb	13:02:09
3	Mo 202.031†	12.4	7.3	0.5369	ug/L	0.5369 ppb	13:02:09
3	Ni 231.604†	80.0	-5.5	-0.1401	ug/L	-0.1401 ppb	13:02:09
3	P 214.914†	206.0	-6.7	-3.9068	ug/L	-3.9068 ppb	13:02:09
3	Pb 220.353†	-1.3	-62.4	-7.7165	ug/L	-7.7165 ppb	13:02:09
3	S 181.975 Axial†	40.0	2.8	4.0137	ug/L	4.0137 ppb	13:02:09
3	Sb 206.836†	37.6	-2.7	-0.9114	ug/L	-0.9114 ppb	13:02:09
3	Se 196.026†	-35.7	-9.8	-6.4957	ug/L	-6.4957 ppb	13:02:09
3	Si 251.611†	586.0	1.7	0.0491	ug/L	0.0491 ppb	13:02:09
3	Sn 189.927†	21.7	11.6	2.0872	ug/L	2.0872 ppb	13:02:09
3	Ti 334.940†	-1476.1	-17.0	-0.0187	ug/L	-0.0187 ppb	13:01:49
3	Tl 190.801†	-28.1	0.3	0.0940	ug/L	0.0940 ppb	13:02:09
3	U 409.014†	-3013.7	-11.3	-0.3119	ug/L	-0.3119 ppb	13:01:49
3	V 292.402†	-1506.5	12.5	0.0950	ug/L	0.0950 ppb	13:01:49
3	Zn 213.857†	990.0	217.5	2.1998	ug/L	2.1998 ppb	13:02:09
3	SiO2†	605.8	-2.7	-0.2002	ug/L	-0.2002 ppb	13:02:24

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	903126.6	102.62	%	0.849				0.83%
Sc Radial	3857.1	100	%	0.5				0.49%
Y 371.029	760585.1	99.993	%	0.8775				0.88%
Y RADIAL	4338.9	97.47	%	0.634				0.65%
Ag 328.068†	18.5	0.0752	ug/L	0.38811	0.0752	ppb	0.38811	515.88%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	1.3	1.2041	ug/L	5.90893	1.2041	ppb	5.90893	490.75%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.8	-1.7033	ug/L	1.35190	-1.7033	ppb	1.35190	79.37%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	117.0	2.8743	ug/L	0.39894	2.8743	ppb	0.39894	13.88%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-4.6	-0.0378	ug/L	0.03553	-0.0378	ppb	0.03553	94.08%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-4.0	-0.0017	ug/L	0.00890	-0.0017	ppb	0.00890	516.93%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-3.6	-7.8334	ug/L	5.84221	-7.8334	ppb	5.84221	74.58%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                 4.4      0.0544 ug/L       0.05853      0.0544 ppb        0.05853 107.55%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                 0.0      0.0021 ug/L       0.02698      0.0021 ppb        0.02698 >999.9%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -12.7     -0.1450 ug/L       0.09874     -0.1450 ppb        0.09874  68.09%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -104.7     -0.3195 ug/L       0.10318     -0.3195 ppb        0.10318  32.29%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -2.6     -42.672 ug/L       20.8341     -42.672 ppb        20.8341  48.82%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          -6.4     -1.2241 ug/L      12.66554     -1.2241 ppb       12.66554 >999.9%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -0.1     -5.8890 ug/L      93.08322     -5.8890 ppb       93.08322 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                 4.6      0.0013 ug/L       0.01066      0.0013 ppb        0.01066 825.47%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 5.6      0.4110 ug/L       0.27851      0.4110 ppb        0.27851  67.76%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -18.4     -5.7109 ug/L      16.40515     -5.7109 ppb       16.40515 287.26%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 1.6      0.0403 ug/L       0.33556      0.0403 ppb        0.33556 831.71%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -4.4     -2.5543 ug/L       1.91347     -2.5543 ppb        1.91347  74.91%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -54.1     -6.6855 ug/L       2.00419     -6.6855 ppb        2.00419  29.98%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            3.3      4.6263 ug/L       4.15289      4.6263 ppb        4.15289  89.77%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -3.3     -1.1374 ug/L       2.16596     -1.1374 ppb        2.16596 190.42%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -2.2     -1.5515 ug/L       4.28639     -1.5515 ppb        4.28639 276.27%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                 9.4      0.3000 ug/L       0.41734      0.3000 ppb        0.41734 139.12%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 3.1      0.5687 ug/L       1.31527      0.5687 ppb        1.31527 231.29%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                28.5      0.1981 ug/L       0.21867      0.1981 ppb        0.21867 110.38%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -68.3     -0.1068 ug/L       0.09816     -0.1068 ppb        0.09816  91.95%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -3.5     -1.1391 ug/L       1.06882     -1.1391 ppb        1.06882  93.83%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               -110.0     -3.0657 ug/L       2.49799     -3.0657 ppb        2.49799  81.48%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                 -1.7     -0.0056 ug/L       0.18052     -0.0056 ppb        0.18052 >999.9%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               228.1      2.3092 ug/L       0.11796      2.3092 ppb        0.11796   5.11%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      20.1      1.3852 ug/L       1.38096      1.3852 ppb        1.38096  99.69%
   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: 2/25/2010 13:04:35
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	3821.9	3821.9	99.1	%			13:06:48
1	Y RADIAL	4386.9	4386.9	98.54	%			13:06:28
1	Al 396.153Radial†	120.3	236.5	221.72	ug/L	221.72	ppb	13:06:28
1	Ca 317.933Radial†	116.5	98.9	215.62	ug/L	215.62	ppb	13:06:48
1	Fe 238.204 Radial†	17.8	6.3	102.00	ug/L	102.00	ppb	13:06:48
1	K 766.490 Radial†	3621.3	889.5	170.22	ug/L	170.22	ppb	13:06:28
1	Mg 279.077 IEC†	8.8	7.7	406.41	ug/L	406.41	ppb	13:06:48
1	Na 589.592 Radial†	-6.4	895.3	278.57	ug/L	278.57	ppb	13:06:28
1	Sr 421.552†	718.5	716.3	4.9814	ug/L	4.9814	ppb	13:06:28
1	Sc 361.383	902846.8	902846.8	102.59	%			13:07:45
1	Y 371.029	758909.8	758909.8	99.773	%			13:07:45
1	Ag 328.068†	1352.6	1084.3	5.0463	ug/L	5.0463	ppb	13:07:45
1	As 188.979†	50.4	69.0	30.748	ug/L	30.748	ppb	13:08:05
1	B 249.677†	1702.1	1937.2	47.450	ug/L	47.450	ppb	13:07:45
1	Ba 233.527†	679.9	651.7	5.1348	ug/L	5.1348	ppb	13:08:05
1	Be 313.107†	10117.4	13420.4	5.0258	ug/L	5.0258	ppb	13:07:45
1	Cd 226.502†	271.8	441.1	5.1279	ug/L	5.1279	ppb	13:08:05
1	Co 228.616†	178.5	238.8	5.0287	ug/L	5.0287	ppb	13:08:05
1	Cr 267.716†	526.0	427.6	4.7956	ug/L	4.7956	ppb	13:08:05
1	Cu 324.752†	9386.2	3194.3	9.7122	ug/L	9.7122	ppb	13:07:45
1	Mn 257.610†	10009.0	9278.8	10.564	ug/L	10.564	ppb	13:07:45
1	Mo 202.031†	147.5	139.1	10.259	ug/L	10.259	ppb	13:08:05
1	Ni 231.604†	292.7	202.5	5.1652	ug/L	5.1652	ppb	13:08:05
1	P 214.914†	452.2	235.0	139.44	ug/L	139.44	ppb	13:08:05
1	Pb 220.353†	100.0	36.3	4.5433	ug/L	4.5433	ppb	13:08:05
1	S 181.975 Axial†	109.1	70.5	99.410	ug/L	99.410	ppb	13:08:05
1	Sb 206.836†	62.2	21.6	7.9731	ug/L	7.9731	ppb	13:08:05
1	Se 196.026†	22.6	46.7	31.053	ug/L	31.053	ppb	13:08:05
1	Si 251.611†	3803.8	3143.1	101.70	ug/L	101.70	ppb	13:07:45
1	Sn 189.927†	63.8	52.7	9.5440	ug/L	9.5440	ppb	13:08:05
1	Ti 334.940†	1836.2	3199.7	5.0152	ug/L	5.0152	ppb	13:07:45
1	Tl 190.801†	31.4	58.0	18.722	ug/L	18.722	ppb	13:08:05
1	U 409.014†	-1266.7	1667.1	46.531	ug/L	46.531	ppb	13:07:45
1	V 292.402†	-886.8	604.3	4.4412	ug/L	4.4412	ppb	13:07:45
1	Zn 213.857†	2091.9	1299.7	13.060	ug/L	13.060	ppb	13:08:05
1	SiO2†	3861.4	3175.8	220.21	ug/L	220.21	ppb	13:09:02
2	Sc Radial	3915.0	3915.0	102	%			13:07:14
2	Y RADIAL	4311.1	4311.1	96.84	%			13:06:53
2	Al 396.153Radial†	95.7	209.4	196.25	ug/L	196.25	ppb	13:06:53
2	Ca 317.933Radial†	119.3	98.9	215.58	ug/L	215.58	ppb	13:07:14
2	Fe 238.204 Radial†	15.9	4.0	64.447	ug/L	64.447	ppb	13:07:14
2	K 766.490 Radial†	3573.8	755.8	144.61	ug/L	144.61	ppb	13:06:53
2	Mg 279.077 IEC†	9.6	8.3	436.57	ug/L	436.57	ppb	13:07:14
2	Na 589.592 Radial†	-55.8	846.7	263.48	ug/L	263.48	ppb	13:06:53
2	Sr 421.552†	695.5	676.4	4.7042	ug/L	4.7042	ppb	13:06:53
2	Sc 361.383	894126.4	894126.4	101.60	%			13:08:11
2	Y 371.029	751832.7	751832.7	98.843	%			13:08:11
2	Ag 328.068†	1403.6	1147.4	5.3299	ug/L	5.3299	ppb	13:08:11
2	As 188.979†	44.7	63.9	28.441	ug/L	28.441	ppb	13:08:31
2	B 249.677†	1723.2	1974.1	48.359	ug/L	48.359	ppb	13:08:11
2	Ba 233.527†	682.3	660.6	5.2044	ug/L	5.2044	ppb	13:08:31
2	Be 313.107†	9942.7	13344.7	4.9973	ug/L	4.9973	ppb	13:08:11
2	Cd 226.502†	268.0	440.0	5.1188	ug/L	5.1188	ppb	13:08:31
2	Co 228.616†	183.5	245.5	5.1708	ug/L	5.1708	ppb	13:08:31
2	Cr 267.716†	511.7	418.5	4.6906	ug/L	4.6906	ppb	13:08:31
2	Cu 324.752†	9274.2	3173.3	9.6463	ug/L	9.6463	ppb	13:08:11
2	Mn 257.610†	9833.1	9200.9	10.471	ug/L	10.471	ppb	13:08:11
2	Mo 202.031†	154.6	147.5	10.870	ug/L	10.870	ppb	13:08:31
2	Ni 231.604†	274.5	187.4	4.7793	ug/L	4.7793	ppb	13:08:31

2	P 214.914†	446.6	233.8	138.79	ug/L	138.79 ppb	13:08:31
2	Pb 220.353†	104.2	41.4	5.1749	ug/L	5.1749 ppb	13:08:31
2	S 181.975 Axial†	107.2	69.7	98.259	ug/L	98.259 ppb	13:08:31
2	Sb 206.836†	60.2	20.2	7.5393	ug/L	7.5393 ppb	13:08:31
2	Se 196.026†	26.2	50.5	33.411	ug/L	33.411 ppb	13:08:31
2	Si 251.611†	3711.0	3088.0	99.904	ug/L	99.904 ppb	13:08:11
2	Sn 189.927†	74.3	63.7	11.522	ug/L	11.522 ppb	13:08:31
2	Ti 334.940†	1765.9	3148.0	4.9314	ug/L	4.9314 ppb	13:08:11
2	Tl 190.801†	36.5	63.4	20.449	ug/L	20.449 ppb	13:08:31
2	U 409.014†	-1267.4	1654.4	46.181	ug/L	46.181 ppb	13:08:11
2	V 292.402†	-811.2	670.2	4.9160	ug/L	4.9160 ppb	13:08:11
2	Zn 213.857†	1886.8	1117.7	11.230	ug/L	11.230 ppb	13:08:31
2	SiO2†	3823.2	3174.9	220.13	ug/L	220.13 ppb	13:09:07
3	Sc Radial	3814.9	3814.9	98.9	%		13:07:39
3	Y RADIAL	4340.8	4340.8	97.51	%		13:07:19
3	Al 396.153Radial†	97.2	213.3	199.94	ug/L	199.94 ppb	13:07:19
3	Ca 317.933Radial†	112.1	94.7	206.51	ug/L	206.51 ppb	13:07:39
3	Fe 238.204 Radial†	19.1	7.6	123.28	ug/L	123.28 ppb	13:07:39
3	K 766.490 Radial†	3506.5	780.1	149.27	ug/L	149.27 ppb	13:07:19
3	Mg 279.077 IEC†	7.9	6.8	361.03	ug/L	361.03 ppb	13:07:39
3	Na 589.592 Radial†	-23.5	877.9	273.18	ug/L	273.18 ppb	13:07:19
3	Sr 421.552†	738.7	738.1	5.1332	ug/L	5.1332 ppb	13:07:19
3	Sc 361.383	901053.1	901053.1	102.38	%		13:08:36
3	Y 371.029	758912.2	758912.2	99.773	%		13:08:36
3	Ag 328.068†	1427.6	1160.2	5.4126	ug/L	5.4126 ppb	13:08:36
3	As 188.979†	44.5	63.4	28.240	ug/L	28.240 ppb	13:08:56
3	B 249.677†	1714.3	1952.4	47.820	ug/L	47.820 ppb	13:08:36
3	Ba 233.527†	671.0	644.3	5.0799	ug/L	5.0799 ppb	13:08:56
3	Be 313.107†	10136.8	13459.0	5.0402	ug/L	5.0402 ppb	13:08:36
3	Cd 226.502†	268.8	438.8	5.0975	ug/L	5.0975 ppb	13:08:56
3	Co 228.616†	158.2	219.4	4.6205	ug/L	4.6205 ppb	13:08:56
3	Cr 267.716†	516.2	419.1	4.7042	ug/L	4.7042 ppb	13:08:56
3	Cu 324.752†	9396.3	3222.4	9.8010	ug/L	9.8010 ppb	13:08:36
3	Mn 257.610†	9914.9	9206.4	10.486	ug/L	10.486 ppb	13:08:36
3	Mo 202.031†	151.9	143.6	10.592	ug/L	10.592 ppb	13:08:56
3	Ni 231.604†	279.3	190.1	4.8474	ug/L	4.8474 ppb	13:08:56
3	P 214.914†	458.2	241.7	143.48	ug/L	143.48 ppb	13:08:56
3	Pb 220.353†	81.1	18.0	2.2765	ug/L	2.2765 ppb	13:08:56
3	S 181.975 Axial†	116.8	78.2	110.23	ug/L	110.23 ppb	13:08:56
3	Sb 206.836†	64.3	23.8	8.7659	ug/L	8.7659 ppb	13:08:56
3	Se 196.026†	17.2	41.6	27.724	ug/L	27.724 ppb	13:08:56
3	Si 251.611†	3778.5	3125.8	101.13	ug/L	101.13 ppb	13:08:36
3	Sn 189.927†	66.3	55.3	10.007	ug/L	10.007 ppb	13:08:56
3	Ti 334.940†	1834.2	3201.4	5.0218	ug/L	5.0218 ppb	13:08:36
3	Tl 190.801†	38.6	65.1	21.016	ug/L	21.016 ppb	13:08:56
3	U 409.014†	-1393.2	1541.1	43.009	ug/L	43.009 ppb	13:08:36
3	V 292.402†	-729.2	756.5	5.4984	ug/L	5.4984 ppb	13:08:36
3	Zn 213.857†	1794.6	1013.4	10.168	ug/L	10.168 ppb	13:08:56
3	SiO2†	3768.8	3092.9	214.44	ug/L	214.44 ppb	13:09:12

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	899342.1	102.19	%	0.523				0.51%
Sc Radial	3850.6	99.8	%	1.45				1.45%
Y 371.029	756551.6	99.463	%	0.5373				0.54%
Y RADIAL	4346.3	97.63	%	0.858				0.88%
Ag 328.068†	1130.6	5.2629	ug/L	0.19210	5.2629	ppb	0.19210	3.65%
QC value within limits for Ag 328.068 Recovery = 105.26%								
Al 396.153Radial†	219.7	205.97	ug/L	13.762	205.97	ppb	13.762	6.68%
QC value within limits for Al 396.153Radial Recovery = 102.99%								
As 188.979†	65.4	29.143	ug/L	1.3936	29.143	ppb	1.3936	4.78%
QC value within limits for As 188.979 Recovery = 97.14%								
B 249.677†	1954.6	47.876	ug/L	0.4573	47.876	ppb	0.4573	0.96%
QC value within limits for B 249.677 Recovery = 95.75%								
Ba 233.527†	652.2	5.1397	ug/L	0.06238	5.1397	ppb	0.06238	1.21%
QC value within limits for Ba 233.527 Recovery = 102.79%								
Be 313.107†	13408.0	5.0211	ug/L	0.02184	5.0211	ppb	0.02184	0.43%
QC value within limits for Be 313.107 Recovery = 100.42%								
Ca 317.933Radial†	97.5	212.57	ug/L	5.247	212.57	ppb	5.247	2.47%

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   QC value within limits for Ca 317.933Radial  Recovery = 106.29%
Cd 226.502†              440.0      5.1147 ug/L       0.01558      5.1147 ppb        0.01558   0.30%
   QC value within limits for Cd 226.502  Recovery = 102.29%
Co 228.616†              234.6      4.9400 ug/L       0.28568      4.9400 ppb        0.28568   5.78%
   QC value within limits for Co 228.616  Recovery = 98.80%
Cr 267.716†              421.7      4.7301 ug/L       0.05710      4.7301 ppb        0.05710   1.21%
   QC value within limits for Cr 267.716  Recovery = 94.60%
Cu 324.752†             3196.7      9.7198 ug/L       0.07762      9.7198 ppb        0.07762   0.80%
   QC value within limits for Cu 324.752  Recovery = 97.20%
Fe 238.204 Radial†        6.0      96.577 ug/L       29.7902      96.577 ppb        29.7902  30.85%
   QC value within limits for Fe 238.204 Radial  Recovery = 96.58%
K 766.490 Radial†        808.5     154.70 ug/L        13.639      154.70 ppb         13.639   8.82%
   QC value within limits for K 766.490 Radial  Recovery = 103.13%
Mg 279.077 IEC†           7.6      401.34 ug/L       38.026      401.34 ppb         38.026   9.47%
   QC value greater than the upper limit for Mg 279.077 IEC  Recovery = 133.78%
Mn 257.610†             9228.7      10.507 ug/L       0.0503      10.507 ppb         0.0503   0.48%
   QC value within limits for Mn 257.610  Recovery = 105.07%
Mo 202.031†              143.4      10.574 ug/L       0.3062      10.574 ppb         0.3062   2.90%
   QC value within limits for Mo 202.031  Recovery = 105.74%
Na 589.592 Radial†       873.3     271.74 ug/L         7.649      271.74 ppb          7.649   2.81%
   QC value within limits for Na 589.592 Radial  Recovery = 90.58%
Ni 231.604†              193.3      4.9306 ug/L       0.20596      4.9306 ppb        0.20596   4.18%
   QC value within limits for Ni 231.604  Recovery = 98.61%
P 214.914†               236.8     140.57 ug/L         2.539      140.57 ppb          2.539   1.81%
   QC value within limits for P 214.914  Recovery = 93.71%
Pb 220.353†               31.9      3.9982 ug/L       1.52417      3.9982 ppb        1.52417  38.12%
   QC value less than the lower limit for Pb 220.353  Recovery = 39.98%
S 181.975 Axial†          72.8     102.63 ug/L         6.605      102.63 ppb          6.605   6.44%
   QC value within limits for S 181.975 Axial  Recovery = 102.63%
Sb 206.836†               21.9      8.0928 ug/L       0.62200      8.0928 ppb        0.62200   7.69%
   QC value within limits for Sb 206.836  Recovery = 80.93%
Se 196.026†               46.3     30.729 ug/L        2.8573      30.729 ppb         2.8573   9.30%
   QC value within limits for Se 196.026  Recovery = 102.43%
Si 251.611†             3119.0     100.91 ug/L         0.916      100.91 ppb          0.916   0.91%
   QC value within limits for Si 251.611  Recovery = 100.91%
Sn 189.927†               57.3      10.358 ug/L       1.0347      10.358 ppb         1.0347   9.99%
   QC value within limits for Sn 189.927  Recovery = 103.58%
Sr 421.552†              710.3      4.9396 ug/L       0.21754      4.9396 ppb        0.21754   4.40%
   QC value within limits for Sr 421.552  Recovery = 98.79%
Ti 334.940†             3183.0      4.9894 ug/L       0.05037      4.9894 ppb        0.05037   1.01%
   QC value within limits for Ti 334.940  Recovery = 99.79%
Tl 190.801†               62.2     20.063 ug/L        1.1948      20.063 ppb         1.1948   5.96%
   QC value within limits for Tl 190.801  Recovery = 100.31%
U 409.014†              1620.9     45.240 ug/L        1.9398      45.240 ppb         1.9398   4.29%
   QC value within limits for U 409.014  Recovery = 90.48%
V 292.402†               677.0      4.9519 ug/L       0.52953      4.9519 ppb        0.52953  10.69%
   QC value within limits for V 292.402  Recovery = 99.04%
Zn 213.857†             1143.6     11.486 ug/L        1.4627      11.486 ppb         1.4627  12.73%
   QC value within limits for Zn 213.857  Recovery = 114.86%
SiO2†                   3147.9     218.26 ug/L         3.308      218.26 ppb          3.308   1.52%
   QC value within limits for SiO2  Recovery = 102.47%
QC Failed.  Continue with analysis.
```

Sequence No.: 9
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 2/25/2010 13:11:23
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	3516.8	3516.8	91.2	%			13:13:36
1	Y RADIAL	3851.0	3851.0	86.51	%			13:13:36
1	Al 396.153Radial†	512124.4	561772.4	527950	ug/L	527950	ppb	13:13:16
1	Ca 317.933Radial†	205043.0	224856.1	490350	ug/L	490350	ppb	13:13:16
1	Fe 238.204 Radial†	10540.7	11548.5	186630	ug/L	186630	ppb	13:13:36
1	K 766.490 Radial†	2375.9	-159.3	-194.54	ug/L	-194.54	ppb	13:13:16
1	Mg 279.077 IEC†	8643.7	9478.5	500000	ug/L	500000	ppb	13:13:36
1	Na 589.592 Radial†	-763.4	64.4	20.041	ug/L	20.041	ppb	13:13:36
1	Sr 421.552†	507.6	548.0	0.1505	ug/L	0.1505	ppb	13:13:36
1	Sc 361.383	776594.5	776594.5	88.242	%			13:14:34
1	Y 371.029	636459.0	636459.0	83.675	%			13:14:34
1	Ag 328.068†	-9986.1	-11550.9	-2.9488	ug/L	-2.9488	ppb	13:14:34
1	As 188.979†	-82.9	-74.0	10.658	ug/L	10.658	ppb	13:14:54
1	B 249.677†	547.8	898.8	-8.2804	ug/L	-8.2804	ppb	13:14:34
1	Ba 233.527†	-566.1	-652.6	0.5857	ug/L	0.5857	ppb	13:14:54
1	Be 313.107†	-4021.8	-999.4	-0.4230	ug/L	-0.4230	ppb	13:14:34
1	Cd 226.502†	1198.7	1534.6	-1.4332	ug/L	-1.4332	ppb	13:14:54
1	Co 228.616†	-18.3	44.2	-1.7674	ug/L	-1.7674	ppb	13:14:54
1	Cr 267.716†	-1328.4	-1590.6	-0.0936	ug/L	-0.0936	ppb	13:14:54
1	Cu 324.752†	3059.0	-2488.5	2.2700	ug/L	2.2700	ppb	13:14:34
1	Mn 257.610†	1007.3	663.8	-1.2626	ug/L	-1.2626	ppb	13:14:34
1	Mo 202.031†	-256.3	-295.2	-1.4175	ug/L	-1.4175	ppb	13:14:54
1	Ni 231.604†	182.2	123.7	3.1551	ug/L	3.1551	ppb	13:14:54
1	P 214.914†	168.3	-15.1	-26.963	ug/L	-26.963	ppb	13:14:54
1	Pb 220.353†	-748.0	-908.8	-15.831	ug/L	-15.831	ppb	13:14:54
1	S 181.975 Axial†	62.7	35.2	-49.369	ug/L	-49.369	ppb	13:14:54
1	Sb 206.836†	80.9	52.7	0.8027	ug/L	0.8027	ppb	13:14:54
1	Se 196.026†	-858.5	-948.2	-46.155	ug/L	-46.155	ppb	13:14:54
1	Si 251.611†	499.4	1.3	0.3081	ug/L	0.3081	ppb	13:14:54
1	Sn 189.927†	-354.7	-411.4	2.2179	ug/L	2.2179	ppb	13:14:54
1	Ti 334.940†	-13483.9	-13870.7	3.0447	ug/L	3.0447	ppb	13:14:34
1	Tl 190.801†	-74.8	-57.3	-18.649	ug/L	-18.649	ppb	13:14:54
1	U 409.014†	-1061.1	1699.3	26.217	ug/L	26.217	ppb	13:14:34
1	V 292.402†	825.6	2404.3	-0.9114	ug/L	-0.9114	ppb	13:14:54
1	Zn 213.857†	2867.4	2510.1	-2.5985	ug/L	-2.5985	ppb	13:14:54
1	SiO2†	544.0	28.3	2.5577	ug/L	2.5577	ppb	13:15:50
2	Sc Radial	3499.3	3499.3	90.7	%			13:14:02
2	Y RADIAL	3852.6	3852.6	86.54	%			13:14:02
2	Al 396.153Radial†	516438.1	569344.8	535070	ug/L	535070	ppb	13:13:42
2	Ca 317.933Radial†	206409.9	227491.0	496100	ug/L	496100	ppb	13:13:42
2	Fe 238.204 Radial†	10509.1	11571.7	187000	ug/L	187000	ppb	13:14:02
2	K 766.490 Radial†	2376.8	-145.3	-193.77	ug/L	-193.77	ppb	13:13:42
2	Mg 279.077 IEC†	8605.7	9484.2	500290	ug/L	500290	ppb	13:14:02
2	Na 589.592 Radial†	-773.8	48.8	15.184	ug/L	15.184	ppb	13:14:02
2	Sr 421.552†	504.3	547.1	0.1015	ug/L	0.1015	ppb	13:14:02
2	Sc 361.383	778719.7	778719.7	88.484	%			13:14:59
2	Y 371.029	637401.9	637401.9	83.799	%			13:14:59
2	Ag 328.068†	-10017.8	-11555.8	-2.9304	ug/L	-2.9304	ppb	13:14:59
2	As 188.979†	-77.7	-67.9	13.490	ug/L	13.490	ppb	13:15:19
2	B 249.677†	514.9	859.9	-9.2953	ug/L	-9.2953	ppb	13:14:59
2	Ba 233.527†	-582.0	-668.8	0.4696	ug/L	0.4696	ppb	13:15:19
2	Be 313.107†	-4011.7	-975.6	-0.4132	ug/L	-0.4132	ppb	13:14:59
2	Cd 226.502†	1206.1	1539.3	-1.4176	ug/L	-1.4176	ppb	13:15:19
2	Co 228.616†	3.2	68.5	-1.2577	ug/L	-1.2577	ppb	13:15:19
2	Cr 267.716†	-1316.7	-1573.2	0.1391	ug/L	0.1391	ppb	13:15:19
2	Cu 324.752†	3036.9	-2522.9	2.1882	ug/L	2.1882	ppb	13:14:59
2	Mn 257.610†	974.1	623.2	-1.2840	ug/L	-1.2840	ppb	13:14:59
2	Mo 202.031†	-228.2	-262.6	1.0788	ug/L	1.0788	ppb	13:15:19
2	Ni 231.604†	197.2	140.1	3.5751	ug/L	3.5751	ppb	13:15:19

2	P 214.914†	167.3	-16.7	-26.390 ug/L	-26.390 ppb	13:15:19
2	Pb 220.353†	-745.3	-903.5	-13.650 ug/L	-13.650 ppb	13:15:19
2	S 181.975 Axial†	67.6	40.6	-43.037 ug/L	-43.037 ppb	13:15:19
2	Sb 206.836†	77.5	48.6	-0.7479 ug/L	-0.7479 ppb	13:15:19
2	Se 196.026†	-865.2	-953.1	-48.312 ug/L	-48.312 ppb	13:15:19
2	Si 251.611†	491.8	-8.9	-0.0490 ug/L	-0.0490 ppb	13:15:19
2	Sn 189.927†	-339.1	-392.7	6.5805 ug/L	6.5805 ppb	13:15:19
2	Ti 334.940†	-13286.3	-13605.7	4.2113 ug/L	4.2113 ppb	13:14:59
2	Tl 190.801†	-81.6	-64.8	-21.064 ug/L	-21.064 ppb	13:15:19
2	U 409.014†	-1253.7	1484.9	20.186 ug/L	20.186 ppb	13:14:59
2	V 292.402†	812.8	2387.3	-1.0569 ug/L	-1.0569 ppb	13:15:19
2	Zn 213.857†	2860.5	2493.4	-2.8254 ug/L	-2.8254 ppb	13:15:19
2	SiO2†	503.9	-18.7	-0.7710 ug/L	-0.7710 ppb	13:15:55
3	Sc Radial	3514.5	3514.5	91.1 %		13:14:27
3	Y RADIAL	3875.9	3875.9	87.07 %		13:14:27
3	Al 396.153Radial†	513660.9	563821.6	529880 ug/L	529880 ppb	13:14:07
3	Ca 317.933Radial†	204750.2	224680.2	489970 ug/L	489970 ppb	13:14:07
3	Fe 238.204 Radial†	10586.5	11606.3	187560 ug/L	187560 ppb	13:14:27
3	K 766.490 Radial†	2531.0	12.5	-161.50 ug/L	-161.50 ppb	13:14:07
3	Mg 279.077 IEC†	8656.8	9499.0	501080 ug/L	501080 ppb	13:14:27
3	Na 589.592 Radial†	-724.1	107.0	33.293 ug/L	33.293 ppb	13:14:27
3	Sr 421.552†	493.8	533.1	0.0503 ug/L	0.0503 ppb	13:14:27
3	Sc 361.383	784074.2	784074.2	89.092 %		13:15:25
3	Y 371.029	643503.1	643503.1	84.601 %		13:15:25
3	Ag 328.068†	-9896.1	-11341.9	-1.6837 ug/L	-1.6837 ppb	13:15:25
3	As 188.979†	-96.5	-88.3	4.5092 ug/L	4.5092 ppb	13:15:45
3	B 249.677†	537.4	881.2	-8.8657 ug/L	-8.8657 ppb	13:15:25
3	Ba 233.527†	-576.0	-657.5	0.5737 ug/L	0.5737 ppb	13:15:45
3	Be 313.107†	-3936.2	-859.8	-0.3706 ug/L	-0.3706 ppb	13:15:25
3	Cd 226.502†	1189.0	1510.7	-1.8081 ug/L	-1.8081 ppb	13:15:45
3	Co 228.616†	2.4	67.5	-1.2857 ug/L	-1.2857 ppb	13:15:45
3	Cr 267.716†	-1354.4	-1605.3	-0.1691 ug/L	-0.1691 ppb	13:15:45
3	Cu 324.752†	2927.7	-2668.9	1.7728 ug/L	1.7728 ppb	13:15:25
3	Mn 257.610†	753.9	368.5	-1.5509 ug/L	-1.5509 ppb	13:15:25
3	Mo 202.031†	-232.5	-265.7	0.8201 ug/L	0.8201 ppb	13:15:45
3	Ni 231.604†	169.0	106.9	2.7270 ug/L	2.7270 ppb	13:15:45
3	P 214.914†	170.5	-14.4	-26.645 ug/L	-26.645 ppb	13:15:45
3	Pb 220.353†	-736.1	-887.5	-12.890 ug/L	-12.890 ppb	13:15:45
3	S 181.975 Axial†	80.5	54.6	-22.371 ug/L	-22.371 ppb	13:15:45
3	Sb 206.836†	50.8	18.0	-11.378 ug/L	-11.378 ppb	13:15:45
3	Se 196.026†	-878.3	-961.1	-51.778 ug/L	-51.778 ppb	13:15:45
3	Si 251.611†	502.4	-0.8	0.2152 ug/L	0.2152 ppb	13:15:45
3	Sn 189.927†	-335.7	-386.2	6.6395 ug/L	6.6395 ppb	13:15:45
3	Ti 334.940†	-13538.4	-13786.1	3.0410 ug/L	3.0410 ppb	13:15:25
3	Tl 190.801†	-61.8	-41.9	-13.683 ug/L	-13.683 ppb	13:15:45
3	U 409.014†	-1255.9	1492.2	20.327 ug/L	20.327 ppb	13:15:25
3	V 292.402†	743.6	2303.3	-1.7123 ug/L	-1.7123 ppb	13:15:45
3	Zn 213.857†	2889.4	2503.7	-2.7992 ug/L	-2.7992 ppb	13:15:45
3	SiO2†	485.2	-43.6	-2.4972 ug/L	-2.4972 ppb	13:16:00

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	779796.2	88.606	%	0.4380				0.49%
Sc Radial	3510.2	91.0	%	0.25				0.27%
Y 371.029	639121.3	84.025	%	0.5027				0.60%
Y RADIAL	3859.8	86.70	%	0.313				0.36%
Ag 328.068†	-11482.9	-2.5209	ug/L	0.72516	-2.5209	ppb	0.72516	28.77%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	564979.6	530970	ug/L	3680.9	530970	ppb	3680.9	0.69%
QC value within limits for Al 396.153Radial Recovery = 106.19%								
As 188.979†	-76.7	9.5526	ug/L	4.59153	9.5526	ppb	4.59153	48.07%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	880.0	-8.8138	ug/L	0.50947	-8.8138	ppb	0.50947	5.78%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-659.6	0.5430	ug/L	0.06381	0.5430	ppb	0.06381	11.75%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-945.0	-0.4023	ug/L	0.02789	-0.4023	ppb	0.02789	6.93%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	225675.8	492140	ug/L	3433.5	492140	ppb	3433.5	0.70%

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   QC value within limits for Ca 317.933Radial  Recovery = 98.43%
Cd 226.502†            1528.2     -1.5529 ug/L       0.22109     -1.5529 ppb        0.22109  14.24%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†              60.0     -1.4369 ug/L       0.28653     -1.4369 ppb        0.28653  19.94%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†           -1589.7     -0.0412 ug/L       0.16064     -0.0412 ppb        0.16064 389.71%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†           -2560.1      2.0770 ug/L       0.26659      2.0770 ppb        0.26659  12.84%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†    11575.5      187060 ug/L         470.0      187060 ppb          470.0   0.25%
   QC value within limits for Fe 238.204 Radial  Recovery = 93.53%
K 766.490 Radial†       -97.4     -183.27 ug/L        18.859     -183.27 ppb         18.859  10.29%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†        9487.2      500450 ug/L         557.7      500450 ppb          557.7   0.11%
   QC value within limits for Mg 279.077 IEC  Recovery = 100.09%
Mn 257.610†             551.8     -1.3658 ug/L       0.16064     -1.3658 ppb        0.16064  11.76%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†            -274.5      0.1605 ug/L       1.37265      0.1605 ppb        1.37265 855.35%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†      73.4      22.839 ug/L        9.3736      22.839 ppb         9.3736  41.04%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†             123.6      3.1524 ug/L       0.42404      3.1524 ppb        0.42404  13.45%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†              -15.4     -26.666 ug/L        0.2870     -26.666 ppb         0.2870   1.08%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†            -899.9     -14.124 ug/L        1.5267     -14.124 ppb         1.5267  10.81%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†        43.4     -38.259 ug/L       14.1188     -38.259 ppb        14.1188  36.90%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†             39.8     -3.7744 ug/L       6.63034     -3.7744 ppb        6.63034 175.67%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†            -954.1     -48.748 ug/L        2.8368     -48.748 ppb         2.8368   5.82%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              -2.8      0.1581 ug/L       0.18527      0.1581 ppb        0.18527 117.17%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†            -396.7      5.1459 ug/L       2.53597      5.1459 ppb        2.53597  49.28%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†             542.7      0.1008 ug/L       0.05013      0.1008 ppb        0.05013  49.75%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†          -13754.1      3.4324 ug/L       0.67461      3.4324 ppb        0.67461  19.65%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†             -54.7     -17.798 ug/L        3.7633     -17.798 ppb         3.7633  21.14%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†             1558.8      22.243 ug/L        3.4419      22.243 ppb         3.4419  15.47%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†             2365.0     -1.2268 ug/L       0.42663     -1.2268 ppb        0.42663  34.77%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†            2502.4     -2.7411 ug/L       0.12411     -2.7411 ppb        0.12411   4.53%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                   -11.3     -0.2368 ug/L       2.56942     -0.2368 ppb        2.56942 >999.9%
   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: 2/25/2010 13:18:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3513.3	3513.3	91.1	%			13:20:25
1	Y RADIAL	3875.0	3875.0	87.05	%			13:20:25
1	Al 396.153Radial†	512153.2	562373.6	528490	ug/L	528490	ppb	13:20:05
1	Ca 317.933Radial†	205399.9	225476.0	491700	ug/L	491700	ppb	13:20:05
1	Fe 238.204 Radial†	10618.9	11646.1	188220	ug/L	188220	ppb	13:20:25
1	K 766.490 Radial†	29267.8	29366.1	5459.0	ug/L	5459.0	ppb	13:20:05
1	Mg 279.077 IEC†	8604.2	9444.8	498220	ug/L	498220	ppb	13:20:25
1	Na 589.592 Radial†	14934.8	17297.6	5382.4	ug/L	5382.4	ppb	13:20:05
1	Sr 421.552†	65939.7	72382.1	499.86	ug/L	499.86	ppb	13:20:05
1	Sc 361.383	782319.6	782319.6	88.893	%			13:21:23
1	Y 371.029	640245.9	640245.9	84.173	%			13:21:23
1	Ag 328.068†	40921.5	45800.6	265.64	ug/L	265.64	ppb	13:21:23
1	As 188.979†	919.7	1054.6	516.11	ug/L	516.11	ppb	13:21:43
1	B 249.677†	18984.2	21634.3	498.44	ug/L	498.44	ppb	13:21:23
1	Ba 233.527†	54226.9	60991.7	486.26	ug/L	486.26	ppb	13:21:23
1	Be 313.107†	572334.6	647408.0	242.99	ug/L	242.99	ppb	13:21:23
1	Cd 226.502†	35907.0	40569.8	452.39	ug/L	452.39	ppb	13:21:43
1	Co 228.616†	18357.4	20716.0	432.50	ug/L	432.50	ppb	13:21:43
1	Cr 267.716†	36131.0	40560.6	473.53	ug/L	473.53	ppb	13:21:23
1	Cu 324.752†	158733.5	172612.7	535.60	ug/L	535.60	ppb	13:21:23
1	Mn 257.610†	371879.7	417869.7	474.27	ug/L	474.27	ppb	13:21:23
1	Mo 202.031†	5594.1	6288.4	483.63	ug/L	483.63	ppb	13:21:43
1	Ni 231.604†	15368.0	17205.5	438.83	ug/L	438.83	ppb	13:21:43
1	P 214.914†	3884.8	4164.4	2384.1	ug/L	2384.1	ppb	13:21:43
1	Pb 220.353†	2597.2	2860.5	451.33	ug/L	451.33	ppb	13:21:43
1	S 181.975 Axial†	1714.1	1892.4	2569.2	ug/L	2569.2	ppb	13:21:43
1	Sb 206.836†	1392.5	1527.4	538.68	ug/L	538.68	ppb	13:21:43
1	Se 196.026†	2548.1	2891.2	2483.4	ug/L	2483.4	ppb	13:21:43
1	Si 251.611†	141887.6	159052.2	5146.9	ug/L	5146.9	ppb	13:21:23
1	Sn 189.927†	2039.2	2284.6	488.53	ug/L	488.53	ppb	13:21:43
1	Ti 334.940†	272124.4	307537.2	509.42	ug/L	509.42	ppb	13:21:23
1	Tl 190.801†	1200.9	1378.4	446.79	ug/L	446.79	ppb	13:21:43
1	U 409.014†	13691.8	18304.5	488.66	ug/L	488.66	ppb	13:21:23
1	V 292.402†	63473.7	72873.6	498.15	ug/L	498.15	ppb	13:21:23
1	Zn 213.857†	45960.0	50963.4	482.83	ug/L	482.83	ppb	13:21:23
1	SiO2†	142505.8	159724.1	11077	ug/L	11077	ppb	13:22:41
2	Sc Radial	3546.1	3546.1	91.9	%			13:20:50
2	Y RADIAL	3889.8	3889.8	87.38	%			13:20:50
2	Al 396.153Radial†	509339.0	554108.6	520730	ug/L	520730	ppb	13:20:30
2	Ca 317.933Radial†	203931.3	221791.7	483670	ug/L	483670	ppb	13:20:30
2	Fe 238.204 Radial†	10648.6	11570.5	187000	ug/L	187000	ppb	13:20:50
2	K 766.490 Radial†	29106.3	28893.1	5371.1	ug/L	5371.1	ppb	13:20:30
2	Mg 279.077 IEC†	8651.7	9409.0	496330	ug/L	496330	ppb	13:20:50
2	Na 589.592 Radial†	14773.9	16970.9	5280.7	ug/L	5280.7	ppb	13:20:30
2	Sr 421.552†	65581.6	71322.5	492.55	ug/L	492.55	ppb	13:20:30
2	Sc 361.383	784901.8	784901.8	89.186	%			13:21:49
2	Y 371.029	641411.4	641411.4	84.326	%			13:21:49
2	Ag 328.068†	40951.6	45682.9	264.82	ug/L	264.82	ppb	13:21:49
2	As 188.979†	915.0	1045.9	511.97	ug/L	511.97	ppb	13:22:09
2	B 249.677†	19121.4	21717.9	500.69	ug/L	500.69	ppb	13:21:49
2	Ba 233.527†	54324.6	60900.5	485.51	ug/L	485.51	ppb	13:21:49
2	Be 313.107†	574294.3	647487.1	243.02	ug/L	243.02	ppb	13:21:49
2	Cd 226.502†	35980.5	40519.4	451.93	ug/L	451.93	ppb	13:22:09
2	Co 228.616†	18395.5	20690.8	431.98	ug/L	431.98	ppb	13:22:09
2	Cr 267.716†	36164.0	40463.9	472.33	ug/L	472.33	ppb	13:21:49
2	Cu 324.752†	159413.3	172787.4	536.07	ug/L	536.07	ppb	13:21:49
2	Mn 257.610†	372746.1	417464.8	473.77	ug/L	473.77	ppb	13:21:49
2	Mo 202.031†	5603.7	6278.4	482.71	ug/L	482.71	ppb	13:22:09
2	Ni 231.604†	15376.2	17157.8	437.61	ug/L	437.61	ppb	13:22:09

2	P 214.914†	3878.4	4142.8	2370.0	ug/L	2370.0 ppb	13:22:09
2	Pb 220.353†	2591.9	2845.0	447.82	ug/L	447.82 ppb	13:22:09
2	S 181.975 Axial†	1716.5	1888.8	2565.5	ug/L	2565.5 ppb	13:22:09
2	Sb 206.836†	1414.0	1546.5	545.60	ug/L	545.60 ppb	13:22:09
2	Se 196.026†	2547.1	2880.7	2472.8	ug/L	2472.8 ppb	13:22:09
2	Si 251.611†	142214.6	158893.7	5141.8	ug/L	5141.8 ppb	13:21:49
2	Sn 189.927†	2046.2	2284.9	487.23	ug/L	487.23 ppb	13:22:09
2	Ti 334.940†	272971.9	307480.3	508.40	ug/L	508.40 ppb	13:21:49
2	Tl 190.801†	1184.6	1355.7	439.48	ug/L	439.48 ppb	13:22:09
2	U 409.014†	13809.4	18385.7	491.07	ug/L	491.07 ppb	13:21:49
2	V 292.402†	63754.3	72953.4	498.84	ug/L	498.84 ppb	13:21:49
2	Zn 213.857†	46053.9	50898.5	482.36	ug/L	482.36 ppb	13:21:49
2	SiO2†	142304.4	158971.0	11024	ug/L	11024 ppb	13:22:46
3	Sc Radial	3521.8	3521.8	91.3	%		13:21:16
3	Y RADIAL	3862.6	3862.6	86.77	%		13:21:16
3	Al 396.153Radial†	507164.7	555553.4	522080	ug/L	522080 ppb	13:20:56
3	Ca 317.933Radial†	202842.9	222131.5	484410	ug/L	484410 ppb	13:20:56
3	Fe 238.204 Radial†	10603.7	11601.4	187500	ug/L	187500 ppb	13:21:16
3	K 766.490 Radial†	28957.6	28948.8	5381.5	ug/L	5381.5 ppb	13:20:56
3	Mg 279.077 IEC†	8626.6	9446.5	498310	ug/L	498310 ppb	13:21:16
3	Na 589.592 Radial†	14654.6	16951.2	5274.6	ug/L	5274.6 ppb	13:20:56
3	Sr 421.552†	64941.8	71114.5	491.10	ug/L	491.10 ppb	13:20:56
3	Sc 361.383	785255.2	785255.2	89.226	%		13:22:15
3	Y 371.029	643966.9	643966.9	84.662	%		13:22:15
3	Ag 328.068†	41141.5	45875.1	265.86	ug/L	265.86 ppb	13:22:15
3	As 188.979†	920.8	1051.9	514.74	ug/L	514.74 ppb	13:22:35
3	B 249.677†	19147.3	21737.3	501.10	ug/L	501.10 ppb	13:22:15
3	Ba 233.527†	54245.1	60784.0	484.61	ug/L	484.61 ppb	13:22:15
3	Be 313.107†	575688.4	648759.7	243.50	ug/L	243.50 ppb	13:22:15
3	Cd 226.502†	35725.2	40215.1	448.34	ug/L	448.34 ppb	13:22:35
3	Co 228.616†	18229.5	20495.5	427.87	ug/L	427.87 ppb	13:22:35
3	Cr 267.716†	36244.9	40536.3	473.19	ug/L	473.19 ppb	13:22:15
3	Cu 324.752†	159459.1	172758.3	536.01	ug/L	536.01 ppb	13:22:15
3	Mn 257.610†	372233.6	416702.3	472.87	ug/L	472.87 ppb	13:22:15
3	Mo 202.031†	5576.8	6245.5	480.33	ug/L	480.33 ppb	13:22:35
3	Ni 231.604†	15236.2	16993.1	433.41	ug/L	433.41 ppb	13:22:35
3	P 214.914†	3857.4	4117.3	2354.6	ug/L	2354.6 ppb	13:22:35
3	Pb 220.353†	2569.2	2818.2	444.74	ug/L	444.74 ppb	13:22:35
3	S 181.975 Axial†	1700.4	1869.9	2538.6	ug/L	2538.6 ppb	13:22:35
3	Sb 206.836†	1398.1	1527.9	538.89	ug/L	538.89 ppb	13:22:35
3	Se 196.026†	2533.6	2864.2	2463.5	ug/L	2463.5 ppb	13:22:35
3	Si 251.611†	142070.7	158660.7	5134.2	ug/L	5134.2 ppb	13:22:15
3	Sn 189.927†	2028.4	2264.0	483.55	ug/L	483.55 ppb	13:22:35
3	Ti 334.940†	272791.7	307140.6	507.81	ug/L	507.81 ppb	13:22:15
3	Tl 190.801†	1170.4	1339.1	434.15	ug/L	434.15 ppb	13:22:35
3	U 409.014†	13885.1	18463.6	493.19	ug/L	493.19 ppb	13:22:15
3	V 292.402†	63705.0	72866.0	498.16	ug/L	498.16 ppb	13:22:15
3	Zn 213.857†	46002.3	50817.6	481.49	ug/L	481.49 ppb	13:22:15
3	SiO2†	142989.0	159666.4	11073	ug/L	11073 ppb	13:22:51

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	784158.8	89.102	%	0.1821				0.20%
Sc Radial	3527.0	91.4	%	0.44				0.48%
Y 371.029	641874.7	84.387	%	0.2502				0.30%
Y RADIAL	3875.8	87.06	%	0.307				0.35%
Ag 328.068†	45786.2	265.44	ug/L	0.544	265.44	ppb	0.544	0.20%
QC value within limits for Ag 328.068 Recovery = 106.18%								
Al 396.153Radial†	557345.2	523770	ug/L	4148.4	523770	ppb	4148.4	0.79%
QC value within limits for Al 396.153Radial Recovery = 104.75%								
As 188.979†	1050.8	514.27	ug/L	2.109	514.27	ppb	2.109	0.41%
QC value within limits for As 188.979 Recovery = 102.85%								
B 249.677†	21696.5	500.08	ug/L	1.430	500.08	ppb	1.430	0.29%
QC value within limits for B 249.677 Recovery = 100.02%								
Ba 233.527†	60892.1	485.46	ug/L	0.828	485.46	ppb	0.828	0.17%
QC value within limits for Ba 233.527 Recovery = 97.09%								
Be 313.107†	647884.9	243.17	ug/L	0.283	243.17	ppb	0.283	0.12%
QC value within limits for Be 313.107 Recovery = 97.27%								
Ca 317.933Radial†	223133.1	486590	ug/L	4440.3	486590	ppb	4440.3	0.91%

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   QC value within limits for Ca 317.933Radial  Recovery = 97.32%
Cd 226.502†            40434.8      450.89 ug/L         2.217      450.89 ppb          2.217   0.49%
   QC value within limits for Cd 226.502  Recovery = 90.18%
Co 228.616†            20634.1      430.78 ug/L         2.537      430.78 ppb          2.537   0.59%
   QC value within limits for Co 228.616  Recovery = 86.16%
Cr 267.716†            40520.3      473.02 ug/L         0.619      473.02 ppb          0.619   0.13%
   QC value within limits for Cr 267.716  Recovery = 94.60%
Cu 324.752†           172719.5      535.89 ug/L         0.253      535.89 ppb          0.253   0.05%
   QC value within limits for Cu 324.752  Recovery = 107.18%
Fe 238.204 Radial†     11606.0      187570 ug/L         613.8      187570 ppb          613.8   0.33%
   QC value within limits for Fe 238.204 Radial  Recovery = 93.78%
K 766.490 Radial†      29069.3      5403.8 ug/L         48.02      5403.8 ppb          48.02   0.89%
   QC value within limits for K 766.490 Radial  Recovery = 108.08%
Mg 279.077 IEC†         9433.4      497620 ug/L        1117.1      497620 ppb         1117.1   0.22%
   QC value within limits for Mg 279.077 IEC  Recovery = 99.52%
Mn 257.610†           417345.6      473.64 ug/L         0.712      473.64 ppb          0.712   0.15%
   QC value within limits for Mn 257.610  Recovery = 94.73%
Mo 202.031†             6270.8      482.22 ug/L         1.705      482.22 ppb          1.705   0.35%
   QC value within limits for Mo 202.031  Recovery = 96.44%
Na 589.592 Radial†     17073.2      5312.6 ug/L         60.55      5312.6 ppb          60.55   1.14%
   QC value within limits for Na 589.592 Radial  Recovery = 106.25%
Ni 231.604†            17118.8      436.61 ug/L         2.842      436.61 ppb          2.842   0.65%
   QC value within limits for Ni 231.604  Recovery = 87.32%
P 214.914†              4141.5      2369.6 ug/L         14.74      2369.6 ppb          14.74   0.62%
   QC value within limits for P 214.914  Recovery = 94.78%
Pb 220.353†             2841.2      447.96 ug/L         3.300      447.96 ppb          3.300   0.74%
   QC value within limits for Pb 220.353  Recovery = 89.59%
S 181.975 Axial†        1883.7      2557.8 ug/L         16.71      2557.8 ppb          16.71   0.65%
   QC value within limits for S 181.975 Axial  Recovery = 102.31%
Sb 206.836†             1533.9      541.06 ug/L         3.935      541.06 ppb          3.935   0.73%
   QC value within limits for Sb 206.836  Recovery = 108.21%
Se 196.026†             2878.7      2473.2 ug/L          9.99      2473.2 ppb           9.99   0.40%
   QC value within limits for Se 196.026  Recovery = 98.93%
Si 251.611†           158868.9      5141.0 ug/L          6.36      5141.0 ppb           6.36   0.12%
   QC value within limits for Si 251.611  Recovery = 102.82%
Sn 189.927†             2277.8      486.44 ug/L         2.581      486.44 ppb          2.581   0.53%
   QC value within limits for Sn 189.927  Recovery = 97.29%
Sr 421.552†            71606.3      494.51 ug/L         4.697      494.51 ppb          4.697   0.95%
   QC value within limits for Sr 421.552  Recovery = 98.90%
Ti 334.940†           307386.0      508.54 ug/L         0.815      508.54 ppb          0.815   0.16%
   QC value within limits for Ti 334.940  Recovery = 101.71%
Tl 190.801†             1357.7      440.14 ug/L         6.344      440.14 ppb          6.344   1.44%
   QC value within limits for Tl 190.801  Recovery = 88.03%
U 409.014†             18384.6      490.97 ug/L         2.264      490.97 ppb          2.264   0.46%
   QC value within limits for U 409.014  Recovery = 98.19%
V 292.402†             72897.6      498.38 ug/L         0.395      498.38 ppb          0.395   0.08%
   QC value within limits for V 292.402  Recovery = 99.68%
Zn 213.857†            50893.2      482.23 ug/L         0.675      482.23 ppb          0.675   0.14%
   QC value within limits for Zn 213.857  Recovery = 96.45%
SiO2†                 159453.8       11058 ug/L          29.1       11058 ppb           29.1   0.26%
   QC value within limits for SiO2  Recovery = 103.39%
All analyte(s) passed QC.
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Sequence No.: 11
Sample ID: LR1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/25/2010 13:25:01
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	3553.2	3553.2	92.1	%			13:27:14
1	Y RADIAL	3936.1	3936.1	88.42	%			13:27:14
1	Al 396.153Radial†	492600.4	534834.6	502640	ug/L	502640	ppb	13:26:54
1	Ca 317.933Radial†	197343.5	214198.4	467110	ug/L	467110	ppb	13:26:54
1	Fe 238.204 Radial†	24241.3	26302.3	425050	ug/L	425050	ppb	13:27:14
1	K 766.490 Radial†	3394.9	920.1	-172.35	ug/L	-172.35	ppb	13:26:54
1	Mg 279.077 IEC†	8333.3	9044.7	476850	ug/L	476850	ppb	13:27:14
1	Na 589.592 Radial†	1459646.4	1585353.1	493300	ug/L	493300	ppb	13:26:54
1	Sr 421.552†	718.4	771.1	1.8765	ug/L	1.8765	ppb	13:27:14
1	Sc 361.383	759227.4	759227.4	86.269	%			13:28:12
1	Y 371.029	625373.1	625373.1	82.217	%			13:28:12
1	Ag 328.068†	-22970.0	-26860.2	-11.287	ug/L	-11.287	ppb	13:28:12
1	As 188.979†	-196.9	-208.3	6.9407	ug/L	6.9407	ppb	13:28:33
1	B 249.677†	1658.2	2200.2	-15.121	ug/L	-15.121	ppb	13:28:12
1	Ba 233.527†	-1635.3	-1906.6	-1.9879	ug/L	-1.9879	ppb	13:28:33
1	Be 313.107†	-9559.3	-7522.6	-2.8413	ug/L	-2.8413	ppb	13:28:12
1	Cd 226.502†	3059.6	3722.8	1.9587	ug/L	1.9587	ppb	13:28:33
1	Co 228.616†	227.6	328.6	0.6923	ug/L	0.6923	ppb	13:28:33
1	Cr 267.716†	-1168.4	-1439.5	19.025	ug/L	19.025	ppb	13:28:33
1	Cu 324.752†	388.9	-5504.3	-1.6594	ug/L	-1.6594	ppb	13:28:12
1	Mn 257.610†	-20250.1	-23951.0	-4.8206	ug/L	-4.8206	ppb	13:28:12
1	Mo 202.031†	-495.0	-578.4	-4.0496	ug/L	-4.0496	ppb	13:28:33
1	Ni 231.604†	279.7	241.4	6.1571	ug/L	6.1571	ppb	13:28:33
1	P 214.914†	537.7	417.5	36.648	ug/L	36.648	ppb	13:28:33
1	Pb 220.353†	-462.4	-597.2	-8.6933	ug/L	-8.6933	ppb	13:28:33
1	S 181.975 Axial†	74.2	50.1	-23.512	ug/L	-23.512	ppb	13:28:33
1	Sb 206.836†	69.5	41.5	-5.5938	ug/L	-5.5938	ppb	13:28:33
1	Se 196.026†	-1947.4	-2232.6	-146.42	ug/L	-146.42	ppb	13:28:33
1	Si 251.611†	-446.5	-1082.2	-34.535	ug/L	-34.535	ppb	13:28:33
1	Sn 189.927†	-369.0	-437.1	-20.247	ug/L	-20.247	ppb	13:28:33
1	Ti 334.940†	-8581.5	-8537.5	4.3615	ug/L	4.3615	ppb	13:28:12
1	Tl 190.801†	-97.4	-85.5	-27.821	ug/L	-27.821	ppb	13:28:33
1	U 409.014†	409715.3	477831.2	13295	ug/L	13295	ppb	13:28:12
1	V 292.402†	2472.0	4334.2	2.5441	ug/L	2.5441	ppb	13:28:33
1	Zn 213.857†	5262.5	5360.6	-9.5081	ug/L	-9.5081	ppb	13:28:33
1	SiO2†	-402.7	-1055.0	-72.082	ug/L	-72.082	ppb	13:29:29
2	Sc Radial	3479.0	3479.0	90.2	%			13:27:40
2	Y RADIAL	3870.2	3870.2	86.94	%			13:27:40
2	Al 396.153Radial†	485998.8	538908.2	506460	ug/L	506460	ppb	13:27:20
2	Ca 317.933Radial†	194518.3	215630.3	470230	ug/L	470230	ppb	13:27:20
2	Fe 238.204 Radial†	24330.3	26961.6	435710	ug/L	435710	ppb	13:27:40
2	K 766.490 Radial†	3211.8	795.6	-197.73	ug/L	-197.73	ppb	13:27:20
2	Mg 279.077 IEC†	8383.0	9292.5	489920	ug/L	489920	ppb	13:27:40
2	Na 589.592 Radial†	1432846.8	1589399.7	494560	ug/L	494560	ppb	13:27:20
2	Sr 421.552†	716.8	785.9	1.9560	ug/L	1.9560	ppb	13:27:40
2	Sc 361.383	762018.1	762018.1	86.586	%			13:28:38
2	Y 371.029	627331.4	627331.4	82.475	%			13:28:38
2	Ag 328.068†	-23087.7	-26898.7	-8.2606	ug/L	-8.2606	ppb	13:28:38
2	As 188.979†	-197.6	-208.3	9.4042	ug/L	9.4042	ppb	13:28:58
2	B 249.677†	1465.5	1970.6	-22.476	ug/L	-22.476	ppb	13:28:38
2	Ba 233.527†	-1578.4	-1833.9	-1.0955	ug/L	-1.0955	ppb	13:28:58
2	Be 313.107†	-9615.9	-7547.4	-2.8506	ug/L	-2.8506	ppb	13:28:38
2	Cd 226.502†	3045.1	3693.1	0.5176	ug/L	0.5176	ppb	13:28:58
2	Co 228.616†	204.5	301.0	-0.0414	ug/L	-0.0414	ppb	13:28:58
2	Cr 267.716†	-1154.1	-1418.0	20.266	ug/L	20.266	ppb	13:28:58
2	Cu 324.752†	311.4	-5595.4	-1.3871	ug/L	-1.3871	ppb	13:28:38
2	Mn 257.610†	-20473.3	-24122.8	-4.4986	ug/L	-4.4986	ppb	13:28:38
2	Mo 202.031†	-498.9	-580.8	-3.3624	ug/L	-3.3624	ppb	13:28:58
2	Ni 231.604†	257.0	214.0	5.4567	ug/L	5.4567	ppb	13:28:58

2	P 214.914†	539.1	416.8	28.649	ug/L	28.649 ppb	13:28:58
2	Pb 220.353†	-499.5	-638.1	-14.069	ug/L	-14.069 ppb	13:28:58
2	S 181.975 Axial†	75.6	51.5	-22.271	ug/L	-22.271 ppb	13:28:58
2	Sb 206.836†	74.3	46.8	-4.0260	ug/L	-4.0260 ppb	13:28:58
2	Se 196.026†	-1943.4	-2219.7	-104.75	ug/L	-104.75 ppb	13:28:58
2	Si 251.611†	-481.4	-1120.7	-35.778	ug/L	-35.778 ppb	13:28:58
2	Sn 189.927†	-386.2	-455.5	-23.609	ug/L	-23.609 ppb	13:28:58
2	Ti 334.940†	-8630.8	-8558.0	3.6686	ug/L	3.6686 ppb	13:28:38
2	Tl 190.801†	-96.4	-83.9	-27.320	ug/L	-27.320 ppb	13:28:58
2	U 409.014†	412016.4	478749.4	13319	ug/L	13319 ppb	13:28:38
2	V 292.402†	2289.2	4112.6	-0.2566	ug/L	-0.2566 ppb	13:28:58
2	Zn 213.857†	5235.9	5307.6	-11.633	ug/L	-11.633 ppb	13:28:58
2	SiO2†	-611.4	-1294.4	-88.699	ug/L	-88.699 ppb	13:29:35
3	Sc Radial	3474.7	3474.7	90.1	%		13:28:05
3	Y RADIAL	3838.0	3838.0	86.22	%		13:28:05
3	Al 396.153Radial†	497415.3	552258.1	519010	ug/L	519010 ppb	13:27:45
3	Ca 317.933Radial†	198416.2	220228.1	480260	ug/L	480260 ppb	13:27:45
3	Fe 238.204 Radial†	24271.8	26930.6	435210	ug/L	435210 ppb	13:28:05
3	K 766.490 Radial†	3083.1	657.3	-231.38	ug/L	-231.38 ppb	13:27:45
3	Mg 279.077 IEC†	8348.4	9265.8	488510	ug/L	488510 ppb	13:28:05
3	Na 589.592 Radial†	1459207.4	1620657.3	504290	ug/L	504290 ppb	13:27:45
3	Sr 421.552†	722.0	792.7	1.9286	ug/L	1.9286 ppb	13:28:05
3	Sc 361.383	765983.5	765983.5	87.036	%		13:29:04
3	Y 371.029	631124.3	631124.3	82.973	%		13:29:04
3	Ag 328.068†	-23102.6	-26777.8	-7.9701	ug/L	-7.9701 ppb	13:29:04
3	As 188.979†	-186.5	-194.3	15.541	ug/L	15.541 ppb	13:29:24
3	B 249.677†	1456.9	1951.9	-22.854	ug/L	-22.854 ppb	13:29:04
3	Ba 233.527†	-1608.7	-1859.3	-1.3101	ug/L	-1.3101 ppb	13:29:24
3	Be 313.107†	-9655.8	-7535.8	-2.8387	ug/L	-2.8387 ppb	13:29:04
3	Cd 226.502†	3082.1	3717.3	0.8469	ug/L	0.8469 ppb	13:29:24
3	Co 228.616†	224.8	323.2	0.4282	ug/L	0.4282 ppb	13:29:24
3	Cr 267.716†	-1066.0	-1309.8	21.441	ug/L	21.441 ppb	13:29:24
3	Cu 324.752†	152.4	-5780.0	-1.9635	ug/L	-1.9635 ppb	13:29:04
3	Mn 257.610†	-21111.3	-24733.4	-5.1862	ug/L	-5.1862 ppb	13:29:04
3	Mo 202.031†	-474.9	-550.3	-1.0305	ug/L	-1.0305 ppb	13:29:24
3	Ni 231.604†	266.6	223.5	5.6989	ug/L	5.6989 ppb	13:29:24
3	P 214.914†	531.4	404.8	25.080	ug/L	25.080 ppb	13:29:24
3	Pb 220.353†	-488.7	-622.6	-9.3415	ug/L	-9.3415 ppb	13:29:24
3	S 181.975 Axial†	92.1	69.9	1.3203	ug/L	1.3203 ppb	13:29:24
3	Sb 206.836†	50.5	19.0	-14.053	ug/L	-14.053 ppb	13:29:24
3	Se 196.026†	-1967.7	-2236.1	-117.18	ug/L	-117.18 ppb	13:29:24
3	Si 251.611†	-424.3	-1052.2	-33.588	ug/L	-33.588 ppb	13:29:24
3	Sn 189.927†	-366.5	-430.5	-17.291	ug/L	-17.291 ppb	13:29:24
3	Ti 334.940†	-6826.0	-6432.8	8.4862	ug/L	8.4862 ppb	13:29:04
3	Tl 190.801†	-105.3	-93.5	-30.379	ug/L	-30.379 ppb	13:29:24
3	U 409.014†	413463.7	477949.0	13297	ug/L	13297 ppb	13:29:04
3	V 292.402†	2325.6	4140.7	-0.0295	ug/L	-0.0295 ppb	13:29:24
3	Zn 213.857†	5266.7	5311.7	-11.517	ug/L	-11.517 ppb	13:29:24
3	SiO2†	-346.5	-986.3	-67.374	ug/L	-67.374 ppb	13:29:40

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	762409.7	86.630	%	0.3858				0.45%
Sc Radial	3502.3	90.8	%	1.14				1.26%
Y 371.029	627942.9	82.555	%	0.3844				0.47%
Y RADIAL	3881.5	87.19	%	1.123				1.29%
Ag 328.068†	-26845.6	-9.1726	ug/L	1.83698	-9.1726	ppb	1.83698	20.03%
Al 396.153Radial†	542000.3	509370	ug/L	8565.3	509370	ppb	8565.3	1.68%
QC value within limits for Al 396.153Radial Recovery = 101.87%								
As 188.979†	-203.6	10.629	ug/L	4.4290	10.629	ppb	4.4290	41.67%
B 249.677†	2040.9	-20.150	ug/L	4.3598	-20.150	ppb	4.3598	21.64%
Ba 233.527†	-1866.6	-1.4645	ug/L	0.46579	-1.4645	ppb	0.46579	31.80%
Be 313.107†	-7535.3	-2.8435	ug/L	0.00628	-2.8435	ppb	0.00628	0.22%
Ca 317.933Radial†	216685.6	472530	ug/L	6870.1	472530	ppb	6870.1	1.45%
QC value within limits for Ca 317.933Radial Recovery = 94.51%								
Cd 226.502†	3711.0	1.1077	ug/L	0.75513	1.1077	ppb	0.75513	68.17%
Co 228.616†	317.6	0.3597	ug/L	0.37163	0.3597	ppb	0.37163	103.32%
Cr 267.716†	-1389.1	20.244	ug/L	1.2086	20.244	ppb	1.2086	5.97%
Cu 324.752†	-5626.6	-1.6700	ug/L	0.28835	-1.6700	ppb	0.28835	17.27%

Fe 238.204 Radial†	26731.5	431990 ug/L	6011.9	431990 ppb	6011.9	1.39%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 86.40%						
K 766.490 Radial†	791.0	-200.48 ug/L	29.611	-200.48 ppb	29.611	14.77%
Mg 279.077 IEC†	9201.0	485090 ug/L	7171.9	485090 ppb	7171.9	1.48%
QC value within limits for Mg 279.077 IEC Recovery = 97.02%						
Mn 257.610†	-24269.1	-4.8351 ug/L	0.34403	-4.8351 ppb	0.34403	7.12%
Mo 202.031†	-569.8	-2.8142 ug/L	1.58245	-2.8142 ppb	1.58245	56.23%
Na 589.592 Radial†	1598470.0	497390 ug/L	6012.0	497390 ppb	6012.0	1.21%
QC value within limits for Na 589.592 Radial Recovery = 99.48%						
Ni 231.604†	226.3	5.7709 ug/L	0.35568	5.7709 ppb	0.35568	6.16%
P 214.914†	413.0	30.126 ug/L	5.9240	30.126 ppb	5.9240	19.66%
Pb 220.353†	-619.3	-10.701 ug/L	2.9345	-10.701 ppb	2.9345	27.42%
S 181.975 Axial†	57.2	-14.821 ug/L	13.9926	-14.821 ppb	13.9926	94.41%
Sb 206.836†	35.8	-7.8908 ug/L	5.39357	-7.8908 ppb	5.39357	68.35%
Se 196.026†	-2229.5	-122.78 ug/L	21.394	-122.78 ppb	21.394	17.42%
Si 251.611†	-1085.0	-34.633 ug/L	1.0983	-34.633 ppb	1.0983	3.17%
Sn 189.927†	-441.0	-20.382 ug/L	3.1614	-20.382 ppb	3.1614	15.51%
Sr 421.552†	783.2	1.9204 ug/L	0.04041	1.9204 ppb	0.04041	2.10%
Ti 334.940†	-7842.8	5.5054 ug/L	2.60456	5.5054 ppb	2.60456	47.31%
Tl 190.801†	-87.6	-28.506 ug/L	1.6410	-28.506 ppb	1.6410	5.76%
U 409.014†	478176.5	13303 ug/L	13.5	13303 ppb	13.5	0.10%
QC value less than the lower limit for U 409.014 Recovery = 88.69%						
V 292.402†	4195.8	0.7527 ug/L	1.55559	0.7527 ppb	1.55559	206.68%
Zn 213.857†	5326.7	-10.886 ug/L	1.1947	-10.886 ppb	1.1947	10.97%
SiO2†	-1111.9	-76.052 ug/L	11.2029	-76.052 ppb	11.2029	14.73%

QC Failed. Continue with analysis.

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

Autosampler Location: 16
Date Collected: 2/25/2010 13:31:50
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	3745.6	3745.6	97.1	%			13:34:07
1	Y RADIAL	4258.4	4258.4	95.66	%			13:33:47
1	Al 396.153Radial†	374.7	500.9	13.549	ug/L	13.549	ppb	13:33:47
1	Ca 317.933Radial†	28.9	11.1	24.262	ug/L	24.262	ppb	13:34:07
1	Fe 238.204 Radial†	-3.7	-15.4	22.052	ug/L	22.052	ppb	13:34:07
1	K 766.490 Radial†	1555288.4	1598762.3	306290	ug/L	306290	ppb	13:33:42
1	Mg 279.077 IEC†	-1.4	-2.6	-37.682	ug/L	-37.682	ppb	13:34:07
1	Na 589.592 Radial†	-77.4	822.0	255.79	ug/L	255.79	ppb	13:33:47
1	Sr 421.552†	1358065.6	1398432.3	9728.4	ug/L	9728.4	ppb	13:33:42
1	Sc 361.383	873121.5	873121.5	99.210	%			13:35:24
1	Y 371.029	716222.2	716222.2	94.161	%			13:35:24
1	Ag 328.068†	-7965.4	-8263.0	0.7196	ug/L	0.7196	ppb	13:35:30
1	As 188.979†	20905.5	21091.9	9441.5	ug/L	9441.5	ppb	13:35:30
1	B 249.677†	195748.5	197585.0	4816.8	ug/L	4816.8	ppb	13:35:24
1	Ba 233.527†	1622778.9	1635687.8	12878	ug/L	12878	ppb	13:35:24
1	Be 313.107†	7434417.6	7497165.9	2823.5	ug/L	2823.5	ppb	13:35:18
1	Cd 226.502†	802451.8	809016.8	9407.4	ug/L	9407.4	ppb	13:35:24
1	Co 228.616†	428579.8	432056.8	9072.3	ug/L	9072.3	ppb	13:35:30
1	Cr 267.716†	2043521.3	2059705.9	23125	ug/L	23125	ppb	13:35:24
1	Cu 324.752†	6418716.2	6463864.5	19694	ug/L	19694	ppb	13:35:18
1	Mn 257.610†	8086458.7	8150362.4	9285.4	ug/L	9285.4	ppb	13:35:18
1	Mo 202.031†	126986.1	127992.4	9427.3	ug/L	9427.3	ppb	13:35:30
1	Ni 231.604†	360639.7	363428.2	9269.3	ug/L	9269.3	ppb	13:35:30
1	P 214.914†	29735.8	29766.8	14085	ug/L	14085	ppb	13:35:30
1	Pb 220.353†	191021.2	192480.8	23824	ug/L	23824	ppb	13:35:30
1	S 181.975 Axial†	36268.2	36521.1	51494	ug/L	51494	ppb	13:35:30
1	Sb 206.836†	29445.8	29641.2	10811	ug/L	10811	ppb	13:35:30
1	Se 196.026†	14845.1	14988.1	9878.1	ug/L	9878.1	ppb	13:35:30
1	Si 251.611†	1408402.7	1419051.2	45855	ug/L	45855	ppb	13:35:24
1	Sn 189.927†	55544.9	55977.7	10094	ug/L	10094	ppb	13:35:30
1	Ti 334.940†	6180044.6	6230657.6	9808.9	ug/L	9808.9	ppb	13:35:18
1	Tl 190.801†	28770.7	29027.2	9404.1	ug/L	9404.1	ppb	13:35:30
1	U 409.014†	-1725.3	1162.8	-19.221	ug/L	-19.221	ppb	13:35:30
1	V 292.402†	1375858.4	1388281.1	9812.8	ug/L	9812.8	ppb	13:35:24
1	Zn 213.857†	1348023.5	1358016.5	13624	ug/L	13624	ppb	13:35:24
1	SiO2†	1431326.8	1442134.3	99867	ug/L	99867	ppb	13:36:15
2	Sc Radial	3758.0	3758.0	97.4	%			13:34:38
2	Y RADIAL	4267.2	4267.2	95.86	%			13:34:18
2	Al 396.153Radial†	402.4	528.1	33.337	ug/L	33.337	ppb	13:34:18
2	Ca 317.933Radial†	24.0	5.9	12.955	ug/L	12.955	ppb	13:34:38
2	Fe 238.204 Radial†	-4.7	-16.5	8.6177	ug/L	8.6177	ppb	13:34:38
2	K 766.490 Radial†	1588055.8	1627095.3	311720	ug/L	311720	ppb	13:34:13
2	Mg 279.077 IEC†	-0.8	-2.0	-3.5043	ug/L	-3.5043	ppb	13:34:38
2	Na 589.592 Radial†	-55.8	844.4	262.75	ug/L	262.75	ppb	13:34:18
2	Sr 421.552†	1382697.5	1419087.4	9872.1	ug/L	9872.1	ppb	13:34:13
2	Sc 361.383	863117.3	863117.3	98.073	%			13:35:44
2	Y 371.029	708663.3	708663.3	93.167	%			13:35:44
2	Ag 328.068†	-7871.5	-8260.3	0.7549	ug/L	0.7549	ppb	13:35:49
2	As 188.979†	20961.0	21392.7	9575.9	ug/L	9575.9	ppb	13:35:49
2	B 249.677†	193293.8	197369.0	4811.2	ug/L	4811.2	ppb	13:35:44
2	Ba 233.527†	1603606.3	1635097.6	12874	ug/L	12874	ppb	13:35:44
2	Be 313.107†	7433521.2	7583108.8	2855.9	ug/L	2855.9	ppb	13:35:38
2	Cd 226.502†	792297.7	808038.3	9396.1	ug/L	9396.1	ppb	13:35:44
2	Co 228.616†	429817.6	438326.1	9204.0	ug/L	9204.0	ppb	13:35:49
2	Cr 267.716†	2021588.8	2061217.2	23142	ug/L	23142	ppb	13:35:44
2	Cu 324.752†	6426601.6	6546895.2	19947	ug/L	19947	ppb	13:35:38
2	Mn 257.610†	8079678.8	8237924.0	9385.1	ug/L	9385.1	ppb	13:35:38
2	Mo 202.031†	127118.8	129611.4	9546.5	ug/L	9546.5	ppb	13:35:49
2	Ni 231.604†	361723.3	368746.5	9404.9	ug/L	9404.9	ppb	13:35:49

2	P 214.914†	29729.0	30107.2	14241	ug/L	14241 ppb	13:35:49
2	Pb 220.353†	191583.0	195285.4	24171	ug/L	24171 ppb	13:35:49
2	S 181.975 Axial†	36380.7	37059.6	52253	ug/L	52253 ppb	13:35:49
2	Sb 206.836†	29419.2	29958.1	10928	ug/L	10928 ppb	13:35:49
2	Se 196.026†	14828.2	15144.2	9981.0	ug/L	9981.0 ppb	13:35:49
2	Si 251.611†	1389637.4	1416371.7	45767	ug/L	45767 ppb	13:35:44
2	Sn 189.927†	55775.0	56861.3	10254	ug/L	10254 ppb	13:35:49
2	Ti 334.940†	6179428.2	6302231.1	9921.6	ug/L	9921.6 ppb	13:35:38
2	Tl 190.801†	28803.9	29397.2	9524.0	ug/L	9524.0 ppb	13:35:49
2	U 409.014†	-1883.7	981.2	-24.329	ug/L	-24.329 ppb	13:35:49
2	V 292.402†	1360920.2	1389123.8	9820.2	ug/L	9820.2 ppb	13:35:44
2	Zn 213.857†	1332244.0	1357676.1	13619	ug/L	13619 ppb	13:35:44
2	SiO2†	1420583.7	1447902.4	100260	ug/L	100260 ppb	13:36:21
3	Sc Radial	3709.4	3709.4	96.2	%		13:35:08
3	Y RADIAL	4174.0	4174.0	93.76	%		13:34:48
3	Al 396.153Radial†	382.4	512.7	24.604	ug/L	24.604 ppb	13:34:48
3	Ca 317.933Radial†	25.7	8.1	17.634	ug/L	17.634 ppb	13:35:08
3	Fe 238.204 Radial†	-4.8	-16.6	2.7442	ug/L	2.7442 ppb	13:35:08
3	K 766.490 Radial†	1541290.5	1599850.3	306500	ug/L	306500 ppb	13:34:43
3	Mg 279.077 IEC†	0.2	-1.0	46.326	ug/L	46.326 ppb	13:35:08
3	Na 589.592 Radial†	-187.9	706.3	219.77	ug/L	219.77 ppb	13:34:48
3	Sr 421.552†	1339097.5	1392368.8	9686.2	ug/L	9686.2 ppb	13:34:43
3	Sc 361.383	879758.2	879758.2	99.964	%		13:36:04
3	Y 371.029	722260.2	722260.2	94.955	%		13:36:04
3	Ag 328.068†	-7837.9	-8074.9	1.5741	ug/L	1.5741 ppb	13:36:09
3	As 188.979†	21206.9	21234.4	9504.4	ug/L	9504.4 ppb	13:36:09
3	B 249.677†	197619.5	197968.2	4826.2	ug/L	4826.2 ppb	13:36:04
3	Ba 233.527†	1630861.1	1631433.6	12845	ug/L	12845 ppb	13:36:04
3	Be 313.107†	7475497.2	7481730.5	2817.6	ug/L	2817.6 ppb	13:35:58
3	Cd 226.502†	806322.3	806787.1	9381.5	ug/L	9381.5 ppb	13:36:04
3	Co 228.616†	432264.3	432483.8	9081.3	ug/L	9081.3 ppb	13:36:09
3	Cr 267.716†	2056218.3	2056869.0	23093	ug/L	23093 ppb	13:36:04
3	Cu 324.752†	6446101.2	6442452.8	19629	ug/L	19629 ppb	13:35:58
3	Mn 257.610†	8101328.3	8103749.6	9232.3	ug/L	9232.3 ppb	13:35:58
3	Mo 202.031†	127958.4	127999.5	9427.8	ug/L	9427.8 ppb	13:36:09
3	Ni 231.604†	363511.8	363559.1	9272.6	ug/L	9272.6 ppb	13:36:09
3	P 214.914†	29891.5	29696.4	14056	ug/L	14056 ppb	13:36:09
3	Pb 220.353†	192609.6	192617.4	23841	ug/L	23841 ppb	13:36:09
3	S 181.975 Axial†	36613.2	36590.4	51591	ug/L	51591 ppb	13:36:09
3	Sb 206.836†	29777.3	29748.9	10850	ug/L	10850 ppb	13:36:09
3	Se 196.026†	15045.7	15075.8	9935.7	ug/L	9935.7 ppb	13:36:09
3	Si 251.611†	1420445.8	1420389.3	45898	ug/L	45898 ppb	13:36:04
3	Sn 189.927†	56045.0	56055.6	10109	ug/L	10109 ppb	13:36:09
3	Ti 334.940†	6196874.8	6200502.2	9761.4	ug/L	9761.4 ppb	13:35:58
3	Tl 190.801†	29089.9	29127.7	9435.8	ug/L	9435.8 ppb	13:36:09
3	U 409.014†	-1573.3	1328.0	-14.534	ug/L	-14.534 ppb	13:36:09
3	V 292.402†	1385967.9	1387932.5	9810.4	ug/L	9810.4 ppb	13:36:04
3	Zn 213.857†	1355057.0	1354802.4	13592	ug/L	13592 ppb	13:36:04
3	SiO2†	1423284.7	1423205.8	98553	ug/L	98553 ppb	13:36:27

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	871999.0	99.083	%	0.9519				0.96%
Sc Radial	3737.7	96.9	%	0.66				0.68%
Y 371.029	715715.3	94.094	%	0.8956				0.95%
Y RADIAL	4233.2	95.09	%	1.156				1.22%
Ag 328.068†	-8199.4	1.0162	ug/L	0.48351	1.0162	ppb	0.48351	47.58%
Al 396.153Radial†	513.9	23.830	ug/L	9.9170	23.830	ppb	9.9170	41.62%
As 188.979†	21239.7	9507.3	ug/L	67.28	9507.3	ppb	67.28	0.71%
QC value within limits for As 188.979 Recovery = 95.07%								
B 249.677†	197640.7	4818.1	ug/L	7.59	4818.1	ppb	7.59	0.16%
QC value within limits for B 249.677 Recovery = 96.36%								
Ba 233.527†	1634073.0	12866	ug/L	18.1	12866	ppb	18.1	0.14%
QC value less than the lower limit for Ba 233.527 Recovery = 85.77%								
Be 313.107†	7520668.4	2832.3	ug/L	20.59	2832.3	ppb	20.59	0.73%
QC value within limits for Be 313.107 Recovery = 94.41%								
Ca 317.933Radial†	8.4	18.284	ug/L	5.6812	18.284	ppb	5.6812	31.07%
Cd 226.502†	807947.4	9395.0	ug/L	12.99	9395.0	ppb	12.99	0.14%
QC value within limits for Cd 226.502 Recovery = 93.95%								

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Co 228.616†          434288.9      9119.2 ug/L        73.57      9119.2 ppb        73.57   0.81%
   QC value within limits for Co 228.616  Recovery = 91.19%
Cr 267.716†         2059264.0       23120 ug/L         24.8       23120 ppb         24.8   0.11%
   QC value within limits for Cr 267.716  Recovery = 92.48%
Cu 324.752†         6484404.2       19757 ug/L        168.1       19757 ppb        168.1   0.85%
   QC value within limits for Cu 324.752  Recovery = 98.78%
Fe 238.204 Radial†      -16.2      11.138 ug/L       9.8975      11.138 ppb       9.8975  88.86%
K 766.490 Radial†   1608569.3      308170 ug/L       3075.5      308170 ppb       3075.5   1.00%
   QC value within limits for K 766.490 Radial  Recovery = 102.72%
Mg 279.077 IEC†         -1.9      1.7131 ug/L     42.24636      1.7131 ppb     42.24636 >999.9%
Mn 257.610†         8164012.0      9300.9 ug/L        77.61      9300.9 ppb        77.61   0.83%
   QC value within limits for Mn 257.610  Recovery = 93.01%
Mo 202.031†          128534.4      9467.2 ug/L        68.69      9467.2 ppb        68.69   0.73%
   QC value within limits for Mo 202.031  Recovery = 94.67%
Na 589.592 Radial†      790.9      246.10 ug/L       23.070      246.10 ppb       23.070   9.37%
Ni 231.604†          365244.6      9315.6 ug/L        77.37      9315.6 ppb        77.37   0.83%
   QC value within limits for Ni 231.604  Recovery = 93.16%
P 214.914†            29856.8       14127 ug/L         99.6       14127 ppb         99.6   0.70%
   QC value within limits for P 214.914  Recovery = 94.18%
Pb 220.353†          193461.2       23945 ug/L        195.7       23945 ppb        195.7   0.82%
   QC value within limits for Pb 220.353  Recovery = 95.78%
S 181.975 Axial†      36723.7       51779 ug/L        413.0       51779 ppb        413.0   0.80%
   QC value within limits for S 181.975 Axial  Recovery = 103.56%
Sb 206.836†           29782.7       10863 ug/L         59.4       10863 ppb         59.4   0.55%
   QC value within limits for Sb 206.836  Recovery = 108.63%
Se 196.026†           15069.4      9931.6 ug/L        51.58      9931.6 ppb        51.58   0.52%
   QC value within limits for Se 196.026  Recovery = 99.32%
Si 251.611†         1418604.1       45840 ug/L         67.1       45840 ppb         67.1   0.15%
   QC value within limits for Si 251.611  Recovery = 91.68%
Sn 189.927†           56298.2       10152 ug/L         88.2       10152 ppb         88.2   0.87%
   QC value within limits for Sn 189.927  Recovery = 101.52%
Sr 421.552†         1403296.2      9762.2 ug/L        97.45      9762.2 ppb        97.45   1.00%
   QC value within limits for Sr 421.552  Recovery = 97.62%
Ti 334.940†         6244463.6      9830.6 ug/L        82.32      9830.6 ppb        82.32   0.84%
   QC value within limits for Ti 334.940  Recovery = 98.31%
Tl 190.801†           29184.1      9454.6 ug/L        62.10      9454.6 ppb        62.10   0.66%
   QC value within limits for Tl 190.801  Recovery = 94.55%
U 409.014†             1157.4     -19.361 ug/L       4.8990     -19.361 ppb       4.8990  25.30%
V 292.402†          1388445.8      9814.5 ug/L         5.11      9814.5 ppb         5.11   0.05%
   QC value within limits for V 292.402  Recovery = 98.14%
Zn 213.857†         1356831.7       13612 ug/L         17.5       13612 ppb         17.5   0.13%
   QC value within limits for Zn 213.857  Recovery = 90.75%
SiO2†               1437747.5       99561 ug/L        895.7       99561 ppb        895.7   0.90%
   QC value within limits for SiO2  Recovery = 93.05%
QC Failed.  Continue with analysis.
```

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

Autosampler Location: 7
Date Collected: 2/25/2010 13:38:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3790.4	3790.4	98.3	%			13:40:50
1	Y RADIAL	4282.6	4282.6	96.20	%			13:40:30
1	Al 396.153Radial†	5206.3	5412.8	5063.9	ug/L	5063.9	ppb	13:40:30
1	Ca 317.933Radial†	2323.1	2345.2	5114.3	ug/L	5114.3	ppb	13:40:50
1	Fe 238.204 Radial†	313.9	307.7	4987.0	ug/L	4987.0	ppb	13:40:50
1	K 766.490 Radial†	29590.4	27344.6	5232.6	ug/L	5232.6	ppb	13:40:30
1	Mg 279.077 IEC†	99.4	99.9	5273.8	ug/L	5273.8	ppb	13:40:50
1	Na 589.592 Radial†	31137.3	32585.4	10139	ug/L	10139	ppb	13:40:30
1	Sr 421.552†	70101.9	71323.4	496.13	ug/L	496.13	ppb	13:40:30
1	Sc 361.383	916114.7	916114.7	104.10	%			13:41:48
1	Y 371.029	759809.7	759809.7	99.891	%			13:41:48
1	Ag 328.068†	106763.5	102329.1	478.51	ug/L	478.51	ppb	13:41:53
1	As 188.979†	1147.6	1122.3	503.20	ug/L	503.20	ppb	13:42:13
1	B 249.677†	21047.9	20497.8	500.22	ug/L	500.22	ppb	13:41:53
1	Ba 233.527†	63031.3	60540.5	477.06	ug/L	477.06	ppb	13:41:53
1	Be 313.107†	1334110.2	1285181.9	481.26	ug/L	481.26	ppb	13:41:48
1	Cd 226.502†	42804.8	41297.0	479.79	ug/L	479.79	ppb	13:41:53
1	Co 228.616†	23550.7	22689.0	476.62	ug/L	476.62	ppb	13:41:53
1	Cr 267.716†	44265.5	42438.9	477.15	ug/L	477.15	ppb	13:41:53
1	Cu 324.752†	167584.4	155036.2	472.38	ug/L	472.38	ppb	13:41:53
1	Mn 257.610†	441588.5	423737.9	483.02	ug/L	483.02	ppb	13:41:48
1	Mo 202.031†	6713.1	6444.3	475.10	ug/L	475.10	ppb	13:42:13
1	Ni 231.604†	19598.8	18745.0	478.09	ug/L	478.09	ppb	13:41:53
1	P 214.914†	4307.5	3932.3	2272.8	ug/L	2272.8	ppb	13:42:13
1	Pb 220.353†	4107.0	3884.2	482.02	ug/L	482.02	ppb	13:42:13
1	S 181.975 Axial†	744.6	679.5	957.07	ug/L	957.07	ppb	13:42:13
1	Sb 206.836†	1470.9	1374.1	501.94	ug/L	501.94	ppb	13:42:13
1	Se 196.026†	741.0	736.5	500.97	ug/L	500.97	ppb	13:42:13
1	Si 251.611†	77222.0	73619.2	2379.1	ug/L	2379.1	ppb	13:41:53
1	Sn 189.927†	2767.6	2649.3	478.36	ug/L	478.36	ppb	13:42:13
1	Ti 334.940†	311314.9	300477.1	473.32	ug/L	473.32	ppb	13:41:53
1	Tl 190.801†	1529.1	1496.4	484.56	ug/L	484.56	ppb	13:42:13
1	U 409.014†	14449.1	16782.5	467.00	ug/L	467.00	ppb	13:41:53
1	V 292.402†	69091.3	67841.8	480.24	ug/L	480.24	ppb	13:41:53
1	Zn 213.857†	50208.7	47493.9	475.04	ug/L	475.04	ppb	13:41:53
1	SiO2†	77219.9	73593.7	5096.5	ug/L	5096.5	ppb	13:43:20
2	Sc Radial	3821.8	3821.8	99.1	%			13:41:15
2	Y RADIAL	4288.7	4288.7	96.34	%			13:40:55
2	Al 396.153Radial†	5232.5	5395.7	5047.5	ug/L	5047.5	ppb	13:40:55
2	Ca 317.933Radial†	2345.4	2348.3	5121.0	ug/L	5121.0	ppb	13:41:15
2	Fe 238.204 Radial†	315.7	306.9	4973.9	ug/L	4973.9	ppb	13:41:15
2	K 766.490 Radial†	29660.8	27168.8	5198.9	ug/L	5198.9	ppb	13:40:55
2	Mg 279.077 IEC†	95.9	95.6	5045.5	ug/L	5045.5	ppb	13:41:15
2	Na 589.592 Radial†	31014.1	32201.3	10020	ug/L	10020	ppb	13:40:55
2	Sr 421.552†	70200.0	70837.5	492.75	ug/L	492.75	ppb	13:40:55
2	Sc 361.383	904548.9	904548.9	102.78	%			13:42:19
2	Y 371.029	750200.0	750200.0	98.628	%			13:42:19
2	Ag 328.068†	106718.7	103596.8	484.41	ug/L	484.41	ppb	13:42:24
2	As 188.979†	1153.1	1141.8	511.92	ug/L	511.92	ppb	13:42:44
2	B 249.677†	21032.0	20740.9	506.16	ug/L	506.16	ppb	13:42:24
2	Ba 233.527†	63115.8	61396.9	483.81	ug/L	483.81	ppb	13:42:24
2	Be 313.107†	1304528.8	1272788.1	476.65	ug/L	476.65	ppb	13:42:19
2	Cd 226.502†	42788.8	41807.2	485.72	ug/L	485.72	ppb	13:42:24
2	Co 228.616†	23690.4	23114.2	485.55	ug/L	485.55	ppb	13:42:24
2	Cr 267.716†	44225.9	42944.1	482.83	ug/L	482.83	ppb	13:42:24
2	Cu 324.752†	167673.7	157181.6	478.91	ug/L	478.91	ppb	13:42:24
2	Mn 257.610†	432797.9	420609.2	479.47	ug/L	479.47	ppb	13:42:19
2	Mo 202.031†	6723.9	6537.3	481.95	ug/L	481.95	ppb	13:42:44
2	Ni 231.604†	19611.1	18997.6	484.53	ug/L	484.53	ppb	13:42:24

2	P 214.914†	4312.5	3990.0	2306.2 ug/L	2306.2 ppb	13:42:44
2	Pb 220.353†	4100.3	3928.2	487.47 ug/L	487.47 ppb	13:42:44
2	S 181.975 Axial†	750.0	693.8	977.32 ug/L	977.32 ppb	13:42:44
2	Sb 206.836†	1480.4	1401.3	511.76 ug/L	511.76 ppb	13:42:44
2	Se 196.026†	736.5	741.3	504.05 ug/L	504.05 ppb	13:42:44
2	Si 251.611†	77219.4	74565.2	2409.7 ug/L	2409.7 ppb	13:42:24
2	Sn 189.927†	2757.7	2673.6	482.76 ug/L	482.76 ppb	13:42:44
2	Ti 334.940†	311832.3	304804.4	480.15 ug/L	480.15 ppb	13:42:24
2	Tl 190.801†	1515.3	1501.7	486.26 ug/L	486.26 ppb	13:42:44
2	U 409.014†	14503.1	17012.5	473.41 ug/L	473.41 ppb	13:42:24
2	V 292.402†	69144.9	68742.6	486.63 ug/L	486.63 ppb	13:42:24
2	Zn 213.857†	50137.3	48041.2	480.52 ug/L	480.52 ppb	13:42:24
2	SiO2†	76754.0	74088.9	5130.7 ug/L	5130.7 ppb	13:43:25
3	Sc Radial	3826.5	3826.5	99.2 %		13:41:40
3	Y RADIAL	4257.3	4257.3	95.63 %		13:41:20
3	Al 396.153Radial†	5192.1	5348.5	5003.7 ug/L	5003.7 ppb	13:41:20
3	Ca 317.933Radial†	2360.3	2360.4	5147.5 ug/L	5147.5 ppb	13:41:40
3	Fe 238.204 Radial†	320.6	311.5	5047.5 ug/L	5047.5 ppb	13:41:40
3	K 766.490 Radial†	29510.6	26980.7	5162.9 ug/L	5162.9 ppb	13:41:20
3	Mg 279.077 IEC†	101.0	100.6	5310.8 ug/L	5310.8 ppb	13:41:40
3	Na 589.592 Radial†	30745.0	31891.8	9923.6 ug/L	9923.6 ppb	13:41:20
3	Sr 421.552†	69836.2	70384.1	489.60 ug/L	489.60 ppb	13:41:20
3	Sc 361.383	921894.5	921894.5	104.75 %		13:42:50
3	Y 371.029	765386.9	765386.9	100.62 %		13:42:50
3	Ag 328.068†	106637.3	101565.5	474.97 ug/L	474.97 ppb	13:42:55
3	As 188.979†	1136.9	1105.3	495.61 ug/L	495.61 ppb	13:43:15
3	B 249.677†	21019.3	20343.8	496.45 ug/L	496.45 ppb	13:42:55
3	Ba 233.527†	63000.6	60131.6	473.84 ug/L	473.84 ppb	13:42:55
3	Be 313.107†	1334145.6	1277180.6	478.27 ug/L	478.27 ppb	13:42:50
3	Cd 226.502†	42764.9	41001.1	476.34 ug/L	476.34 ppb	13:42:55
3	Co 228.616†	23582.9	22577.9	474.29 ug/L	474.29 ppb	13:42:55
3	Cr 267.716†	44260.4	42167.5	474.11 ug/L	474.11 ppb	13:42:55
3	Cu 324.752†	167221.0	153679.9	468.25 ug/L	468.25 ppb	13:42:55
3	Mn 257.610†	440866.9	420389.4	479.21 ug/L	479.21 ppb	13:42:50
3	Mo 202.031†	6715.2	6405.9	472.28 ug/L	472.28 ppb	13:43:15
3	Ni 231.604†	19597.2	18625.4	475.04 ug/L	475.04 ppb	13:42:55
3	P 214.914†	4325.7	3923.7	2268.3 ug/L	2268.3 ppb	13:43:15
3	Pb 220.353†	4108.4	3860.9	479.11 ug/L	479.11 ppb	13:43:15
3	S 181.975 Axial†	737.0	667.8	940.57 ug/L	940.57 ppb	13:43:15
3	Sb 206.836†	1449.6	1344.8	491.53 ug/L	491.53 ppb	13:43:15
3	Se 196.026†	731.3	722.8	492.14 ug/L	492.14 ppb	13:43:15
3	Si 251.611†	77030.2	72971.0	2358.1 ug/L	2358.1 ppb	13:42:55
3	Sn 189.927†	2775.4	2640.1	476.71 ug/L	476.71 ppb	13:43:15
3	Ti 334.940†	311294.3	298582.4	470.34 ug/L	470.34 ppb	13:42:55
3	Tl 190.801†	1522.1	1480.5	479.43 ug/L	479.43 ppb	13:43:15
3	U 409.014†	14396.6	16645.3	463.17 ug/L	463.17 ppb	13:42:55
3	V 292.402†	69123.9	67456.8	477.50 ug/L	477.50 ppb	13:42:55
3	Zn 213.857†	50046.9	47037.1	470.45 ug/L	470.45 ppb	13:42:55
3	SiO2†	77888.0	73766.4	5108.6 ug/L	5108.6 ppb	13:43:31

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	914186.1	103.88	%	1.004				0.97%
Sc Radial	3812.9	98.9	%	0.51				0.51%
Y 371.029	758465.5	99.715	%	1.0100				1.01%
Y RADIAL	4276.2	96.06	%	0.373				0.39%
Ag 328.068†	102497.1	479.30	ug/L	4.772	479.30	ppb	4.772	1.00%
QC value within limits for Ag 328.068 Recovery = 95.86%								
Al 396.153Radial†	5385.7	5038.3	ug/L	31.13	5038.3	ppb	31.13	0.62%
QC value within limits for Al 396.153Radial Recovery = 100.77%								
As 188.979†	1123.1	503.58	ug/L	8.162	503.58	ppb	8.162	1.62%
QC value within limits for As 188.979 Recovery = 100.72%								
B 249.677†	20527.5	500.94	ug/L	4.897	500.94	ppb	4.897	0.98%
QC value within limits for B 249.677 Recovery = 100.19%								
Ba 233.527†	60689.6	478.24	ug/L	5.085	478.24	ppb	5.085	1.06%
QC value within limits for Ba 233.527 Recovery = 95.65%								
Be 313.107†	1278383.6	478.73	ug/L	2.342	478.73	ppb	2.342	0.49%
QC value within limits for Be 313.107 Recovery = 95.75%								
Ca 317.933Radial†	2351.3	5127.6	ug/L	17.52	5127.6	ppb	17.52	0.34%

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   QC value within limits for Ca 317.933Radial  Recovery = 102.55%
Cd 226.502†            41368.4      480.62 ug/L         4.746      480.62 ppb          4.746   0.99%
   QC value within limits for Cd 226.502  Recovery = 96.12%
Co 228.616†            22793.7      478.82 ug/L         5.947      478.82 ppb          5.947   1.24%
   QC value within limits for Co 228.616  Recovery = 95.76%
Cr 267.716†            42516.8      478.03 ug/L         4.424      478.03 ppb          4.424   0.93%
   QC value within limits for Cr 267.716  Recovery = 95.61%
Cu 324.752†           155299.2      473.18 ug/L         5.375      473.18 ppb          5.375   1.14%
   QC value within limits for Cu 324.752  Recovery = 94.64%
Fe 238.204 Radial†       308.7      5002.8 ug/L        39.26      5002.8 ppb         39.26   0.78%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.06%
K 766.490 Radial†      27164.7      5198.1 ug/L        34.82      5198.1 ppb         34.82   0.67%
   QC value within limits for K 766.490 Radial  Recovery = 103.96%
Mg 279.077 IEC†           98.7      5210.1 ug/L       143.70      5210.1 ppb        143.70   2.76%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.20%
Mn 257.610†           421578.8      480.57 ug/L         2.130      480.57 ppb          2.130   0.44%
   QC value within limits for Mn 257.610  Recovery = 96.11%
Mo 202.031†             6462.5      476.44 ug/L         4.974      476.44 ppb          4.974   1.04%
   QC value within limits for Mo 202.031  Recovery = 95.29%
Na 589.592 Radial†     32226.2       10028 ug/L        108.1       10028 ppb        108.1   1.08%
   QC value within limits for Na 589.592 Radial  Recovery = 100.28%
Ni 231.604†            18789.3      479.22 ug/L         4.847      479.22 ppb          4.847   1.01%
   QC value within limits for Ni 231.604  Recovery = 95.84%
P 214.914†              3948.6      2282.5 ug/L        20.72      2282.5 ppb         20.72   0.91%
   QC value within limits for P 214.914  Recovery = 91.30%
Pb 220.353†             3891.1      482.86 ug/L         4.248      482.86 ppb          4.248   0.88%
   QC value within limits for Pb 220.353  Recovery = 96.57%
S 181.975 Axial†         680.3      958.32 ug/L        18.405      958.32 ppb         18.405   1.92%
   QC value within limits for S 181.975 Axial  Recovery = 95.83%
Sb 206.836†             1373.4      501.75 ug/L        10.114      501.75 ppb         10.114   2.02%
   QC value within limits for Sb 206.836  Recovery = 100.35%
Se 196.026†              733.6      499.05 ug/L         6.179      499.05 ppb          6.179   1.24%
   QC value within limits for Se 196.026  Recovery = 99.81%
Si 251.611†            73718.5      2382.3 ug/L        25.91      2382.3 ppb         25.91   1.09%
   QC value within limits for Si 251.611  Recovery = 95.29%
Sn 189.927†             2654.3      479.28 ug/L         3.128      479.28 ppb          3.128   0.65%
   QC value within limits for Sn 189.927  Recovery = 95.86%
Sr 421.552†            70848.3      492.83 ug/L         3.268      492.83 ppb          3.268   0.66%
   QC value within limits for Sr 421.552  Recovery = 98.57%
Ti 334.940†           301288.0      474.60 ug/L         5.031      474.60 ppb          5.031   1.06%
   QC value within limits for Ti 334.940  Recovery = 94.92%
Tl 190.801†             1492.9      483.41 ug/L         3.557      483.41 ppb          3.557   0.74%
   QC value within limits for Tl 190.801  Recovery = 96.68%
U 409.014†             16813.4      467.86 ug/L         5.175      467.86 ppb          5.175   1.11%
   QC value within limits for U 409.014  Recovery = 93.57%
V 292.402†             68013.7      481.46 ug/L         4.685      481.46 ppb          4.685   0.97%
   QC value within limits for V 292.402  Recovery = 96.29%
Zn 213.857†            47524.1      475.34 ug/L         5.043      475.34 ppb          5.043   1.06%
   QC value within limits for Zn 213.857  Recovery = 95.07%
SiO2†                  73816.3      5111.9 ug/L        17.34      5111.9 ppb         17.34   0.34%
   QC value within limits for SiO2  Recovery = 95.59%
All analyte(s) passed QC.
```

Sequence No.: 14
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/25/2010 13:45:41
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3921.6	3921.6	102	%			13:47:53
1	Y RADIAL	4517.7	4517.7	101.5	%			13:47:33
1	Al 396.153Radial†	-114.4	2.6	2.3499	ug/L	2.3499	ppb	13:47:33
1	Ca 317.933Radial†	21.8	2.8	6.0275	ug/L	6.0275	ppb	13:47:53
1	Fe 238.204 Radial†	11.0	-0.9	-14.020	ug/L	-14.020	ppb	13:47:53
1	K 766.490 Radial†	3360.7	540.2	103.47	ug/L	103.47	ppb	13:47:33
1	Mg 279.077 IEC†	1.9	0.7	34.871	ug/L	34.871	ppb	13:47:53
1	Na 589.592 Radial†	-794.9	119.9	37.303	ug/L	37.303	ppb	13:47:33
1	Sr 421.552†	50.1	40.5	0.2818	ug/L	0.2818	ppb	13:47:33
1	Sc 361.383	900421.0	900421.0	102.31	%			13:48:50
1	Y 371.029	758138.7	758138.7	99.672	%			13:48:50
1	Ag 328.068†	230.1	-9.3	-0.0406	ug/L	-0.0406	ppb	13:48:50
1	As 188.979†	4.8	24.6	10.928	ug/L	10.928	ppb	13:49:10
1	B 249.677†	521.4	787.6	19.307	ug/L	19.307	ppb	13:48:50
1	Ba 233.527†	26.1	14.5	0.1132	ug/L	0.1132	ppb	13:49:10
1	Be 313.107†	-3553.0	85.5	0.0320	ug/L	0.0320	ppb	13:48:50
1	Cd 226.502†	-114.8	64.0	0.7438	ug/L	0.7438	ppb	13:49:10
1	Co 228.616†	-70.4	-3.9	-0.0796	ug/L	-0.0796	ppb	13:49:10
1	Cr 267.716†	98.6	11.3	0.1287	ug/L	0.1287	ppb	13:49:10
1	Cu 324.752†	6171.2	76.6	0.2374	ug/L	0.2374	ppb	13:48:50
1	Mn 257.610†	514.4	25.1	0.0257	ug/L	0.0257	ppb	13:49:10
1	Mo 202.031†	19.9	14.8	1.0873	ug/L	1.0873	ppb	13:49:10
1	Ni 231.604†	86.7	2.0	0.0501	ug/L	0.0501	ppb	13:49:10
1	P 214.914†	211.3	0.7	0.4016	ug/L	0.4016	ppb	13:49:10
1	Pb 220.353†	62.4	-0.2	-0.0243	ug/L	-0.0243	ppb	13:49:10
1	S 181.975 Axial†	51.9	14.8	20.936	ug/L	20.936	ppb	13:49:10
1	Sb 206.836†	56.4	16.2	5.7446	ug/L	5.7446	ppb	13:49:10
1	Se 196.026†	-23.6	1.6	1.0374	ug/L	1.0374	ppb	13:49:10
1	Si 251.611†	660.7	81.0	2.6117	ug/L	2.6117	ppb	13:49:10
1	Sn 189.927†	18.1	8.3	1.4976	ug/L	1.4976	ppb	13:49:10
1	Ti 334.940†	-1433.6	8.7	0.0154	ug/L	0.0154	ppb	13:48:50
1	Tl 190.801†	-30.5	-2.4	-0.7627	ug/L	-0.7627	ppb	13:49:10
1	U 409.014†	-3279.6	-303.7	-8.4785	ug/L	-8.4785	ppb	13:48:50
1	V 292.402†	-1498.9	3.7	0.0278	ug/L	0.0278	ppb	13:48:50
1	Zn 213.857†	892.4	132.8	1.3417	ug/L	1.3417	ppb	13:49:10
1	SiO2†	649.5	46.6	3.2035	ug/L	3.2035	ppb	13:50:06
2	Sc Radial	3897.8	3897.8	101	%			13:48:18
2	Y RADIAL	4482.0	4482.0	100.7	%			13:47:58
2	Al 396.153Radial†	-106.0	10.2	9.5528	ug/L	9.5528	ppb	13:47:58
2	Ca 317.933Radial†	25.0	6.0	13.151	ug/L	13.151	ppb	13:48:18
2	Fe 238.204 Radial†	12.1	0.3	4.6055	ug/L	4.6055	ppb	13:48:18
2	K 766.490 Radial†	3449.4	648.3	124.19	ug/L	124.19	ppb	13:47:58
2	Mg 279.077 IEC†	1.1	-0.1	-6.1782	ug/L	-6.1782	ppb	13:48:18
2	Na 589.592 Radial†	-880.2	30.7	9.5675	ug/L	9.5675	ppb	13:47:58
2	Sr 421.552†	23.8	14.8	0.1028	ug/L	0.1028	ppb	13:47:58
2	Sc 361.383	892824.5	892824.5	101.45	%			13:49:16
2	Y 371.029	752703.7	752703.7	98.957	%			13:49:16
2	Ag 328.068†	321.0	82.2	0.3888	ug/L	0.3888	ppb	13:49:16
2	As 188.979†	5.5	25.3	11.256	ug/L	11.256	ppb	13:49:36
2	B 249.677†	394.0	666.4	16.332	ug/L	16.332	ppb	13:49:16
2	Ba 233.527†	24.8	13.4	0.1056	ug/L	0.1056	ppb	13:49:36
2	Be 313.107†	-3527.2	81.4	0.0304	ug/L	0.0304	ppb	13:49:16
2	Cd 226.502†	-111.5	66.3	0.7693	ug/L	0.7693	ppb	13:49:36
2	Co 228.616†	-61.9	3.8	0.0828	ug/L	0.0828	ppb	13:49:36
2	Cr 267.716†	86.5	0.2	0.0052	ug/L	0.0052	ppb	13:49:36
2	Cu 324.752†	5998.8	-41.9	-0.1242	ug/L	-0.1242	ppb	13:49:16
2	Mn 257.610†	528.0	42.7	0.0494	ug/L	0.0494	ppb	13:49:36
2	Mo 202.031†	17.7	12.7	0.9382	ug/L	0.9382	ppb	13:49:36
2	Ni 231.604†	93.0	8.9	0.2275	ug/L	0.2275	ppb	13:49:36

2	P 214.914†	205.5	-3.2	-1.8924 ug/L	-1.8924 ppb	13:49:36
2	Pb 220.353†	48.2	-13.6	-1.6824 ug/L	-1.6824 ppb	13:49:36
2	S 181.975 Axial†	39.8	3.4	4.8180 ug/L	4.8180 ppb	13:49:36
2	Sb 206.836†	58.1	18.3	6.5025 ug/L	6.5025 ppb	13:49:36
2	Se 196.026†	-23.3	1.8	1.1679 ug/L	1.1679 ppb	13:49:36
2	Si 251.611†	696.6	122.0	3.9399 ug/L	3.9399 ppb	13:49:36
2	Sn 189.927†	25.1	15.3	2.7598 ug/L	2.7598 ppb	13:49:36
2	Ti 334.940†	-1439.5	-9.1	-0.0094 ug/L	-0.0094 ppb	13:49:16
2	Tl 190.801†	-25.8	2.0	0.6358 ug/L	0.6358 ppb	13:49:36
2	U 409.014†	-3162.5	-215.5	-6.0183 ug/L	-6.0183 ppb	13:49:16
2	V 292.402†	-1473.6	16.2	0.1140 ug/L	0.1140 ppb	13:49:16
2	Zn 213.857†	871.0	119.1	1.2006 ug/L	1.2006 ppb	13:49:36
2	SiO2†	659.5	61.8	4.2680 ug/L	4.2680 ppb	13:50:11
3	Sc Radial	3887.9	3887.9	101 %		13:48:44
3	Y RADIAL	4557.5	4557.5	102.4 %		13:48:23
3	Al 396.153Radial†	-110.4	5.6	5.1570 ug/L	5.1570 ppb	13:48:23
3	Ca 317.933Radial†	23.5	4.6	10.053 ug/L	10.053 ppb	13:48:44
3	Fe 238.204 Radial†	10.7	-1.0	-16.790 ug/L	-16.790 ppb	13:48:44
3	K 766.490 Radial†	3449.2	656.6	125.79 ug/L	125.79 ppb	13:48:23
3	Mg 279.077 IEC†	1.0	-0.1	-7.4965 ug/L	-7.4965 ppb	13:48:44
3	Na 589.592 Radial†	-811.0	97.2	30.233 ug/L	30.233 ppb	13:48:23
3	Sr 421.552†	48.8	39.7	0.2758 ug/L	0.2758 ppb	13:48:23
3	Sc 361.383	905298.4	905298.4	102.87 %		13:49:41
3	Y 371.029	763531.6	763531.6	100.38 %		13:49:41
3	Ag 328.068†	252.2	11.0	0.0444 ug/L	0.0444 ppb	13:49:41
3	As 188.979†	5.5	25.3	11.245 ug/L	11.245 ppb	13:50:01
3	B 249.677†	431.1	697.1	17.088 ug/L	17.088 ppb	13:49:41
3	Ba 233.527†	23.4	11.7	0.0919 ug/L	0.0919 ppb	13:50:01
3	Be 313.107†	-3560.6	96.9	0.0362 ug/L	0.0362 ppb	13:49:41
3	Cd 226.502†	-112.8	66.5	0.7747 ug/L	0.7747 ppb	13:50:01
3	Co 228.616†	-65.7	1.0	0.0244 ug/L	0.0244 ppb	13:50:01
3	Cr 267.716†	87.2	-0.4	-0.0066 ug/L	-0.0066 ppb	13:50:01
3	Cu 324.752†	6151.4	24.9	0.0737 ug/L	0.0737 ppb	13:49:41
3	Mn 257.610†	520.8	28.7	0.0313 ug/L	0.0313 ppb	13:50:01
3	Mo 202.031†	22.8	17.5	1.2844 ug/L	1.2844 ppb	13:50:01
3	Ni 231.604†	75.3	-9.6	-0.2448 ug/L	-0.2448 ppb	13:50:01
3	P 214.914†	200.9	-10.5	-6.3225 ug/L	-6.3225 ppb	13:50:01
3	Pb 220.353†	66.3	3.3	0.4136 ug/L	0.4136 ppb	13:50:01
3	S 181.975 Axial†	47.4	10.3	14.475 ug/L	14.475 ppb	13:50:01
3	Sb 206.836†	52.0	11.5	4.1182 ug/L	4.1182 ppb	13:50:01
3	Se 196.026†	-23.4	2.0	1.2784 ug/L	1.2784 ppb	13:50:01
3	Si 251.611†	667.6	84.3	2.7136 ug/L	2.7136 ppb	13:50:01
3	Sn 189.927†	23.2	13.2	2.3765 ug/L	2.3765 ppb	13:50:01
3	Ti 334.940†	-1437.9	12.0	0.0200 ug/L	0.0200 ppb	13:49:41
3	Tl 190.801†	-33.3	-5.0	-1.5954 ug/L	-1.5954 ppb	13:50:01
3	U 409.014†	-2908.3	74.6	2.0861 ug/L	2.0861 ppb	13:49:41
3	V 292.402†	-1504.9	5.7	0.0644 ug/L	0.0644 ppb	13:49:41
3	Zn 213.857†	878.6	114.7	1.1618 ug/L	1.1618 ppb	13:50:01
3	SiO2†	714.8	106.7	7.3698 ug/L	7.3698 ppb	13:50:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	899514.6	102.21	%	0.714				0.70%
Sc Radial	3902.5	101	%	0.4				0.44%
Y 371.029	758124.7	99.670	%	0.7118				0.71%
Y RADIAL	4519.1	101.5	%	0.85				0.84%
Ag 328.068†	28.0	0.1308	ug/L	0.22736	0.1308	ppb	0.22736	173.76%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	6.1	5.6866	ug/L	3.63051	5.6866	ppb	3.63051	63.84%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	25.1	11.143	ug/L	0.1861	11.143	ppb	0.1861	1.67%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	717.0	17.576	ug/L	1.5464	17.576	ppb	1.5464	8.80%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	13.2	0.1036	ug/L	0.01081	0.1036	ppb	0.01081	10.44%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	87.9	0.0329	ug/L	0.00303	0.0329	ppb	0.00303	9.23%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	4.5	9.7439	ug/L	3.57168	9.7439	ppb	3.57168	36.66%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                65.6      0.7626 ug/L       0.01648      0.7626 ppb        0.01648   2.16%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†                 0.3      0.0092 ug/L       0.08227      0.0092 ppb        0.08227 897.23%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 3.7      0.0424 ug/L       0.07495      0.0424 ppb        0.07495 176.73%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                19.8      0.0623 ug/L       0.18104      0.0623 ppb        0.18104 290.59%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -0.5     -8.7346 ug/L      11.63557     -8.7346 ppb       11.63557 133.21%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         615.0      117.82 ug/L        12.450      117.82 ppb         12.450  10.57%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.1      7.0654 ug/L      24.08932      7.0654 ppb       24.08932 340.95%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                32.2      0.0355 ug/L       0.01237      0.0355 ppb        0.01237  34.88%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                15.0      1.1033 ug/L       0.17367      1.1033 ppb        0.17367  15.74%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         82.6      25.701 ug/L       14.4122      25.701 ppb        14.4122  56.08%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 0.4      0.0109 ug/L       0.23856      0.0109 ppb        0.23856 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -4.4     -2.6044 ug/L       3.41812     -2.6044 ppb        3.41812 131.24%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -3.5     -0.4310 ug/L       1.10563     -0.4310 ppb        1.10563 256.52%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            9.5      13.409 ug/L        8.1115      13.409 ppb         8.1115  60.49%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                15.3      5.4551 ug/L       1.21823      5.4551 ppb        1.21823  22.33%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 1.8      1.1612 ug/L       0.12065      1.1612 ppb        0.12065  10.39%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†                95.8      3.0884 ug/L       0.73918      3.0884 ppb        0.73918  23.93%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                12.2      2.2113 ug/L       0.64713      2.2113 ppb        0.64713  29.27%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                31.7      0.2201 ug/L       0.10168      0.2201 ppb        0.10168  46.19%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                 3.9      0.0087 ug/L       0.01582      0.0087 ppb        0.01582 182.53%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -1.8     -0.5741 ug/L       1.12750     -0.5741 ppb        1.12750 196.39%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              -148.2     -4.1369 ug/L       5.52787     -4.1369 ppb        5.52787 133.62%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                  8.5      0.0687 ug/L       0.04328      0.0687 ppb        0.04328  62.97%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               122.2      1.2347 ug/L       0.09466      1.2347 ppb        0.09466   7.67%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                      71.7      4.9471 ug/L       2.16457      4.9471 ppb        2.16457  43.75%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

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Analysis Begun

Start Time: 2/25/2010 13:55:01 **Plasma On Time:** 00:00:00
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\022510.sif
Batch ID:
Results Data Set: 022510
Results Library: C:\pe\Optima3\Results\Results.mdb

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Method Loaded
Method Name: General Eng.2AX **Method Last Saved:** 2/25/2010 11:39:31
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:** 36
Sample ID: LR1 **Date Collected:** 2/25/2010 13:55:02
Analyst: HSC **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3816.7	3816.7	99.0	%			13:57:15
1	Y RADIAL	4397.6	4397.6	98.78	%			13:56:55
1	Al 396.153Radial†	-139.4	-25.8	-22.943	ug/L	-22.943	ppb	13:56:55

1	Ca 317.933Radial†	9.1	-9.5	-20.737 ug/L	-20.737 ppb	13:57:15
1	Fe 238.204 Radial†	23840.6	24080.2	389140 ug/L	389140 ppb	13:56:55
1	K 766.490 Radial†	3035.6	302.5	58.023 ug/L	58.023 ppb	13:56:55
1	Mg 279.077 IEC†	10.0	9.0	66.777 ug/L	66.777 ppb	13:57:15
1	Na 589.592 Radial†	-935.0	-43.1	-13.420 ug/L	-13.420 ppb	13:56:55
1	Sr 421.552†	139.4	132.1	0.9191 ug/L	0.9191 ppb	13:56:55
1	Sc 361.383	881329.5	881329.5	100.14 %		13:58:13
1	Y 371.029	738732.3	738732.3	97.120 %		13:58:13
1	Ag 328.068†	-23689.6	-23890.0	0.5324 ug/L	0.5324 ppb	13:58:13
1	As 188.979†	-199.5	-179.2	11.549 ug/L	11.549 ppb	13:58:33
1	B 249.677†	1764.0	2039.5	-13.259 ug/L	-13.259 ppb	13:58:13
1	Ba 233.527†	-1857.5	-1865.9	-2.7512 ug/L	-2.7512 ppb	13:58:13
1	Be 313.107†	-8430.4	-4860.1	-1.8060 ug/L	-1.8060 ppb	13:58:13
1	Cd 226.502†	2838.7	3010.8	-3.2482 ug/L	-3.2482 ppb	13:58:13
1	Co 228.616†	781.8	845.5	12.064 ug/L	12.064 ppb	13:58:33
1	Cr 267.716†	-253.7	-338.4	29.275 ug/L	29.275 ppb	13:58:13
1	Cu 324.752†	64.5	-5890.7	-2.9150 ug/L	-2.9150 ppb	13:58:13
1	Mn 257.610†	-32601.6	-33032.8	0.7820 ug/L	0.7820 ppb	13:58:13
1	Mo 202.031†	-351.9	-356.1	3.9820 ug/L	3.9820 ppb	13:58:13
1	Ni 231.604†	197.9	114.8	2.9199 ug/L	2.9199 ppb	13:58:33
1	P 214.914†	715.0	508.1	-4.3556 ug/L	-4.3556 ppb	13:58:33
1	Pb 220.353†	298.3	236.7	-12.844 ug/L	-12.844 ppb	13:58:33
1	S 181.975 Axial†	52.3	16.4	23.145 ug/L	23.145 ppb	13:58:33
1	Sb 206.836†	21.9	-17.2	-10.967 ug/L	-10.967 ppb	13:58:33
1	Se 196.026†	-1790.4	-1763.2	54.982 ug/L	54.982 ppb	13:58:33
1	Si 251.611†	-709.0	-1272.7	-40.907 ug/L	-40.907 ppb	13:58:13
1	Sn 189.927†	-33.4	-42.8	-30.065 ug/L	-30.065 ppb	13:58:33
1	Ti 334.940†	1355.9	2763.9	-0.0993 ug/L	-0.0993 ppb	13:58:13
1	Tl 190.801†	-64.6	-37.1	-12.212 ug/L	-12.212 ppb	13:58:33
1	U 409.014†	357563.8	359955.8	10007 ug/L	10007 ppb	13:58:13
1	V 292.402†	3473.1	4936.8	-3.3158 ug/L	-3.3158 ppb	13:58:13
1	Zn 213.857†	4428.7	3682.9	-21.049 ug/L	-21.049 ppb	13:58:33
1	SiO2†	-725.6	-1312.8	-90.432 ug/L	-90.432 ppb	13:59:30
2	Sc Radial	3787.3	3787.3	98.2 %		13:57:40
2	Y RADIAL	4358.4	4358.4	97.90 %		13:57:20
2	Al 396.153Radial†	-136.5	-24.0	-21.103 ug/L	-21.103 ppb	13:57:20
2	Ca 317.933Radial†	12.7	-5.7	-12.492 ug/L	-12.492 ppb	13:57:40
2	Fe 238.204 Radial†	23731.4	24156.0	390370 ug/L	390370 ppb	13:57:20
2	K 766.490 Radial†	2882.7	170.7	32.759 ug/L	32.759 ppb	13:57:20
2	Mg 279.077 IEC†	11.7	10.7	158.29 ug/L	158.29 ppb	13:57:40
2	Na 589.592 Radial†	-920.2	-35.4	-11.027 ug/L	-11.027 ppb	13:57:20
2	Sr 421.552†	150.2	144.2	1.0031 ug/L	1.0031 ppb	13:57:20
2	Sc 361.383	888834.6	888834.6	101.00 %		13:58:39
2	Y 371.029	744730.9	744730.9	97.909 %		13:58:39
2	Ag 328.068†	-23818.7	-23818.1	1.2475 ug/L	1.2475 ppb	13:58:39
2	As 188.979†	-189.3	-167.6	17.043 ug/L	17.043 ppb	13:58:59
2	B 249.677†	1900.0	2159.3	-10.518 ug/L	-10.518 ppb	13:58:39
2	Ba 233.527†	-1877.7	-1870.2	-2.7443 ug/L	-2.7443 ppb	13:58:39
2	Be 313.107†	-8535.6	-4893.2	-1.8183 ug/L	-1.8183 ppb	13:58:39
2	Cd 226.502†	2790.1	2938.8	-4.2115 ug/L	-4.2115 ppb	13:58:39
2	Co 228.616†	746.6	804.1	11.169 ug/L	11.169 ppb	13:58:59
2	Cr 267.716†	-259.8	-342.4	29.349 ug/L	29.349 ppb	13:58:39
2	Cu 324.752†	118.8	-5837.4	-2.6890 ug/L	-2.6890 ppb	13:58:39
2	Mn 257.610†	-32694.5	-32849.9	1.1075 ug/L	1.1075 ppb	13:58:39
2	Mo 202.031†	-395.3	-396.0	1.1340 ug/L	1.1340 ppb	13:58:39
2	Ni 231.604†	213.0	128.2	3.2603 ug/L	3.2603 ppb	13:58:59
2	P 214.914†	727.9	514.9	-1.2910 ug/L	-1.2910 ppb	13:58:59
2	Pb 220.353†	282.0	218.1	-15.287 ug/L	-15.287 ppb	13:58:59
2	S 181.975 Axial†	50.6	14.2	20.064 ug/L	20.064 ppb	13:58:59
2	Sb 206.836†	21.1	-18.1	-11.326 ug/L	-11.326 ppb	13:58:59
2	Se 196.026†	-1756.9	-1714.8	90.543 ug/L	90.543 ppb	13:58:59
2	Si 251.611†	-763.8	-1321.0	-42.434 ug/L	-42.434 ppb	13:58:39
2	Sn 189.927†	-19.9	-29.1	-27.661 ug/L	-27.661 ppb	13:58:59
2	Ti 334.940†	1391.8	2788.0	-0.0686 ug/L	-0.0686 ppb	13:58:39
2	Tl 190.801†	-56.3	-28.3	-9.3943 ug/L	-9.3943 ppb	13:58:59
2	U 409.014†	360681.4	360027.9	10009 ug/L	10009 ppb	13:58:39
2	V 292.402†	3727.2	5159.2	-1.9767 ug/L	-1.9767 ppb	13:58:39
2	Zn 213.857†	4389.0	3606.3	-22.009 ug/L	-22.009 ppb	13:58:59
2	SiO2†	-650.9	-1232.7	-84.790 ug/L	-84.790 ppb	13:59:35
3	Sc Radial	3799.6	3799.6	98.5 %		13:58:06
3	Y RADIAL	4366.4	4366.4	98.08 %		13:57:45

3	Al 396.153Radial†	-121.8	-8.6	-6.8083	ug/L	-6.8083 ppb	13:57:45
3	Ca 317.933Radial†	10.9	-7.7	-16.691	ug/L	-16.691 ppb	13:58:06
3	Fe 238.204 Radial†	23731.6	24078.4	389120	ug/L	389120 ppb	13:57:45
3	K 766.490 Radial†	2912.0	190.9	36.631	ug/L	36.631 ppb	13:57:45
3	Mg 279.077 IEC†	8.8	7.8	1.9668	ug/L	1.9668 ppb	13:58:06
3	Na 589.592 Radial†	-922.7	-35.0	-10.877	ug/L	-10.877 ppb	13:57:45
3	Sr 421.552†	155.7	149.3	1.0386	ug/L	1.0386 ppb	13:57:45
3	Sc 361.383	889833.9	889833.9	101.11	%		13:59:05
3	Y 371.029	744818.3	744818.3	97.921	%		13:59:05
3	Ag 328.068†	-23790.0	-23763.2	1.1319	ug/L	1.1319 ppb	13:59:05
3	As 188.979†	-193.0	-170.9	15.234	ug/L	15.234 ppb	13:59:25
3	B 249.677†	1797.8	2056.1	-12.845	ug/L	-12.845 ppb	13:59:05
3	Ba 233.527†	-1788.2	-1779.6	-2.0717	ug/L	-2.0717 ppb	13:59:05
3	Be 313.107†	-8541.2	-4889.3	-1.8171	ug/L	-1.8171 ppb	13:59:05
3	Cd 226.502†	2858.4	3003.2	-3.3377	ug/L	-3.3377 ppb	13:59:05
3	Co 228.616†	753.8	810.4	11.326	ug/L	11.326 ppb	13:59:25
3	Cr 267.716†	-222.4	-305.1	29.655	ug/L	29.655 ppb	13:59:05
3	Cu 324.752†	186.5	-5770.7	-2.5405	ug/L	-2.5405 ppb	13:59:05
3	Mn 257.610†	-32510.7	-32631.7	1.2386	ug/L	1.2386 ppb	13:59:05
3	Mo 202.031†	-358.7	-359.5	3.7301	ug/L	3.7301 ppb	13:59:05
3	Ni 231.604†	199.6	114.6	2.9142	ug/L	2.9142 ppb	13:59:25
3	P 214.914†	721.5	507.8	-4.5740	ug/L	-4.5740 ppb	13:59:25
3	Pb 220.353†	289.0	224.6	-14.327	ug/L	-14.327 ppb	13:59:25
3	S 181.975 Axial†	61.9	25.4	35.841	ug/L	35.841 ppb	13:59:25
3	Sb 206.836†	22.3	-16.9	-10.855	ug/L	-10.855 ppb	13:59:25
3	Se 196.026†	-1756.0	-1712.0	88.530	ug/L	88.530 ppb	13:59:25
3	Si 251.611†	-739.1	-1295.7	-41.649	ug/L	-41.649 ppb	13:59:05
3	Sn 189.927†	-24.0	-33.2	-28.326	ug/L	-28.326 ppb	13:59:25
3	Ti 334.940†	1326.2	2721.5	-0.1520	ug/L	-0.1520 ppb	13:59:05
3	Tl 190.801†	-65.4	-37.2	-12.260	ug/L	-12.260 ppb	13:59:25
3	U 409.014†	360329.2	359278.5	9988.2	ug/L	9988.2 ppb	13:59:05
3	V 292.402†	3641.2	5070.0	-2.4225	ug/L	-2.4225 ppb	13:59:05
3	Zn 213.857†	4395.0	3607.4	-21.808	ug/L	-21.808 ppb	13:59:25
3	SiO2†	-686.3	-1266.9	-87.240	ug/L	-87.240 ppb	13:59:40

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	886666.0	100.75	%	0.528				0.52%
Sc Radial	3801.2	98.6	%	0.38				0.39%
Y 371.029	742760.5	97.650	%	0.4587				0.47%
Y RADIAL	4374.1	98.26	%	0.465				0.47%
Ag 328.068†	-23823.8	0.9706	ug/L	0.38386	0.9706	ppb	0.38386	39.55%
Al 396.153Radial†	-19.4	-16.951	ug/L	8.8324	-16.951	ppb	8.8324	52.10%
As 188.979†	-172.6	14.609	ug/L	2.7998	14.609	ppb	2.7998	19.17%
B 249.677†	2085.0	-12.207	ug/L	1.4776	-12.207	ppb	1.4776	12.10%
Ba 233.527†	-1838.6	-2.5224	ug/L	0.39029	-2.5224	ppb	0.39029	15.47%
Be 313.107†	-4880.9	-1.8138	ug/L	0.00676	-1.8138	ppb	0.00676	0.37%
Ca 317.933Radial†	-7.6	-16.640	ug/L	4.1231	-16.640	ppb	4.1231	24.78%
Cd 226.502†	2984.3	-3.5991	ug/L	0.53220	-3.5991	ppb	0.53220	14.79%
Co 228.616†	820.0	11.519	ug/L	0.4781	11.519	ppb	0.4781	4.15%
Cr 267.716†	-328.6	29.426	ug/L	0.2016	29.426	ppb	0.2016	0.69%
Cu 324.752†	-5832.9	-2.7148	ug/L	0.18858	-2.7148	ppb	0.18858	6.95%
Fe 238.204 Radial†	24104.8	389540	ug/L	715.6	389540	ppb	715.6	0.18%
K 766.490 Radial†	221.4	42.471	ug/L	13.6067	42.471	ppb	13.6067	32.04%
Mg 279.077 IEC†	9.2	75.678	ug/L	78.5407	75.678	ppb	78.5407	103.78%
Mn 257.610†	-32838.2	1.0427	ug/L	0.23514	1.0427	ppb	0.23514	22.55%
Mo 202.031†	-370.5	2.9487	ug/L	1.57661	2.9487	ppb	1.57661	53.47%
Na 589.592 Radial†	-37.8	-11.775	ug/L	1.4268	-11.775	ppb	1.4268	12.12%
Ni 231.604†	119.2	3.0315	ug/L	0.19818	3.0315	ppb	0.19818	6.54%
P 214.914†	510.3	-3.4069	ug/L	1.83564	-3.4069	ppb	1.83564	53.88%
Pb 220.353†	226.5	-14.153	ug/L	1.2307	-14.153	ppb	1.2307	8.70%
S 181.975 Axial†	18.7	26.350	ug/L	8.3625	26.350	ppb	8.3625	31.74%
Sb 206.836†	-17.4	-11.049	ug/L	0.2457	-11.049	ppb	0.2457	2.22%
Se 196.026†	-1730.0	78.018	ug/L	19.9755	78.018	ppb	19.9755	25.60%
Si 251.611†	-1296.5	-41.663	ug/L	0.7637	-41.663	ppb	0.7637	1.83%
Sn 189.927†	-35.0	-28.684	ug/L	1.2412	-28.684	ppb	1.2412	4.33%
Sr 421.552†	141.9	0.9870	ug/L	0.06136	0.9870	ppb	0.06136	6.22%
Ti 334.940†	2757.8	-0.1066	ug/L	0.04218	-0.1066	ppb	0.04218	39.55%
Tl 190.801†	-34.2	-11.289	ug/L	1.6409	-11.289	ppb	1.6409	14.54%

U 409.014†	359754.1	10001	ug/L	11.5	10001	ppb	11.5	0.11%
V 292.402†	5055.3	-2.5717	ug/L	0.68190	-2.5717	ppb	0.68190	26.52%
Zn 213.857†	3632.2	-21.622	ug/L	0.5061	-21.622	ppb	0.5061	2.34%
SiO2†	-1270.8	-87.487	ug/L	2.8290	-87.487	ppb	2.8290	3.23%

Sequence No.: 2
Sample ID: LR2
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 2/25/2010 14:01:52
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4403.2	4403.2	114	%			14:03:45
1	Y RADIAL	4900.7	4900.7	110.1	%			14:03:45
1	Al 396.153Radial†	-119.5	10.4	9.7096	ug/L	9.7096	ppb	14:03:45
1	Ca 317.933Radial†	18.0	-2.9	-6.4170	ug/L	-6.4170	ppb	14:04:05
1	Fe 238.204 Radial†	12.1	-1.1	-17.618	ug/L	-17.618	ppb	14:04:05
1	K 766.490 Radial†	3047.6	-95.6	-18.320	ug/L	-18.320	ppb	14:03:45
1	Mg 279.077 IEC†	0.8	-0.5	-25.000	ug/L	-25.000	ppb	14:04:05
1	Na 589.592 Radial†	-906.7	107.4	33.429	ug/L	33.429	ppb	14:03:45
1	Sr 421.552†	46.8	32.3	0.2245	ug/L	0.2245	ppb	14:03:45
1	Sc 361.383	911543.9	911543.9	103.58	%			14:05:02
1	Y 371.029	768995.6	768995.6	101.10	%			14:05:02
1	Ag 328.068†	323.1	77.8	0.3594	ug/L	0.3594	ppb	14:05:07
1	As 188.979†	-12.0	8.4	3.7109	ug/L	3.7109	ppb	14:05:27
1	B 249.677†	-38.0	241.3	5.9293	ug/L	5.9293	ppb	14:05:27
1	Ba 233.527†	1250815.2	1207619.9	9492.3	ug/L	9492.3	ppb	14:05:02
1	Be 313.107†	-3508.7	170.7	0.0638	ug/L	0.0638	ppb	14:05:07
1	Cd 226.502†	-130.7	50.1	0.5829	ug/L	0.5829	ppb	14:05:27
1	Co 228.616†	-285.3	-210.6	0.1485	ug/L	0.1485	ppb	14:05:27
1	Cr 267.716†	81.4	-6.5	-0.0733	ug/L	-0.0733	ppb	14:05:27
1	Cu 324.752†	5966.6	-194.5	-0.5928	ug/L	-0.5928	ppb	14:05:07
1	Mn 257.610†	513.8	18.4	0.0202	ug/L	0.0202	ppb	14:05:27
1	Mo 202.031†	15.2	10.0	0.7375	ug/L	0.7375	ppb	14:05:27
1	Ni 231.604†	66.2	-18.8	-0.4779	ug/L	-0.4779	ppb	14:05:27
1	P 214.914†	206.7	-6.2	-3.5895	ug/L	-3.5895	ppb	14:05:27
1	Pb 220.353†	36.7	-25.8	-3.1799	ug/L	-3.1799	ppb	14:05:27
1	S 181.975 Axial†	43.1	5.7	8.0818	ug/L	8.0818	ppb	14:05:27
1	Sb 206.836†	39.9	-0.4	-0.1266	ug/L	-0.1266	ppb	14:05:27
1	Se 196.026†	-24.5	1.0	0.6337	ug/L	0.6337	ppb	14:05:27
1	Si 251.611†	619.8	33.7	1.0812	ug/L	1.0812	ppb	14:05:27
1	Sn 189.927†	15.4	5.5	0.9852	ug/L	0.9852	ppb	14:05:27
1	Ti 334.940†	-1446.1	13.7	0.0233	ug/L	0.0233	ppb	14:05:07
1	Tl 190.801†	-28.6	-0.2	-0.0438	ug/L	-0.0438	ppb	14:05:27
1	U 409.014†	-3049.9	-42.7	-1.1914	ug/L	-1.1914	ppb	14:05:02
1	V 292.402†	-1441.0	77.5	0.5515	ug/L	0.5515	ppb	14:05:07
1	Zn 213.857†	1017.7	243.1	2.4608	ug/L	2.4608	ppb	14:05:27
1	SiO2†	661.5	50.5	3.4838	ug/L	3.4838	ppb	14:06:33
2	Sc Radial	4038.8	4038.8	105	%			14:04:10
2	Y RADIAL	4530.4	4530.4	101.8	%			14:04:10
2	Al 396.153Radial†	-97.5	22.0	20.609	ug/L	20.609	ppb	14:04:10
2	Ca 317.933Radial†	23.8	4.0	8.8098	ug/L	8.8098	ppb	14:04:30
2	Fe 238.204 Radial†	10.6	-1.5	-24.640	ug/L	-24.640	ppb	14:04:30
2	K 766.490 Radial†	3021.8	120.7	23.112	ug/L	23.112	ppb	14:04:10
2	Mg 279.077 IEC†	3.8	2.4	128.58	ug/L	128.58	ppb	14:04:30
2	Na 589.592 Radial†	-846.5	93.3	29.031	ug/L	29.031	ppb	14:04:10
2	Sr 421.552†	-13.1	-21.3	-0.1479	ug/L	-0.1479	ppb	14:04:10
2	Sc 361.383	920825.7	920825.7	104.63	%			14:05:33
2	Y 371.029	775725.2	775725.2	101.98	%			14:05:33
2	Ag 328.068†	249.6	4.4	0.0102	ug/L	0.0102	ppb	14:05:38
2	As 188.979†	-10.3	10.1	4.4894	ug/L	4.4894	ppb	14:05:58
2	B 249.677†	-71.0	210.1	5.1659	ug/L	5.1659	ppb	14:05:58
2	Ba 233.527†	1260388.6	1204596.9	9468.5	ug/L	9468.5	ppb	14:05:33
2	Be 313.107†	-3672.5	48.3	0.0182	ug/L	0.0182	ppb	14:05:38
2	Cd 226.502†	-130.4	51.5	0.6026	ug/L	0.6026	ppb	14:05:58
2	Co 228.616†	-278.2	-201.0	0.3388	ug/L	0.3388	ppb	14:05:58
2	Cr 267.716†	95.5	6.1	0.0650	ug/L	0.0650	ppb	14:05:58
2	Cu 324.752†	6051.5	-171.5	-0.5267	ug/L	-0.5267	ppb	14:05:38
2	Mn 257.610†	509.8	9.6	0.0033	ug/L	0.0033	ppb	14:05:58
2	Mo 202.031†	15.9	10.6	0.7753	ug/L	0.7753	ppb	14:05:58
2	Ni 231.604†	97.0	10.0	0.2567	ug/L	0.2567	ppb	14:05:58

2	P 214.914†	202.8	-11.9	-7.0405	ug/L	-7.0405 ppb	14:05:58
2	Pb 220.353†	18.3	-43.7	-5.3955	ug/L	-5.3955 ppb	14:05:58
2	S 181.975 Axial†	43.4	5.7	7.9635	ug/L	7.9635 ppb	14:05:58
2	Sb 206.836†	36.9	-3.8	-1.2911	ug/L	-1.2911 ppb	14:05:58
2	Se 196.026†	-28.6	-2.6	-1.7791	ug/L	-1.7791 ppb	14:05:58
2	Si 251.611†	614.3	22.4	0.7170	ug/L	0.7170 ppb	14:05:58
2	Sn 189.927†	16.7	6.6	1.1896	ug/L	1.1896 ppb	14:05:58
2	Ti 334.940†	-1420.7	52.1	0.0704	ug/L	0.0704 ppb	14:05:38
2	Tl 190.801†	-29.5	-0.7	-0.2133	ug/L	-0.2133 ppb	14:05:58
2	U 409.014†	-2835.2	192.1	5.3673	ug/L	5.3673 ppb	14:05:33
2	V 292.402†	-1471.0	62.8	0.4658	ug/L	0.4658 ppb	14:05:38
2	Zn 213.857†	1009.9	225.7	2.2818	ug/L	2.2818 ppb	14:05:58
2	SiO2†	647.5	30.6	2.1023	ug/L	2.1023 ppb	14:06:38
3	Sc Radial	3944.9	3944.9	102	%		14:04:36
3	Y RADIAL	4420.4	4420.4	99.30	%		14:04:36
3	Al 396.153Radial†	-127.0	-9.1	-8.4911	ug/L	-8.4911 ppb	14:04:36
3	Ca 317.933Radial†	27.1	7.8	17.105	ug/L	17.105 ppb	14:04:56
3	Fe 238.204 Radial†	12.2	0.2	3.3843	ug/L	3.3843 ppb	14:04:56
3	K 766.490 Radial†	2981.3	149.7	28.685	ug/L	28.685 ppb	14:04:36
3	Mg 279.077 IEC†	2.3	1.1	58.425	ug/L	58.425 ppb	14:04:56
3	Na 589.592 Radial†	-947.4	-24.6	-7.6621	ug/L	-7.6621 ppb	14:04:36
3	Sr 421.552†	21.5	12.3	0.0852	ug/L	0.0852 ppb	14:04:36
3	Sc 361.383	922407.0	922407.0	104.81	%		14:06:03
3	Y 371.029	777523.1	777523.1	102.22	%		14:06:03
3	Ag 328.068†	232.5	-12.3	-0.0617	ug/L	-0.0617 ppb	14:06:08
3	As 188.979†	-8.3	12.0	5.3228	ug/L	5.3228 ppb	14:06:28
3	B 249.677†	-61.7	219.2	5.3837	ug/L	5.3837 ppb	14:06:28
3	Ba 233.527†	1245409.9	1188240.5	9340.0	ug/L	9340.0 ppb	14:06:03
3	Be 313.107†	-3576.9	145.5	0.0546	ug/L	0.0546 ppb	14:06:08
3	Cd 226.502†	-118.8	62.8	0.7307	ug/L	0.7307 ppb	14:06:28
3	Co 228.616†	-284.4	-206.5	0.1588	ug/L	0.1588 ppb	14:06:28
3	Cr 267.716†	81.3	-7.5	-0.0868	ug/L	-0.0868 ppb	14:06:28
3	Cu 324.752†	6098.8	-136.2	-0.4182	ug/L	-0.4182 ppb	14:06:08
3	Mn 257.610†	491.0	-9.2	-0.0126	ug/L	-0.0126 ppb	14:06:28
3	Mo 202.031†	-2.0	-6.6	-0.4852	ug/L	-0.4852 ppb	14:06:28
3	Ni 231.604†	62.6	-23.0	-0.5848	ug/L	-0.5848 ppb	14:06:28
3	P 214.914†	211.4	-4.1	-2.4025	ug/L	-2.4025 ppb	14:06:28
3	Pb 220.353†	41.9	-21.2	-2.6292	ug/L	-2.6292 ppb	14:06:28
3	S 181.975 Axial†	41.2	3.5	4.9609	ug/L	4.9609 ppb	14:06:28
3	Sb 206.836†	44.1	3.0	1.0736	ug/L	1.0736 ppb	14:06:28
3	Se 196.026†	-25.2	0.7	0.4744	ug/L	0.4744 ppb	14:06:28
3	Si 251.611†	594.7	2.7	0.0941	ug/L	0.0941 ppb	14:06:28
3	Sn 189.927†	15.0	4.9	0.8864	ug/L	0.8864 ppb	14:06:28
3	Ti 334.940†	-1398.4	75.7	0.1140	ug/L	0.1140 ppb	14:06:08
3	Tl 190.801†	-28.8	-0.0	0.0111	ug/L	0.0111 ppb	14:06:28
3	U 409.014†	-2804.5	226.0	6.3119	ug/L	6.3119 ppb	14:06:03
3	V 292.402†	-1544.6	-5.0	-0.0290	ug/L	-0.0290 ppb	14:06:08
3	Zn 213.857†	1021.1	234.8	2.3743	ug/L	2.3743 ppb	14:06:28
3	SiO2†	604.2	-11.7	-0.8013	ug/L	-0.8013 ppb	14:06:43

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	918258.9	104.34	%	0.667				0.64%
Sc Radial	4129.0	107	%	6.3				5.86%
Y 371.029	774081.3	101.77	%	0.591				0.58%
Y RADIAL	4617.2	103.7	%	5.65				5.45%
Ag 328.068†	23.3	0.1026	ug/L	0.22523	0.1026	ppb	0.22523	219.50%
Al 396.153Radial†	7.8	7.2759	ug/L	14.70201	7.2759	ppb	14.70201	202.06%
As 188.979†	10.1	4.5077	ug/L	0.80614	4.5077	ppb	0.80614	17.88%
B 249.677†	223.5	5.4930	ug/L	0.39327	5.4930	ppb	0.39327	7.16%
Ba 233.527†	1200152.4	9433.6	ug/L	81.95	9433.6	ppb	81.95	0.87%
Be 313.107†	121.5	0.0456	ug/L	0.02412	0.0456	ppb	0.02412	52.93%
Ca 317.933Radial†	3.0	6.4992	ug/L	11.92986	6.4992	ppb	11.92986	183.56%
Cd 226.502†	54.8	0.6387	ug/L	0.08024	0.6387	ppb	0.08024	12.56%
Co 228.616†	-206.0	0.2153	ug/L	0.10701	0.2153	ppb	0.10701	49.69%
Cr 267.716†	-2.6	-0.0317	ug/L	0.08403	-0.0317	ppb	0.08403	265.15%
Cu 324.752†	-167.4	-0.5126	ug/L	0.08813	-0.5126	ppb	0.08813	17.20%
Fe 238.204 Radial†	-0.8	-12.958	ug/L	14.5816	-12.958	ppb	14.5816	112.53%
K 766.490 Radial†	58.3	11.159	ug/L	25.6812	11.159	ppb	25.6812	230.13%

Mg 279.077 IEC†	1.0	54.002 ug/L	76.8852	54.002 ppb	76.8852	142.38%
Mn 257.610†	6.2	0.0036 ug/L	0.01639	0.0036 ppb	0.01639	449.97%
Mo 202.031†	4.7	0.3425 ug/L	0.71706	0.3425 ppb	0.71706	209.34%
Na 589.592 Radial†	58.7	18.266 ug/L	22.5619	18.266 ppb	22.5619	123.52%
Ni 231.604†	-10.6	-0.2686 ug/L	0.45813	-0.2686 ppb	0.45813	170.54%
P 214.914†	-7.4	-4.3442 ug/L	2.40932	-4.3442 ppb	2.40932	55.46%
Pb 220.353†	-30.2	-3.7349 ug/L	1.46427	-3.7349 ppb	1.46427	39.21%
S 181.975 Axial†	5.0	7.0021 ug/L	1.76869	7.0021 ppb	1.76869	25.26%
Sb 206.836†	-0.4	-0.1147 ug/L	1.18240	-0.1147 ppb	1.18240	>999.9%
Se 196.026†	-0.3	-0.2237 ug/L	1.34940	-0.2237 ppb	1.34940	603.27%
Si 251.611†	19.6	0.6308 ug/L	0.49913	0.6308 ppb	0.49913	79.13%
Sn 189.927†	5.6	1.0204 ug/L	0.15460	1.0204 ppb	0.15460	15.15%
Sr 421.552†	7.8	0.0539 ug/L	0.18816	0.0539 ppb	0.18816	348.93%
Ti 334.940†	47.2	0.0693 ug/L	0.04537	0.0693 ppb	0.04537	65.51%
Tl 190.801†	-0.3	-0.0820 ug/L	0.11701	-0.0820 ppb	0.11701	142.71%
U 409.014†	125.1	3.4959 ug/L	4.08670	3.4959 ppb	4.08670	116.90%
V 292.402†	45.1	0.3294 ug/L	0.31334	0.3294 ppb	0.31334	95.12%
Zn 213.857†	234.6	2.3723 ug/L	0.08953	2.3723 ppb	0.08953	3.77%
SiO2†	23.1	1.5949 ug/L	2.18718	1.5949 ppb	2.18718	137.13%

Sequence No.: 3
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/25/2010 14:08:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3878.2	3878.2	101	%			14:11:08
1	Y RADIAL	4371.2	4371.2	98.19	%			14:10:48
1	Al 396.153Radial†	5250.9	5337.3	4993.2	ug/L	4993.2	ppb	14:10:48
1	Ca 317.933Radial†	2366.9	2335.3	5092.6	ug/L	5092.6	ppb	14:11:08
1	Fe 238.204 Radial†	322.7	309.3	5012.5	ug/L	5012.5	ppb	14:11:08
1	K 766.490 Radial†	28785.8	25863.4	4948.7	ug/L	4948.7	ppb	14:10:48
1	Mg 279.077 IEC†	98.7	97.0	5119.9	ug/L	5119.9	ppb	14:11:08
1	Na 589.592 Radial†	32999.6	33720.9	10493	ug/L	10493	ppb	14:10:48
1	Sr 421.552†	72250.2	71846.6	499.77	ug/L	499.77	ppb	14:10:48
1	Sc 361.383	922334.5	922334.5	104.80	%			14:12:05
1	Y 371.029	765696.2	765696.2	100.67	%			14:12:05
1	Ag 328.068†	105655.8	100580.5	470.36	ug/L	470.36	ppb	14:12:10
1	As 188.979†	1091.7	1061.6	476.13	ug/L	476.13	ppb	14:12:31
1	B 249.677†	19737.3	19110.9	466.25	ug/L	466.25	ppb	14:12:10
1	Ba 233.527†	62386.8	59517.2	469.00	ug/L	469.00	ppb	14:12:10
1	Be 313.107†	1341490.9	1283581.8	480.65	ug/L	480.65	ppb	14:12:05
1	Cd 226.502†	42109.4	40356.2	468.85	ug/L	468.85	ppb	14:12:10
1	Co 228.616†	23336.1	22331.7	469.12	ug/L	469.12	ppb	14:12:10
1	Cr 267.716†	43688.4	41601.5	467.75	ug/L	467.75	ppb	14:12:10
1	Cu 324.752†	165981.8	152421.4	464.41	ug/L	464.41	ppb	14:12:10
1	Mn 257.610†	442228.4	421487.8	480.47	ug/L	480.47	ppb	14:12:05
1	Mo 202.031†	6667.2	6357.1	468.68	ug/L	468.68	ppb	14:12:31
1	Ni 231.604†	19416.9	18444.5	470.42	ug/L	470.42	ppb	14:12:10
1	P 214.914†	4280.0	3878.1	2241.7	ug/L	2241.7	ppb	14:12:31
1	Pb 220.353†	3984.1	3740.4	464.20	ug/L	464.20	ppb	14:12:31
1	S 181.975 Axial†	734.1	664.6	936.14	ug/L	936.14	ppb	14:12:31
1	Sb 206.836†	1421.7	1317.6	481.74	ug/L	481.74	ppb	14:12:31
1	Se 196.026†	719.8	711.6	484.60	ug/L	484.60	ppb	14:12:31
1	Si 251.611†	76057.9	72008.2	2327.0	ug/L	2327.0	ppb	14:12:10
1	Sn 189.927†	2731.7	2597.1	468.96	ug/L	468.96	ppb	14:12:31
1	Ti 334.940†	308172.0	295461.4	465.43	ug/L	465.43	ppb	14:12:10
1	Tl 190.801†	1520.6	1478.4	478.73	ug/L	478.73	ppb	14:12:31
1	U 409.014†	14568.1	16802.4	467.58	ug/L	467.58	ppb	14:12:10
1	V 292.402†	68375.4	66711.1	472.26	ug/L	472.26	ppb	14:12:10
1	Zn 213.857†	49313.7	46314.7	463.19	ug/L	463.19	ppb	14:12:10
1	SiO2†	76564.8	72468.4	5018.5	ug/L	5018.5	ppb	14:13:38
2	Sc Radial	3515.4	3515.4	91.1	%			14:11:33
2	Y RADIAL	4401.4	4401.4	98.87	%			14:11:13
2	Al 396.153Radial†	4848.8	5434.9	5084.5	ug/L	5084.5	ppb	14:11:13
2	Ca 317.933Radial†	2454.7	2674.5	5832.4	ug/L	5832.4	ppb	14:11:33
2	Fe 238.204 Radial†	337.7	358.8	5812.8	ug/L	5812.8	ppb	14:11:33
2	K 766.490 Radial†	26678.3	26505.1	5071.3	ug/L	5071.3	ppb	14:11:13
2	Mg 279.077 IEC†	101.4	110.1	5809.0	ug/L	5809.0	ppb	14:11:33
2	Na 589.592 Radial†	30386.2	34240.1	10654	ug/L	10654	ppb	14:11:13
2	Sr 421.552†	66778.6	73257.8	509.58	ug/L	509.58	ppb	14:11:13
2	Sc 361.383	908111.5	908111.5	103.19	%			14:12:36
2	Y 371.029	753785.4	753785.4	99.099	%			14:12:36
2	Ag 328.068†	106298.0	102781.8	480.86	ug/L	480.86	ppb	14:12:41
2	As 188.979†	1093.5	1079.7	484.43	ug/L	484.43	ppb	14:13:02
2	B 249.677†	19863.7	19528.4	476.32	ug/L	476.32	ppb	14:12:41
2	Ba 233.527†	62792.9	60843.1	479.47	ug/L	479.47	ppb	14:12:41
2	Be 313.107†	1318537.7	1281385.3	479.85	ug/L	479.85	ppb	14:12:36
2	Cd 226.502†	42446.3	41311.9	479.88	ug/L	479.88	ppb	14:12:41
2	Co 228.616†	23484.3	22824.1	479.45	ug/L	479.45	ppb	14:12:41
2	Cr 267.716†	43961.8	42519.3	478.13	ug/L	478.13	ppb	14:12:41
2	Cu 324.752†	166839.1	155732.7	474.54	ug/L	474.54	ppb	14:12:41
2	Mn 257.610†	435755.4	421823.5	480.90	ug/L	480.90	ppb	14:12:36
2	Mo 202.031†	6720.4	6508.2	479.88	ug/L	479.88	ppb	14:13:02
2	Ni 231.604†	19611.8	18923.5	482.64	ug/L	482.64	ppb	14:12:41

2	P 214.914†	4319.4	3980.2	2300.5 ug/L	2300.5 ppb	14:13:02
2	Pb 220.353†	4019.3	3834.0	475.74 ug/L	475.74 ppb	14:13:02
2	S 181.975 Axial†	740.9	682.2	960.97 ug/L	960.97 ppb	14:13:02
2	Sb 206.836†	1430.7	1347.5	492.70 ug/L	492.70 ppb	14:13:02
2	Se 196.026†	724.7	727.1	497.32 ug/L	497.32 ppb	14:13:02
2	Si 251.611†	76491.5	73565.1	2377.3 ug/L	2377.3 ppb	14:12:41
2	Sn 189.927†	2758.5	2663.9	481.08 ug/L	481.08 ppb	14:13:02
2	Ti 334.940†	309963.1	301802.7	475.46 ug/L	475.46 ppb	14:12:41
2	Tl 190.801†	1512.0	1492.8	483.38 ug/L	483.38 ppb	14:13:02
2	U 409.014†	14476.4	16931.3	471.06 ug/L	471.06 ppb	14:12:41
2	V 292.402†	68782.2	68127.2	482.20 ug/L	482.20 ppb	14:12:41
2	Zn 213.857†	49649.6	47377.2	473.71 ug/L	473.71 ppb	14:12:41
2	SiO2†	75671.1	72746.5	5037.5 ug/L	5037.5 ppb	14:13:43
3	Sc Radial	3853.6	3853.6	99.9 %		14:11:58
3	Y RADIAL	4352.3	4352.3	97.77 %		14:11:38
3	Al 396.153Radial†	5324.7	5444.4	5093.4 ug/L	5093.4 ppb	14:11:38
3	Ca 317.933Radial†	2384.5	2367.9	5163.7 ug/L	5163.7 ppb	14:11:58
3	Fe 238.204 Radial†	328.5	317.1	5138.1 ug/L	5138.1 ppb	14:11:58
3	K 766.490 Radial†	28809.9	26069.9	4988.2 ug/L	4988.2 ppb	14:11:38
3	Mg 279.077 IEC†	103.2	102.1	5386.5 ug/L	5386.5 ppb	14:11:58
3	Na 589.592 Radial†	33075.6	34006.1	10581 ug/L	10581 ppb	14:11:38
3	Sr 421.552†	73032.9	73087.8	508.41 ug/L	508.41 ppb	14:11:38
3	Sc 361.383	913347.6	913347.6	103.78 %		14:13:07
3	Y 371.029	757937.7	757937.7	99.645 %		14:13:07
3	Ag 328.068†	106128.5	102027.9	477.15 ug/L	477.15 ppb	14:13:13
3	As 188.979†	1107.1	1086.7	487.38 ug/L	487.38 ppb	14:13:33
3	B 249.677†	19878.5	19432.3	474.09 ug/L	474.09 ppb	14:13:13
3	Ba 233.527†	62624.9	60332.3	475.43 ug/L	475.43 ppb	14:13:13
3	Be 313.107†	1324169.2	1279486.0	479.13 ug/L	479.13 ppb	14:13:07
3	Cd 226.502†	42247.5	40884.6	474.98 ug/L	474.98 ppb	14:13:13
3	Co 228.616†	23400.7	22613.0	475.03 ug/L	475.03 ppb	14:13:13
3	Cr 267.716†	43972.7	42285.6	475.44 ug/L	475.44 ppb	14:13:13
3	Cu 324.752†	166772.6	154741.7	471.48 ug/L	471.48 ppb	14:13:13
3	Mn 257.610†	436917.8	420522.6	479.37 ug/L	479.37 ppb	14:13:07
3	Mo 202.031†	6743.5	6493.1	478.71 ug/L	478.71 ppb	14:13:33
3	Ni 231.604†	19450.4	18659.0	475.89 ug/L	475.89 ppb	14:13:13
3	P 214.914†	4303.9	3941.3	2278.3 ug/L	2278.3 ppb	14:13:33
3	Pb 220.353†	4036.3	3828.0	475.07 ug/L	475.07 ppb	14:13:33
3	S 181.975 Axial†	740.3	677.5	954.26 ug/L	954.26 ppb	14:13:33
3	Sb 206.836†	1445.4	1353.7	494.84 ug/L	494.84 ppb	14:13:33
3	Se 196.026†	722.6	721.0	491.25 ug/L	491.25 ppb	14:13:33
3	Si 251.611†	76279.7	72936.0	2356.9 ug/L	2356.9 ppb	14:13:13
3	Sn 189.927†	2762.5	2652.4	478.93 ug/L	478.93 ppb	14:13:33
3	Ti 334.940†	309664.8	299793.2	472.24 ug/L	472.24 ppb	14:13:13
3	Tl 190.801†	1510.3	1482.7	480.14 ug/L	480.14 ppb	14:13:33
3	U 409.014†	14490.3	16864.3	469.27 ug/L	469.27 ppb	14:13:13
3	V 292.402†	68739.6	67704.0	479.32 ug/L	479.32 ppb	14:13:13
3	Zn 213.857†	49496.4	46953.8	469.58 ug/L	469.58 ppb	14:13:13
3	SiO2†	76319.6	72951.0	5051.8 ug/L	5051.8 ppb	14:13:48

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	914597.9	103.92	%	0.817				0.79%
Sc Radial	3749.1	97.2	%	5.26				5.41%
Y 371.029	759139.8	99.803	%	0.7948				0.80%
Y RADIAL	4375.0	98.28	%	0.557				0.57%
Ag 328.068†	101796.7	476.12	ug/L	5.326	476.12	ppb	5.326	1.12%
QC value within limits for Ag 328.068 Recovery = 95.22%								
Al 396.153Radial†	5405.5	5057.0	ug/L	55.44	5057.0	ppb	55.44	1.10%
QC value within limits for Al 396.153Radial Recovery = 101.14%								
As 188.979†	1076.0	482.65	ug/L	5.832	482.65	ppb	5.832	1.21%
QC value within limits for As 188.979 Recovery = 96.53%								
B 249.677†	19357.2	472.22	ug/L	5.290	472.22	ppb	5.290	1.12%
QC value within limits for B 249.677 Recovery = 94.44%								
Ba 233.527†	60230.9	474.63	ug/L	5.279	474.63	ppb	5.279	1.11%
QC value within limits for Ba 233.527 Recovery = 94.93%								
Be 313.107†	1281484.4	479.88	ug/L	0.758	479.88	ppb	0.758	0.16%
QC value within limits for Be 313.107 Recovery = 95.98%								
Ca 317.933Radial†	2459.2	5362.9	ug/L	408.16	5362.9	ppb	408.16	7.61%

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   QC value within limits for Ca 317.933Radial  Recovery = 107.26%
Cd 226.502†            40850.9      474.57 ug/L         5.527      474.57 ppb          5.527   1.16%
   QC value within limits for Cd 226.502  Recovery = 94.91%
Co 228.616†            22589.6      474.53 ug/L         5.187      474.53 ppb          5.187   1.09%
   QC value within limits for Co 228.616  Recovery = 94.91%
Cr 267.716†            42135.5      473.77 ug/L         5.391      473.77 ppb          5.391   1.14%
   QC value within limits for Cr 267.716  Recovery = 94.75%
Cu 324.752†           154298.6      470.14 ug/L         5.196      470.14 ppb          5.196   1.11%
   QC value within limits for Cu 324.752  Recovery = 94.03%
Fe 238.204 Radial†       328.4      5321.2 ug/L        430.38      5321.2 ppb         430.38   8.09%
   QC value within limits for Fe 238.204 Radial  Recovery = 106.42%
K 766.490 Radial†      26146.2      5002.7 ug/L         62.59      5002.7 ppb          62.59   1.25%
   QC value within limits for K 766.490 Radial  Recovery = 100.05%
Mg 279.077 IEC†          103.1      5438.5 ug/L        347.45      5438.5 ppb         347.45   6.39%
   QC value within limits for Mg 279.077 IEC  Recovery = 108.77%
Mn 257.610†           421278.0      480.25 ug/L         0.789      480.25 ppb          0.789   0.16%
   QC value within limits for Mn 257.610  Recovery = 96.05%
Mo 202.031†             6452.8      475.76 ug/L         6.158      475.76 ppb          6.158   1.29%
   QC value within limits for Mo 202.031  Recovery = 95.15%
Na 589.592 Radial†     33989.0       10576 ug/L          80.9       10576 ppb           80.9   0.76%
   QC value within limits for Na 589.592 Radial  Recovery = 105.76%
Ni 231.604†            18675.7      476.32 ug/L         6.121      476.32 ppb          6.121   1.29%
   QC value within limits for Ni 231.604  Recovery = 95.26%
P 214.914†              3933.2      2273.5 ug/L        29.73      2273.5 ppb          29.73   1.31%
   QC value within limits for P 214.914  Recovery = 90.94%
Pb 220.353†             3800.8      471.67 ug/L         6.481      471.67 ppb          6.481   1.37%
   QC value within limits for Pb 220.353  Recovery = 94.33%
S 181.975 Axial†         674.8      950.46 ug/L        12.844      950.46 ppb         12.844   1.35%
   QC value within limits for S 181.975 Axial  Recovery = 95.05%
Sb 206.836†             1339.6      489.76 ug/L         7.030      489.76 ppb          7.030   1.44%
   QC value within limits for Sb 206.836  Recovery = 97.95%
Se 196.026†              719.9      491.06 ug/L         6.361      491.06 ppb          6.361   1.30%
   QC value within limits for Se 196.026  Recovery = 98.21%
Si 251.611†            72836.4      2353.7 ug/L        25.30      2353.7 ppb          25.30   1.07%
   QC value within limits for Si 251.611  Recovery = 94.15%
Sn 189.927†             2637.8      476.32 ug/L         6.471      476.32 ppb          6.471   1.36%
   QC value within limits for Sn 189.927  Recovery = 95.26%
Sr 421.552†            72730.7      505.92 ug/L         5.357      505.92 ppb          5.357   1.06%
   QC value within limits for Sr 421.552  Recovery = 101.18%
Ti 334.940†           299019.1      471.04 ug/L         5.121      471.04 ppb          5.121   1.09%
   QC value within limits for Ti 334.940  Recovery = 94.21%
Tl 190.801†             1484.6      480.75 ug/L         2.384      480.75 ppb          2.384   0.50%
   QC value within limits for Tl 190.801  Recovery = 96.15%
U 409.014†             16866.0      469.30 ug/L         1.742      469.30 ppb          1.742   0.37%
   QC value within limits for U 409.014  Recovery = 93.86%
V 292.402†             67514.1      477.92 ug/L         5.114      477.92 ppb          5.114   1.07%
   QC value within limits for V 292.402  Recovery = 95.58%
Zn 213.857†            46881.9      468.83 ug/L         5.298      468.83 ppb          5.298   1.13%
   QC value within limits for Zn 213.857  Recovery = 93.77%
SiO2†                  72722.0      5035.9 ug/L        16.67      5035.9 ppb          16.67   0.33%
   QC value within limits for SiO2  Recovery = 94.17%
All analyte(s) passed QC.
```

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

Autosampler Location: 8
Date Collected: 2/25/2010 14:15:59
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	3875.6	3875.6	100	%			14:18:11
1	Y RADIAL	4377.8	4377.8	98.34	%			14:17:51
1	Al 396.153Radial†	-113.7	1.9	1.7357	ug/L	1.7357	ppb	14:17:51
1	Ca 317.933Radial†	25.9	7.1	15.504	ug/L	15.504	ppb	14:18:11
1	Fe 238.204 Radial†	13.4	1.6	26.121	ug/L	26.121	ppb	14:18:11
1	K 766.490 Radial†	2981.1	201.7	38.628	ug/L	38.628	ppb	14:17:51
1	Mg 279.077 IEC†	4.7	3.5	184.34	ug/L	184.34	ppb	14:18:11
1	Na 589.592 Radial†	-845.5	60.2	18.738	ug/L	18.738	ppb	14:17:51
1	Sr 421.552†	39.7	30.8	0.2141	ug/L	0.2141	ppb	14:17:51
1	Sc 361.383	941381.5	941381.5	106.97	%			14:19:08
1	Y 371.029	792706.6	792706.6	104.22	%			14:19:08
1	Ag 328.068†	263.6	12.3	0.0604	ug/L	0.0604	ppb	14:19:13
1	As 188.979†	-14.3	6.5	2.9136	ug/L	2.9136	ppb	14:19:33
1	B 249.677†	-62.0	220.1	5.3899	ug/L	5.3899	ppb	14:19:33
1	Ba 233.527†	16.4	4.3	0.0369	ug/L	0.0369	ppb	14:19:33
1	Be 313.107†	-3530.7	257.4	0.0965	ug/L	0.0965	ppb	14:19:13
1	Cd 226.502†	-153.3	32.8	0.3806	ug/L	0.3806	ppb	14:19:33
1	Co 228.616†	-70.2	-0.8	-0.0154	ug/L	-0.0154	ppb	14:19:33
1	Cr 267.716†	76.6	-13.5	-0.1518	ug/L	-0.1518	ppb	14:19:33
1	Cu 324.752†	6033.2	-314.9	-0.9637	ug/L	-0.9637	ppb	14:19:13
1	Mn 257.610†	497.7	-12.4	-0.0191	ug/L	-0.0191	ppb	14:19:33
1	Mo 202.031†	18.4	12.6	0.9277	ug/L	0.9277	ppb	14:19:33
1	Ni 231.604†	71.0	-16.4	-0.4192	ug/L	-0.4192	ppb	14:19:33
1	P 214.914†	205.1	-14.1	-8.3008	ug/L	-8.3008	ppb	14:19:33
1	Pb 220.353†	3.0	-58.4	-7.2179	ug/L	-7.2179	ppb	14:19:33
1	S 181.975 Axial†	40.3	1.8	2.5914	ug/L	2.5914	ppb	14:19:33
1	Sb 206.836†	43.6	1.7	0.6194	ug/L	0.6194	ppb	14:19:33
1	Se 196.026†	-15.1	10.6	7.0724	ug/L	7.0724	ppb	14:19:33
1	Si 251.611†	592.9	-10.4	-0.3498	ug/L	-0.3498	ppb	14:19:33
1	Sn 189.927†	6.4	-3.5	-0.6249	ug/L	-0.6249	ppb	14:19:33
1	Ti 334.940†	-1423.4	79.2	0.1073	ug/L	0.1073	ppb	14:19:13
1	Tl 190.801†	-36.2	-6.4	-2.0672	ug/L	-2.0672	ppb	14:19:33
1	U 409.014†	-2706.5	371.6	10.374	ug/L	10.374	ppb	14:19:08
1	V 292.402†	-1416.6	144.4	1.0412	ug/L	1.0412	ppb	14:19:13
1	Zn 213.857†	784.0	-6.5	-0.0657	ug/L	-0.0657	ppb	14:19:33
1	SiO2†	548.7	-75.3	-5.2523	ug/L	-5.2523	ppb	14:20:39
2	Sc Radial	3910.7	3910.7	101	%			14:18:37
2	Y RADIAL	4439.5	4439.5	99.73	%			14:18:17
2	Al 396.153Radial†	-123.2	-6.4	-6.0793	ug/L	-6.0793	ppb	14:18:17
2	Ca 317.933Radial†	27.2	8.1	17.762	ug/L	17.762	ppb	14:18:37
2	Fe 238.204 Radial†	13.6	1.7	27.502	ug/L	27.502	ppb	14:18:37
2	K 766.490 Radial†	2980.2	174.2	33.373	ug/L	33.373	ppb	14:18:17
2	Mg 279.077 IEC†	2.4	1.2	63.600	ug/L	63.600	ppb	14:18:37
2	Na 589.592 Radial†	-956.3	-41.4	-12.896	ug/L	-12.896	ppb	14:18:17
2	Sr 421.552†	40.2	30.9	0.2146	ug/L	0.2146	ppb	14:18:17
2	Sc 361.383	920185.7	920185.7	104.56	%			14:19:39
2	Y 371.029	773906.6	773906.6	101.74	%			14:19:39
2	Ag 328.068†	258.4	13.0	0.0686	ug/L	0.0686	ppb	14:19:44
2	As 188.979†	-13.8	6.8	3.0112	ug/L	3.0112	ppb	14:20:04
2	B 249.677†	-57.7	222.8	5.4567	ug/L	5.4567	ppb	14:20:04
2	Ba 233.527†	21.3	9.3	0.0750	ug/L	0.0750	ppb	14:20:04
2	Be 313.107†	-3675.2	43.2	0.0161	ug/L	0.0161	ppb	14:19:44
2	Cd 226.502†	-164.9	18.5	0.2124	ug/L	0.2124	ppb	14:20:04
2	Co 228.616†	-65.8	1.9	0.0418	ug/L	0.0418	ppb	14:20:04
2	Cr 267.716†	79.3	-9.3	-0.1016	ug/L	-0.1016	ppb	14:20:04
2	Cu 324.752†	6099.4	-121.6	-0.3701	ug/L	-0.3701	ppb	14:19:44
2	Mn 257.610†	474.0	-24.3	-0.0276	ug/L	-0.0276	ppb	14:20:04
2	Mo 202.031†	14.1	8.8	0.6487	ug/L	0.6487	ppb	14:20:04
2	Ni 231.604†	76.7	-9.4	-0.2402	ug/L	-0.2402	ppb	14:20:04

2	P 214.914†	207.3	-7.5	-4.4808	ug/L	-4.4808 ppb	14:20:04
2	Pb 220.353†	16.2	-45.7	-5.6497	ug/L	-5.6497 ppb	14:20:04
2	S 181.975 Axial†	34.3	-3.1	-4.3134	ug/L	-4.3134 ppb	14:20:04
2	Sb 206.836†	41.6	0.8	0.2870	ug/L	0.2870 ppb	14:20:04
2	Se 196.026†	-31.1	-5.0	-3.1999	ug/L	-3.1999 ppb	14:20:04
2	Si 251.611†	586.5	-3.8	-0.1300	ug/L	-0.1300 ppb	14:20:04
2	Sn 189.927†	11.7	1.8	0.3239	ug/L	0.3239 ppb	14:20:04
2	Ti 334.940†	-1477.8	-3.5	-0.0092	ug/L	-0.0092 ppb	14:19:44
2	Tl 190.801†	-29.5	-0.8	-0.2625	ug/L	-0.2625 ppb	14:20:04
2	U 409.014†	-2959.4	71.5	1.9939	ug/L	1.9939 ppb	14:19:39
2	V 292.402†	-1480.7	52.5	0.3772	ug/L	0.3772 ppb	14:19:44
2	Zn 213.857†	770.4	-2.6	-0.0284	ug/L	-0.0284 ppb	14:20:04
2	SiO2†	614.5	-0.5	-0.0531	ug/L	-0.0531 ppb	14:20:44
3	Sc Radial	3948.4	3948.4	102	%		14:19:02
3	Y RADIAL	4468.9	4468.9	100.4	%		14:18:42
3	Al 396.153Radial†	-120.8	-2.9	-2.7898	ug/L	-2.7898 ppb	14:18:42
3	Ca 317.933Radial†	21.3	2.1	4.6845	ug/L	4.6845 ppb	14:19:02
3	Fe 238.204 Radial†	11.4	-0.5	-8.5000	ug/L	-8.5000 ppb	14:19:02
3	K 766.490 Radial†	3032.3	197.0	37.727	ug/L	37.727 ppb	14:18:42
3	Mg 279.077 IEC†	1.1	-0.1	-4.0850	ug/L	-4.0850 ppb	14:19:02
3	Na 589.592 Radial†	-869.4	52.5	16.325	ug/L	16.325 ppb	14:18:42
3	Sr 421.552†	17.4	8.2	0.0571	ug/L	0.0571 ppb	14:18:42
3	Sc 361.383	936346.5	936346.5	106.39	%		14:20:09
3	Y 371.029	787511.1	787511.1	103.53	%		14:20:09
3	Ag 328.068†	356.1	100.6	0.4637	ug/L	0.4637 ppb	14:20:14
3	As 188.979†	-26.5	-5.0	-2.2276	ug/L	-2.2276 ppb	14:20:34
3	B 249.677†	-45.3	235.5	5.7724	ug/L	5.7724 ppb	14:20:34
3	Ba 233.527†	23.5	11.0	0.0876	ug/L	0.0876 ppb	14:20:34
3	Be 313.107†	-3544.5	226.8	0.0849	ug/L	0.0849 ppb	14:20:14
3	Cd 226.502†	-165.4	20.8	0.2428	ug/L	0.2428 ppb	14:20:34
3	Co 228.616†	-64.2	4.5	0.0955	ug/L	0.0955 ppb	14:20:34
3	Cr 267.716†	69.9	-19.4	-0.2195	ug/L	-0.2195 ppb	14:20:34
3	Cu 324.752†	6018.6	-298.3	-0.9111	ug/L	-0.9111 ppb	14:20:14
3	Mn 257.610†	488.6	-18.4	-0.0217	ug/L	-0.0217 ppb	14:20:34
3	Mo 202.031†	12.0	6.6	0.4887	ug/L	0.4887 ppb	14:20:34
3	Ni 231.604†	77.9	-9.6	-0.2454	ug/L	-0.2454 ppb	14:20:34
3	P 214.914†	208.9	-9.5	-5.4977	ug/L	-5.4977 ppb	14:20:34
3	Pb 220.353†	-17.8	-78.0	-9.6423	ug/L	-9.6423 ppb	14:20:34
3	S 181.975 Axial†	38.9	0.7	1.0472	ug/L	1.0472 ppb	14:20:34
3	Sb 206.836†	48.4	6.5	2.3077	ug/L	2.3077 ppb	14:20:34
3	Se 196.026†	-26.9	-0.5	-0.3619	ug/L	-0.3619 ppb	14:20:34
3	Si 251.611†	588.2	-11.9	-0.3904	ug/L	-0.3904 ppb	14:20:34
3	Sn 189.927†	12.8	2.6	0.4768	ug/L	0.4768 ppb	14:20:34
3	Ti 334.940†	-1447.5	49.4	0.0774	ug/L	0.0774 ppb	14:20:14
3	Tl 190.801†	-39.6	-9.7	-3.1343	ug/L	-3.1343 ppb	14:20:34
3	U 409.014†	-2960.0	119.8	3.3460	ug/L	3.3460 ppb	14:20:09
3	V 292.402†	-1496.3	62.4	0.4501	ug/L	0.4501 ppb	14:20:14
3	Zn 213.857†	777.3	-8.9	-0.0856	ug/L	-0.0856 ppb	14:20:34
3	SiO2†	637.6	11.1	0.7575	ug/L	0.7575 ppb	14:20:49

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	932637.9	105.97	%	1.258				1.19%
Sc Radial	3911.6	101	%	0.9				0.93%
Y 371.029	784708.1	103.16	%	1.276				1.24%
Y RADIAL	4428.7	99.48	%	1.045				1.05%
Ag 328.068†	42.0	0.1976	ug/L	0.23053	0.1976	ppb	0.23053	116.69%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-2.5	-2.3778	ug/L	3.92375	-2.3778	ppb	3.92375	165.02%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	2.8	1.2324	ug/L	2.99683	1.2324	ppb	2.99683	243.17%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	226.1	5.5397	ug/L	0.20431	5.5397	ppb	0.20431	3.69%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.2	0.0665	ug/L	0.02640	0.0665	ppb	0.02640	39.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	175.8	0.0658	ug/L	0.04344	0.0658	ppb	0.04344	65.97%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.8	12.650	ug/L	6.9901	12.650	ppb	6.9901	55.26%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              24.0      0.2786 ug/L       0.08966      0.2786 ppb        0.08966  32.18%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               1.9      0.0406 ug/L       0.05545      0.0406 ppb        0.05545 136.48%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†             -14.1     -0.1576 ug/L       0.05915     -0.1576 ppb        0.05915  37.53%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -244.9     -0.7483 ug/L       0.32855     -0.7483 ppb        0.32855  43.91%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        0.9      15.041 ug/L       20.3988      15.041 ppb        20.3988 135.62%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       190.9      36.576 ug/L        2.8103      36.576 ppb         2.8103   7.68%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           1.5      81.285 ug/L       95.4504      81.285 ppb        95.4504 117.43%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†             -18.4     -0.0228 ug/L       0.00438     -0.0228 ppb        0.00438  19.25%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               9.3      0.6884 ug/L       0.22219      0.6884 ppb        0.22219  32.28%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       23.7      7.3888 ug/L      17.60869      7.3888 ppb       17.60869 238.32%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†             -11.8     -0.3016 ug/L       0.10190     -0.3016 ppb        0.10190  33.79%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†              -10.4     -6.0931 ug/L       1.97836     -6.0931 ppb        1.97836  32.47%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†             -60.7     -7.5033 ug/L       2.01156     -7.5033 ppb        2.01156  26.81%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†         -0.2     -0.2249 ug/L       3.62395     -0.2249 ppb        3.62395 >999.9%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               3.0      1.0714 ug/L       1.08356      1.0714 ppb        1.08356 101.14%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               1.7      1.1702 ug/L       5.30476      1.1702 ppb        5.30476 453.33%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              -8.7     -0.2900 ug/L       0.14009     -0.2900 ppb        0.14009  48.30%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               0.3      0.0586 ug/L       0.59684      0.0586 ppb        0.59684 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              23.3      0.1619 ug/L       0.09078      0.1619 ppb        0.09078  56.06%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              41.7      0.0585 ug/L       0.06047      0.0585 ppb        0.06047 103.37%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -5.7     -1.8213 ug/L       1.45160     -1.8213 ppb        1.45160  79.70%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              187.6      5.2380 ug/L       4.49905      5.2380 ppb        4.49905  85.89%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†               86.4      0.6228 ug/L       0.36413      0.6228 ppb        0.36413  58.46%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              -6.0     -0.0599 ug/L       0.02900     -0.0599 ppb        0.02900  48.41%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                   -21.6     -1.5160 ug/L       3.26102     -1.5160 ppb        3.26102 215.11%
   QC value within limits for SiO2  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 5
Sample ID: 1202031021|948088|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 2/25/2010 14:23:00
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202031021|948088|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	4173.6	4173.6	108	%			14:25:12
1	Y RADIAL	4735.2	4735.2	106.4	%			14:24:52
1	Al 396.153Radial†	-117.8	6.2	5.7976	ug/L	5.7976	ppb	14:24:52
1	Ca 317.933Radial†	23.8	3.4	7.3147	ug/L	7.3147	ppb	14:25:12
1	Fe 238.204 Radial†	13.4	0.7	11.755	ug/L	11.755	ppb	14:25:12
1	K 766.490 Radial†	2787.9	-188.6	-36.153	ug/L	-36.153	ppb	14:24:52
1	Mg 279.077 IEC†	1.8	0.5	26.904	ug/L	26.904	ppb	14:25:12
1	Na 589.592 Radial†	-853.0	113.4	35.297	ug/L	35.297	ppb	14:24:52
1	Sr 421.552†	56.0	43.0	0.2990	ug/L	0.2990	ppb	14:24:52
1	Sc 361.383	907559.7	907559.7	103.12	%			14:26:09
1	Y 371.029	764445.4	764445.4	100.50	%			14:26:09
1	Ag 328.068†	250.4	8.7	0.0425	ug/L	0.0425	ppb	14:26:09
1	As 188.979†	-7.3	12.9	5.7214	ug/L	5.7214	ppb	14:26:29
1	B 249.677†	-126.8	155.1	3.7982	ug/L	3.7982	ppb	14:26:29
1	Ba 233.527†	24.8	13.0	0.1037	ug/L	0.1037	ppb	14:26:29
1	Be 313.107†	-3582.0	84.8	0.0321	ug/L	0.0321	ppb	14:26:09
1	Cd 226.502†	-158.4	22.6	0.2624	ug/L	0.2624	ppb	14:26:29
1	Co 228.616†	-57.8	8.8	0.1873	ug/L	0.1873	ppb	14:26:29
1	Cr 267.716†	76.8	-10.6	-0.1187	ug/L	-0.1187	ppb	14:26:29
1	Cu 324.752†	6065.3	-73.5	-0.2256	ug/L	-0.2256	ppb	14:26:09
1	Mn 257.610†	666.6	168.7	0.1923	ug/L	0.1923	ppb	14:26:29
1	Mo 202.031†	19.3	14.0	1.0355	ug/L	1.0355	ppb	14:26:29
1	Ni 231.604†	90.1	4.6	0.1164	ug/L	0.1164	ppb	14:26:29
1	P 214.914†	215.5	3.2	1.9594	ug/L	1.9594	ppb	14:26:29
1	Pb 220.353†	25.7	-36.3	-4.4882	ug/L	-4.4882	ppb	14:26:29
1	S 181.975 Axial†	45.3	8.1	11.435	ug/L	11.435	ppb	14:26:29
1	Sb 206.836†	42.5	2.2	0.8491	ug/L	0.8491	ppb	14:26:29
1	Se 196.026†	-25.0	0.5	0.3522	ug/L	0.3522	ppb	14:26:29
1	Si 251.611†	870.3	279.2	9.0328	ug/L	9.0328	ppb	14:26:29
1	Sn 189.927†	26.8	16.6	2.9932	ug/L	2.9932	ppb	14:26:29
1	Ti 334.940†	-1318.8	131.1	0.2035	ug/L	0.2035	ppb	14:26:09
1	Tl 190.801†	-33.1	-4.6	-1.4865	ug/L	-1.4865	ppb	14:26:29
1	U 409.014†	-2840.1	147.7	4.1243	ug/L	4.1243	ppb	14:26:09
1	V 292.402†	-1440.1	72.2	0.5253	ug/L	0.5253	ppb	14:26:09
1	Zn 213.857†	875.2	109.3	1.1010	ug/L	1.1010	ppb	14:26:29
1	SiO2†	882.1	267.2	18.520	ug/L	18.520	ppb	14:27:25
2	Sc Radial	3964.4	3964.4	103	%			14:25:38
2	Y RADIAL	4583.5	4583.5	103.0	%			14:25:17
2	Al 396.153Radial†	-118.1	0.2	0.1638	ug/L	0.1638	ppb	14:25:17
2	Ca 317.933Radial†	30.5	11.0	24.053	ug/L	24.053	ppb	14:25:38
2	Fe 238.204 Radial†	13.2	1.2	18.803	ug/L	18.803	ppb	14:25:38
2	K 766.490 Radial†	2913.8	69.7	13.344	ug/L	13.344	ppb	14:25:17
2	Mg 279.077 IEC†	5.8	4.5	237.87	ug/L	237.87	ppb	14:25:38
2	Na 589.592 Radial†	-892.4	33.5	10.411	ug/L	10.411	ppb	14:25:17
2	Sr 421.552†	53.9	43.7	0.3039	ug/L	0.3039	ppb	14:25:17
2	Sc 361.383	910486.2	910486.2	103.46	%			14:26:35
2	Y 371.029	766670.8	766670.8	100.79	%			14:26:35
2	Ag 328.068†	319.0	74.2	0.3503	ug/L	0.3503	ppb	14:26:35
2	As 188.979†	-9.9	10.4	4.6115	ug/L	4.6115	ppb	14:26:55
2	B 249.677†	-136.2	146.3	3.5825	ug/L	3.5825	ppb	14:26:55
2	Ba 233.527†	29.8	17.8	0.1403	ug/L	0.1403	ppb	14:26:55
2	Be 313.107†	-3637.7	42.0	0.0165	ug/L	0.0165	ppb	14:26:35
2	Cd 226.502†	-192.0	-9.4	-0.1114	ug/L	-0.1114	ppb	14:26:55
2	Co 228.616†	-51.0	15.6	0.3258	ug/L	0.3258	ppb	14:26:55
2	Cr 267.716†	76.5	-11.2	-0.1240	ug/L	-0.1240	ppb	14:26:55
2	Cu 324.752†	6050.2	-107.0	-0.3252	ug/L	-0.3252	ppb	14:26:35
2	Mn 257.610†	645.8	146.5	0.1591	ug/L	0.1591	ppb	14:26:55
2	Mo 202.031†	2.1	-2.7	-0.1943	ug/L	-0.1943	ppb	14:26:55
2	Ni 231.604†	75.0	-10.3	-0.2624	ug/L	-0.2624	ppb	14:26:55

2	P 214.914†	218.1	5.0	3.0855	ug/L	3.0855 ppb	14:26:55
2	Pb 220.353†	23.2	-38.8	-4.8018	ug/L	-4.8018 ppb	14:26:55
2	S 181.975 Axial†	39.1	2.0	2.8200	ug/L	2.8200 ppb	14:26:55
2	Sb 206.836†	54.9	14.1	4.9971	ug/L	4.9971 ppb	14:26:55
2	Se 196.026†	-18.9	6.5	4.3101	ug/L	4.3101 ppb	14:26:55
2	Si 251.611†	864.6	271.0	8.7808	ug/L	8.7808 ppb	14:26:55
2	Sn 189.927†	24.1	13.9	2.5073	ug/L	2.5073 ppb	14:26:55
2	Ti 334.940†	-1237.1	214.1	0.3209	ug/L	0.3209 ppb	14:26:35
2	Tl 190.801†	-26.0	2.3	0.7413	ug/L	0.7413 ppb	14:26:55
2	U 409.014†	-2981.4	20.1	0.5585	ug/L	0.5585 ppb	14:26:35
2	V 292.402†	-1504.7	14.3	0.0995	ug/L	0.0995 ppb	14:26:35
2	Zn 213.857†	878.3	109.5	1.1046	ug/L	1.1046 ppb	14:26:55
2	SiO2†	888.2	270.4	18.775	ug/L	18.775 ppb	14:27:30
3	Sc Radial	3951.5	3951.5	102	%		14:26:03
3	Y RADIAL	4474.8	4474.8	100.5	%		14:25:43
3	Al 396.153Radial†	-107.8	9.8	9.2010	ug/L	9.2010 ppb	14:25:43
3	Ca 317.933Radial†	27.7	8.3	18.175	ug/L	18.175 ppb	14:26:03
3	Fe 238.204 Radial†	12.3	0.4	5.7923	ug/L	5.7923 ppb	14:26:03
3	K 766.490 Radial†	2824.5	-8.1	-1.5634	ug/L	-1.5634 ppb	14:25:43
3	Mg 279.077 IEC†	2.3	1.1	55.498	ug/L	55.498 ppb	14:26:03
3	Na 589.592 Radial†	-879.4	43.4	13.491	ug/L	13.491 ppb	14:25:43
3	Sr 421.552†	63.4	53.2	0.3698	ug/L	0.3698 ppb	14:25:43
3	Sc 361.383	914711.5	914711.5	103.94	%		14:27:00
3	Y 371.029	771675.1	771675.1	101.45	%		14:27:00
3	Ag 328.068†	145.8	-93.9	-0.4343	ug/L	-0.4343 ppb	14:27:00
3	As 188.979†	-14.2	6.3	2.7872	ug/L	2.7872 ppb	14:27:20
3	B 249.677†	-152.6	131.1	3.2126	ug/L	3.2126 ppb	14:27:20
3	Ba 233.527†	19.5	7.7	0.0617	ug/L	0.0617 ppb	14:27:20
3	Be 313.107†	-3634.4	61.4	0.0237	ug/L	0.0237 ppb	14:27:00
3	Cd 226.502†	-166.9	15.6	0.1806	ug/L	0.1806 ppb	14:27:20
3	Co 228.616†	-53.4	13.4	0.2834	ug/L	0.2834 ppb	14:27:20
3	Cr 267.716†	81.8	-6.4	-0.0711	ug/L	-0.0711 ppb	14:27:20
3	Cu 324.752†	6073.0	-112.0	-0.3418	ug/L	-0.3418 ppb	14:27:00
3	Mn 257.610†	664.8	162.0	0.1828	ug/L	0.1828 ppb	14:27:20
3	Mo 202.031†	17.4	12.1	0.8912	ug/L	0.8912 ppb	14:27:20
3	Ni 231.604†	85.3	-0.7	-0.0183	ug/L	-0.0183 ppb	14:27:20
3	P 214.914†	209.8	-4.0	-2.3304	ug/L	-2.3304 ppb	14:27:20
3	Pb 220.353†	21.8	-40.2	-4.9748	ug/L	-4.9748 ppb	14:27:20
3	S 181.975 Axial†	46.4	8.8	12.446	ug/L	12.446 ppb	14:27:20
3	Sb 206.836†	52.6	11.6	4.1278	ug/L	4.1278 ppb	14:27:20
3	Se 196.026†	-29.7	-3.8	-2.5019	ug/L	-2.5019 ppb	14:27:20
3	Si 251.611†	860.3	263.0	8.5094	ug/L	8.5094 ppb	14:27:20
3	Sn 189.927†	16.1	6.1	1.1034	ug/L	1.1034 ppb	14:27:20
3	Ti 334.940†	-1237.1	219.7	0.3435	ug/L	0.3435 ppb	14:27:00
3	Tl 190.801†	-35.4	-6.7	-2.1391	ug/L	-2.1391 ppb	14:27:20
3	U 409.014†	-2965.6	48.6	1.3553	ug/L	1.3553 ppb	14:27:00
3	V 292.402†	-1463.2	60.9	0.4407	ug/L	0.4407 ppb	14:27:00
3	Zn 213.857†	870.8	98.4	0.9926	ug/L	0.9926 ppb	14:27:20
3	SiO2†	1092.6	463.0	32.123	ug/L	32.123 ppb	14:27:35

Mean Data: 1202031021|948088|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	910919.1	103.50	%	0.409				0.39%
Sc Radial	4029.8	104	%	3.2				3.09%
Y 371.029	767597.1	100.92	%	0.487				0.48%
Y RADIAL	4597.8	103.3	%	2.94				2.84%
Ag 328.068†	-3.7	-0.0138	ug/L	0.39530	-0.0138	ppb	0.39530	>999.9%
Al 396.153Radial†	5.4	5.0541	ug/L	4.56424	5.0541	ppb	4.56424	90.31%
As 188.979†	9.8	4.3734	ug/L	1.48149	4.3734	ppb	1.48149	33.88%
B 249.677†	144.2	3.5311	ug/L	0.29614	3.5311	ppb	0.29614	8.39%
Ba 233.527†	12.8	0.1019	ug/L	0.03936	0.1019	ppb	0.03936	38.62%
Be 313.107†	62.7	0.0241	ug/L	0.00784	0.0241	ppb	0.00784	32.50%
Ca 317.933Radial†	7.6	16.514	ug/L	8.4918	16.514	ppb	8.4918	51.42%
Cd 226.502†	9.6	0.1105	ug/L	0.19647	0.1105	ppb	0.19647	177.75%
Co 228.616†	12.6	0.2655	ug/L	0.07096	0.2655	ppb	0.07096	26.73%
Cr 267.716†	-9.4	-0.1046	ug/L	0.02914	-0.1046	ppb	0.02914	27.86%
Cu 324.752†	-97.5	-0.2975	ug/L	0.06287	-0.2975	ppb	0.06287	21.13%
Fe 238.204 Radial†	0.7	12.117	ug/L	6.5127	12.117	ppb	6.5127	53.75%
K 766.490 Radial†	-42.3	-8.1242	ug/L	25.39262	-8.1242	ppb	25.39262	312.56%

Mg 279.077 IEC†	2.0	106.76	ug/L	114.441	106.76	ppb	114.441 107.20%
Mn 257.610†	159.1	0.1781	ug/L	0.01711	0.1781	ppb	0.01711 9.61%
Mo 202.031†	7.8	0.5774	ug/L	0.67225	0.5774	ppb	0.67225 116.42%
Na 589.592 Radial†	63.4	19.733	ug/L	13.5664	19.733	ppb	13.5664 68.75%
Ni 231.604†	-2.1	-0.0548	ug/L	0.19201	-0.0548	ppb	0.19201 350.65%
P 214.914†	1.4	0.9048	ug/L	2.85782	0.9048	ppb	2.85782 315.83%
Pb 220.353†	-38.4	-4.7549	ug/L	0.24663	-4.7549	ppb	0.24663 5.19%
S 181.975 Axial†	6.3	8.9000	ug/L	5.28966	8.9000	ppb	5.28966 59.43%
Sb 206.836†	9.3	3.3246	ug/L	2.18750	3.3246	ppb	2.18750 65.80%
Se 196.026†	1.0	0.7201	ug/L	3.42089	0.7201	ppb	3.42089 475.03%
Si 251.611†	271.1	8.7743	ug/L	0.26176	8.7743	ppb	0.26176 2.98%
Sn 189.927†	12.2	2.2013	ug/L	0.98135	2.2013	ppb	0.98135 44.58%
Sr 421.552†	46.6	0.3243	ug/L	0.03955	0.3243	ppb	0.03955 12.20%
Ti 334.940†	188.3	0.2893	ug/L	0.07513	0.2893	ppb	0.07513 25.97%
Tl 190.801†	-3.0	-0.9614	ug/L	1.51027	-0.9614	ppb	1.51027 157.08%
U 409.014†	72.1	2.0127	ug/L	1.87155	2.0127	ppb	1.87155 92.99%
V 292.402†	49.1	0.3552	ug/L	0.22542	0.3552	ppb	0.22542 63.47%
Zn 213.857†	105.7	1.0661	ug/L	0.06364	1.0661	ppb	0.06364 5.97%
SiO2†	333.5	23.139	ug/L	7.7807	23.139	ppb	7.7807 33.63%

Sequence No.: 6
Sample ID: 1202031026|948088|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 2/25/2010 14:29:46
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202031026|948088|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3911.4	3911.4	101	%			14:31:59
1	Y RADIAL	4357.2	4357.2	97.88	%			14:31:39
1	Al 396.153Radial†	5501.2	5539.7	5181.8	ug/L	5181.8	ppb	14:31:39
1	Ca 317.933Radial†	2480.3	2427.1	5292.9	ug/L	5292.9	ppb	14:31:59
1	Fe 238.204 Radial†	325.4	309.2	5011.7	ug/L	5011.7	ppb	14:31:59
1	K 766.490 Radial†	29409.0	26234.6	5021.7	ug/L	5021.7	ppb	14:31:39
1	Mg 279.077 IEC†	103.1	100.5	5302.2	ug/L	5302.2	ppb	14:31:59
1	Na 589.592 Radial†	15929.4	16609.4	5168.2	ug/L	5168.2	ppb	14:31:39
1	Sr 421.552†	73727.4	72692.5	505.65	ug/L	505.65	ppb	14:31:39
1	Sc 361.383	912818.2	912818.2	103.72	%			14:32:58
1	Y 371.029	758859.1	758859.1	99.766	%			14:32:58
1	Ag 328.068†	107205.9	103125.9	482.29	ug/L	482.29	ppb	14:32:58
1	As 188.979†	1140.6	1119.6	502.22	ug/L	502.22	ppb	14:33:18
1	B 249.677†	20181.0	19735.1	481.51	ug/L	481.51	ppb	14:32:58
1	Ba 233.527†	65654.7	63288.5	498.72	ug/L	498.72	ppb	14:32:58
1	Be 313.107†	1369181.3	1323623.4	495.71	ug/L	495.71	ppb	14:32:58
1	Cd 226.502†	42749.1	41391.7	480.91	ug/L	480.91	ppb	14:33:18
1	Co 228.616†	23736.2	22949.6	482.09	ug/L	482.09	ppb	14:33:18
1	Cr 267.716†	45822.3	44093.4	495.74	ug/L	495.74	ppb	14:32:58
1	Cu 324.752†	178450.3	166093.7	506.05	ug/L	506.05	ppb	14:32:58
1	Mn 257.610†	457768.4	440869.3	502.54	ug/L	502.54	ppb	14:32:58
1	Mo 202.031†	7065.1	6807.0	501.82	ug/L	501.82	ppb	14:33:18
1	Ni 231.604†	20579.5	19758.5	503.95	ug/L	503.95	ppb	14:33:18
1	P 214.914†	1192.0	943.4	468.91	ug/L	468.91	ppb	14:33:18
1	Pb 220.353†	4199.8	3988.0	494.93	ug/L	494.93	ppb	14:33:18
1	S 181.975 Axial†	3761.7	3591.0	5062.2	ug/L	5062.2	ppb	14:33:18
1	Sb 206.836†	1586.5	1490.6	544.11	ug/L	544.11	ppb	14:33:18
1	Se 196.026†	748.0	745.9	507.27	ug/L	507.27	ppb	14:33:18
1	Si 251.611†	156439.1	150262.5	4861.7	ug/L	4861.7	ppb	14:32:58
1	Sn 189.927†	2956.6	2841.1	513.00	ug/L	513.00	ppb	14:33:18
1	Ti 334.940†	333027.6	322490.9	508.01	ug/L	508.01	ppb	14:32:58
1	Tl 190.801†	1591.4	1561.8	505.90	ug/L	505.90	ppb	14:33:18
1	U 409.014†	15527.4	17872.3	497.39	ug/L	497.39	ppb	14:32:58
1	V 292.402†	72387.3	71259.3	504.50	ug/L	504.50	ppb	14:32:58
1	Zn 213.857†	51564.1	48974.9	489.78	ug/L	489.78	ppb	14:32:58
1	SiO2†	158885.8	152598.0	10581	ug/L	10581	ppb	14:34:18
2	Sc Radial	3894.3	3894.3	101	%			14:32:24
2	Y RADIAL	4381.7	4381.7	98.43	%			14:32:04
2	Al 396.153Radial†	5543.9	5605.9	5244.3	ug/L	5244.3	ppb	14:32:04
2	Ca 317.933Radial†	2464.5	2422.2	5282.1	ug/L	5282.1	ppb	14:32:24
2	Fe 238.204 Radial†	321.5	306.8	4971.7	ug/L	4971.7	ppb	14:32:24
2	K 766.490 Radial†	29611.0	26562.4	5084.5	ug/L	5084.5	ppb	14:32:04
2	Mg 279.077 IEC†	103.3	101.2	5338.6	ug/L	5338.6	ppb	14:32:24
2	Na 589.592 Radial†	15945.8	16694.8	5194.8	ug/L	5194.8	ppb	14:32:04
2	Sr 421.552†	74238.7	73519.1	511.41	ug/L	511.41	ppb	14:32:04
2	Sc 361.383	917130.6	917130.6	104.21	%			14:33:25
2	Y 371.029	761644.8	761644.8	100.13	%			14:33:25
2	Ag 328.068†	107618.9	103036.3	481.86	ug/L	481.86	ppb	14:33:25
2	As 188.979†	1138.7	1112.6	499.12	ug/L	499.12	ppb	14:33:45
2	B 249.677†	20282.2	19740.6	481.66	ug/L	481.66	ppb	14:33:25
2	Ba 233.527†	65926.1	63251.2	498.42	ug/L	498.42	ppb	14:33:25
2	Be 313.107†	1374067.8	1322105.4	495.14	ug/L	495.14	ppb	14:33:25
2	Cd 226.502†	42551.3	41008.1	476.45	ug/L	476.45	ppb	14:33:45
2	Co 228.616†	23650.7	22759.9	478.09	ug/L	478.09	ppb	14:33:45
2	Cr 267.716†	46032.2	44087.1	495.67	ug/L	495.67	ppb	14:33:25
2	Cu 324.752†	179305.2	166105.0	506.08	ug/L	506.08	ppb	14:33:25
2	Mn 257.610†	459635.4	440585.7	502.21	ug/L	502.21	ppb	14:33:25
2	Mo 202.031†	7043.2	6754.0	497.91	ug/L	497.91	ppb	14:33:45
2	Ni 231.604†	20473.6	19563.6	498.98	ug/L	498.98	ppb	14:33:45

2	P 214.914†	1191.8	937.8	465.54 ug/L	465.54 ppb	14:33:45
2	Pb 220.353†	4179.3	3949.3	490.15 ug/L	490.15 ppb	14:33:45
2	S 181.975 Axial†	3735.2	3548.4	5002.2 ug/L	5002.2 ppb	14:33:45
2	Sb 206.836†	1568.5	1466.1	535.30 ug/L	535.30 ppb	14:33:45
2	Se 196.026†	748.1	742.6	504.99 ug/L	504.99 ppb	14:33:45
2	Si 251.611†	156913.2	150008.3	4853.5 ug/L	4853.5 ppb	14:33:25
2	Sn 189.927†	2928.4	2800.7	505.70 ug/L	505.70 ppb	14:33:45
2	Ti 334.940†	334806.6	322688.3	508.31 ug/L	508.31 ppb	14:33:25
2	Tl 190.801†	1601.9	1564.6	506.83 ug/L	506.83 ppb	14:33:45
2	U 409.014†	15657.1	17926.3	498.90 ug/L	498.90 ppb	14:33:25
2	V 292.402†	72879.8	71403.7	505.47 ug/L	505.47 ppb	14:33:25
2	Zn 213.857†	51705.1	48876.5	488.82 ug/L	488.82 ppb	14:33:25
2	SiO2†	156106.1	149210.2	10346 ug/L	10346 ppb	14:34:23
3	Sc Radial	3902.2	3902.2	101 %		14:32:49
3	Y RADIAL	4382.6	4382.6	98.45 %		14:32:29
3	Al 396.153Radial†	5530.4	5581.3	5221.0 ug/L	5221.0 ppb	14:32:29
3	Ca 317.933Radial†	2452.1	2405.0	5244.6 ug/L	5244.6 ppb	14:32:49
3	Fe 238.204 Radial†	325.1	309.7	5019.0 ug/L	5019.0 ppb	14:32:49
3	K 766.490 Radial†	29518.0	26410.5	5055.4 ug/L	5055.4 ppb	14:32:29
3	Mg 279.077 IEC†	104.0	101.6	5361.6 ug/L	5361.6 ppb	14:32:49
3	Na 589.592 Radial†	15885.5	16602.9	5166.2 ug/L	5166.2 ppb	14:32:29
3	Sr 421.552†	74240.4	73370.3	510.37 ug/L	510.37 ppb	14:32:29
3	Sc 361.383	912740.0	912740.0	103.71 %		14:33:52
3	Y 371.029	758941.7	758941.7	99.777 %		14:33:52
3	Ag 328.068†	106856.7	102798.1	480.76 ug/L	480.76 ppb	14:33:52
3	As 188.979†	1127.4	1107.0	496.62 ug/L	496.62 ppb	14:34:12
3	B 249.677†	20218.9	19773.3	482.45 ug/L	482.45 ppb	14:33:52
3	Ba 233.527†	65631.0	63271.0	498.58 ug/L	498.58 ppb	14:33:52
3	Be 313.107†	1366302.6	1320960.9	494.71 ug/L	494.71 ppb	14:33:52
3	Cd 226.502†	42519.4	41173.9	478.37 ug/L	478.37 ppb	14:34:12
3	Co 228.616†	23610.3	22830.1	479.57 ug/L	479.57 ppb	14:34:12
3	Cr 267.716†	45779.6	44056.0	495.32 ug/L	495.32 ppb	14:33:52
3	Cu 324.752†	177941.6	165617.9	504.60 ug/L	504.60 ppb	14:33:52
3	Mn 257.610†	456429.3	439616.0	501.11 ug/L	501.11 ppb	14:33:52
3	Mo 202.031†	7036.7	6780.2	499.85 ug/L	499.85 ppb	14:34:12
3	Ni 231.604†	20506.1	19689.4	502.19 ug/L	502.19 ppb	14:34:12
3	P 214.914†	1191.1	942.6	468.68 ug/L	468.68 ppb	14:34:12
3	Pb 220.353†	4163.0	3952.8	490.58 ug/L	490.58 ppb	14:34:12
3	S 181.975 Axial†	3740.1	3570.4	5033.3 ug/L	5033.3 ppb	14:34:12
3	Sb 206.836†	1575.4	1480.0	540.25 ug/L	540.25 ppb	14:34:12
3	Se 196.026†	735.0	733.4	499.09 ug/L	499.09 ppb	14:34:12
3	Si 251.611†	155786.5	149646.1	4841.7 ug/L	4841.7 ppb	14:33:52
3	Sn 189.927†	2921.0	2807.0	506.84 ug/L	506.84 ppb	14:34:12
3	Ti 334.940†	332452.6	321964.0	507.16 ug/L	507.16 ppb	14:33:52
3	Tl 190.801†	1600.5	1570.7	508.75 ug/L	508.75 ppb	14:34:12
3	U 409.014†	15685.7	18026.2	501.69 ug/L	501.69 ppb	14:33:52
3	V 292.402†	72464.2	71339.4	505.05 ug/L	505.05 ppb	14:33:52
3	Zn 213.857†	51279.7	48705.0	487.07 ug/L	487.07 ppb	14:33:52
3	SiO2†	156206.2	150027.4	10402 ug/L	10402 ppb	14:34:28

Mean Data: 1202031026|948088|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	914229.6	103.88	%	0.286				0.27%
Sc Radial	3902.6	101	%	0.2				0.22%
Y 371.029	759815.2	99.892	%	0.2084				0.21%
Y RADIAL	4373.8	98.25	%	0.324				0.33%
Ag 328.068†	102986.8	481.64	ug/L	0.785	481.64	ppb	0.785	0.16%
Al 396.153Radial†	5575.6	5215.7	ug/L	31.56	5215.7	ppb	31.56	0.61%
As 188.979†	1113.1	499.32	ug/L	2.808	499.32	ppb	2.808	0.56%
B 249.677†	19749.7	481.88	ug/L	0.505	481.88	ppb	0.505	0.10%
Ba 233.527†	63270.2	498.57	ug/L	0.146	498.57	ppb	0.146	0.03%
Be 313.107†	1322229.9	495.19	ug/L	0.500	495.19	ppb	0.500	0.10%
Ca 317.933Radial†	2418.1	5273.2	ug/L	25.36	5273.2	ppb	25.36	0.48%
Cd 226.502†	41191.2	478.58	ug/L	2.235	478.58	ppb	2.235	0.47%
Co 228.616†	22846.5	479.92	ug/L	2.019	479.92	ppb	2.019	0.42%
Cr 267.716†	44078.9	495.58	ug/L	0.224	495.58	ppb	0.224	0.05%
Cu 324.752†	165938.9	505.58	ug/L	0.847	505.58	ppb	0.847	0.17%
Fe 238.204 Radial†	308.6	5000.8	ug/L	25.51	5000.8	ppb	25.51	0.51%
K 766.490 Radial†	26402.5	5053.9	ug/L	31.43	5053.9	ppb	31.43	0.62%

Mg 279.077 IEC†	101.1	5334.2 ug/L	29.93	5334.2 ppb	29.93	0.56%
Mn 257.610†	440357.0	501.96 ug/L	0.749	501.96 ppb	0.749	0.15%
Mo 202.031†	6780.4	499.86 ug/L	1.956	499.86 ppb	1.956	0.39%
Na 589.592 Radial†	16635.7	5176.4 ug/L	15.96	5176.4 ppb	15.96	0.31%
Ni 231.604†	19670.5	501.71 ug/L	2.520	501.71 ppb	2.520	0.50%
P 214.914†	941.3	467.71 ug/L	1.888	467.71 ppb	1.888	0.40%
Pb 220.353†	3963.4	491.88 ug/L	2.645	491.88 ppb	2.645	0.54%
S 181.975 Axial†	3569.9	5032.5 ug/L	30.02	5032.5 ppb	30.02	0.60%
Sb 206.836†	1478.9	539.88 ug/L	4.417	539.88 ppb	4.417	0.82%
Se 196.026†	740.7	503.78 ug/L	4.221	503.78 ppb	4.221	0.84%
Si 251.611†	149972.3	4852.3 ug/L	10.02	4852.3 ppb	10.02	0.21%
Sn 189.927†	2816.3	508.51 ug/L	3.926	508.51 ppb	3.926	0.77%
Sr 421.552†	73193.9	509.14 ug/L	3.065	509.14 ppb	3.065	0.60%
Ti 334.940†	322381.1	507.83 ug/L	0.595	507.83 ppb	0.595	0.12%
Tl 190.801†	1565.7	507.16 ug/L	1.451	507.16 ppb	1.451	0.29%
U 409.014†	17941.6	499.33 ug/L	2.180	499.33 ppb	2.180	0.44%
V 292.402†	71334.1	505.01 ug/L	0.483	505.01 ppb	0.483	0.10%
Zn 213.857†	48852.1	488.56 ug/L	1.376	488.56 ppb	1.376	0.28%
SiO2†	150611.9	10443 ug/L	122.7	10443 ppb	122.7	1.17%

Sequence No.: 8
Sample ID: 1202031022|948088|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 2/25/2010 14:43:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202031022|948088|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	3941.6	3941.6	102	%			14:45:41
1	Y RADIAL	4329.1	4329.1	97.25	%			14:45:21
1	Al 396.153Radial†	-95.7	21.4	20.134	ug/L	20.134	ppb	14:45:21
1	Ca 317.933Radial†	12389.5	12104.7	26397	ug/L	26397	ppb	14:45:21
1	Fe 238.204 Radial†	11.5	-0.4	-7.0724	ug/L	-7.0724	ppb	14:45:41
1	K 766.490 Radial†	6275.6	3375.7	630.31	ug/L	630.31	ppb	14:45:21
1	Mg 279.077 IEC†	83.3	80.4	4241.9	ug/L	4241.9	ppb	14:45:41
1	Na 589.592 Radial†	63271.7	62814.4	19546	ug/L	19546	ppb	14:45:21
1	Sr 421.552†	18392.9	17989.1	124.95	ug/L	124.95	ppb	14:45:21
1	Sc 361.383	904902.6	904902.6	102.82	%			14:46:38
1	Y 371.029	751073.6	751073.6	98.743	%			14:46:38
1	Ag 328.068†	304.8	62.3	-0.0686	ug/L	-0.0686	ppb	14:46:38
1	As 188.979†	-21.5	-1.0	-0.4544	ug/L	-0.4544	ppb	14:46:59
1	B 249.677†	537.5	800.7	19.627	ug/L	19.627	ppb	14:46:59
1	Ba 233.527†	1492.7	1440.7	11.327	ug/L	11.327	ppb	14:46:59
1	Be 313.107†	-3624.8	32.9	0.0055	ug/L	0.0055	ppb	14:46:38
1	Cd 226.502†	-152.6	27.8	0.3259	ug/L	0.3259	ppb	14:46:59
1	Co 228.616†	-66.7	0.0	0.0090	ug/L	0.0090	ppb	14:46:59
1	Cr 267.716†	513.9	414.7	4.6530	ug/L	4.6530	ppb	14:46:59
1	Cu 324.752†	7543.4	1381.3	4.2071	ug/L	4.2071	ppb	14:46:38
1	Mn 257.610†	1565.3	1044.7	1.0161	ug/L	1.0161	ppb	14:46:59
1	Mo 202.031†	-1.9	-6.5	-0.1671	ug/L	-0.1671	ppb	14:46:59
1	Ni 231.604†	200.7	112.4	2.8684	ug/L	2.8684	ppb	14:46:59
1	P 214.914†	302.3	88.2	51.927	ug/L	51.927	ppb	14:46:59
1	Pb 220.353†	-8.6	-69.6	-8.2374	ug/L	-8.2374	ppb	14:46:59
1	S 181.975 Axial†	5525.2	5337.8	7526.1	ug/L	7526.1	ppb	14:46:59
1	Sb 206.836†	27.7	-12.0	-4.7314	ug/L	-4.7314	ppb	14:46:59
1	Se 196.026†	-27.8	-2.3	-1.5617	ug/L	-1.5617	ppb	14:46:59
1	Si 251.611†	974457.3	947154.4	30684	ug/L	30684	ppb	14:46:38
1	Sn 189.927†	-170.7	-175.4	-26.947	ug/L	-26.947	ppb	14:46:59
1	Ti 334.940†	-3388.4	-1885.5	0.2205	ug/L	0.2205	ppb	14:46:38
1	Tl 190.801†	-38.7	-10.2	-3.2996	ug/L	-3.2996	ppb	14:46:59
1	U 409.014†	-2901.2	80.3	2.2330	ug/L	2.2330	ppb	14:46:38
1	V 292.402†	-1328.3	176.9	1.3175	ug/L	1.3175	ppb	14:46:59
1	Zn 213.857†	3329.7	2498.9	25.205	ug/L	25.205	ppb	14:46:59
1	SiO2†	976663.4	949276.5	65906	ug/L	65906	ppb	14:47:56
2	Sc Radial	3928.6	3928.6	102	%			14:46:06
2	Y RADIAL	4467.9	4467.9	100.4	%			14:45:46
2	Al 396.153Radial†	-105.3	11.7	11.009	ug/L	11.009	ppb	14:45:46
2	Ca 317.933Radial†	12650.8	12401.5	27044	ug/L	27044	ppb	14:45:46
2	Fe 238.204 Radial†	12.4	0.5	7.6709	ug/L	7.6709	ppb	14:46:06
2	K 766.490 Radial†	6497.2	3613.7	675.47	ug/L	675.47	ppb	14:45:46
2	Mg 279.077 IEC†	85.0	82.3	4342.8	ug/L	4342.8	ppb	14:46:06
2	Na 589.592 Radial†	64760.3	64481.3	20064	ug/L	20064	ppb	14:45:46
2	Sr 421.552†	18878.6	18525.7	128.67	ug/L	128.67	ppb	14:45:46
2	Sc 361.383	896913.8	896913.8	101.91	%			14:47:04
2	Y 371.029	744545.6	744545.6	97.885	%			14:47:04
2	Ag 328.068†	208.4	-29.7	-0.5007	ug/L	-0.5007	ppb	14:47:04
2	As 188.979†	-17.9	2.4	1.0439	ug/L	1.0439	ppb	14:47:24
2	B 249.677†	563.0	830.5	20.354	ug/L	20.354	ppb	14:47:24
2	Ba 233.527†	1485.0	1446.1	11.370	ug/L	11.370	ppb	14:47:24
2	Be 313.107†	-3562.6	62.5	0.0165	ug/L	0.0165	ppb	14:47:04
2	Cd 226.502†	-154.4	24.7	0.2889	ug/L	0.2889	ppb	14:47:24
2	Co 228.616†	-72.1	-5.9	-0.1140	ug/L	-0.1140	ppb	14:47:24
2	Cr 267.716†	483.2	389.0	4.3663	ug/L	4.3663	ppb	14:47:24
2	Cu 324.752†	7436.6	1341.9	4.0872	ug/L	4.0872	ppb	14:47:04
2	Mn 257.610†	1549.1	1042.4	1.0107	ug/L	1.0107	ppb	14:47:24
2	Mo 202.031†	7.7	2.8	0.5313	ug/L	0.5313	ppb	14:47:24
2	Ni 231.604†	200.9	114.3	2.9173	ug/L	2.9173	ppb	14:47:24

2	P 214.914†	295.2	83.8	49.283	ug/L	49.283 ppb	14:47:24
2	Pb 220.353†	16.8	-44.7	-5.1569	ug/L	-5.1569 ppb	14:47:24
2	S 181.975 Axial†	5508.6	5369.3	7570.6	ug/L	7570.6 ppb	14:47:24
2	Sb 206.836†	38.7	-1.0	-0.8610	ug/L	-0.8610 ppb	14:47:24
2	Se 196.026†	-19.8	5.3	3.4872	ug/L	3.4872 ppb	14:47:24
2	Si 251.611†	966536.5	947823.6	30705	ug/L	30705 ppb	14:47:04
2	Sn 189.927†	-181.2	-187.2	-28.962	ug/L	-28.962 ppb	14:47:24
2	Ti 334.940†	-3379.9	-1906.6	0.2656	ug/L	0.2656 ppb	14:47:04
2	Tl 190.801†	-46.2	-17.9	-5.7798	ug/L	-5.7798 ppb	14:47:24
2	U 409.014†	-2844.3	111.0	3.0878	ug/L	3.0878 ppb	14:47:04
2	V 292.402†	-1309.4	183.9	1.3777	ug/L	1.3777 ppb	14:47:24
2	Zn 213.857†	3311.6	2509.9	25.314	ug/L	25.314 ppb	14:47:24
2	SiO2†	988811.0	969656.4	67321	ug/L	67321 ppb	14:48:02
3	Sc Radial	3942.0	3942.0	102	%		14:46:32
3	Y RADIAL	4354.0	4354.0	97.81	%		14:46:12
3	Al 396.153Radial†	-80.3	36.5	34.266	ug/L	34.266 ppb	14:46:12
3	Ca 317.933Radial†	12431.1	12144.2	26483	ug/L	26483 ppb	14:46:12
3	Fe 238.204 Radial†	11.0	-0.9	-15.322	ug/L	-15.322 ppb	14:46:32
3	K 766.490 Radial†	6437.1	3533.1	660.45	ug/L	660.45 ppb	14:46:12
3	Mg 279.077 IEC†	86.2	83.1	4387.5	ug/L	4387.5 ppb	14:46:32
3	Na 589.592 Radial†	63184.3	62722.7	19517	ug/L	19517 ppb	14:46:12
3	Sr 421.552†	18517.5	18109.2	125.78	ug/L	125.78 ppb	14:46:12
3	Sc 361.383	898167.2	898167.2	102.06	%		14:47:30
3	Y 371.029	745798.1	745798.1	98.049	%		14:47:30
3	Ag 328.068†	297.1	57.0	-0.1014	ug/L	-0.1014 ppb	14:47:30
3	As 188.979†	-9.2	10.9	4.8388	ug/L	4.8388 ppb	14:47:50
3	B 249.677†	545.0	812.1	19.905	ug/L	19.905 ppb	14:47:50
3	Ba 233.527†	1490.8	1449.7	11.397	ug/L	11.397 ppb	14:47:50
3	Be 313.107†	-3553.3	76.5	0.0220	ug/L	0.0220 ppb	14:47:30
3	Cd 226.502†	-159.8	19.6	0.2329	ug/L	0.2329 ppb	14:47:50
3	Co 228.616†	-55.3	10.6	0.2336	ug/L	0.2336 ppb	14:47:50
3	Cr 267.716†	507.6	412.3	4.6235	ug/L	4.6235 ppb	14:47:50
3	Cu 324.752†	7552.4	1445.1	4.3984	ug/L	4.3984 ppb	14:47:30
3	Mn 257.610†	1562.2	1053.0	1.0187	ug/L	1.0187 ppb	14:47:50
3	Mo 202.031†	9.2	4.3	0.6305	ug/L	0.6305 ppb	14:47:50
3	Ni 231.604†	191.5	104.9	2.6768	ug/L	2.6768 ppb	14:47:50
3	P 214.914†	309.2	97.1	57.254	ug/L	57.254 ppb	14:47:50
3	Pb 220.353†	6.5	-54.8	-6.4017	ug/L	-6.4017 ppb	14:47:50
3	S 181.975 Axial†	5550.7	5403.0	7618.2	ug/L	7618.2 ppb	14:47:50
3	Sb 206.836†	33.7	-6.0	-2.5843	ug/L	-2.5843 ppb	14:47:50
3	Se 196.026†	-28.9	-3.6	-2.3967	ug/L	-2.3967 ppb	14:47:50
3	Si 251.611†	965948.9	945924.4	30644	ug/L	30644 ppb	14:47:30
3	Sn 189.927†	-172.9	-178.8	-27.543	ug/L	-27.543 ppb	14:47:50
3	Ti 334.940†	-3318.0	-1841.2	0.2878	ug/L	0.2878 ppb	14:47:30
3	Tl 190.801†	-34.1	-6.0	-1.9519	ug/L	-1.9519 ppb	14:47:50
3	U 409.014†	-2704.3	252.1	7.0301	ug/L	7.0301 ppb	14:47:30
3	V 292.402†	-1336.5	159.1	1.2180	ug/L	1.2180 ppb	14:47:50
3	Zn 213.857†	3333.3	2526.7	25.488	ug/L	25.488 ppb	14:47:50
3	SiO2†	976871.9	956603.9	66414	ug/L	66414 ppb	14:48:08

Mean Data: 1202031022|948088|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	899994.6	102.26	%	0.488				0.48%
Sc Radial	3937.4	102	%	0.2				0.19%
Y 371.029	747139.1	98.226	%	0.4555				0.46%
Y RADIAL	4383.7	98.47	%	1.661				1.69%
Ag 328.068†	29.8	-0.2235	ug/L	0.24056	-0.2235	ppb	0.24056	107.61%
Al 396.153Radial†	23.2	21.803	ug/L	11.7184	21.803	ppb	11.7184	53.75%
As 188.979†	4.1	1.8094	ug/L	2.72834	1.8094	ppb	2.72834	150.78%
B 249.677†	814.4	19.962	ug/L	0.3668	19.962	ppb	0.3668	1.84%
Ba 233.527†	1445.5	11.365	ug/L	0.0353	11.365	ppb	0.0353	0.31%
Be 313.107†	57.3	0.0147	ug/L	0.00839	0.0147	ppb	0.00839	57.11%
Ca 317.933Radial†	12216.8	26642	ug/L	351.4	26642	ppb	351.4	1.32%
Cd 226.502†	24.0	0.2826	ug/L	0.04681	0.2826	ppb	0.04681	16.57%
Co 228.616†	1.6	0.0429	ug/L	0.17629	0.0429	ppb	0.17629	411.16%
Cr 267.716†	405.3	4.5476	ug/L	0.15771	4.5476	ppb	0.15771	3.47%
Cu 324.752†	1389.4	4.2309	ug/L	0.15696	4.2309	ppb	0.15696	3.71%
Fe 238.204 Radial†	-0.3	-4.9079	ug/L	11.64838	-4.9079	ppb	11.64838	237.34%
K 766.490 Radial†	3507.5	655.41	ug/L	22.999	655.41	ppb	22.999	3.51%

Mg 279.077 IEC†	81.9	4324.1	ug/L	74.60	4324.1	ppb	74.60	1.73%
Mn 257.610†	1046.7	1.0152	ug/L	0.00409	1.0152	ppb	0.00409	0.40%
Mo 202.031†	0.2	0.3316	ug/L	0.43472	0.3316	ppb	0.43472	131.11%
Na 589.592 Radial†	63339.5	19709	ug/L	308.0	19709	ppb	308.0	1.56%
Ni 231.604†	110.5	2.8208	ug/L	0.12709	2.8208	ppb	0.12709	4.51%
P 214.914†	89.7	52.822	ug/L	4.0599	52.822	ppb	4.0599	7.69%
Pb 220.353†	-56.4	-6.5987	ug/L	1.54969	-6.5987	ppb	1.54969	23.48%
S 181.975 Axial†	5370.0	7571.6	ug/L	46.02	7571.6	ppb	46.02	0.61%
Sb 206.836†	-6.3	-2.7256	ug/L	1.93906	-2.7256	ppb	1.93906	71.14%
Se 196.026†	-0.2	-0.1571	ug/L	3.18351	-0.1571	ppb	3.18351	>999.9%
Si 251.611†	946967.5	30678	ug/L	31.2	30678	ppb	31.2	0.10%
Sn 189.927†	-180.5	-27.817	ug/L	1.0354	-27.817	ppb	1.0354	3.72%
Sr 421.552†	18208.0	126.47	ug/L	1.956	126.47	ppb	1.956	1.55%
Ti 334.940†	-1877.8	0.2580	ug/L	0.03431	0.2580	ppb	0.03431	13.30%
Tl 190.801†	-11.4	-3.6771	ug/L	1.94166	-3.6771	ppb	1.94166	52.80%
U 409.014†	147.8	4.1170	ug/L	2.55877	4.1170	ppb	2.55877	62.15%
V 292.402†	173.3	1.3044	ug/L	0.08062	1.3044	ppb	0.08062	6.18%
Zn 213.857†	2511.8	25.335	ug/L	0.1427	25.335	ppb	0.1427	0.56%
SiO2†	958512.3	66547	ug/L	716.7	66547	ppb	716.7	1.08%

Sequence No.: 9
Sample ID: 1202031024|948088|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 2/25/2010 14:50:20
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202031024|948088|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	3884.9	3884.9	101	%			14:52:32
1	Y RADIAL	4456.5	4456.5	100.1	%			14:52:12
1	Al 396.153Radial†	5577.5	5652.5	5288.2	ug/L	5288.2	ppb	14:52:12
1	Ca 317.933Radial†	15641.6	15510.6	33824	ug/L	33824	ppb	14:52:12
1	Fe 238.204 Radial†	344.2	330.1	5347.9	ug/L	5347.9	ppb	14:52:32
1	K 766.490 Radial†	33940.1	30931.3	5903.6	ug/L	5903.6	ppb	14:52:12
1	Mg 279.077 IEC†	186.1	183.6	9688.2	ug/L	9688.2	ppb	14:52:32
1	Na 589.592 Radial†	85433.9	85721.9	26674	ug/L	26674	ppb	14:52:12
1	Sr 421.552†	96237.4	95537.3	664.37	ug/L	664.37	ppb	14:52:12
1	Sc 361.383	894858.9	894858.9	101.68	%			14:53:31
1	Y 371.029	739833.6	739833.6	97.265	%			14:53:31
1	Ag 328.068†	105954.0	103969.1	485.94	ug/L	485.94	ppb	14:53:31
1	As 188.979†	1127.9	1129.2	506.55	ug/L	506.55	ppb	14:53:51
1	B 249.677†	20806.7	20740.9	506.14	ug/L	506.14	ppb	14:53:31
1	Ba 233.527†	65592.9	64498.0	508.24	ug/L	508.24	ppb	14:53:31
1	Be 313.107†	1361672.4	1342731.5	502.84	ug/L	502.84	ppb	14:53:31
1	Cd 226.502†	41336.9	40830.1	474.33	ug/L	474.33	ppb	14:53:51
1	Co 228.616†	22718.5	22408.0	470.70	ug/L	470.70	ppb	14:53:51
1	Cr 267.716†	44467.2	43647.4	490.78	ug/L	490.78	ppb	14:53:31
1	Cu 324.752†	177859.0	168965.1	514.83	ug/L	514.83	ppb	14:53:31
1	Mn 257.610†	444505.3	436683.0	497.63	ug/L	497.63	ppb	14:53:31
1	Mo 202.031†	6837.4	6719.7	495.76	ug/L	495.76	ppb	14:53:51
1	Ni 231.604†	19296.1	18894.5	481.91	ug/L	481.91	ppb	14:53:51
1	P 214.914†	1266.5	1039.8	524.66	ug/L	524.66	ppb	14:53:51
1	Pb 220.353†	4019.4	3891.8	483.39	ug/L	483.39	ppb	14:53:51
1	S 181.975 Axial†	9345.5	9155.3	12908	ug/L	12908	ppb	14:53:51
1	Sb 206.836†	1533.9	1469.5	536.12	ug/L	536.12	ppb	14:53:51
1	Se 196.026†	720.9	733.7	500.27	ug/L	500.27	ppb	14:53:51
1	Si 251.611†	1155508.6	1135851.2	36790	ug/L	36790	ppb	14:53:31
1	Sn 189.927†	2747.1	2692.3	491.21	ug/L	491.21	ppb	14:53:51
1	Ti 334.940†	324271.4	320323.3	508.07	ug/L	508.07	ppb	14:53:31
1	Tl 190.801†	1508.1	1510.6	489.44	ug/L	489.44	ppb	14:53:51
1	U 409.014†	14631.0	17291.1	481.13	ug/L	481.13	ppb	14:53:31
1	V 292.402†	71087.8	71381.9	505.28	ug/L	505.28	ppb	14:53:31
1	Zn 213.857†	52759.9	51148.7	511.80	ug/L	511.80	ppb	14:53:31
1	SiO2†	1177838.6	1157788.8	80369	ug/L	80369	ppb	14:54:52
2	Sc Radial	3865.0	3865.0	100	%			14:52:57
2	Y RADIAL	4353.7	4353.7	97.80	%			14:52:37
2	Al 396.153Radial†	5512.9	5616.5	5254.5	ug/L	5254.5	ppb	14:52:37
2	Ca 317.933Radial†	15435.7	15384.9	33550	ug/L	33550	ppb	14:52:37
2	Fe 238.204 Radial†	347.7	335.3	5432.9	ug/L	5432.9	ppb	14:52:57
2	K 766.490 Radial†	33435.4	30600.6	5840.5	ug/L	5840.5	ppb	14:52:37
2	Mg 279.077 IEC†	189.9	188.3	9938.1	ug/L	9938.1	ppb	14:52:57
2	Na 589.592 Radial†	83906.3	84632.9	26335	ug/L	26335	ppb	14:52:37
2	Sr 421.552†	94808.2	94601.7	657.86	ug/L	657.86	ppb	14:52:37
2	Sc 361.383	905105.5	905105.5	102.84	%			14:53:58
2	Y 371.029	746481.9	746481.9	98.139	%			14:53:58
2	Ag 328.068†	107340.2	104137.4	486.75	ug/L	486.75	ppb	14:53:58
2	As 188.979†	1126.1	1114.8	500.22	ug/L	500.22	ppb	14:54:18
2	B 249.677†	21260.5	20950.5	511.27	ug/L	511.27	ppb	14:53:58
2	Ba 233.527†	66748.9	64891.8	511.34	ug/L	511.34	ppb	14:53:58
2	Be 313.107†	1382718.0	1348034.3	504.82	ug/L	504.82	ppb	14:53:58
2	Cd 226.502†	41665.0	40688.9	472.68	ug/L	472.68	ppb	14:54:18
2	Co 228.616†	22877.6	22309.7	468.63	ug/L	468.63	ppb	14:54:18
2	Cr 267.716†	45171.3	43836.9	492.91	ug/L	492.91	ppb	14:53:58
2	Cu 324.752†	180733.3	169779.6	517.31	ug/L	517.31	ppb	14:53:58
2	Mn 257.610†	451317.3	438357.6	499.53	ug/L	499.53	ppb	14:53:58
2	Mo 202.031†	6877.3	6682.4	493.01	ug/L	493.01	ppb	14:54:18
2	Ni 231.604†	19440.2	18819.8	480.00	ug/L	480.00	ppb	14:54:18

2	P 214.914†	1272.5	1031.5	519.09 ug/L	519.09 ppb	14:54:18
2	Pb 220.353†	4061.1	3887.6	482.85 ug/L	482.85 ppb	14:54:18
2	S 181.975 Axial†	9410.3	9114.2	12850 ug/L	12850 ppb	14:54:18
2	Sb 206.836†	1529.1	1447.8	528.36 ug/L	528.36 ppb	14:54:18
2	Se 196.026†	733.3	737.7	503.19 ug/L	503.19 ppb	14:54:18
2	Si 251.611†	1174353.4	1141309.6	36967 ug/L	36967 ppb	14:53:58
2	Sn 189.927†	2764.6	2678.7	488.69 ug/L	488.69 ppb	14:54:18
2	Ti 334.940†	329279.9	321582.9	509.99 ug/L	509.99 ppb	14:53:58
2	Tl 190.801†	1524.8	1510.1	489.29 ug/L	489.29 ppb	14:54:18
2	U 409.014†	15148.6	17631.5	490.62 ug/L	490.62 ppb	14:53:58
2	V 292.402†	72076.7	71552.0	506.44 ug/L	506.44 ppb	14:53:58
2	Zn 213.857†	53449.0	51231.3	512.63 ug/L	512.63 ppb	14:53:58
2	SiO2†	1174791.1	1141711.6	79253 ug/L	79253 ppb	14:54:58
3	Sc Radial	3863.5	3863.5	100 %		14:53:22
3	Y RADIAL	4411.9	4411.9	99.11 %		14:53:02
3	Al 396.153Radial†	5525.9	5631.6	5268.9 ug/L	5268.9 ppb	14:53:02
3	Ca 317.933Radial†	15491.4	15446.4	33685 ug/L	33685 ppb	14:53:02
3	Fe 238.204 Radial†	343.7	331.4	5369.5 ug/L	5369.5 ppb	14:53:22
3	K 766.490 Radial†	33498.4	30676.5	5855.0 ug/L	5855.0 ppb	14:53:02
3	Mg 279.077 IEC†	186.3	184.8	9750.5 ug/L	9750.5 ppb	14:53:22
3	Na 589.592 Radial†	84374.4	85133.0	26490 ug/L	26490 ppb	14:53:02
3	Sr 421.552†	95376.4	95205.8	662.06 ug/L	662.06 ppb	14:53:02
3	Sc 361.383	909538.1	909538.1	103.35 %		14:54:26
3	Y 371.029	750811.0	750811.0	98.708 %		14:54:26
3	Ag 328.068†	107625.8	103905.0	485.64 ug/L	485.64 ppb	14:54:26
3	As 188.979†	1121.3	1104.9	495.78 ug/L	495.78 ppb	14:54:46
3	B 249.677†	21333.4	20920.3	510.56 ug/L	510.56 ppb	14:54:26
3	Ba 233.527†	66779.5	64605.1	509.08 ug/L	509.08 ppb	14:54:26
3	Be 313.107†	1383972.5	1342695.9	502.83 ug/L	502.83 ppb	14:54:26
3	Cd 226.502†	41291.6	40130.1	466.19 ug/L	466.19 ppb	14:54:46
3	Co 228.616†	22676.6	22006.8	462.26 ug/L	462.26 ppb	14:54:46
3	Cr 267.716†	45193.4	43644.2	490.74 ug/L	490.74 ppb	14:54:26
3	Cu 324.752†	181210.4	169384.8	516.10 ug/L	516.10 ppb	14:54:26
3	Mn 257.610†	451578.0	436471.1	497.38 ug/L	497.38 ppb	14:54:26
3	Mo 202.031†	6837.2	6611.1	487.76 ug/L	487.76 ppb	14:54:46
3	Ni 231.604†	19305.2	18597.0	474.32 ug/L	474.32 ppb	14:54:46
3	P 214.914†	1249.9	1003.6	502.52 ug/L	502.52 ppb	14:54:46
3	Pb 220.353†	3989.1	3798.7	471.84 ug/L	471.84 ppb	14:54:46
3	S 181.975 Axial†	9323.0	8985.2	12668 ug/L	12668 ppb	14:54:46
3	Sb 206.836†	1521.5	1433.2	522.98 ug/L	522.98 ppb	14:54:46
3	Se 196.026†	709.5	711.3	485.59 ug/L	485.59 ppb	14:54:46
3	Si 251.611†	1175919.3	1137259.8	36836 ug/L	36836 ppb	14:54:26
3	Sn 189.927†	2736.6	2638.5	481.48 ug/L	481.48 ppb	14:54:46
3	Ti 334.940†	329572.0	320305.1	508.01 ug/L	508.01 ppb	14:54:26
3	Tl 190.801†	1507.7	1486.3	481.65 ug/L	481.65 ppb	14:54:46
3	U 409.014†	15099.1	17511.9	487.30 ug/L	487.30 ppb	14:54:26
3	V 292.402†	72187.0	71317.1	504.72 ug/L	504.72 ppb	14:54:26
3	Zn 213.857†	53583.7	51108.4	511.44 ug/L	511.44 ppb	14:54:26
3	SiO2†	1172613.0	1134037.1	78720 ug/L	78720 ppb	14:55:04

Mean Data: 1202031024|948088|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	903167.5	102.62	%	0.856				0.83%
Sc Radial	3871.1	100	%	0.3				0.31%
Y 371.029	745708.9	98.038	%	0.7269				0.74%
Y RADIAL	4407.4	99.00	%	1.158				1.17%
Ag 328.068†	104003.8	486.11	ug/L	0.572	486.11	ppb	0.572	0.12%
Al 396.153Radial†	5633.5	5270.5	ug/L	16.90	5270.5	ppb	16.90	0.32%
As 188.979†	1116.3	500.85	ug/L	5.412	500.85	ppb	5.412	1.08%
B 249.677†	20870.6	509.32	ug/L	2.778	509.32	ppb	2.778	0.55%
Ba 233.527†	64665.0	509.55	ug/L	1.603	509.55	ppb	1.603	0.31%
Be 313.107†	1344487.2	503.50	ug/L	1.150	503.50	ppb	1.150	0.23%
Ca 317.933Radial†	15447.3	33686	ug/L	137.1	33686	ppb	137.1	0.41%
Cd 226.502†	40549.7	471.07	ug/L	4.304	471.07	ppb	4.304	0.91%
Co 228.616†	22241.5	467.20	ug/L	4.401	467.20	ppb	4.401	0.94%
Cr 267.716†	43709.5	491.47	ug/L	1.242	491.47	ppb	1.242	0.25%
Cu 324.752†	169376.5	516.08	ug/L	1.241	516.08	ppb	1.241	0.24%
Fe 238.204 Radial†	332.3	5383.4	ug/L	44.16	5383.4	ppb	44.16	0.82%
K 766.490 Radial†	30736.1	5866.4	ug/L	33.07	5866.4	ppb	33.07	0.56%

Mg 279.077 IEC†	185.6	9792.3 ug/L	130.06	9792.3 ppb	130.06	1.33%
Mn 257.610†	437170.6	498.18 ug/L	1.176	498.18 ppb	1.176	0.24%
Mo 202.031†	6671.1	492.18 ug/L	4.066	492.18 ppb	4.066	0.83%
Na 589.592 Radial†	85162.6	26500 ug/L	169.6	26500 ppb	169.6	0.64%
Ni 231.604†	18770.4	478.74 ug/L	3.947	478.74 ppb	3.947	0.82%
P 214.914†	1025.0	515.42 ug/L	11.516	515.42 ppb	11.516	2.23%
Pb 220.353†	3859.4	479.36 ug/L	6.515	479.36 ppb	6.515	1.36%
S 181.975 Axial†	9084.9	12808 ug/L	125.2	12808 ppb	125.2	0.98%
Sb 206.836†	1450.2	529.15 ug/L	6.607	529.15 ppb	6.607	1.25%
Se 196.026†	727.6	496.35 ug/L	9.434	496.35 ppb	9.434	1.90%
Si 251.611†	1138140.2	36865 ug/L	91.8	36865 ppb	91.8	0.25%
Sn 189.927†	2669.8	487.13 ug/L	5.049	487.13 ppb	5.049	1.04%
Sr 421.552†	95115.0	661.43 ug/L	3.299	661.43 ppb	3.299	0.50%
Ti 334.940†	320737.1	508.69 ug/L	1.126	508.69 ppb	1.126	0.22%
Tl 190.801†	1502.3	486.79 ug/L	4.457	486.79 ppb	4.457	0.92%
U 409.014†	17478.1	486.35 ug/L	4.816	486.35 ppb	4.816	0.99%
V 292.402†	71417.0	505.48 ug/L	0.874	505.48 ppb	0.874	0.17%
Zn 213.857†	51162.8	511.96 ug/L	0.612	511.96 ppb	0.612	0.12%
SiO2†	1144512.5	79447 ug/L	841.4	79447 ppb	841.4	1.06%

Sequence No.: 10
Sample ID: 1202031023|948088|5
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 2/25/2010 14:57:15
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202031023|948088|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3923.5	3923.5	102	%			14:59:07
1	Y RADIAL	4314.4	4314.4	96.92	%			14:59:07
1	Al 396.153Radial†	-107.9	9.0	8.4622	ug/L	8.4622	ppb	14:59:07
1	Ca 317.933Radial†	2652.9	2589.2	5646.5	ug/L	5646.5	ppb	14:59:27
1	Fe 238.204 Radial†	13.1	1.2	18.921	ug/L	18.921	ppb	14:59:27
1	K 766.490 Radial†	3642.9	816.1	152.87	ug/L	152.87	ppb	14:59:07
1	Mg 279.077 IEC†	21.8	20.2	1066.7	ug/L	1066.7	ppb	14:59:27
1	Na 589.592 Radial†	12450.4	13141.0	4089.0	ug/L	4089.0	ppb	14:59:07
1	Sr 421.552†	3904.4	3829.4	26.598	ug/L	26.598	ppb	14:59:07
1	Sc 361.383	903019.5	903019.5	102.61	%			15:00:24
1	Y 371.029	756449.5	756449.5	99.450	%			15:00:24
1	Ag 328.068†	245.0	4.6	-0.0464	ug/L	-0.0464	ppb	15:00:24
1	As 188.979†	-25.3	-4.8	-2.1149	ug/L	-2.1149	ppb	15:00:44
1	B 249.677†	-110.2	170.6	4.1778	ug/L	4.1778	ppb	15:00:44
1	Ba 233.527†	341.3	321.6	2.5288	ug/L	2.5288	ppb	15:00:44
1	Be 313.107†	-3612.9	37.1	0.0125	ug/L	0.0125	ppb	15:00:24
1	Cd 226.502†	-173.6	7.0	0.0791	ug/L	0.0791	ppb	15:00:44
1	Co 228.616†	-64.5	2.0	0.0448	ug/L	0.0448	ppb	15:00:44
1	Cr 267.716†	174.0	84.4	0.9506	ug/L	0.9506	ppb	15:00:44
1	Cu 324.752†	6336.5	220.4	0.6743	ug/L	0.6743	ppb	15:00:24
1	Mn 257.610†	753.8	257.0	0.2510	ug/L	0.2510	ppb	15:00:44
1	Mo 202.031†	9.4	4.5	0.3991	ug/L	0.3991	ppb	15:00:44
1	Ni 231.604†	99.8	14.5	0.3700	ug/L	0.3700	ppb	15:00:44
1	P 214.914†	235.7	23.9	14.126	ug/L	14.126	ppb	15:00:44
1	Pb 220.353†	-10.7	-71.6	-8.7774	ug/L	-8.7774	ppb	15:00:44
1	S 181.975 Axial†	1232.3	1165.1	1642.8	ug/L	1642.8	ppb	15:00:44
1	Sb 206.836†	37.5	-2.5	-1.0062	ug/L	-1.0062	ppb	15:00:44
1	Se 196.026†	-23.9	1.4	0.9867	ug/L	0.9867	ppb	15:00:44
1	Si 251.611†	212563.4	206597.2	6692.8	ug/L	6692.8	ppb	15:00:24
1	Sn 189.927†	-45.1	-53.4	-8.6225	ug/L	-8.6225	ppb	15:00:44
1	Ti 334.940†	-1843.9	-387.2	0.0612	ug/L	0.0612	ppb	15:00:24
1	Tl 190.801†	-31.3	-3.1	-0.9861	ug/L	-0.9861	ppb	15:00:44
1	U 409.014†	-3089.9	-109.5	-3.0620	ug/L	-3.0620	ppb	15:00:24
1	V 292.402†	-1481.5	24.8	0.1902	ug/L	0.1902	ppb	15:00:24
1	Zn 213.857†	1489.5	712.3	7.1844	ug/L	7.1844	ppb	15:00:44
1	SiO2†	209612.0	203697.3	14142	ug/L	14142	ppb	15:01:41
2	Sc Radial	3931.8	3931.8	102	%			14:59:32
2	Y RADIAL	4375.8	4375.8	98.29	%			14:59:32
2	Al 396.153Radial†	-130.8	-13.2	-12.466	ug/L	-12.466	ppb	14:59:32
2	Ca 317.933Radial†	2660.5	2591.2	5650.6	ug/L	5650.6	ppb	14:59:53
2	Fe 238.204 Radial†	10.4	-1.5	-24.254	ug/L	-24.254	ppb	14:59:53
2	K 766.490 Radial†	3634.1	799.9	149.78	ug/L	149.78	ppb	14:59:32
2	Mg 279.077 IEC†	19.2	17.7	934.05	ug/L	934.05	ppb	14:59:53
2	Na 589.592 Radial†	12327.0	12993.9	4043.2	ug/L	4043.2	ppb	14:59:32
2	Sr 421.552†	3904.7	3821.6	26.543	ug/L	26.543	ppb	14:59:32
2	Sc 361.383	885868.6	885868.6	100.66	%			15:00:50
2	Y 371.029	742203.8	742203.8	97.577	%			15:00:50
2	Ag 328.068†	264.5	28.6	0.0510	ug/L	0.0510	ppb	15:00:50
2	As 188.979†	-13.7	6.3	2.7883	ug/L	2.7883	ppb	15:01:10
2	B 249.677†	-90.3	188.3	4.6187	ug/L	4.6187	ppb	15:01:10
2	Ba 233.527†	321.8	308.6	2.4253	ug/L	2.4253	ppb	15:01:10
2	Be 313.107†	-3547.5	33.9	0.0110	ug/L	0.0110	ppb	15:00:50
2	Cd 226.502†	-154.0	23.2	0.2724	ug/L	0.2724	ppb	15:01:10
2	Co 228.616†	-63.3	2.0	0.0455	ug/L	0.0455	ppb	15:01:10
2	Cr 267.716†	159.4	73.3	0.8209	ug/L	0.8209	ppb	15:01:10
2	Cu 324.752†	6247.4	251.4	0.7663	ug/L	0.7663	ppb	15:00:50
2	Mn 257.610†	694.3	212.1	0.2010	ug/L	0.2010	ppb	15:01:10
2	Mo 202.031†	14.1	9.3	0.7510	ug/L	0.7510	ppb	15:01:10
2	Ni 231.604†	103.2	19.7	0.5026	ug/L	0.5026	ppb	15:01:10

2	P 214.914†	240.5	33.1	19.684	ug/L	19.684	ppb	15:01:10
2	Pb 220.353†	-18.6	-79.6	-9.7691	ug/L	-9.7691	ppb	15:01:10
2	S 181.975 Axial†	1237.8	1193.9	1683.3	ug/L	1683.3	ppb	15:01:10
2	Sb 206.836†	30.0	-9.2	-3.4090	ug/L	-3.4090	ppb	15:01:10
2	Se 196.026†	-15.9	8.9	5.7863	ug/L	5.7863	ppb	15:01:10
2	Si 251.611†	208291.5	206364.1	6685.3	ug/L	6685.3	ppb	15:00:50
2	Sn 189.927†	-50.4	-59.5	-9.7198	ug/L	-9.7198	ppb	15:01:10
2	Ti 334.940†	-1899.1	-476.8	-0.0687	ug/L	-0.0687	ppb	15:00:50
2	Tl 190.801†	-24.4	3.2	1.0137	ug/L	1.0137	ppb	15:01:10
2	U 409.014†	-3026.0	-104.3	-2.9129	ug/L	-2.9129	ppb	15:00:50
2	V 292.402†	-1483.9	-5.5	-0.0123	ug/L	-0.0123	ppb	15:00:50
2	Zn 213.857†	1507.5	758.2	7.6537	ug/L	7.6537	ppb	15:01:10
2	SiO2†	212355.2	210377.7	14606	ug/L	14606	ppb	15:01:46
3	Sc Radial	3957.3	3957.3	103	%			14:59:58
3	Y RADIAL	4354.6	4354.6	97.82	%			14:59:58
3	Al 396.153Radial†	-108.3	9.5	8.9446	ug/L	8.9446	ppb	14:59:58
3	Ca 317.933Radial†	2677.5	2590.9	5650.1	ug/L	5650.1	ppb	15:00:18
3	Fe 238.204 Radial†	13.0	1.0	15.927	ug/L	15.927	ppb	15:00:18
3	K 766.490 Radial†	3654.9	797.2	149.27	ug/L	149.27	ppb	14:59:58
3	Mg 279.077 IEC†	20.9	19.2	1012.6	ug/L	1012.6	ppb	15:00:18
3	Na 589.592 Radial†	12333.9	12922.9	4021.1	ug/L	4021.1	ppb	14:59:58
3	Sr 421.552†	3938.6	3830.1	26.602	ug/L	26.602	ppb	14:59:58
3	Sc 361.383	901549.9	901549.9	102.44	%			15:01:15
3	Y 371.029	755217.9	755217.9	99.288	%			15:01:15
3	Ag 328.068†	276.3	35.5	0.0907	ug/L	0.0907	ppb	15:01:15
3	As 188.979†	-13.2	7.0	3.1243	ug/L	3.1243	ppb	15:01:35
3	B 249.677†	-99.5	180.9	4.4304	ug/L	4.4304	ppb	15:01:35
3	Ba 233.527†	320.8	302.1	2.3751	ug/L	2.3751	ppb	15:01:35
3	Be 313.107†	-3591.5	52.3	0.0182	ug/L	0.0182	ppb	15:01:15
3	Cd 226.502†	-163.9	16.2	0.1878	ug/L	0.1878	ppb	15:01:35
3	Co 228.616†	-58.4	7.9	0.1685	ug/L	0.1685	ppb	15:01:35
3	Cr 267.716†	160.2	71.3	0.8004	ug/L	0.8004	ppb	15:01:35
3	Cu 324.752†	6373.1	266.2	0.8107	ug/L	0.8107	ppb	15:01:15
3	Mn 257.610†	728.9	233.8	0.2266	ug/L	0.2266	ppb	15:01:35
3	Mo 202.031†	13.0	8.0	0.6582	ug/L	0.6582	ppb	15:01:35
3	Ni 231.604†	118.6	33.0	0.8416	ug/L	0.8416	ppb	15:01:35
3	P 214.914†	221.2	10.1	5.8309	ug/L	5.8309	ppb	15:01:35
3	Pb 220.353†	-16.6	-77.4	-9.4900	ug/L	-9.4900	ppb	15:01:35
3	S 181.975 Axial†	1217.9	1153.1	1625.8	ug/L	1625.8	ppb	15:01:35
3	Sb 206.836†	31.4	-8.4	-3.0903	ug/L	-3.0903	ppb	15:01:35
3	Se 196.026†	-24.0	1.3	0.8979	ug/L	0.8979	ppb	15:01:35
3	Si 251.611†	212246.4	206625.5	6693.7	ug/L	6693.7	ppb	15:01:15
3	Sn 189.927†	-47.9	-56.1	-9.1205	ug/L	-9.1205	ppb	15:01:35
3	Ti 334.940†	-1837.9	-384.3	0.0685	ug/L	0.0685	ppb	15:01:15
3	Tl 190.801†	-32.4	-4.2	-1.3540	ug/L	-1.3540	ppb	15:01:35
3	U 409.014†	-2897.3	73.6	2.0503	ug/L	2.0503	ppb	15:01:15
3	V 292.402†	-1529.5	-24.4	-0.1403	ug/L	-0.1403	ppb	15:01:15
3	Zn 213.857†	1496.2	721.1	7.2709	ug/L	7.2709	ppb	15:01:35
3	SiO2†	211418.9	205794.3	14288	ug/L	14288	ppb	15:01:51

Mean Data: 1202031023|948088|5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	896812.7	101.90	%	1.080				1.06%
Sc Radial	3937.5	102	%	0.5				0.45%
Y 371.029	751290.4	98.771	%	1.0377				1.05%
Y RADIAL	4348.3	97.68	%	0.700				0.72%
Ag 328.068†	22.9	0.0318	ug/L	0.07055	0.0318	ppb	0.07055	222.07%
Al 396.153Radial†	1.8	1.6469	ug/L	12.22450	1.6469	ppb	12.22450	742.25%
As 188.979†	2.9	1.2659	ug/L	2.93268	1.2659	ppb	2.93268	231.67%
B 249.677†	179.9	4.4090	ug/L	0.22126	4.4090	ppb	0.22126	5.02%
Ba 233.527†	310.8	2.4430	ug/L	0.07837	2.4430	ppb	0.07837	3.21%
Be 313.107†	41.1	0.0139	ug/L	0.00379	0.0139	ppb	0.00379	27.31%
Ca 317.933Radial†	2590.4	5649.1	ug/L	2.28	5649.1	ppb	2.28	0.04%
Cd 226.502†	15.5	0.1797	ug/L	0.09693	0.1797	ppb	0.09693	53.92%
Co 228.616†	3.9	0.0863	ug/L	0.07121	0.0863	ppb	0.07121	82.53%
Cr 267.716†	76.3	0.8573	ug/L	0.08144	0.8573	ppb	0.08144	9.50%
Cu 324.752†	246.0	0.7504	ug/L	0.06959	0.7504	ppb	0.06959	9.27%
Fe 238.204 Radial†	0.2	3.5310	ug/L	24.10935	3.5310	ppb	24.10935	682.80%
K 766.490 Radial†	804.4	150.64	ug/L	1.950	150.64	ppb	1.950	1.29%

Mg 279.077 IEC†	19.0	1004.4	ug/L	66.68	1004.4	ppb	66.68	6.64%
Mn 257.610†	234.3	0.2262	ug/L	0.02500	0.2262	ppb	0.02500	11.05%
Mo 202.031†	7.3	0.6028	ug/L	0.18239	0.6028	ppb	0.18239	30.26%
Na 589.592 Radial†	13019.3	4051.1	ug/L	34.61	4051.1	ppb	34.61	0.85%
Ni 231.604†	22.4	0.5714	ug/L	0.24320	0.5714	ppb	0.24320	42.57%
P 214.914†	22.4	13.214	ug/L	6.9713	13.214	ppb	6.9713	52.76%
Pb 220.353†	-76.2	-9.3455	ug/L	0.51138	-9.3455	ppb	0.51138	5.47%
S 181.975 Axial†	1170.7	1650.6	ug/L	29.54	1650.6	ppb	29.54	1.79%
Sb 206.836†	-6.7	-2.5018	ug/L	1.30503	-2.5018	ppb	1.30503	52.16%
Se 196.026†	3.9	2.5570	ug/L	2.79703	2.5570	ppb	2.79703	109.39%
Si 251.611†	206528.9	6690.6	ug/L	4.65	6690.6	ppb	4.65	0.07%
Sn 189.927†	-56.3	-9.1543	ug/L	0.54945	-9.1543	ppb	0.54945	6.00%
Sr 421.552†	3827.0	26.581	ug/L	0.0329	26.581	ppb	0.0329	0.12%
Ti 334.940†	-416.1	0.0203	ug/L	0.07716	0.0203	ppb	0.07716	379.71%
Tl 190.801†	-1.4	-0.4422	ug/L	1.27414	-0.4422	ppb	1.27414	288.16%
U 409.014†	-46.8	-1.3082	ug/L	2.90947	-1.3082	ppb	2.90947	222.40%
V 292.402†	-1.7	0.0125	ug/L	0.16666	0.0125	ppb	0.16666	>999.9%
Zn 213.857†	730.5	7.3697	ug/L	0.24974	7.3697	ppb	0.24974	3.39%
SiO2†	206623.1	14345	ug/L	237.2	14345	ppb	237.2	1.65%

Sequence No.: 15
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/25/2010 15:31:25
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	3822.3	3822.3	99.1	%			15:33:38
1	Y RADIAL	4351.8	4351.8	97.75	%			15:33:18
1	Al 396.153Radial†	5337.8	5501.3	5146.9	ug/L	5146.9	ppb	15:33:18
1	Ca 317.933Radial†	2364.4	2367.1	5162.1	ug/L	5162.1	ppb	15:33:38
1	Fe 238.204 Radial†	318.4	309.7	5018.7	ug/L	5018.7	ppb	15:33:38
1	K 766.490 Radial†	28887.8	26384.9	5048.6	ug/L	5048.6	ppb	15:33:18
1	Mg 279.077 IEC†	97.7	97.4	5140.8	ug/L	5140.8	ppb	15:33:38
1	Na 589.592 Radial†	32248.3	33442.7	10406	ug/L	10406	ppb	15:33:18
1	Sr 421.552†	72101.0	72746.6	506.03	ug/L	506.03	ppb	15:33:18
1	Sc 361.383	915184.9	915184.9	103.99	%			15:34:35
1	Y 371.029	756963.9	756963.9	99.517	%			15:34:35
1	Ag 328.068†	107515.4	103156.3	482.37	ug/L	482.37	ppb	15:34:41
1	As 188.979†	1098.9	1076.6	482.94	ug/L	482.94	ppb	15:35:01
1	B 249.677†	19719.4	19240.9	469.39	ug/L	469.39	ppb	15:34:41
1	Ba 233.527†	63882.9	61421.0	483.99	ug/L	483.99	ppb	15:34:41
1	Be 313.107†	1339358.4	1291530.9	483.65	ug/L	483.65	ppb	15:34:35
1	Cd 226.502†	43218.4	41736.5	484.90	ug/L	484.90	ppb	15:34:41
1	Co 228.616†	23905.6	23053.3	484.27	ug/L	484.27	ppb	15:34:41
1	Cr 267.716†	44626.2	42829.0	481.54	ug/L	481.54	ppb	15:34:41
1	Cu 324.752†	168851.2	156418.0	476.59	ug/L	476.59	ppb	15:34:41
1	Mn 257.610†	444457.5	426927.7	486.67	ug/L	486.67	ppb	15:34:35
1	Mo 202.031†	6761.0	6496.9	478.98	ug/L	478.98	ppb	15:35:01
1	Ni 231.604†	19841.0	18997.0	484.51	ug/L	484.51	ppb	15:34:41
1	P 214.914†	4371.4	3997.9	2311.4	ug/L	2311.4	ppb	15:35:01
1	Pb 220.353†	4017.0	3801.7	471.83	ug/L	471.83	ppb	15:35:01
1	S 181.975 Axial†	763.9	698.7	984.24	ug/L	984.24	ppb	15:35:01
1	Sb 206.836†	1451.8	1357.1	496.10	ug/L	496.10	ppb	15:35:01
1	Se 196.026†	739.0	735.4	500.33	ug/L	500.33	ppb	15:35:01
1	Si 251.611†	77977.2	74420.9	2405.0	ug/L	2405.0	ppb	15:34:41
1	Sn 189.927†	2785.6	2669.3	481.98	ug/L	481.98	ppb	15:35:01
1	Ti 334.940†	314897.8	304226.3	479.24	ug/L	479.24	ppb	15:34:41
1	Tl 190.801†	1530.4	1499.1	485.46	ug/L	485.46	ppb	15:35:01
1	U 409.014†	14549.7	16893.3	470.08	ug/L	470.08	ppb	15:34:41
1	V 292.402†	69573.1	68372.5	483.99	ug/L	483.99	ppb	15:34:41
1	Zn 213.857†	50505.0	47827.9	478.36	ug/L	478.36	ppb	15:34:41
1	SiO2†	77661.6	74093.9	5131.1	ug/L	5131.1	ppb	15:36:08
2	Sc Radial	3837.0	3837.0	99.5	%			15:34:03
2	Y RADIAL	4298.4	4298.4	96.56	%			15:33:43
2	Al 396.153Radial†	5301.6	5444.2	5093.0	ug/L	5093.0	ppb	15:33:43
2	Ca 317.933Radial†	2379.2	2372.9	5174.6	ug/L	5174.6	ppb	15:34:03
2	Fe 238.204 Radial†	320.0	310.0	5024.7	ug/L	5024.7	ppb	15:34:03
2	K 766.490 Radial†	28576.1	25959.7	4967.2	ug/L	4967.2	ppb	15:33:43
2	Mg 279.077 IEC†	100.7	100.0	5277.9	ug/L	5277.9	ppb	15:34:03
2	Na 589.592 Radial†	31729.4	32796.1	10205	ug/L	10205	ppb	15:33:43
2	Sr 421.552†	71294.3	71656.4	498.45	ug/L	498.45	ppb	15:33:43
2	Sc 361.383	901218.9	901218.9	102.40	%			15:35:06
2	Y 371.029	745740.2	745740.2	98.042	%			15:35:06
2	Ag 328.068†	107564.6	104806.5	490.06	ug/L	490.06	ppb	15:35:12
2	As 188.979†	1098.6	1092.7	490.12	ug/L	490.12	ppb	15:35:32
2	B 249.677†	19777.2	19591.2	477.95	ug/L	477.95	ppb	15:35:12
2	Ba 233.527†	63697.6	62192.0	490.07	ug/L	490.07	ppb	15:35:12
2	Be 313.107†	1320165.1	1292747.4	484.12	ug/L	484.12	ppb	15:35:06
2	Cd 226.502†	43218.3	42380.4	492.38	ug/L	492.38	ppb	15:35:12
2	Co 228.616†	23909.6	23413.4	491.84	ug/L	491.84	ppb	15:35:12
2	Cr 267.716†	44553.3	43422.8	488.20	ug/L	488.20	ppb	15:35:12
2	Cu 324.752†	168849.9	158933.0	484.24	ug/L	484.24	ppb	15:35:12
2	Mn 257.610†	438621.3	427851.9	487.71	ug/L	487.71	ppb	15:35:06
2	Mo 202.031†	6738.8	6576.1	484.81	ug/L	484.81	ppb	15:35:32
2	Ni 231.604†	19797.6	19250.3	490.97	ug/L	490.97	ppb	15:35:12

2	P 214.914†	4356.9	4048.8	2340.6 ug/L	2340.6 ppb	15:35:32
2	Pb 220.353†	4044.6	3888.5	482.57 ug/L	482.57 ppb	15:35:32
2	S 181.975 Axial†	746.1	692.8	975.87 ug/L	975.87 ppb	15:35:32
2	Sb 206.836†	1464.2	1390.8	508.23 ug/L	508.23 ppb	15:35:32
2	Se 196.026†	730.5	738.1	502.12 ug/L	502.12 ppb	15:35:32
2	Si 251.611†	77874.9	75482.9	2439.3 ug/L	2439.3 ppb	15:35:12
2	Sn 189.927†	2789.9	2715.0	490.23 ug/L	490.23 ppb	15:35:32
2	Ti 334.940†	314150.0	308188.8	485.47 ug/L	485.47 ppb	15:35:12
2	Tl 190.801†	1521.0	1512.8	489.86 ug/L	489.86 ppb	15:35:32
2	U 409.014†	14669.1	17226.8	479.38 ug/L	479.38 ppb	15:35:12
2	V 292.402†	69478.7	69317.2	490.69 ug/L	490.69 ppb	15:35:12
2	Zn 213.857†	50465.8	48542.2	485.52 ug/L	485.52 ppb	15:35:12
2	SiO2†	77722.7	75310.9	5215.4 ug/L	5215.4 ppb	15:36:13
3	Sc Radial	3813.7	3813.7	98.9 %		15:34:28
3	Y RADIAL	4348.2	4348.2	97.68 %		15:34:08
3	Al 396.153Radial†	5356.1	5531.9	5175.5 ug/L	5175.5 ppb	15:34:08
3	Ca 317.933Radial†	2369.4	2377.6	5184.9 ug/L	5184.9 ppb	15:34:28
3	Fe 238.204 Radial†	322.8	314.8	5101.2 ug/L	5101.2 ppb	15:34:28
3	K 766.490 Radial†	29032.7	26596.7	5089.2 ug/L	5089.2 ppb	15:34:08
3	Mg 279.077 IEC†	100.0	99.9	5273.6 ug/L	5273.6 ppb	15:34:28
3	Na 589.592 Radial†	31923.5	33187.0	10327 ug/L	10327 ppb	15:34:08
3	Sr 421.552†	72090.5	72898.6	507.09 ug/L	507.09 ppb	15:34:08
3	Sc 361.383	909996.9	909996.9	103.40 %		15:35:37
3	Y 371.029	754076.8	754076.8	99.138 %		15:35:37
3	Ag 328.068†	107489.9	103721.1	485.03 ug/L	485.03 ppb	15:35:43
3	As 188.979†	1111.9	1095.2	491.23 ug/L	491.23 ppb	15:36:03
3	B 249.677†	19788.0	19415.3	473.64 ug/L	473.64 ppb	15:35:43
3	Ba 233.527†	63758.5	61650.8	485.81 ug/L	485.81 ppb	15:35:43
3	Be 313.107†	1331413.0	1291189.7	483.53 ug/L	483.53 ppb	15:35:37
3	Cd 226.502†	43208.3	41963.6	487.53 ug/L	487.53 ppb	15:35:43
3	Co 228.616†	23890.1	23169.3	486.71 ug/L	486.71 ppb	15:35:43
3	Cr 267.716†	44633.7	43080.9	484.37 ug/L	484.37 ppb	15:35:43
3	Cu 324.752†	168445.2	156951.0	478.21 ug/L	478.21 ppb	15:35:43
3	Mn 257.610†	440858.9	425884.2	485.48 ug/L	485.48 ppb	15:35:37
3	Mo 202.031†	6771.0	6543.7	482.43 ug/L	482.43 ppb	15:36:03
3	Ni 231.604†	19806.7	19072.6	486.44 ug/L	486.44 ppb	15:35:43
3	P 214.914†	4374.0	4024.3	2327.0 ug/L	2327.0 ppb	15:36:03
3	Pb 220.353†	4028.7	3835.0	475.96 ug/L	475.96 ppb	15:36:03
3	S 181.975 Axial†	763.3	702.4	989.35 ug/L	989.35 ppb	15:36:03
3	Sb 206.836†	1471.0	1383.6	505.61 ug/L	505.61 ppb	15:36:03
3	Se 196.026†	742.7	743.0	505.58 ug/L	505.58 ppb	15:36:03
3	Si 251.611†	77755.0	74633.5	2411.9 ug/L	2411.9 ppb	15:35:43
3	Sn 189.927†	2808.5	2706.7	488.73 ug/L	488.73 ppb	15:36:03
3	Ti 334.940†	314432.7	305502.9	481.24 ug/L	481.24 ppb	15:35:43
3	Tl 190.801†	1536.3	1513.2	489.97 ug/L	489.97 ppb	15:36:03
3	U 409.014†	14666.7	17086.3	475.46 ug/L	475.46 ppb	15:35:43
3	V 292.402†	69728.2	68904.0	487.75 ug/L	487.75 ppb	15:35:43
3	Zn 213.857†	50484.2	48084.7	480.93 ug/L	480.93 ppb	15:35:43
3	SiO2†	76951.4	73832.7	5112.9 ug/L	5112.9 ppb	15:36:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	908800.2	103.26	%	0.802				0.78%
Sc Radial	3824.3	99.2	%	0.31				0.31%
Y 371.029	752260.3	98.899	%	0.7662				0.77%
Y RADIAL	4332.8	97.33	%	0.670				0.69%
Ag 328.068†	103894.6	485.82	ug/L	3.905	485.82	ppb	3.905	0.80%
QC value within limits for Ag 328.068 Recovery = 97.16%								
Al 396.153Radial†	5492.5	5138.4	ug/L	41.89	5138.4	ppb	41.89	0.82%
QC value within limits for Al 396.153Radial Recovery = 102.77%								
As 188.979†	1088.2	488.10	ug/L	4.502	488.10	ppb	4.502	0.92%
QC value within limits for As 188.979 Recovery = 97.62%								
B 249.677†	19415.8	473.66	ug/L	4.282	473.66	ppb	4.282	0.90%
QC value within limits for B 249.677 Recovery = 94.73%								
Ba 233.527†	61754.6	486.62	ug/L	3.118	486.62	ppb	3.118	0.64%
QC value within limits for Ba 233.527 Recovery = 97.32%								
Be 313.107†	1291822.7	483.77	ug/L	0.312	483.77	ppb	0.312	0.06%
QC value within limits for Be 313.107 Recovery = 96.75%								
Ca 317.933Radial†	2372.5	5173.9	ug/L	11.42	5173.9	ppb	11.42	0.22%

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   QC value within limits for Ca 317.933Radial  Recovery = 103.48%
Cd 226.502†            42026.8      488.27 ug/L          3.799      488.27 ppb          3.799   0.78%
   QC value within limits for Cd 226.502  Recovery = 97.65%
Co 228.616†            23212.0      487.61 ug/L          3.861      487.61 ppb          3.861   0.79%
   QC value within limits for Co 228.616  Recovery = 97.52%
Cr 267.716†            43110.9      484.70 ug/L          3.347      484.70 ppb          3.347   0.69%
   QC value within limits for Cr 267.716  Recovery = 96.94%
Cu 324.752†           157434.0      479.68 ug/L          4.035      479.68 ppb          4.035   0.84%
   QC value within limits for Cu 324.752  Recovery = 95.94%
Fe 238.204 Radial†       311.5      5048.2 ug/L         45.97      5048.2 ppb         45.97   0.91%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.96%
K 766.490 Radial†      26313.8      5035.0 ug/L         62.13      5035.0 ppb         62.13   1.23%
   QC value within limits for K 766.490 Radial  Recovery = 100.70%
Mg 279.077 IEC†           99.1      5230.8 ug/L         77.95      5230.8 ppb         77.95   1.49%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.62%
Mn 257.610†           426888.0      486.62 ug/L          1.118      486.62 ppb          1.118   0.23%
   QC value within limits for Mn 257.610  Recovery = 97.32%
Mo 202.031†             6538.9      482.08 ug/L          2.930      482.08 ppb          2.930   0.61%
   QC value within limits for Mo 202.031  Recovery = 96.42%
Na 589.592 Radial†     33141.9       10313 ug/L        101.3       10313 ppb        101.3   0.98%
   QC value within limits for Na 589.592 Radial  Recovery = 103.13%
Ni 231.604†            19106.6      487.31 ug/L          3.316      487.31 ppb          3.316   0.68%
   QC value within limits for Ni 231.604  Recovery = 97.46%
P 214.914†              4023.7      2326.3 ug/L         14.61      2326.3 ppb         14.61   0.63%
   QC value within limits for P 214.914  Recovery = 93.05%
Pb 220.353†             3841.7      476.78 ug/L          5.416      476.78 ppb          5.416   1.14%
   QC value within limits for Pb 220.353  Recovery = 95.36%
S 181.975 Axial†         698.0      983.15 ug/L          6.806      983.15 ppb          6.806   0.69%
   QC value within limits for S 181.975 Axial  Recovery = 98.32%
Sb 206.836†             1377.2      503.31 ug/L          6.383      503.31 ppb          6.383   1.27%
   QC value within limits for Sb 206.836  Recovery = 100.66%
Se 196.026†              738.8      502.68 ug/L          2.673      502.68 ppb          2.673   0.53%
   QC value within limits for Se 196.026  Recovery = 100.54%
Si 251.611†            74845.7      2418.7 ug/L         18.17      2418.7 ppb         18.17   0.75%
   QC value within limits for Si 251.611  Recovery = 96.75%
Sn 189.927†             2697.0      486.98 ug/L          4.394      486.98 ppb          4.394   0.90%
   QC value within limits for Sn 189.927  Recovery = 97.40%
Sr 421.552†            72433.9      503.86 ug/L          4.714      503.86 ppb          4.714   0.94%
   QC value within limits for Sr 421.552  Recovery = 100.77%
Ti 334.940†           305972.7      481.98 ug/L          3.179      481.98 ppb          3.179   0.66%
   QC value within limits for Ti 334.940  Recovery = 96.40%
Tl 190.801†             1508.4      488.43 ug/L          2.574      488.43 ppb          2.574   0.53%
   QC value within limits for Tl 190.801  Recovery = 97.69%
U 409.014†             17068.8      474.97 ug/L          4.667      474.97 ppb          4.667   0.98%
   QC value within limits for U 409.014  Recovery = 94.99%
V 292.402†             68864.6      487.48 ug/L          3.355      487.48 ppb          3.355   0.69%
   QC value within limits for V 292.402  Recovery = 97.50%
Zn 213.857†            48151.6      481.60 ug/L          3.627      481.60 ppb          3.627   0.75%
   QC value within limits for Zn 213.857  Recovery = 96.32%
SiO2†                  74412.5      5153.1 ug/L         54.71      5153.1 ppb         54.71   1.06%
   QC value within limits for SiO2  Recovery = 96.37%
All analyte(s) passed QC.
```

Sequence No.: 16
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/25/2010 15:38:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc Radial	3830.8	3830.8	99.3	%			15:40:41
1	Y RADIAL	4328.3	4328.3	97.23	%			15:40:21
1	Al 396.153Radial†	-130.5	-16.3	-15.417	ug/L	-15.417	ppb	15:40:21
1	Ca 317.933Radial†	23.2	4.6	10.136	ug/L	10.136	ppb	15:40:41
1	Fe 238.204 Radial†	11.3	-0.3	-4.7671	ug/L	-4.7671	ppb	15:40:41
1	K 766.490 Radial†	2839.5	93.9	17.973	ug/L	17.973	ppb	15:40:21
1	Mg 279.077 IEC†	2.3	1.1	59.322	ug/L	59.322	ppb	15:40:41
1	Na 589.592 Radial†	-854.8	41.0	12.757	ug/L	12.757	ppb	15:40:21
1	Sr 421.552†	26.8	18.3	0.1270	ug/L	0.1270	ppb	15:40:21
1	Sc 361.383	916923.8	916923.8	104.19	%			15:41:38
1	Y 371.029	768910.2	768910.2	101.09	%			15:41:38
1	Ag 328.068†	303.6	57.2	0.2629	ug/L	0.2629	ppb	15:41:43
1	As 188.979†	-13.3	7.1	3.1672	ug/L	3.1672	ppb	15:42:03
1	B 249.677†	-382.0	-88.6	-2.1729	ug/L	-2.1729	ppb	15:42:03
1	Ba 233.527†	3.4	-7.8	-0.0607	ug/L	-0.0607	ppb	15:42:03
1	Be 313.107†	-3778.9	-68.8	-0.0258	ug/L	-0.0258	ppb	15:41:43
1	Cd 226.502†	-176.1	7.2	0.0842	ug/L	0.0842	ppb	15:42:03
1	Co 228.616†	-49.9	17.0	0.3601	ug/L	0.3601	ppb	15:42:03
1	Cr 267.716†	79.2	-9.1	-0.1030	ug/L	-0.1030	ppb	15:42:03
1	Cu 324.752†	5999.9	-196.4	-0.6001	ug/L	-0.6001	ppb	15:41:43
1	Mn 257.610†	484.3	-12.9	-0.0176	ug/L	-0.0176	ppb	15:42:03
1	Mo 202.031†	24.5	18.9	1.3905	ug/L	1.3905	ppb	15:42:03
1	Ni 231.604†	77.4	-8.5	-0.2177	ug/L	-0.2177	ppb	15:42:03
1	P 214.914†	206.6	-7.5	-4.4024	ug/L	-4.4024	ppb	15:42:03
1	Pb 220.353†	-44.3	-103.7	-12.826	ug/L	-12.826	ppb	15:42:03
1	S 181.975 Axial†	50.7	12.9	18.146	ug/L	18.146	ppb	15:42:03
1	Sb 206.836†	43.7	2.9	1.0542	ug/L	1.0542	ppb	15:42:03
1	Se 196.026†	-21.3	4.3	2.8369	ug/L	2.8369	ppb	15:42:03
1	Si 251.611†	614.1	24.7	0.7824	ug/L	0.7824	ppb	15:42:03
1	Sn 189.927†	11.8	1.9	0.3413	ug/L	0.3413	ppb	15:42:03
1	Ti 334.940†	-1487.5	-17.8	-0.0328	ug/L	-0.0328	ppb	15:41:43
1	Tl 190.801†	-34.8	-6.0	-1.9212	ug/L	-1.9212	ppb	15:42:03
1	U 409.014†	-2916.7	102.4	2.8609	ug/L	2.8609	ppb	15:41:38
1	V 292.402†	-1496.8	32.1	0.2511	ug/L	0.2511	ppb	15:41:43
1	Zn 213.857†	796.0	24.5	0.2507	ug/L	0.2507	ppb	15:42:03
1	SiO2†	616.4	3.4	0.1984	ug/L	0.1984	ppb	15:43:09
2	Sc Radial	3830.3	3830.3	99.3	%			15:41:06
2	Y RADIAL	4387.9	4387.9	98.57	%			15:40:46
2	Al 396.153Radial†	-131.5	-17.4	-16.354	ug/L	-16.354	ppb	15:40:46
2	Ca 317.933Radial†	22.1	3.6	7.8009	ug/L	7.8009	ppb	15:41:06
2	Fe 238.204 Radial†	9.9	-1.7	-26.953	ug/L	-26.953	ppb	15:41:06
2	K 766.490 Radial†	2812.0	66.5	12.744	ug/L	12.744	ppb	15:40:46
2	Mg 279.077 IEC†	4.3	3.2	168.69	ug/L	168.69	ppb	15:41:06
2	Na 589.592 Radial†	-902.9	-7.5	-2.3304	ug/L	-2.3304	ppb	15:40:46
2	Sr 421.552†	45.0	36.6	0.2547	ug/L	0.2547	ppb	15:40:46
2	Sc 361.383	922108.3	922108.3	104.78	%			15:42:08
2	Y 371.029	773456.1	773456.1	101.69	%			15:42:08
2	Ag 328.068†	242.4	-2.8	-0.0221	ug/L	-0.0221	ppb	15:42:13
2	As 188.979†	-25.7	-4.6	-2.0610	ug/L	-2.0610	ppb	15:42:33
2	B 249.677†	-419.8	-122.7	-3.0022	ug/L	-3.0022	ppb	15:42:33
2	Ba 233.527†	21.0	9.0	0.0703	ug/L	0.0703	ppb	15:42:33
2	Be 313.107†	-3663.2	62.1	0.0231	ug/L	0.0231	ppb	15:42:13
2	Cd 226.502†	-189.6	-4.8	-0.0529	ug/L	-0.0529	ppb	15:42:33
2	Co 228.616†	-60.9	6.7	0.1440	ug/L	0.1440	ppb	15:42:33
2	Cr 267.716†	82.0	-6.9	-0.0799	ug/L	-0.0799	ppb	15:42:33
2	Cu 324.752†	6015.6	-213.7	-0.6533	ug/L	-0.6533	ppb	15:42:13
2	Mn 257.610†	465.3	-33.6	-0.0479	ug/L	-0.0479	ppb	15:42:33
2	Mo 202.031†	18.9	13.3	0.9798	ug/L	0.9798	ppb	15:42:33
2	Ni 231.604†	78.3	-8.1	-0.2058	ug/L	-0.2058	ppb	15:42:33

2	P 214.914†	218.4	2.6	1.7338 ug/L	1.7338 ppb	15:42:33
2	Pb 220.353†	-27.8	-87.7	-10.846 ug/L	-10.846 ppb	15:42:33
2	S 181.975 Axial†	51.5	13.3	18.761 ug/L	18.761 ppb	15:42:33
2	Sb 206.836†	27.9	-12.4	-4.3566 ug/L	-4.3566 ppb	15:42:33
2	Se 196.026†	-27.5	-1.5	-1.0994 ug/L	-1.0994 ppb	15:42:33
2	Si 251.611†	604.0	11.7	0.3669 ug/L	0.3669 ppb	15:42:33
2	Sn 189.927†	7.1	-2.6	-0.4728 ug/L	-0.4728 ppb	15:42:33
2	Ti 334.940†	-1509.9	-31.2	-0.0624 ug/L	-0.0624 ppb	15:42:13
2	Tl 190.801†	-29.2	-0.5	-0.1490 ug/L	-0.1490 ppb	15:42:33
2	U 409.014†	-2987.7	50.3	1.4084 ug/L	1.4084 ppb	15:42:08
2	V 292.402†	-1523.1	15.0	0.1286 ug/L	0.1286 ppb	15:42:13
2	Zn 213.857†	793.0	17.4	0.1817 ug/L	0.1817 ppb	15:42:33
2	SiO2†	580.4	-34.2	-2.4032 ug/L	-2.4032 ppb	15:43:14
3	Sc Radial	3858.4	3858.4	100 %		15:41:31
3	Y RADIAL	4398.9	4398.9	98.81 %		15:41:11
3	Al 396.153Radial†	-123.5	-8.4	-7.8996 ug/L	-7.8996 ppb	15:41:11
3	Ca 317.933Radial†	16.6	-2.0	-4.4358 ug/L	-4.4358 ppb	15:41:31
3	Fe 238.204 Radial†	10.3	-1.4	-22.360 ug/L	-22.360 ppb	15:41:31
3	K 766.490 Radial†	2802.3	36.2	6.9312 ug/L	6.9312 ppb	15:41:11
3	Mg 279.077 IEC†	3.2	2.1	109.54 ug/L	109.54 ppb	15:41:31
3	Na 589.592 Radial†	-899.3	2.7	0.8554 ug/L	0.8554 ppb	15:41:11
3	Sr 421.552†	15.9	7.1	0.0496 ug/L	0.0496 ppb	15:41:11
3	Sc 361.383	936425.3	936425.3	106.40 %		15:42:39
3	Y 371.029	786015.7	786015.7	103.34 %		15:42:39
3	Ag 328.068†	228.6	-19.3	-0.0998 ug/L	-0.0998 ppb	15:42:44
3	As 188.979†	-18.1	3.0	1.3085 ug/L	1.3085 ppb	15:43:04
3	B 249.677†	-383.2	-82.2	-2.0109 ug/L	-2.0109 ppb	15:43:04
3	Ba 233.527†	10.5	-1.2	-0.0091 ug/L	-0.0091 ppb	15:43:04
3	Be 313.107†	-3640.8	136.6	0.0510 ug/L	0.0510 ppb	15:42:44
3	Cd 226.502†	-182.6	4.5	0.0561 ug/L	0.0561 ppb	15:43:04
3	Co 228.616†	-52.3	15.7	0.3316 ug/L	0.3316 ppb	15:43:04
3	Cr 267.716†	61.0	-27.8	-0.3157 ug/L	-0.3157 ppb	15:43:04
3	Cu 324.752†	5969.5	-344.9	-1.0551 ug/L	-1.0551 ppb	15:42:44
3	Mn 257.610†	473.9	-32.3	-0.0435 ug/L	-0.0435 ppb	15:43:04
3	Mo 202.031†	17.4	11.7	0.8585 ug/L	0.8585 ppb	15:43:04
3	Ni 231.604†	77.3	-10.2	-0.2601 ug/L	-0.2601 ppb	15:43:04
3	P 214.914†	216.0	-2.9	-1.4951 ug/L	-1.4951 ppb	15:43:04
3	Pb 220.353†	-25.2	-84.9	-10.497 ug/L	-10.497 ppb	15:43:04
3	S 181.975 Axial†	42.2	3.8	5.3594 ug/L	5.3594 ppb	15:43:04
3	Sb 206.836†	42.7	1.1	0.4039 ug/L	0.4039 ppb	15:43:04
3	Se 196.026†	-29.9	-3.4	-2.2779 ug/L	-2.2779 ppb	15:43:04
3	Si 251.611†	614.5	12.8	0.4035 ug/L	0.4035 ppb	15:43:04
3	Sn 189.927†	8.1	-1.8	-0.3300 ug/L	-0.3300 ppb	15:43:04
3	Ti 334.940†	-1491.8	7.9	0.0005 ug/L	0.0005 ppb	15:42:44
3	Tl 190.801†	-22.9	5.9	1.8994 ug/L	1.8994 ppb	15:43:04
3	U 409.014†	-2867.8	206.6	5.7731 ug/L	5.7731 ppb	15:42:39
3	V 292.402†	-1510.7	48.9	0.3701 ug/L	0.3701 ppb	15:42:44
3	Zn 213.857†	792.6	5.5	0.0619 ug/L	0.0619 ppb	15:43:04
3	SiO2†	561.4	-60.6	-4.2275 ug/L	-4.2275 ppb	15:43:19

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	925152.5	105.12	%	1.148				1.09%
Sc Radial	3839.8	99.6	%	0.42				0.42%
Y 371.029	776127.3	102.04	%	1.165				1.14%
Y RADIAL	4371.7	98.20	%	0.853				0.87%
Ag 328.068†	11.7	0.0470	ug/L	0.19095	0.0470	ppb	0.19095	406.53%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-14.0	-13.224	ug/L	4.6344	-13.224	ppb	4.6344	35.05%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	1.8	0.8049	ug/L	2.65022	0.8049	ppb	2.65022	329.26%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-97.8	-2.3953	ug/L	0.53177	-2.3953	ppb	0.53177	22.20%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	0.0	0.0002	ug/L	0.06598	0.0002	ppb	0.06598	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	43.3	0.0161	ug/L	0.03887	0.0161	ppb	0.03887	241.12%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.1	4.5002	ug/L	7.82640	4.5002	ppb	7.82640	173.91%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†                2.3      0.0291 ug/L       0.07239      0.0291 ppb        0.07239 248.51%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†               13.1      0.2786 ug/L       0.11739      0.2786 ppb        0.11739  42.14%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -14.6     -0.1662 ug/L       0.12998     -0.1662 ppb        0.12998  78.20%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -251.6     -0.7695 ug/L       0.24877     -0.7695 ppb        0.24877  32.33%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -1.1     -18.027 ug/L       11.7105     -18.027 ppb        11.7105  64.96%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         65.5      12.549 ug/L        5.5235      12.549 ppb         5.5235  44.01%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            2.1      112.52 ug/L        54.744      112.52 ppb         54.744  48.65%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              -26.3     -0.0363 ug/L       0.01638     -0.0363 ppb        0.01638  45.10%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               14.6      1.0763 ug/L       0.27881      1.0763 ppb        0.27881  25.91%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        12.1      3.7608 ug/L       7.95233      3.7608 ppb        7.95233 211.46%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -8.9     -0.2279 ug/L       0.02852     -0.2279 ppb        0.02852  12.52%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -2.6     -1.3879 ug/L       3.06951     -1.3879 ppb        3.06951 221.16%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -92.1     -11.389 ug/L        1.2563     -11.389 ppb         1.2563  11.03%
   QC value less than the lower limit for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          10.0      14.089 ug/L        7.5662      14.089 ppb         7.5662  53.70%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -2.8     -0.9662 ug/L       2.95413     -0.9662 ppb        2.95413 305.76%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -0.2     -0.1801 ug/L       2.67843     -0.1801 ppb        2.67843 >999.9%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†               16.4      0.5176 ug/L       0.23004      0.5176 ppb        0.23004  44.44%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -0.9     -0.1538 ug/L       0.43468     -0.1538 ppb        0.43468 282.54%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               20.7      0.1437 ug/L       0.10357      0.1437 ppb        0.10357  72.06%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -13.7     -0.0316 ug/L       0.03147     -0.0316 ppb        0.03147  99.71%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -0.2     -0.0569 ug/L       1.91195     -0.0569 ppb        1.91195 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               119.8      3.3475 ug/L       2.22267      3.3475 ppb        2.22267  66.40%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                32.0      0.2499 ug/L       0.12073      0.2499 ppb        0.12073  48.30%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               15.8      0.1647 ug/L       0.09556      0.1647 ppb        0.09556  58.01%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    -30.5     -2.1441 ug/L       2.22429     -2.1441 ppb        2.22429 103.74%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Sequence No.: 24
Sample ID: 245807001|948088|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 2/25/2010 16:33:11
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245807001|948088|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3925.9	3925.9	102	%			16:35:24
1	Y RADIAL	4491.3	4491.3	100.9	%			16:35:04
1	Al 396.153Radial†	-127.3	-10.0	-9.4306	ug/L	-9.4306	ppb	16:35:04
1	Ca 317.933Radial†	36.0	16.7	36.497	ug/L	36.497	ppb	16:35:24
1	Fe 238.204 Radial†	11.2	-0.7	-11.149	ug/L	-11.149	ppb	16:35:24
1	K 766.490 Radial†	3784.0	952.5	182.42	ug/L	182.42	ppb	16:35:04
1	Mg 279.077 IEC†	2.9	1.7	89.221	ug/L	89.221	ppb	16:35:24
1	Na 589.592 Radial†	-399.7	509.0	158.39	ug/L	158.39	ppb	16:35:04
1	Sr 421.552†	99.9	89.4	0.6220	ug/L	0.6220	ppb	16:35:04
1	Sc 361.383	904982.4	904982.4	102.83	%			16:36:21
1	Y 371.029	760262.0	760262.0	99.951	%			16:36:21
1	Ag 328.068†	149.9	-88.4	-0.4114	ug/L	-0.4114	ppb	16:36:21
1	As 188.979†	-22.9	-2.3	-1.0376	ug/L	-1.0376	ppb	16:36:41
1	B 249.677†	58.2	334.6	8.2028	ug/L	8.2028	ppb	16:36:41
1	Ba 233.527†	43.2	30.9	0.2436	ug/L	0.2436	ppb	16:36:41
1	Be 313.107†	-3757.2	-95.5	-0.0351	ug/L	-0.0351	ppb	16:36:21
1	Cd 226.502†	-206.5	-24.6	-0.2852	ug/L	-0.2852	ppb	16:36:41
1	Co 228.616†	-62.1	4.4	0.0953	ug/L	0.0953	ppb	16:36:41
1	Cr 267.716†	85.2	-2.3	-0.0254	ug/L	-0.0254	ppb	16:36:41
1	Cu 324.752†	6296.5	168.1	0.5125	ug/L	0.5125	ppb	16:36:21
1	Mn 257.610†	951.9	448.0	0.5056	ug/L	0.5056	ppb	16:36:41
1	Mo 202.031†	19.0	13.8	1.0177	ug/L	1.0177	ppb	16:36:41
1	Ni 231.604†	86.0	0.9	0.0223	ug/L	0.0223	ppb	16:36:41
1	P 214.914†	229.5	17.4	10.348	ug/L	10.348	ppb	16:36:41
1	Pb 220.353†	-20.7	-81.3	-10.061	ug/L	-10.061	ppb	16:36:41
1	S 181.975 Axial†	77.8	39.8	56.089	ug/L	56.089	ppb	16:36:41
1	Sb 206.836†	42.7	2.5	0.9205	ug/L	0.9205	ppb	16:36:41
1	Se 196.026†	-29.8	-4.3	-2.8480	ug/L	-2.8480	ppb	16:36:41
1	Si 251.611†	41278.8	39577.9	1282.1	ug/L	1282.1	ppb	16:36:21
1	Sn 189.927†	12.7	2.9	0.5376	ug/L	0.5376	ppb	16:36:41
1	Ti 334.940†	-1268.2	176.6	0.2768	ug/L	0.2768	ppb	16:36:21
1	Tl 190.801†	-36.8	-8.3	-2.6693	ug/L	-2.6693	ppb	16:36:41
1	U 409.014†	-3056.3	-70.3	-1.9621	ug/L	-1.9621	ppb	16:36:21
1	V 292.402†	-1448.6	59.9	0.4324	ug/L	0.4324	ppb	16:36:21
1	Zn 213.857†	805.1	43.5	0.4400	ug/L	0.4400	ppb	16:36:41
1	SiO2†	42158.9	40410.3	2805.6	ug/L	2805.6	ppb	16:37:37
2	Sc Radial	3928.3	3928.3	102	%			16:35:49
2	Y RADIAL	4443.9	4443.9	99.83	%			16:35:29
2	Al 396.153Radial†	-115.3	1.9	1.7647	ug/L	1.7647	ppb	16:35:29
2	Ca 317.933Radial†	31.5	12.3	26.806	ug/L	26.806	ppb	16:35:49
2	Fe 238.204 Radial†	11.6	-0.3	-4.7320	ug/L	-4.7320	ppb	16:35:49
2	K 766.490 Radial†	3799.7	965.6	184.93	ug/L	184.93	ppb	16:35:29
2	Mg 279.077 IEC†	1.1	-0.1	-6.7766	ug/L	-6.7766	ppb	16:35:49
2	Na 589.592 Radial†	-409.9	499.2	155.34	ug/L	155.34	ppb	16:35:29
2	Sr 421.552†	28.2	18.9	0.1313	ug/L	0.1313	ppb	16:35:29
2	Sc 361.383	916638.5	916638.5	104.15	%			16:36:46
2	Y 371.029	770227.5	770227.5	101.26	%			16:36:46
2	Ag 328.068†	184.5	-57.1	-0.2699	ug/L	-0.2699	ppb	16:36:46
2	As 188.979†	-19.1	1.6	0.7023	ug/L	0.7023	ppb	16:37:06
2	B 249.677†	79.5	354.4	8.6859	ug/L	8.6859	ppb	16:37:06
2	Ba 233.527†	47.7	34.7	0.2723	ug/L	0.2723	ppb	16:37:06
2	Be 313.107†	-3739.3	-31.9	-0.0114	ug/L	-0.0114	ppb	16:36:46
2	Cd 226.502†	-201.2	-17.0	-0.1966	ug/L	-0.1966	ppb	16:37:06
2	Co 228.616†	-68.0	-0.4	-0.0091	ug/L	-0.0091	ppb	16:37:06
2	Cr 267.716†	79.6	-8.7	-0.0993	ug/L	-0.0993	ppb	16:37:06
2	Cu 324.752†	6256.1	51.4	0.1552	ug/L	0.1552	ppb	16:36:46
2	Mn 257.610†	909.2	395.3	0.4501	ug/L	0.4501	ppb	16:37:06
2	Mo 202.031†	6.0	1.1	0.0786	ug/L	0.0786	ppb	16:37:06
2	Ni 231.604†	68.3	-17.2	-0.4386	ug/L	-0.4386	ppb	16:37:06

2	P 214.914†	221.0	6.4	3.8227	ug/L	3.8227 ppb	16:37:06
2	Pb 220.353†	-2.8	-63.8	-7.8958	ug/L	-7.8958 ppb	16:37:06
2	S 181.975 Axial†	77.5	38.5	54.322	ug/L	54.322 ppb	16:37:06
2	Sb 206.836†	38.0	-2.6	-0.8609	ug/L	-0.8609 ppb	16:37:06
2	Se 196.026†	-23.7	2.0	1.3170	ug/L	1.3170 ppb	16:37:06
2	Si 251.611†	41886.1	39650.5	1284.5	ug/L	1284.5 ppb	16:36:46
2	Sn 189.927†	25.7	15.2	2.7529	ug/L	2.7529 ppb	16:37:06
2	Ti 334.940†	-1327.9	134.9	0.2158	ug/L	0.2158 ppb	16:36:46
2	Tl 190.801†	-46.2	-16.9	-5.4445	ug/L	-5.4445 ppb	16:37:06
2	U 409.014†	-2941.6	77.6	2.1671	ug/L	2.1671 ppb	16:36:46
2	V 292.402†	-1572.4	-40.9	-0.2804	ug/L	-0.2804 ppb	16:36:46
2	Zn 213.857†	814.4	42.4	0.4317	ug/L	0.4317 ppb	16:37:06
2	SiO2†	41240.6	39007.3	2708.2	ug/L	2708.2 ppb	16:37:42
3	Sc Radial	3913.5	3913.5	101	%		16:36:14
3	Y RADIAL	4502.7	4502.7	101.1	%		16:35:54
3	Al 396.153Radial†	-116.3	0.4	0.3522	ug/L	0.3522 ppb	16:35:54
3	Ca 317.933Radial†	32.0	12.9	28.106	ug/L	28.106 ppb	16:36:14
3	Fe 238.204 Radial†	10.4	-1.5	-23.730	ug/L	-23.730 ppb	16:36:14
3	K 766.490 Radial†	3727.9	909.0	174.07	ug/L	174.07 ppb	16:35:54
3	Mg 279.077 IEC†	3.1	1.9	98.141	ug/L	98.141 ppb	16:36:14
3	Na 589.592 Radial†	-374.9	532.2	165.59	ug/L	165.59 ppb	16:35:54
3	Sr 421.552†	71.7	61.9	0.4306	ug/L	0.4306 ppb	16:35:54
3	Sc 361.383	914102.9	914102.9	103.87	%		16:37:11
3	Y 371.029	768408.6	768408.6	101.02	%		16:37:11
3	Ag 328.068†	224.8	-17.8	-0.0878	ug/L	-0.0878 ppb	16:37:11
3	As 188.979†	-29.1	-8.1	-3.6013	ug/L	-3.6013 ppb	16:37:31
3	B 249.677†	60.1	335.8	8.2356	ug/L	8.2356 ppb	16:37:31
3	Ba 233.527†	49.8	36.9	0.2889	ug/L	0.2889 ppb	16:37:31
3	Be 313.107†	-3681.7	13.6	0.0055	ug/L	0.0055 ppb	16:37:11
3	Cd 226.502†	-187.7	-4.5	-0.0511	ug/L	-0.0511 ppb	16:37:31
3	Co 228.616†	-79.5	-11.7	-0.2434	ug/L	-0.2434 ppb	16:37:31
3	Cr 267.716†	105.6	16.5	0.1846	ug/L	0.1846 ppb	16:37:31
3	Cu 324.752†	6311.4	121.3	0.3703	ug/L	0.3703 ppb	16:37:11
3	Mn 257.610†	957.7	444.4	0.4999	ug/L	0.4999 ppb	16:37:31
3	Mo 202.031†	17.2	11.9	0.8752	ug/L	0.8752 ppb	16:37:31
3	Ni 231.604†	69.0	-16.3	-0.4171	ug/L	-0.4171 ppb	16:37:31
3	P 214.914†	225.0	10.8	6.4460	ug/L	6.4460 ppb	16:37:31
3	Pb 220.353†	-19.8	-80.3	-9.9229	ug/L	-9.9229 ppb	16:37:31
3	S 181.975 Axial†	71.3	32.9	46.320	ug/L	46.320 ppb	16:37:31
3	Sb 206.836†	37.8	-2.7	-0.8876	ug/L	-0.8876 ppb	16:37:31
3	Se 196.026†	-23.4	2.2	1.3726	ug/L	1.3726 ppb	16:37:31
3	Si 251.611†	41906.7	39781.9	1288.7	ug/L	1288.7 ppb	16:37:11
3	Sn 189.927†	22.7	12.4	2.2470	ug/L	2.2470 ppb	16:37:31
3	Ti 334.940†	-1355.1	105.3	0.1631	ug/L	0.1631 ppb	16:37:11
3	Tl 190.801†	-39.4	-10.5	-3.3817	ug/L	-3.3817 ppb	16:37:31
3	U 409.014†	-3143.5	-124.6	-3.4781	ug/L	-3.4781 ppb	16:37:11
3	V 292.402†	-1539.8	-13.7	-0.0852	ug/L	-0.0852 ppb	16:37:11
3	Zn 213.857†	806.1	36.7	0.3760	ug/L	0.3760 ppb	16:37:31
3	SiO2†	41290.0	39164.7	2719.1	ug/L	2719.1 ppb	16:37:47

Mean Data: 245807001|948088|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	911907.9	103.62	%	0.697				0.67%
Sc Radial	3922.6	102	%	0.2				0.20%
Y 371.029	766299.4	100.74	%	0.698				0.69%
Y RADIAL	4479.3	100.6	%	0.70				0.70%
Ag 328.068†	-54.4	-0.2564	ug/L	0.16221	-0.2564	ppb	0.16221	63.27%
Al 396.153Radial†	-2.6	-2.4379	ug/L	6.09689	-2.4379	ppb	6.09689	250.09%
As 188.979†	-2.9	-1.3122	ug/L	2.16486	-1.3122	ppb	2.16486	164.98%
B 249.677†	341.6	8.3748	ug/L	0.26993	8.3748	ppb	0.26993	3.22%
Ba 233.527†	34.2	0.2683	ug/L	0.02290	0.2683	ppb	0.02290	8.54%
Be 313.107†	-37.9	-0.0137	ug/L	0.02036	-0.0137	ppb	0.02036	148.83%
Ca 317.933Radial†	14.0	30.469	ug/L	5.2601	30.469	ppb	5.2601	17.26%
Cd 226.502†	-15.4	-0.1776	ug/L	0.11816	-0.1776	ppb	0.11816	66.52%
Co 228.616†	-2.6	-0.0524	ug/L	0.17350	-0.0524	ppb	0.17350	331.18%
Cr 267.716†	1.8	0.0199	ug/L	0.14729	0.0199	ppb	0.14729	738.44%
Cu 324.752†	113.6	0.3460	ug/L	0.17989	0.3460	ppb	0.17989	51.99%
Fe 238.204 Radial†	-0.8	-13.204	ug/L	9.6640	-13.204	ppb	9.6640	73.19%
K 766.490 Radial†	942.4	180.48	ug/L	5.686	180.48	ppb	5.686	3.15%

Mg 279.077 IEC†	1.1	60.195	ug/L	58.1706	60.195	ppb	58.1706	96.64%
Mn 257.610†	429.2	0.4852	ug/L	0.03052	0.4852	ppb	0.03052	6.29%
Mo 202.031†	8.9	0.6572	ug/L	0.50610	0.6572	ppb	0.50610	77.01%
Na 589.592 Radial†	513.5	159.77	ug/L	5.262	159.77	ppb	5.262	3.29%
Ni 231.604†	-10.9	-0.2778	ug/L	0.26009	-0.2778	ppb	0.26009	93.62%
P 214.914†	11.5	6.8723	ug/L	3.28363	6.8723	ppb	3.28363	47.78%
Pb 220.353†	-75.1	-9.2931	ug/L	1.21204	-9.2931	ppb	1.21204	13.04%
S 181.975 Axial†	37.1	52.244	ug/L	5.2060	52.244	ppb	5.2060	9.96%
Sb 206.836†	-0.9	-0.2760	ug/L	1.03629	-0.2760	ppb	1.03629	375.51%
Se 196.026†	-0.0	-0.0528	ug/L	2.42085	-0.0528	ppb	2.42085	>999.9%
Si 251.611†	39670.1	1285.1	ug/L	3.35	1285.1	ppb	3.35	0.26%
Sn 189.927†	10.2	1.8458	ug/L	1.16087	1.8458	ppb	1.16087	62.89%
Sr 421.552†	56.8	0.3946	ug/L	0.24731	0.3946	ppb	0.24731	62.67%
Ti 334.940†	138.9	0.2186	ug/L	0.05689	0.2186	ppb	0.05689	26.03%
Tl 190.801†	-11.9	-3.8318	ug/L	1.44132	-3.8318	ppb	1.44132	37.61%
U 409.014†	-39.1	-1.0910	ug/L	2.92170	-1.0910	ppb	2.92170	267.79%
V 292.402†	1.7	0.0223	ug/L	0.36834	0.0223	ppb	0.36834	>999.9%
Zn 213.857†	40.9	0.4159	ug/L	0.03483	0.4159	ppb	0.03483	8.37%
SiO2†	39527.4	2744.3	ug/L	53.36	2744.3	ppb	53.36	1.94%

Sequence No.: 25
Sample ID: 245807002|948088|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 2/25/2010 16:39:57
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 245807002|948088|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc Radial	3973.7	3973.7	103	%			16:41:50
1	Y RADIAL	4425.0	4425.0	99.40	%			16:41:50
1	Al 396.153Radial†	-115.3	3.1	2.8751	ug/L	2.8751	ppb	16:41:50
1	Ca 317.933Radial†	34.9	15.2	33.179	ug/L	33.179	ppb	16:42:10
1	Fe 238.204 Radial†	10.9	-1.1	-18.293	ug/L	-18.293	ppb	16:42:10
1	K 766.490 Radial†	3367.3	503.4	96.370	ug/L	96.370	ppb	16:41:50
1	Mg 279.077 IEC†	0.7	-0.5	-25.592	ug/L	-25.592	ppb	16:42:10
1	Na 589.592 Radial†	-436.1	478.4	148.87	ug/L	148.87	ppb	16:41:50
1	Sr 421.552†	91.6	80.1	0.5571	ug/L	0.5571	ppb	16:41:50
1	Sc 361.383	915062.4	915062.4	103.98	%			16:43:07
1	Y 371.029	768853.2	768853.2	101.08	%			16:43:07
1	Ag 328.068†	260.4	16.3	0.0681	ug/L	0.0681	ppb	16:43:07
1	As 188.979†	-23.5	-2.7	-1.1957	ug/L	-1.1957	ppb	16:43:27
1	B 249.677†	119.5	392.9	9.6339	ug/L	9.6339	ppb	16:43:27
1	Ba 233.527†	50.0	37.0	0.2902	ug/L	0.2902	ppb	16:43:27
1	Be 313.107†	-3589.2	106.3	0.0404	ug/L	0.0404	ppb	16:43:07
1	Cd 226.502†	-193.6	-10.0	-0.1147	ug/L	-0.1147	ppb	16:43:27
1	Co 228.616†	-66.9	0.5	0.0121	ug/L	0.0121	ppb	16:43:27
1	Cr 267.716†	89.0	0.5	0.0030	ug/L	0.0030	ppb	16:43:27
1	Cu 324.752†	6245.4	51.5	0.1554	ug/L	0.1554	ppb	16:43:07
1	Mn 257.610†	1032.1	514.9	0.5859	ug/L	0.5859	ppb	16:43:27
1	Mo 202.031†	18.7	13.3	0.9771	ug/L	0.9771	ppb	16:43:27
1	Ni 231.604†	75.6	-10.0	-0.2563	ug/L	-0.2563	ppb	16:43:27
1	P 214.914†	222.8	8.5	5.0972	ug/L	5.0972	ppb	16:43:27
1	Pb 220.353†	-24.3	-84.5	-10.453	ug/L	-10.453	ppb	16:43:27
1	S 181.975 Axial†	77.4	38.6	54.479	ug/L	54.479	ppb	16:43:27
1	Sb 206.836†	33.6	-6.7	-2.3410	ug/L	-2.3410	ppb	16:43:27
1	Se 196.026†	-29.5	-3.6	-2.4394	ug/L	-2.4394	ppb	16:43:27
1	Si 251.611†	45738.8	43425.1	1406.8	ug/L	1406.8	ppb	16:43:07
1	Sn 189.927†	9.1	-0.7	-0.1176	ug/L	-0.1176	ppb	16:43:27
1	Ti 334.940†	-1253.5	204.3	0.3281	ug/L	0.3281	ppb	16:43:07
1	Tl 190.801†	-46.8	-17.5	-5.6330	ug/L	-5.6330	ppb	16:43:27
1	U 409.014†	-2978.1	37.7	1.0539	ug/L	1.0539	ppb	16:43:07
1	V 292.402†	-1550.3	-22.4	-0.1385	ug/L	-0.1385	ppb	16:43:07
1	Zn 213.857†	892.5	119.0	1.2052	ug/L	1.2052	ppb	16:43:27
1	SiO2†	45620.8	43288.1	3005.4	ug/L	3005.4	ppb	16:44:23
2	Sc Radial	4033.9	4033.9	105	%			16:42:15
2	Y RADIAL	4478.2	4478.2	100.6	%			16:42:15
2	Al 396.153Radial†	-105.8	13.9	13.065	ug/L	13.065	ppb	16:42:15
2	Ca 317.933Radial†	34.6	14.4	31.492	ug/L	31.492	ppb	16:42:35
2	Fe 238.204 Radial†	10.6	-1.5	-24.363	ug/L	-24.363	ppb	16:42:35
2	K 766.490 Radial†	3367.2	454.5	87.001	ug/L	87.001	ppb	16:42:15
2	Mg 279.077 IEC†	2.3	1.0	54.501	ug/L	54.501	ppb	16:42:35
2	Na 589.592 Radial†	-455.9	465.8	144.94	ug/L	144.94	ppb	16:42:15
2	Sr 421.552†	18.9	9.4	0.0649	ug/L	0.0649	ppb	16:42:15
2	Sc 361.383	898432.7	898432.7	102.09	%			16:43:32
2	Y 371.029	753783.4	753783.4	99.099	%			16:43:32
2	Ag 328.068†	214.9	-23.6	-0.1125	ug/L	-0.1125	ppb	16:43:32
2	As 188.979†	-34.5	-13.9	-6.1807	ug/L	-6.1807	ppb	16:43:52
2	B 249.677†	108.6	384.4	9.4240	ug/L	9.4240	ppb	16:43:52
2	Ba 233.527†	32.2	20.5	0.1602	ug/L	0.1602	ppb	16:43:52
2	Be 313.107†	-3745.4	-110.6	-0.0404	ug/L	-0.0404	ppb	16:43:32
2	Cd 226.502†	-194.3	-14.1	-0.1627	ug/L	-0.1627	ppb	16:43:52
2	Co 228.616†	-62.2	3.9	0.0821	ug/L	0.0821	ppb	16:43:52
2	Cr 267.716†	109.1	21.8	0.2444	ug/L	0.2444	ppb	16:43:52
2	Cu 324.752†	6285.6	202.0	0.6178	ug/L	0.6178	ppb	16:43:32
2	Mn 257.610†	1026.6	527.9	0.5968	ug/L	0.5968	ppb	16:43:52
2	Mo 202.031†	8.8	4.0	0.2914	ug/L	0.2914	ppb	16:43:52
2	Ni 231.604†	81.1	-3.4	-0.0859	ug/L	-0.0859	ppb	16:43:52

2	P 214.914†	218.7	8.4	4.9828 ug/L	4.9828 ppb	16:43:52
2	Pb 220.353†	-25.9	-86.6	-10.704 ug/L	-10.704 ppb	16:43:52
2	S 181.975 Axial†	75.9	38.5	54.249 ug/L	54.249 ppb	16:43:52
2	Sb 206.836†	48.0	8.0	2.8266 ug/L	2.8266 ppb	16:43:52
2	Se 196.026†	-24.3	1.0	0.5493 ug/L	0.5493 ppb	16:43:52
2	Si 251.611†	46186.8	44678.2	1447.4 ug/L	1447.4 ppb	16:43:32
2	Sn 189.927†	10.7	1.0	0.1950 ug/L	0.1950 ppb	16:43:52
2	Ti 334.940†	-1172.2	261.6	0.4147 ug/L	0.4147 ppb	16:43:32
2	Tl 190.801†	-28.5	-0.5	-0.1548 ug/L	-0.1548 ppb	16:43:52
2	U 409.014†	-3193.2	-226.1	-6.3124 ug/L	-6.3124 ppb	16:43:32
2	V 292.402†	-1496.2	3.0	0.0173 ug/L	0.0173 ppb	16:43:32
2	Zn 213.857†	901.2	143.4	1.4506 ug/L	1.4506 ppb	16:43:52
2	SiO2†	45792.0	44268.0	3073.4 ug/L	3073.4 ppb	16:44:28
3	Sc Radial	4098.4	4098.4	106 %		16:42:40
3	Y RADIAL	4547.3	4547.3	102.1 %		16:42:40
3	Al 396.153Radial†	-108.2	13.2	12.425 ug/L	12.425 ppb	16:42:40
3	Ca 317.933Radial†	34.8	14.0	30.627 ug/L	30.627 ppb	16:43:00
3	Fe 238.204 Radial†	11.1	-1.2	-19.244 ug/L	-19.244 ppb	16:43:00
3	K 766.490 Radial†	3297.0	337.6	64.615 ug/L	64.615 ppb	16:42:40
3	Mg 279.077 IEC†	0.9	-0.3	-16.340 ug/L	-16.340 ppb	16:43:00
3	Na 589.592 Radial†	-386.8	537.6	167.29 ug/L	167.29 ppb	16:42:40
3	Sr 421.552†	32.6	21.9	0.1523 ug/L	0.1523 ppb	16:42:40
3	Sc 361.383	915312.2	915312.2	104.00 %		16:43:57
3	Y 371.029	769351.7	769351.7	101.15 %		16:43:57
3	Ag 328.068†	228.5	-14.4	-0.0714 ug/L	-0.0714 ppb	16:43:57
3	As 188.979†	-19.9	0.8	0.3398 ug/L	0.3398 ppb	16:44:17
3	B 249.677†	135.5	408.3	10.010 ug/L	10.010 ppb	16:44:17
3	Ba 233.527†	38.8	26.2	0.2056 ug/L	0.2056 ppb	16:44:17
3	Be 313.107†	-3743.9	-41.5	-0.0146 ug/L	-0.0146 ppb	16:43:57
3	Cd 226.502†	-187.9	-4.5	-0.0504 ug/L	-0.0504 ppb	16:44:17
3	Co 228.616†	-68.3	-0.8	-0.0182 ug/L	-0.0182 ppb	16:44:17
3	Cr 267.716†	116.7	27.1	0.3032 ug/L	0.3032 ppb	16:44:17
3	Cu 324.752†	6349.9	150.3	0.4581 ug/L	0.4581 ppb	16:43:57
3	Mn 257.610†	1011.6	495.0	0.5627 ug/L	0.5627 ppb	16:44:17
3	Mo 202.031†	-1.4	-6.0	-0.4466 ug/L	-0.4466 ppb	16:44:17
3	Ni 231.604†	87.5	1.3	0.0335 ug/L	0.0335 ppb	16:44:17
3	P 214.914†	232.4	17.6	10.529 ug/L	10.529 ppb	16:44:17
3	Pb 220.353†	-10.2	-71.0	-8.7785 ug/L	-8.7785 ppb	16:44:17
3	S 181.975 Axial†	75.9	37.1	52.370 ug/L	52.370 ppb	16:44:17
3	Sb 206.836†	40.6	0.1	-0.0082 ug/L	-0.0082 ppb	16:44:17
3	Se 196.026†	-14.7	10.6	6.9101 ug/L	6.9101 ppb	16:44:17
3	Si 251.611†	45903.9	43571.9	1411.5 ug/L	1411.5 ppb	16:43:57
3	Sn 189.927†	2.2	-7.3	-1.3141 ug/L	-1.3141 ppb	16:44:17
3	Ti 334.940†	-1207.5	248.9	0.3984 ug/L	0.3984 ppb	16:43:57
3	Tl 190.801†	-29.3	-0.8	-0.2426 ug/L	-0.2426 ppb	16:44:17
3	U 409.014†	-3098.9	-77.7	-2.1686 ug/L	-2.1686 ppb	16:43:57
3	V 292.402†	-1523.6	3.7	0.0175 ug/L	0.0175 ppb	16:43:57
3	Zn 213.857†	866.3	93.5	0.9460 ug/L	0.9460 ppb	16:44:17
3	SiO2†	45687.2	43340.0	3009.0 ug/L	3009.0 ppb	16:44:33

Mean Data: 245807002|948088|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	909602.4	103.36	%	1.099				1.06%
Sc Radial	4035.3	105	%	1.6				1.55%
Y 371.029	763996.1	100.44	%	1.163				1.16%
Y RADIAL	4483.5	100.7	%	1.38				1.37%
Ag 328.068†	-7.3	-0.0386	ug/L	0.09469	-0.0386	ppb	0.09469	245.19%
Al 396.153Radial†	10.1	9.4551	ug/L	5.70740	9.4551	ppb	5.70740	60.36%
As 188.979†	-5.3	-2.3455	ug/L	3.40895	-2.3455	ppb	3.40895	145.34%
B 249.677†	395.2	9.6892	ug/L	0.29668	9.6892	ppb	0.29668	3.06%
Ba 233.527†	27.9	0.2187	ug/L	0.06597	0.2187	ppb	0.06597	30.17%
Be 313.107†	-15.3	-0.0049	ug/L	0.04129	-0.0049	ppb	0.04129	849.34%
Ca 317.933Radial†	14.6	31.766	ug/L	1.2983	31.766	ppb	1.2983	4.09%
Cd 226.502†	-9.5	-0.1093	ug/L	0.05632	-0.1093	ppb	0.05632	51.54%
Co 228.616†	1.2	0.0253	ug/L	0.05146	0.0253	ppb	0.05146	203.01%
Cr 267.716†	16.4	0.1835	ug/L	0.15906	0.1835	ppb	0.15906	86.67%
Cu 324.752†	134.6	0.4105	ug/L	0.23484	0.4105	ppb	0.23484	57.21%
Fe 238.204 Radial†	-1.3	-20.633	ug/L	3.2651	-20.633	ppb	3.2651	15.82%
K 766.490 Radial†	431.8	82.662	ug/L	16.3161	82.662	ppb	16.3161	19.74%

Mg 279.077 IEC†	0.1	4.1897	ug/L	43.81617	4.1897	ppb	43.81617 >999.9%
Mn 257.610†	512.6	0.5818	ug/L	0.01743	0.5818	ppb	0.01743 3.00%
Mo 202.031†	3.7	0.2740	ug/L	0.71200	0.2740	ppb	0.71200 259.89%
Na 589.592 Radial†	494.0	153.70	ug/L	11.934	153.70	ppb	11.934 7.76%
Ni 231.604†	-4.0	-0.1029	ug/L	0.14565	-0.1029	ppb	0.14565 141.57%
P 214.914†	11.5	6.8696	ug/L	3.16943	6.8696	ppb	3.16943 46.14%
Pb 220.353†	-80.7	-9.9786	ug/L	1.04680	-9.9786	ppb	1.04680 10.49%
S 181.975 Axial†	38.1	53.699	ug/L	1.1566	53.699	ppb	1.1566 2.15%
Sb 206.836†	0.5	0.1591	ug/L	2.58786	0.1591	ppb	2.58786 >999.9%
Se 196.026†	2.6	1.6733	ug/L	4.77503	1.6733	ppb	4.77503 285.36%
Si 251.611†	43891.7	1421.9	ug/L	22.19	1421.9	ppb	22.19 1.56%
Sn 189.927†	-2.3	-0.4122	ug/L	0.79654	-0.4122	ppb	0.79654 193.22%
Sr 421.552†	37.1	0.2581	ug/L	0.26261	0.2581	ppb	0.26261 101.74%
Ti 334.940†	238.3	0.3804	ug/L	0.04603	0.3804	ppb	0.04603 12.10%
Tl 190.801†	-6.3	-2.0101	ug/L	3.13780	-2.0101	ppb	3.13780 156.10%
U 409.014†	-88.7	-2.4757	ug/L	3.69274	-2.4757	ppb	3.69274 149.16%
V 292.402†	-5.2	-0.0346	ug/L	0.09003	-0.0346	ppb	0.09003 260.35%
Zn 213.857†	118.6	1.2006	ug/L	0.25230	1.2006	ppb	0.25230 21.01%
SiO2†	43632.1	3029.3	ug/L	38.28	3029.3	ppb	38.28 1.26%

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/25/2010 16:46:44
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3853.1	3853.1	99.9	%			16:48:37
1	Y RADIAL	4262.5	4262.5	95.75	%			16:48:37
1	Al 396.153Radial†	5279.2	5399.5	5050.8	ug/L	5050.8	ppb	16:48:37
1	Ca 317.933Radial†	2359.8	2343.4	5110.4	ug/L	5110.4	ppb	16:48:57
1	Fe 238.204 Radial†	317.2	305.8	4957.4	ug/L	4957.4	ppb	16:48:57
1	K 766.490 Radial†	28601.3	25864.8	4949.2	ug/L	4949.2	ppb	16:48:37
1	Mg 279.077 IEC†	98.7	97.6	5151.2	ug/L	5151.2	ppb	16:48:57
1	Na 589.592 Radial†	30236.2	31168.1	9698.4	ug/L	9698.4	ppb	16:48:37
1	Sr 421.552†	69411.4	69472.0	483.25	ug/L	483.25	ppb	16:48:37
1	Sc 361.383	905210.8	905210.8	102.86	%			16:49:54
1	Y 371.029	750007.9	750007.9	98.603	%			16:49:54
1	Ag 328.068†	108672.9	105420.9	492.91	ug/L	492.91	ppb	16:49:59
1	As 188.979†	1120.4	1109.2	497.47	ug/L	497.47	ppb	16:50:19
1	B 249.677†	19881.3	19607.2	478.35	ug/L	478.35	ppb	16:49:59
1	Ba 233.527†	64433.8	62633.4	493.54	ug/L	493.54	ppb	16:49:59
1	Be 313.107†	1343973.2	1310209.2	490.65	ug/L	490.65	ppb	16:49:54
1	Cd 226.502†	43760.4	42721.4	496.36	ug/L	496.36	ppb	16:49:59
1	Co 228.616†	24180.2	23573.6	495.20	ug/L	495.20	ppb	16:49:59
1	Cr 267.716†	45123.2	43785.0	492.27	ug/L	492.27	ppb	16:49:59
1	Cu 324.752†	170453.3	159764.7	486.77	ug/L	486.77	ppb	16:49:59
1	Mn 257.610†	444674.7	431848.3	492.27	ug/L	492.27	ppb	16:49:54
1	Mo 202.031†	6805.2	6611.5	487.42	ug/L	487.42	ppb	16:50:19
1	Ni 231.604†	20098.8	19457.9	496.27	ug/L	496.27	ppb	16:49:59
1	P 214.914†	4413.8	4085.4	2362.2	ug/L	2362.2	ppb	16:50:19
1	Pb 220.353†	4071.4	3897.2	483.64	ug/L	483.64	ppb	16:50:19
1	S 181.975 Axial†	762.9	705.9	994.32	ug/L	994.32	ppb	16:50:19
1	Sb 206.836†	1469.1	1389.3	507.81	ug/L	507.81	ppb	16:50:19
1	Se 196.026†	739.8	744.0	505.79	ug/L	505.79	ppb	16:50:19
1	Si 251.611†	78661.6	75912.5	2453.2	ug/L	2453.2	ppb	16:49:59
1	Sn 189.927†	2821.7	2733.9	493.63	ug/L	493.63	ppb	16:50:19
1	Ti 334.940†	317401.0	309996.6	488.32	ug/L	488.32	ppb	16:49:59
1	Tl 190.801†	1512.1	1497.6	485.00	ug/L	485.00	ppb	16:50:19
1	U 409.014†	14779.0	17270.4	480.60	ug/L	480.60	ppb	16:49:59
1	V 292.402†	70354.6	69869.5	494.59	ug/L	494.59	ppb	16:49:59
1	Zn 213.857†	51065.2	48907.7	489.18	ug/L	489.18	ppb	16:49:59
1	SiO2†	77599.5	74856.4	5183.8	ug/L	5183.8	ppb	16:51:27
2	Sc Radial	3946.8	3946.8	102	%			16:49:02
2	Y RADIAL	4312.7	4312.7	96.88	%			16:49:02
2	Al 396.153Radial†	5385.6	5378.0	5030.5	ug/L	5030.5	ppb	16:49:02
2	Ca 317.933Radial†	2371.6	2298.9	5013.3	ug/L	5013.3	ppb	16:49:22
2	Fe 238.204 Radial†	312.8	294.0	4766.2	ug/L	4766.2	ppb	16:49:22
2	K 766.490 Radial†	28820.3	25399.1	4860.0	ug/L	4860.0	ppb	16:49:02
2	Mg 279.077 IEC†	98.7	95.3	5030.2	ug/L	5030.2	ppb	16:49:22
2	Na 589.592 Radial†	30812.9	31013.0	9650.1	ug/L	9650.1	ppb	16:49:02
2	Sr 421.552†	70878.0	69255.6	481.75	ug/L	481.75	ppb	16:49:02
2	Sc 361.383	899258.0	899258.0	102.18	%			16:50:25
2	Y 371.029	744528.8	744528.8	97.882	%			16:50:25
2	Ag 328.068†	107458.4	104931.7	490.57	ug/L	490.57	ppb	16:50:30
2	As 188.979†	1106.3	1102.6	494.46	ug/L	494.46	ppb	16:50:50
2	B 249.677†	19490.3	19352.5	472.14	ug/L	472.14	ppb	16:50:30
2	Ba 233.527†	63694.7	62324.8	491.11	ug/L	491.11	ppb	16:50:30
2	Be 313.107†	1333663.7	1308769.2	490.11	ug/L	490.11	ppb	16:50:25
2	Cd 226.502†	43252.3	42505.8	493.87	ug/L	493.87	ppb	16:50:30
2	Co 228.616†	23884.6	23439.8	492.41	ug/L	492.41	ppb	16:50:30
2	Cr 267.716†	44576.0	43539.9	489.50	ug/L	489.50	ppb	16:50:30
2	Cu 324.752†	168055.0	158514.6	482.95	ug/L	482.95	ppb	16:50:30
2	Mn 257.610†	442291.4	432377.8	492.85	ug/L	492.85	ppb	16:50:25
2	Mo 202.031†	6796.1	6646.5	489.97	ug/L	489.97	ppb	16:50:50
2	Ni 231.604†	19914.9	19407.3	494.98	ug/L	494.98	ppb	16:50:30

2	P 214.914†	4376.0	4076.8	2357.9 ug/L	2357.9 ppb	16:50:50
2	Pb 220.353†	4061.8	3914.0	485.75 ug/L	485.75 ppb	16:50:50
2	S 181.975 Axial†	752.4	700.5	986.76 ug/L	986.76 ppb	16:50:50
2	Sb 206.836†	1472.3	1401.9	512.31 ug/L	512.31 ppb	16:50:50
2	Se 196.026†	734.6	743.7	505.00 ug/L	505.00 ppb	16:50:50
2	Si 251.611†	77540.8	75321.8	2434.1 ug/L	2434.1 ppb	16:50:30
2	Sn 189.927†	2800.8	2731.7	493.22 ug/L	493.22 ppb	16:50:50
2	Ti 334.940†	313396.9	308120.7	485.36 ug/L	485.36 ppb	16:50:30
2	Tl 190.801†	1517.5	1512.6	489.83 ug/L	489.83 ppb	16:50:50
2	U 409.014†	14624.4	17214.3	479.06 ug/L	479.06 ppb	16:50:30
2	V 292.402†	69521.4	69506.9	492.12 ug/L	492.12 ppb	16:50:30
2	Zn 213.857†	50397.9	48583.3	485.95 ug/L	485.95 ppb	16:50:30
2	SiO2†	77164.0	74929.5	5188.8 ug/L	5188.8 ppb	16:51:32
3	Sc Radial	3866.7	3866.7	100 %		16:49:27
3	Y RADIAL	4272.7	4272.7	95.98 %		16:49:27
3	Al 396.153Radial†	5350.4	5451.9	5100.1 ug/L	5100.1 ppb	16:49:27
3	Ca 317.933Radial†	2379.2	2354.6	5134.7 ug/L	5134.7 ppb	16:49:47
3	Fe 238.204 Radial†	315.9	303.4	4918.2 ug/L	4918.2 ppb	16:49:47
3	K 766.490 Radial†	28866.9	26029.0	4980.6 ug/L	4980.6 ppb	16:49:27
3	Mg 279.077 IEC†	98.4	97.0	5117.2 ug/L	5117.2 ppb	16:49:47
3	Na 589.592 Radial†	30432.2	31257.1	9726.1 ug/L	9726.1 ppb	16:49:27
3	Sr 421.552†	70254.6	70068.6	487.40 ug/L	487.40 ppb	16:49:27
3	Sc 361.383	905125.5	905125.5	102.85 %		16:50:56
3	Y 371.029	750418.5	750418.5	98.657 %		16:50:56
3	Ag 328.068†	107818.8	104600.4	489.08 ug/L	489.08 ppb	16:51:01
3	As 188.979†	1097.2	1086.7	487.43 ug/L	487.43 ppb	16:51:21
3	B 249.677†	19693.2	19426.1	473.93 ug/L	473.93 ppb	16:51:01
3	Ba 233.527†	63993.3	62211.0	490.22 ug/L	490.22 ppb	16:51:01
3	Be 313.107†	1343247.2	1309626.4	490.42 ug/L	490.42 ppb	16:50:56
3	Cd 226.502†	43462.5	42435.7	493.04 ug/L	493.04 ppb	16:51:01
3	Co 228.616†	23986.8	23387.8	491.30 ug/L	491.30 ppb	16:51:01
3	Cr 267.716†	44869.0	43542.0	489.54 ug/L	489.54 ppb	16:51:01
3	Cu 324.752†	168790.2	158163.2	481.89 ug/L	481.89 ppb	16:51:01
3	Mn 257.610†	443560.8	430806.0	491.08 ug/L	491.08 ppb	16:50:56
3	Mo 202.031†	6797.4	6604.6	486.90 ug/L	486.90 ppb	16:51:21
3	Ni 231.604†	19956.1	19320.9	492.78 ug/L	492.78 ppb	16:51:01
3	P 214.914†	4400.1	4072.5	2355.4 ug/L	2355.4 ppb	16:51:21
3	Pb 220.353†	4067.4	3893.7	483.23 ug/L	483.23 ppb	16:51:21
3	S 181.975 Axial†	754.8	698.0	983.25 ug/L	983.25 ppb	16:51:21
3	Sb 206.836†	1481.4	1401.4	512.06 ug/L	512.06 ppb	16:51:21
3	Se 196.026†	738.3	742.6	504.74 ug/L	504.74 ppb	16:51:21
3	Si 251.611†	77927.3	75205.7	2430.3 ug/L	2430.3 ppb	16:51:01
3	Sn 189.927†	2813.1	2725.9	492.18 ug/L	492.18 ppb	16:51:21
3	Ti 334.940†	315096.6	307785.1	484.84 ug/L	484.84 ppb	16:51:01
3	Tl 190.801†	1517.7	1503.1	486.77 ug/L	486.77 ppb	16:51:21
3	U 409.014†	14583.5	17081.7	475.34 ug/L	475.34 ppb	16:51:01
3	V 292.402†	70069.7	69599.0	492.69 ug/L	492.69 ppb	16:51:01
3	Zn 213.857†	50641.2	48500.1	485.10 ug/L	485.10 ppb	16:51:01
3	SiO2†	76011.8	73319.7	5077.1 ug/L	5077.1 ppb	16:51:37

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	903198.1	102.63	%	0.388				0.38%
Sc Radial	3888.9	101	%	1.3				1.30%
Y 371.029	748318.4	98.381	%	0.4323				0.44%
Y RADIAL	4282.6	96.20	%	0.597				0.62%
Ag 328.068†	104984.3	490.85	ug/L	1.930	490.85	ppb	1.930	0.39%
QC value within limits for Ag 328.068 Recovery = 98.17%								
Al 396.153Radial†	5409.8	5060.5	ug/L	35.79	5060.5	ppb	35.79	0.71%
QC value within limits for Al 396.153Radial Recovery = 101.21%								
As 188.979†	1099.5	493.12	ug/L	5.150	493.12	ppb	5.150	1.04%
QC value within limits for As 188.979 Recovery = 98.62%								
B 249.677†	19462.0	474.81	ug/L	3.194	474.81	ppb	3.194	0.67%
QC value within limits for B 249.677 Recovery = 94.96%								
Ba 233.527†	62389.7	491.62	ug/L	1.722	491.62	ppb	1.722	0.35%
QC value within limits for Ba 233.527 Recovery = 98.32%								
Be 313.107†	1309534.9	490.39	ug/L	0.274	490.39	ppb	0.274	0.06%
QC value within limits for Be 313.107 Recovery = 98.08%								
Ca 317.933Radial†	2332.3	5086.1	ug/L	64.26	5086.1	ppb	64.26	1.26%

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   QC value within limits for Ca 317.933Radial  Recovery = 101.72%
Cd 226.502†            42554.3      494.42 ug/L         1.727      494.42 ppb          1.727   0.35%
   QC value within limits for Cd 226.502  Recovery = 98.88%
Co 228.616†            23467.1      492.97 ug/L         2.008      492.97 ppb          2.008   0.41%
   QC value within limits for Co 228.616  Recovery = 98.59%
Cr 267.716†            43622.3      490.43 ug/L         1.588      490.43 ppb          1.588   0.32%
   QC value within limits for Cr 267.716  Recovery = 98.09%
Cu 324.752†           158814.2      483.87 ug/L         2.566      483.87 ppb          2.566   0.53%
   QC value within limits for Cu 324.752  Recovery = 96.77%
Fe 238.204 Radial†       301.1      4880.6 ug/L        100.98      4880.6 ppb         100.98   2.07%
   QC value within limits for Fe 238.204 Radial  Recovery = 97.61%
K 766.490 Radial†      25764.3      4930.0 ug/L         62.57      4930.0 ppb          62.57   1.27%
   QC value within limits for K 766.490 Radial  Recovery = 98.60%
Mg 279.077 IEC†           96.6      5099.5 ug/L         62.40      5099.5 ppb          62.40   1.22%
   QC value within limits for Mg 279.077 IEC  Recovery = 101.99%
Mn 257.610†           431677.4      492.06 ug/L         0.906      492.06 ppb          0.906   0.18%
   QC value within limits for Mn 257.610  Recovery = 98.41%
Mo 202.031†             6620.8      488.10 ug/L         1.646      488.10 ppb          1.646   0.34%
   QC value within limits for Mo 202.031  Recovery = 97.62%
Na 589.592 Radial†     31146.1      9691.5 ug/L         38.44      9691.5 ppb          38.44   0.40%
   QC value within limits for Na 589.592 Radial  Recovery = 96.92%
Ni 231.604†            19395.4      494.68 ug/L         1.766      494.68 ppb          1.766   0.36%
   QC value within limits for Ni 231.604  Recovery = 98.94%
P 214.914†              4078.2      2358.5 ug/L          3.41      2358.5 ppb           3.41   0.14%
   QC value within limits for P 214.914  Recovery = 94.34%
Pb 220.353†             3901.6      484.21 ug/L         1.351      484.21 ppb          1.351   0.28%
   QC value within limits for Pb 220.353  Recovery = 96.84%
S 181.975 Axial†         701.5      988.11 ug/L         5.655      988.11 ppb          5.655   0.57%
   QC value within limits for S 181.975 Axial  Recovery = 98.81%
Sb 206.836†             1397.5      510.73 ug/L         2.530      510.73 ppb          2.530   0.50%
   QC value within limits for Sb 206.836  Recovery = 102.15%
Se 196.026†              743.4      505.18 ug/L         0.544      505.18 ppb          0.544   0.11%
   QC value within limits for Se 196.026  Recovery = 101.04%
Si 251.611†            75480.0      2439.2 ug/L         12.28      2439.2 ppb          12.28   0.50%
   QC value within limits for Si 251.611  Recovery = 97.57%
Sn 189.927†             2730.5      493.01 ug/L         0.744      493.01 ppb          0.744   0.15%
   QC value within limits for Sn 189.927  Recovery = 98.60%
Sr 421.552†            69598.7      484.13 ug/L         2.929      484.13 ppb          2.929   0.60%
   QC value within limits for Sr 421.552  Recovery = 96.83%
Ti 334.940†           308634.1      486.17 ug/L         1.875      486.17 ppb          1.875   0.39%
   QC value within limits for Ti 334.940  Recovery = 97.23%
Tl 190.801†             1504.4      487.20 ug/L         2.442      487.20 ppb          2.442   0.50%
   QC value within limits for Tl 190.801  Recovery = 97.44%
U 409.014†             17188.8      478.33 ug/L         2.704      478.33 ppb          2.704   0.57%
   QC value within limits for U 409.014  Recovery = 95.67%
V 292.402†             69658.5      493.13 ug/L         1.293      493.13 ppb          1.293   0.26%
   QC value within limits for V 292.402  Recovery = 98.63%
Zn 213.857†            48663.7      486.75 ug/L         2.153      486.75 ppb          2.153   0.44%
   QC value within limits for Zn 213.857  Recovery = 97.35%
SiO2†                  74368.5      5149.9 ug/L         63.08      5149.9 ppb          63.08   1.22%
   QC value within limits for SiO2  Recovery = 96.31%
All analyte(s) passed QC.
```

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/25/2010 16:53:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Rep1#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc Radial	3747.2	3747.2	97.2	%			16:56:00
1	Y RADIAL	4313.4	4313.4	96.89	%			16:55:40
1	Al 396.153Radial†	-102.3	9.7	9.1086	ug/L	9.1086	ppb	16:55:40
1	Ca 317.933Radial†	24.4	6.4	14.053	ug/L	14.053	ppb	16:56:00
1	Fe 238.204 Radial†	9.8	-1.6	-25.339	ug/L	-25.339	ppb	16:56:00
1	K 766.490 Radial†	2782.1	98.5	18.863	ug/L	18.863	ppb	16:55:40
1	Mg 279.077 IEC†	2.8	1.7	89.185	ug/L	89.185	ppb	16:56:00
1	Na 589.592 Radial†	-895.0	-19.6	-6.0896	ug/L	-6.0896	ppb	16:55:40
1	Sr 421.552†	55.7	48.6	0.3380	ug/L	0.3380	ppb	16:55:40
1	Sc 361.383	919369.4	919369.4	104.47	%			16:56:57
1	Y 371.029	771783.1	771783.1	101.47	%			16:56:57
1	Ag 328.068†	263.4	17.9	0.0712	ug/L	0.0712	ppb	16:57:02
1	As 188.979†	-20.7	0.1	0.0238	ug/L	0.0238	ppb	16:57:22
1	B 249.677†	-499.7	-200.3	-4.9059	ug/L	-4.9059	ppb	16:57:22
1	Ba 233.527†	10.6	-0.9	-0.0091	ug/L	-0.0091	ppb	16:57:22
1	Be 313.107†	-3592.0	119.8	0.0446	ug/L	0.0446	ppb	16:57:02
1	Cd 226.502†	-192.0	-7.6	-0.0851	ug/L	-0.0851	ppb	16:57:22
1	Co 228.616†	-60.2	7.2	0.1549	ug/L	0.1549	ppb	16:57:22
1	Cr 267.716†	76.7	-11.7	-0.1358	ug/L	-0.1358	ppb	16:57:22
1	Cu 324.752†	6084.7	-130.4	-0.4004	ug/L	-0.4004	ppb	16:57:02
1	Mn 257.610†	519.1	19.2	0.0157	ug/L	0.0157	ppb	16:57:22
1	Mo 202.031†	20.7	15.1	1.1112	ug/L	1.1112	ppb	16:57:22
1	Ni 231.604†	73.3	-12.7	-0.3232	ug/L	-0.3232	ppb	16:57:22
1	P 214.914†	217.7	2.5	1.6228	ug/L	1.6228	ppb	16:57:22
1	Pb 220.353†	-27.2	-87.2	-10.777	ug/L	-10.777	ppb	16:57:22
1	S 181.975 Axial†	46.1	8.3	11.641	ug/L	11.641	ppb	16:57:22
1	Sb 206.836†	47.0	6.0	2.1289	ug/L	2.1289	ppb	16:57:22
1	Se 196.026†	-27.2	-1.3	-0.9618	ug/L	-0.9618	ppb	16:57:22
1	Si 251.611†	594.8	4.7	0.1382	ug/L	0.1382	ppb	16:57:22
1	Sn 189.927†	7.3	-2.4	-0.4324	ug/L	-0.4324	ppb	16:57:22
1	Ti 334.940†	-1528.4	-53.2	-0.0904	ug/L	-0.0904	ppb	16:57:02
1	Tl 190.801†	-27.8	0.9	0.2755	ug/L	0.2755	ppb	16:57:22
1	U 409.014†	-2924.9	101.9	2.8495	ug/L	2.8495	ppb	16:56:57
1	V 292.402†	-1601.7	-64.5	-0.4239	ug/L	-0.4239	ppb	16:57:02
1	Zn 213.857†	757.7	-14.2	-0.1365	ug/L	-0.1365	ppb	16:57:22
1	SiO2†	604.5	-9.6	-0.6935	ug/L	-0.6935	ppb	16:58:28
2	Sc Radial	3755.2	3755.2	97.4	%			16:56:25
2	Y RADIAL	4279.1	4279.1	96.12	%			16:56:05
2	Al 396.153Radial†	-122.6	-10.9	-10.288	ug/L	-10.288	ppb	16:56:05
2	Ca 317.933Radial†	22.6	4.5	9.8277	ug/L	9.8277	ppb	16:56:25
2	Fe 238.204 Radial†	10.7	-0.7	-11.497	ug/L	-11.497	ppb	16:56:25
2	K 766.490 Radial†	2877.2	190.1	36.414	ug/L	36.414	ppb	16:56:05
2	Mg 279.077 IEC†	1.5	0.4	21.323	ug/L	21.323	ppb	16:56:25
2	Na 589.592 Radial†	-860.1	18.3	5.6924	ug/L	5.6924	ppb	16:56:05
2	Sr 421.552†	5.8	-2.8	-0.0195	ug/L	-0.0195	ppb	16:56:05
2	Sc 361.383	918565.8	918565.8	104.37	%			16:57:27
2	Y 371.029	771672.6	771672.6	101.45	%			16:57:27
2	Ag 328.068†	297.0	50.4	0.2246	ug/L	0.2246	ppb	16:57:32
2	As 188.979†	-21.0	-0.2	-0.0799	ug/L	-0.0799	ppb	16:57:52
2	B 249.677†	-491.5	-192.9	-4.7256	ug/L	-4.7256	ppb	16:57:52
2	Ba 233.527†	11.0	-0.5	-0.0057	ug/L	-0.0057	ppb	16:57:52
2	Be 313.107†	-3623.7	86.4	0.0321	ug/L	0.0321	ppb	16:57:32
2	Cd 226.502†	-177.5	6.1	0.0727	ug/L	0.0727	ppb	16:57:52
2	Co 228.616†	-72.1	-4.2	-0.0858	ug/L	-0.0858	ppb	16:57:52
2	Cr 267.716†	89.5	0.7	0.0037	ug/L	0.0037	ppb	16:57:52
2	Cu 324.752†	5941.8	-262.3	-0.8023	ug/L	-0.8023	ppb	16:57:32
2	Mn 257.610†	479.9	-17.9	-0.0224	ug/L	-0.0224	ppb	16:57:52
2	Mo 202.031†	16.5	11.1	0.8166	ug/L	0.8166	ppb	16:57:52
2	Ni 231.604†	74.7	-11.2	-0.2868	ug/L	-0.2868	ppb	16:57:52

2	P 214.914†	222.9	7.8	4.8500	ug/L	4.8500 ppb	16:57:52
2	Pb 220.353†	-20.2	-80.5	-9.9607	ug/L	-9.9607 ppb	16:57:52
2	S 181.975 Axial†	37.2	-0.2	-0.3407	ug/L	-0.3407 ppb	16:57:52
2	Sb 206.836†	41.7	0.9	0.3314	ug/L	0.3314 ppb	16:57:52
2	Se 196.026†	-31.2	-5.2	-3.4409	ug/L	-3.4409 ppb	16:57:52
2	Si 251.611†	593.3	3.7	0.1095	ug/L	0.1095 ppb	16:57:52
2	Sn 189.927†	9.2	-0.6	-0.1002	ug/L	-0.1002 ppb	16:57:52
2	Ti 334.940†	-1511.5	-38.3	-0.0626	ug/L	-0.0626 ppb	16:57:32
2	Tl 190.801†	-23.6	4.8	1.5420	ug/L	1.5420 ppb	16:57:52
2	U 409.014†	-2871.2	151.0	4.2173	ug/L	4.2173 ppb	16:57:27
2	V 292.402†	-1626.5	-89.6	-0.6042	ug/L	-0.6042 ppb	16:57:32
2	Zn 213.857†	758.6	-12.6	-0.1225	ug/L	-0.1225 ppb	16:57:52
2	SiO2†	598.7	-14.6	-1.0368	ug/L	-1.0368 ppb	16:58:33
3	Sc Radial	3770.8	3770.8	97.8	%		16:56:50
3	Y RADIAL	4230.5	4230.5	95.03	%		16:56:30
3	Al 396.153Radial†	-130.4	-18.3	-17.241	ug/L	-17.241 ppb	16:56:30
3	Ca 317.933Radial†	17.8	-0.5	-1.1191	ug/L	-1.1191 ppb	16:56:50
3	Fe 238.204 Radial†	8.3	-3.2	-51.849	ug/L	-51.849 ppb	16:56:50
3	K 766.490 Radial†	2775.6	73.9	14.170	ug/L	14.170 ppb	16:56:30
3	Mg 279.077 IEC†	1.9	0.8	40.777	ug/L	40.777 ppb	16:56:50
3	Na 589.592 Radial†	-908.9	-28.0	-8.7045	ug/L	-8.7045 ppb	16:56:30
3	Sr 421.552†	33.5	25.5	0.1776	ug/L	0.1776 ppb	16:56:30
3	Sc 361.383	924614.4	924614.4	105.06	%		16:57:57
3	Y 371.029	776500.8	776500.8	102.09	%		16:57:57
3	Ag 328.068†	233.0	-12.4	-0.0743	ug/L	-0.0743 ppb	16:58:03
3	As 188.979†	-25.7	-4.6	-2.0498	ug/L	-2.0498 ppb	16:58:23
3	B 249.677†	-488.0	-186.5	-4.5612	ug/L	-4.5612 ppb	16:58:23
3	Ba 233.527†	3.8	-7.4	-0.0595	ug/L	-0.0595 ppb	16:58:23
3	Be 313.107†	-3509.3	218.0	0.0814	ug/L	0.0814 ppb	16:58:03
3	Cd 226.502†	-197.0	-11.3	-0.1261	ug/L	-0.1261 ppb	16:58:23
3	Co 228.616†	-75.9	-7.4	-0.1540	ug/L	-0.1540 ppb	16:58:23
3	Cr 267.716†	70.5	-18.0	-0.2072	ug/L	-0.2072 ppb	16:58:23
3	Cu 324.752†	5982.6	-260.7	-0.7984	ug/L	-0.7984 ppb	16:58:03
3	Mn 257.610†	510.5	8.3	0.0026	ug/L	0.0026 ppb	16:58:23
3	Mo 202.031†	10.0	4.8	0.3502	ug/L	0.3502 ppb	16:58:23
3	Ni 231.604†	76.3	-10.2	-0.2604	ug/L	-0.2604 ppb	16:58:23
3	P 214.914†	213.3	-2.8	-1.4635	ug/L	-1.4635 ppb	16:58:23
3	Pb 220.353†	-38.8	-98.1	-12.133	ug/L	-12.133 ppb	16:58:23
3	S 181.975 Axial†	44.9	6.9	9.7132	ug/L	9.7132 ppb	16:58:23
3	Sb 206.836†	33.4	-7.3	-2.5585	ug/L	-2.5585 ppb	16:58:23
3	Se 196.026†	-20.8	5.0	3.1038	ug/L	3.1038 ppb	16:58:23
3	Si 251.611†	591.1	-2.1	-0.0737	ug/L	-0.0737 ppb	16:58:23
3	Sn 189.927†	8.8	-1.0	-0.1839	ug/L	-0.1839 ppb	16:58:23
3	Ti 334.940†	-1500.4	-18.2	-0.0331	ug/L	-0.0331 ppb	16:58:03
3	Tl 190.801†	-35.8	-6.6	-2.1210	ug/L	-2.1210 ppb	16:58:23
3	U 409.014†	-2963.4	81.2	2.2748	ug/L	2.2748 ppb	16:57:57
3	V 292.402†	-1502.8	38.3	0.2855	ug/L	0.2855 ppb	16:58:03
3	Zn 213.857†	749.4	-26.1	-0.2531	ug/L	-0.2531 ppb	16:58:23
3	SiO2†	614.7	-3.1	-0.2244	ug/L	-0.2244 ppb	16:58:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	920849.9	104.63	%	0.373				0.36%
Sc Radial	3757.8	97.4	%	0.31				0.32%
Y 371.029	773318.8	101.67	%	0.362				0.36%
Y RADIAL	4274.3	96.02	%	0.935				0.97%
Ag 328.068†	18.7	0.0739	ug/L	0.14949	0.0739	ppb	0.14949	202.41%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-6.5	-6.1402	ug/L	13.65593	-6.1402	ppb	13.65593	222.40%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.6	-0.7020	ug/L	1.16843	-0.7020	ppb	1.16843	166.45%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-193.2	-4.7309	ug/L	0.17237	-4.7309	ppb	0.17237	3.64%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-3.0	-0.0248	ug/L	0.03012	-0.0248	ppb	0.03012	121.45%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	141.4	0.0527	ug/L	0.02561	0.0527	ppb	0.02561	48.60%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.5	7.5872	ug/L	7.83026	7.5872	ppb	7.83026	103.20%

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   QC value within limits for Ca 317.933Radial  Recovery = Not calculated
Cd 226.502†              -4.3     -0.0462 ug/L       0.10495     -0.0462 ppb        0.10495 227.30%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Co 228.616†              -1.5     -0.0283 ug/L       0.16229     -0.0283 ppb        0.16229 574.13%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -9.7     -0.1131 ug/L       0.10724     -0.1131 ppb        0.10724  94.82%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -217.8     -0.6670 ug/L       0.23091     -0.6670 ppb        0.23091  34.62%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†       -1.8     -29.562 ug/L       20.5045     -29.562 ppb        20.5045  69.36%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       120.8      23.149 ug/L       11.7246      23.149 ppb        11.7246  50.65%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†          1.0      50.428 ug/L       34.9452      50.428 ppb        34.9452  69.30%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              3.2     -0.0013 ug/L       0.01936     -0.0013 ppb        0.01936 >999.9%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†             10.3      0.7593 ug/L       0.38374      0.7593 ppb        0.38374  50.54%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -9.8     -3.0339 ug/L       7.66948     -3.0339 ppb        7.66948 252.79%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†             -11.4     -0.2902 ug/L       0.03154     -0.2902 ppb        0.03154  10.87%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               2.5      1.6698 ug/L       3.15700      1.6698 ppb        3.15700 189.07%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†             -88.6     -10.957 ug/L        1.0975     -10.957 ppb         1.0975  10.02%
   QC value less than the lower limit for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†         5.0      7.0044 ug/L       6.43371      7.0044 ppb        6.43371  91.85%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†              -0.1     -0.0328 ug/L       2.36482     -0.0328 ppb        2.36482 >999.9%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -0.5     -0.4330 ug/L       3.30421     -0.4330 ppb        3.30421 763.18%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              2.1      0.0580 ug/L       0.11496      0.0580 ppb        0.11496 198.20%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -1.3     -0.2388 ug/L       0.17280     -0.2388 ppb        0.17280  72.35%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              23.8      0.1654 ug/L       0.17909      0.1654 ppb        0.17909 108.30%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -36.6     -0.0620 ug/L       0.02863     -0.0620 ppb        0.02863  46.15%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -0.3     -0.1012 ug/L       1.86029     -0.1012 ppb        1.86029 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†              111.4      3.1139 ug/L       0.99786      3.1139 ppb        0.99786  32.05%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†              -38.6     -0.2475 ug/L       0.47034     -0.2475 ppb        0.47034 190.01%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             -17.6     -0.1707 ug/L       0.07172     -0.1707 ppb        0.07172  42.01%
   QC value within limits for Zn 213.857  Recovery = Not calculated
SiO2†                    -9.1     -0.6516 ug/L       0.40781     -0.6516 ppb        0.40781  62.59%
   QC value within limits for SiO2  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

ICPMS #5 Daily Performance Report

Sample ID: Sample
Sample Date/Time: Saturday, February 20, 2010 16:07:39
Sample Description:
Method File: c:\elandata\Method\Daily2.mth
Dataset File: c:\elandata\Dataset\default\Sample.554
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	4591.9	4591.938	57.696	1.3
	Mg	24.0	33007.3	33007.292	368.932	1.1
	Co	58.9	104259.1	104259.120	1398.049	1.3
	Rh	102.9	219366.5	219366.513	1785.593	0.8
	In	114.9	300656.4	300656.403	2344.252	0.8
	Pb	208.0	241741.5	241741.500	1886.659	0.8
⌈>	Ba	137.9	268936.6	268936.638	1503.430	0.6
⌊	Ba++	69.0	4410.8	0.016	0.000	1.8
⌈>	Ce	139.9	330534.9	330534.935	2716.455	0.8
⌊	CeO	155.9	7621.2	0.023	0.000	1.7
	Bkgd	220.0	26.2	26.200	4.368	16.7

Current Optimization File Data

Current Value	Description
0.87	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	13	5.5	4528.7
Co	59	13	6.0	106814.5
In	115	13	6.3	294109.3

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	594	2072	0.613
Be	9.0	9.0	2051	2088	0.619
Mg	24.0	24.0	5689	2100	0.590
Mg	25.0	25.0	5941	2100	0.614
Mg	26.0	26.0	6166	2100	0.609
Co	58.9	58.9	14183	2125	0.602
Rh	102.9	102.9	24869	2180	0.587
In	114.9	114.9	27795	2200	0.581
Ce	139.9	139.9	33867	2220	0.593
Pb	206.0	206.0	49948	2305	0.592
Pb	207.0	206.9	50147	2240	0.635
Pb	208.0	208.0	50451	2265	0.710
U	238.1	238.1	57728	2275	0.740

ICPMS#5 - Summary Report

Sample ID: Blank
Sample Date/Time: Saturday, February 20, 2010 16:22:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\Blank.096

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		19	
	B	11		ug/L		181	
	Na	23		ug/L		30701	
	Mg	24		ug/L		0	
	Al	27		ug/L		2334	
	P	31		ug/L		7846	
	K	39		ug/L		652306	
	Ca	43		ug/L		561	
>	Sc	45		ug/L		840010	
	Ti	47		ug/L		826	
	V	51		ug/L		-1033	
	Cr	52		ug/L		-771	
	Cr	53		ug/L		121930	
	Mn	55		ug/L		1473	
	Fe	57		ug/L		7144	
	Co	59		ug/L		119	
	Ni	60		ug/L		194	
	Cu	63		ug/L		326	
	Cu	65		ug/L		212	
	Zn	66		ug/L		2747	
	Zn	67		ug/L		14577	
	Zn	68		ug/L		3327	
>	Ge	74		ug/L		623930	
	As	75		ug/L		-192	
	Se	77		ug/L		8093	
	Se	82		ug/L		-3	
	Kr	83		ug/L		221	
	Sr	88		ug/L		164	
	Y	89		ug/L		101	
	Mo	98		ug/L		55	
	Ag	107		ug/L		35	
	Cd	111		ug/L		12	
	Cd	114		ug/L		54	
>	In	115		ug/L		397371	
	Sn	120		ug/L		877	
	Sb	121		ug/L		179	
	Sb	123		ug/L		132	
	Ba	135		ug/L		48	
	Ba	137		ug/L		66	
	Ho	165		ug/L		30	
>	Lu	175		ug/L		534424	
	Tl	205		ug/L		342	
	Pb	208		ug/L		362	
	Bi	209		ug/L		1131	
	Th	232		ug/L		228	
	U	238		ug/L		99	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Simple Linear	
Be	9	Simple Linear	
B	11	Simple Linear	
Na	23	Simple Linear	
Mg	24	Simple Linear	
Al	27	Simple Linear	
P	31	Simple Linear	
K	39	Simple Linear	
Ca	43	Simple Linear	
Sc	45	Simple Linear	
Ti	47	Simple Linear	
V	51	Simple Linear	
Cr	52	Simple Linear	
Cr	53	Simple Linear	
Mn	55	Simple Linear	
Fe	57	Simple Linear	
Co	59	Simple Linear	
Ni	60	Simple Linear	
Cu	63	Simple Linear	
Cu	65	Simple Linear	
Zn	66	Simple Linear	
Zn	67	Simple Linear	
Zn	68	Simple Linear	
Ge	74	Simple Linear	
As	75	Simple Linear	
Se	77	Simple Linear	
Se	82	Simple Linear	
Kr	83	Simple Linear	
Sr	88	Simple Linear	
Y	89	Simple Linear	
Mo	98	Simple Linear	
Ag	107	Simple Linear	
Cd	111	Simple Linear	
Cd	114	Simple Linear	
In	115	Simple Linear	
Sn	120	Simple Linear	
Sb	121	Simple Linear	
Sb	123	Simple Linear	
Ba	135	Simple Linear	
Ba	137	Simple Linear	
Ho	165	Simple Linear	
Lu	175	Simple Linear	
Tl	205	Simple Linear	
Pb	208	Simple Linear	
Bi	209	Simple Linear	
Th	232	Simple Linear	
U	238	Simple Linear	

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					
	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 1
Sample Date/Time: Saturday, February 20, 2010 16:29:00
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\Standard 1.097

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	10.000	ug/L	1.090	18124	0.022
	Be	9	10.000	ug/L	3.610	4460	0.005
	B	11	20.000	ug/L	3.749	8743	0.010
	Na	23	1000.000	ug/L	10.479	3753442	4.526
	Mg	24	1000.000	ug/L	9.681	2460727	2.991
	Al	27	1000.000	ug/L	18.311	3728229	4.530
	P	31	1000.000	ug/L	2.961	272661	0.322
	K	39	1000.000	ug/L	4.359	6327674	6.903
	Ca	43	1000.000	ug/L	1.149	15787	0.019
>	Sc	45		ug/L		823593	823592.854
	Ti	47	10.000	ug/L	2.897	8864	0.010
	V	51	10.000	ug/L	4.070	100289	0.123
	Cr	52	10.000	ug/L	1.813	77677	0.095
	Cr	53		ug/L		120397	0.001
	Mn	55	10.000	ug/L	3.602	134634	0.162
	Fe	57	1000.000	ug/L	2.829	270453	0.320
	Co	59	10.000	ug/L	0.789	101630	0.123
	Ni	60	10.000	ug/L	2.199	22299	0.027
	Cu	63		ug/L		54787	0.066
	Cu	65	10.000	ug/L	4.064	27729	0.033
	Zn	66	10.000	ug/L	3.256	23432	0.033
	Zn	67		ug/L		16712	0.003
	Zn	68		ug/L		18484	0.024
>	Ge	74		ug/L		624081	624081.176
	As	75	10.000	ug/L	3.919	19178	0.031
	Se	77		ug/L		8532	0.001
	Se	82	10.000	ug/L	2.493	2026	0.003
	Kr	83		ug/L		203	-0.000
	Sr	88	10.000	ug/L	1.730	239121	0.588
	Y	89		ug/L		123	0.000
	Mo	98	10.000	ug/L	1.658	54772	0.135
	Ag	107	10.000	ug/L	2.321	97598	0.240
	Cd	111	10.000	ug/L	1.109	23877	0.059
	Cd	114		ug/L		57647	0.142
>	In	115		ug/L		406471	406471.166
	Sn	120	10.000	ug/L	0.202	99112	0.242
	Sb	121	10.000	ug/L	2.183	82621	0.203
	Sb	123		ug/L		63743	0.157
	Ba	135		ug/L		23452	0.044
	Ba	137	10.000	ug/L	1.705	41028	0.076
	Ho	165		ug/L		26	-0.000
>	Lu	175		ug/L		537572	537571.772
	Tl	205	10.000	ug/L	1.369	230931	0.429
	Pb	208	10.000	ug/L	0.809	418717	0.778
	Bi	209		ug/L		913	-0.000
	Th	232	10.000	ug/L	1.375	499473	0.929
	U	238	10.000	ug/L	1.404	509313	0.947

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	1.0000
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	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: Saturday, February 20, 2010 16:35:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\Standard 2.098

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**100.024**	**ug/L**	2.429	178636	0.225
	Be	9	**100.020**	**ug/L**	2.442	43713	0.055
	B	11	**200.046**	**ug/L**	6.797	84579	0.107
	Na	23	**9999.462**	**ug/L**	7.166	35747985	45.017
	Mg	24	**10010.231**	**ug/L**	3.953	26474033	33.356
	Al	27	**10006.528**	**ug/L**	10.999	38467789	48.497
	P	31	**9998.169**	**ug/L**	3.637	2512696	3.160
	K	39	**10008.531**	**ug/L**	3.940	60596507	75.534
	Ca	43	**9999.687**	**ug/L**	5.226	146718	0.184
>	Sc	45		**ug/L**		793510	793510.032
	Ti	47	**99.999**	**ug/L**	3.812	78274	0.098
	V	51	**99.959**	**ug/L**	4.707	934951	1.181
	Cr	52	**99.964**	**ug/L**	2.892	728188	0.919
	Cr	53		**ug/L**		196030	0.102
	Mn	55	**99.919**	**ug/L**	3.416	1187330	1.496
	Fe	57	**9997.892**	**ug/L**	5.011	2490233	3.133
	Co	59	**99.956**	**ug/L**	4.027	935380	1.180
	Ni	60	**99.981**	**ug/L**	3.389	209029	0.263
	Cu	63		**ug/L**		499231	0.629
	Cu	65	**99.967**	**ug/L**	1.545	256755	0.323
	Zn	66	**99.859**	**ug/L**	2.659	178863	0.290
	Zn	67		**ug/L**		42870	0.047
	Zn	68		**ug/L**		135789	0.218
>	Ge	74		**ug/L**		607536	607536.323
	As	75	**99.994**	**ug/L**	1.033	187213	0.308
	Se	77		**ug/L**		21390	0.022
	Se	82	**99.971**	**ug/L**	2.206	19192	0.032
	Kr	83		**ug/L**		213	-0.000
	Sr	88	**99.878**	**ug/L**	1.388	2034454	5.234
	Y	89		**ug/L**		279	0.000
	Mo	98	**100.004**	**ug/L**	1.767	525264	1.351
	Ag	107	**99.926**	**ug/L**	1.704	868429	2.234
	Cd	111	**99.993**	**ug/L**	2.460	226672	0.583
	Cd	114		**ug/L**		527739	1.358
>	In	115		**ug/L**		388739	388739.020
	Sn	120	**99.954**	**ug/L**	1.108	898465	2.309
	Sb	121	**99.984**	**ug/L**	1.682	776017	1.996
	Sb	123		**ug/L**		603176	1.552
	Ba	135		**ug/L**		225683	0.426
	Ba	137	**99.958**	**ug/L**	1.623	387179	0.731
	Ho	165		**ug/L**		40	0.000
>	Lu	175		**ug/L**		529618	529617.924
	Tl	205	**99.828**	**ug/L**	1.940	1934898	3.653
	Pb	208	**99.861**	**ug/L**	1.487	3614953	6.826
	Bi	209		**ug/L**		1216	0.000
	Th	232	**99.842**	**ug/L**	0.885	4240695	8.007
	U	238	**99.821**	**ug/L**	2.057	4246164	8.019

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
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	0.9999
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	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
	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: QC Std 1
Sample Date/Time: Saturday, February 20, 2010 16:41:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 1.099

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**51.009**	ug/L	5.030	90579	0.115
	Be	9	**51.077**	ug/L	6.384	22199	0.028
	B	11	**108.707**	ug/L	4.396	45821	0.058
	Na	23	**5142.677**	ug/L	17.632	18336251	23.152
	Mg	24	**4993.622**	ug/L	9.309	13112389	16.640
	Al	27	**4732.206**	ug/L	12.585	18062244	22.935
	P	31	**4756.694**	ug/L	7.603	1192055	1.503
	K	39	**4879.700**	ug/L	9.884	29721422	36.827
	Ca	43	**4875.303**	ug/L	7.271	71396	0.090
>	Sc	45		ug/L		789161	789161.475
	Ti	47	**48.720**	ug/L	4.684	38323	0.048
	V	51	**49.106**	ug/L	5.560	456553	0.580
	Cr	52	**50.553**	ug/L	4.809	365861	0.465
	Cr	53		ug/L		141763	0.035
	Mn	55	**51.900**	ug/L	2.461	614142	0.777
	Fe	57	**4613.637**	ug/L	2.214	1147280	1.446
	Co	59	**49.335**	ug/L	4.336	459226	0.582
	Ni	60	**49.917**	ug/L	3.474	103903	0.132
	Cu	63		ug/L		251414	0.318
	Cu	65	**49.898**	ug/L	3.442	127510	0.161
	Zn	66	**51.261**	ug/L	3.169	94673	0.149
	Zn	67		ug/L		27449	0.021
	Zn	68		ug/L		73042	0.113
>	Ge	74		ug/L		617633	617632.534
	As	75	**47.877**	ug/L	1.432	91032	0.148
	Se	77		ug/L		13681	0.009
	Se	82	**50.379**	ug/L	1.632	9832	0.016
	Kr	83		ug/L		217	-0.000
	Sr	88	**53.708**	ug/L	1.310	1098189	2.814
	Y	89		ug/L		154	0.000
	Mo	98	**48.967**	ug/L	0.413	258229	0.662
	Ag	107	**52.398**	ug/L	0.874	457116	1.172
	Cd	111	**50.581**	ug/L	0.712	115118	0.295
	Cd	114		ug/L		270023	0.692
>	In	115		ug/L		390169	390169.185
	Sn	120	**51.271**	ug/L	0.708	463065	1.185
	Sb	121	**51.215**	ug/L	1.078	399080	1.022
	Sb	123		ug/L		305129	0.782
	Ba	135		ug/L		112556	0.211
	Ba	137	**50.622**	ug/L	1.680	197222	0.370
	Ho	165		ug/L		61	0.000
>	Lu	175		ug/L		532590	532590.461
	Tl	205	**52.287**	ug/L	0.612	1019415	1.914
	Pb	208	**53.244**	ug/L	1.190	1938463	3.639
	Bi	209		ug/L		1198	0.000
	Th	232	**50.579**	ug/L	1.451	2160426	4.056
	U	238	**52.433**	ug/L	0.150	2243358	4.212

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	102.018				
	Be	9	102.155				
	B	11	108.707				
	Na	23	102.854				
	Mg	24	99.872				
	Al	27	93.707				
	P	31	95.134				
	K	39	97.594				
	Ca	43	97.506				
>	Sc	45		93.9			
	Ti	47	97.439				
	V	51	98.213				
	Cr	52	101.105				
	Cr	53					
	Mn	55	103.799				
	Fe	57	92.273				
	Co	59	98.671				
	Ni	60	99.834				
	Cu	63					
	Cu	65	99.797				
	Zn	66	102.522				
	Zn	67					
	Zn	68					
>	Ge	74		99.0			
	As	75	95.755				
	Se	77					
	Se	82	100.757				
	Kr	83					
	Sr	88	107.417				
	Y	89					
	Mo	98	97.935				
	Ag	107	104.795				
	Cd	111	101.161				
	Cd	114					
>	In	115		98.2			
	Sn	120	102.543				
	Sb	121	102.430				
	Sb	123					
	Ba	135					
	Ba	137	101.245				
	Ho	165					
>	Lu	175		99.7			
	Tl	205	104.574				
	Pb	208	106.487				
	Bi	209					
	Th	232	101.158				
	U	238	104.867				

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, February 20, 2010 16:47:15
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 2.100

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.017**	**ug/L**	25.783	66	0.000
	Be	9	**0.003**	**ug/L**	337.670	20	0.000
	B	11	**5.905**	**ug/L**	9.487	2802	0.003
	Na	23	**-2.399**	**ug/L**	38.233	21349	-0.011
	Mg	24	**0.597**	**ug/L**	122.251	1667	0.002
	Al	27	**0.836**	**ug/L**	73.832	5668	0.004
	P	31	**-1.050**	**ug/L**	18.261	7495	-0.000
	K	39	**1.608**	**ug/L**	473.814	654673	0.012
	Ca	43	**-4.011**	**ug/L**	63.828	493	-0.000
>	Sc	45		**ug/L**		831853	831852.893
	Ti	47	**-0.108**	**ug/L**	46.345	729	-0.000
	V	51	**0.713**	**ug/L**	35.710	5978	0.008
	Cr	52	**0.106**	**ug/L**	62.841	34	0.001
	Cr	53		**ug/L**		129896	0.011
	Mn	55	**0.008**	**ug/L**	106.007	1556	0.000
	Fe	57	**1.891**	**ug/L**	107.366	7553	0.001
	Co	59	**0.004**	**ug/L**	9.218	154	0.000
	Ni	60	**0.007**	**ug/L**	126.816	206	0.000
	Cu	63		**ug/L**		365	0.000
	Cu	65	**-0.002**	**ug/L**	366.484	205	-0.000
	Zn	66	**-0.006**	**ug/L**	768.103	2670	-0.000
	Zn	67		**ug/L**		15619	0.002
	Zn	68		**ug/L**		3357	0.000
>	Ge	74		**ug/L**		609009	609009.296
	As	75	**0.357**	**ug/L**	21.815	483	0.001
	Se	77		**ug/L**		8925	0.002
	Se	82	**-0.012**	**ug/L**	1047.471	-5	-0.000
	Kr	83		**ug/L**		205	-0.000
	Sr	88	**0.003**	**ug/L**	44.365	214	0.000
	Y	89		**ug/L**		66	-0.000
	Mo	98	**0.050**	**ug/L**	22.685	316	0.001
	Ag	107	**0.005**	**ug/L**	25.123	76	0.000
	Cd	111	**0.013**	**ug/L**	36.797	40	0.000
	Cd	114		**ug/L**		65	0.000
>	In	115		**ug/L**		385964	385964.165
	Sn	120	**0.021**	**ug/L**	47.955	1041	0.000
	Sb	121	**0.394**	**ug/L**	15.905	3203	0.008
	Sb	123		**ug/L**		2431	0.006
	Ba	135		**ug/L**		59	0.000
	Ba	137	**0.001**	**ug/L**	126.158	70	0.000
	Ho	165		**ug/L**		29	-0.000
>	Lu	175		**ug/L**		524452	524451.714
	Tl	205	**0.192**	**ug/L**	18.971	4020	0.007
	Pb	208	**0.003**	**ug/L**	11.276	453	0.000
	Bi	209		**ug/L**		829	-0.001
	Th	232	**0.042**	**ug/L**	19.232	1982	0.003
	U	238	**0.006**	**ug/L**	21.084	354	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		99.0			
	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		97.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		97.1			
	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

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Saturday, February 20, 2010 16:53:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 3.101

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**11.036**	**ug/L**	3.189	20643	0.025
	Be	9	**0.560**	**ug/L**	5.826	275	0.000
	B	11	**18.577**	**ug/L**	3.073	8383	0.010
	Na	23	**255.851**	**ug/L**	9.559	987602	1.152
	Mg	24	**21.066**	**ug/L**	24.143	58122	0.070
	Al	27	**42.690**	**ug/L**	20.948	174086	0.207
	P	31	**48.905**	**ug/L**	4.745	20566	0.015
	K	39	**306.515**	**ug/L**	12.267	2560785	2.313
	Ca	43	**212.389**	**ug/L**	4.331	3803	0.004
>	Sc	45		**ug/L**		829854	829854.209
	Ti	47	**8.807**	**ug/L**	3.404	7954	0.009
	V	51	**11.321**	**ug/L**	2.888	109897	0.134
	Cr	52	**11.010**	**ug/L**	2.904	83216	0.101
	Cr	53		**ug/L**		121957	0.002
	Mn	55	**5.961**	**ug/L**	2.804	75471	0.089
	Fe	57	**112.040**	**ug/L**	4.182	36177	0.035
	Co	59	**1.125**	**ug/L**	1.127	11136	0.013
	Ni	60	**2.199**	**ug/L**	4.467	4996	0.006
	Cu	63		**ug/L**		6463	0.007
	Cu	65	**1.148**	**ug/L**	6.439	3290	0.004
	Zn	66	**12.181**	**ug/L**	1.506	24902	0.035
	Zn	67		**ug/L**		16942	0.004
	Zn	68		**ug/L**		19664	0.026
>	Ge	74		**ug/L**		625895	625895.405
	As	75	**5.617**	**ug/L**	3.312	10653	0.017
	Se	77		**ug/L**		8287	0.000
	Se	82	**5.747**	**ug/L**	6.517	1134	0.002
	Kr	83		**ug/L**		187	-0.000
	Sr	88	**12.451**	**ug/L**	0.757	261147	0.652
	Y	89		**ug/L**		84	-0.000
	Mo	98	**0.556**	**ug/L**	4.188	3058	0.008
	Ag	107	**1.092**	**ug/L**	1.052	9806	0.024
	Cd	111	**1.134**	**ug/L**	1.069	2658	0.007
	Cd	114		**ug/L**		6091	0.015
>	In	115		**ug/L**		400025	400024.979
	Sn	120	**5.574**	**ug/L**	1.257	52398	0.129
	Sb	121	**3.318**	**ug/L**	2.159	26671	0.066
	Sb	123		**ug/L**		20420	0.051
	Ba	135		**ug/L**		4908	0.009
	Ba	137	**2.195**	**ug/L**	2.251	8702	0.016
	Ho	165		**ug/L**		32	0.000
>	Lu	175		**ug/L**		538059	538058.671
	Tl	205	**1.276**	**ug/L**	2.543	25466	0.047
	Pb	208	**2.454**	**ug/L**	1.436	90616	0.168
	Bi	209		**ug/L**		820	-0.001
	Th	232	**1.294**	**ug/L**	2.816	56041	0.104
	U	238	**0.284**	**ug/L**	1.415	12370	0.023

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	110.360				
	Be	9	112.016				
	B	11	123.845				
	Na	23	102.340				
	Mg	24	140.441				
	Al	27	142.299				
	P	31	97.810				
	K	39	102.172				
	Ca	43	106.194				
>	Sc	45		98.8			
	Ti	47	88.067				
	V	51	113.213				
	Cr	52	110.100				
	Cr	53					
	Mn	55	119.229				
	Fe	57	112.040				
	Co	59	112.526				
	Ni	60	109.958				
	Cu	63					
	Cu	65	114.838				
	Zn	66	121.806				
	Zn	67					
	Zn	68					
>	Ge	74		100.3			
	As	75	112.349				
	Se	77					
	Se	82	114.934				
	Kr	83					
	Sr	88	124.505				
	Y	89					
	Mo	98	111.134				
	Ag	107	109.245				
	Cd	111	113.444				
	Cd	114					
>	In	115		100.7			
	Sn	120	111.486				
	Sb	121	110.587				
	Sb	123					
	Ba	135					
	Ba	137	109.757				
	Ho	165					
>	Lu	175		100.7			
	Tl	205	127.608				
	Pb	208	122.718				
	Bi	209					
	Th	232	129.382				
	U	238	141.962				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 3	Mg	24CRDL is out of limits
QC Std 3	Al	27CRDL is out of limits
QC Std 3	U	238CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Saturday, February 20, 2010 16:59:29
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 4.102

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.063**	**ug/L**	9.285	132	0.000
	Be	9	**0.104**	**ug/L**	16.876	58	0.000
	B	11	**2.611**	**ug/L**	5.734	1156	0.001
	Na	23	**91373.326**	**ug/L**	11.697	296153562	411.362
	Mg	24	**87188.285**	**ug/L**	5.163	209246681	290.529
	Al	27	**95194.380**	**ug/L**	8.866	332205696	461.359
	P	31	**97338.262**	**ug/L**	3.876	22162910	30.761
	K	39	**93977.730**	**ug/L**	7.923	511248072	709.248
	Ca	43	**96170.167**	**ug/L**	5.835	1278040	1.774
>	Sc	45		**ug/L**		720406	720406.024
	Ti	47	**1763.749**	**ug/L**	2.801	1242308	1.724
	V	51	**0.879**	**ug/L**	16.798	6589	0.010
	Cr	52	**3.375**	**ug/L**	2.405	21695	0.031
	Cr	53		**ug/L**		95429	-0.013
	Mn	55	**6.330**	**ug/L**	1.611	69509	0.095
	Fe	57	**98483.428**	**ug/L**	2.077	22238279	30.864
	Co	59	**0.277**	**ug/L**	5.717	2457	0.003
	Ni	60	**3.223**	**ug/L**	5.843	6281	0.008
	Cu	63		**ug/L**		11652	0.016
	Cu	65	**3.445**	**ug/L**	1.073	8211	0.011
	Zn	66	**4.698**	**ug/L**	2.577	9828	0.014
	Zn	67		**ug/L**		14159	0.003
	Zn	68		**ug/L**		5041	0.004
>	Ge	74		**ug/L**		544496	544496.038
	As	75	**0.349**	**ug/L**	45.256	418	0.001
	Se	77		**ug/L**		8784	0.003
	Se	82	**-1.044**	**ug/L**	9.113	-183	-0.000
	Kr	83		**ug/L**		444	0.000
	Sr	88	**3.402**	**ug/L**	0.467	61355	0.178
	Y	89		**ug/L**		633	0.002
	Mo	98	**1958.588**	**ug/L**	1.677	9088642	26.466
	Ag	107	**0.124**	**ug/L**	6.293	981	0.003
	Cd	111	**0.650**	**ug/L**	23.457	1314	0.004
	Cd	114		**ug/L**		15626	0.045
>	In	115		**ug/L**		343422	343422.352
	Sn	120	**0.288**	**ug/L**	7.061	3045	0.007
	Sb	121	**0.132**	**ug/L**	15.201	1063	0.003
	Sb	123		**ug/L**		815	0.002
	Ba	135		**ug/L**		1588	0.003
	Ba	137	**0.740**	**ug/L**	1.012	2728	0.005
	Ho	165		**ug/L**		11480	0.023
>	Lu	175		**ug/L**		492875	492874.669
	Tl	205	**0.064**	**ug/L**	5.578	1463	0.002
	Pb	208	**0.245**	**ug/L**	0.521	8575	0.017
	Bi	209		**ug/L**		6815	0.012
	Th	232	**0.034**	**ug/L**	28.977	1556	0.003
	U	238	**0.003**	**ug/L**	6.217	202	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

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	91.373				
	Mg	24	87.188				
	Al	27	95.194				
	P	31	97.338				
	K	39	93.978				
	Ca	43	96.170				
>	Sc	45		85.8			
	Ti	47	88.187				
	V	51					
	Cr	52	102.279				
	Cr	53					
	Mn	55	109.133				
	Fe	57	98.483				
	Co	59	117.881				
	Ni	60	97.369				
	Cu	63					
	Cu	65	103.151				
	Zn	66	124.949				
	Zn	67					
	Zn	68					
>	Ge	74		87.3			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88	114.918				
	Y	89					
	Mo	98	97.929				
	Ag	107					
	Cd	111	146.402				
	Cd	114					
>	In	115		86.4			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137	92.706				
	Ho	165					
>	Lu	175		92.2			
	Tl	205					
	Pb	208	129.429				
	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: Saturday, February 20, 2010 17:05:35
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 5.103

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**20.458**	**ug/L**	2.240	31582	0.046
	Be	9	**19.721**	**ug/L**	2.891	7458	0.011
	B	11	**20.414**	**ug/L**	2.364	7593	0.011
	Na	23	**87437.731**	**ug/L**	4.004	269804832	393.644
	Mg	24	**94925.454**	**ug/L**	3.328	216713716	316.311
	Al	27	**86769.448**	**ug/L**	9.592	287887967	420.528
	P	31	**90907.570**	**ug/L**	2.250	19690071	28.728
	K	39	**94851.105**	**ug/L**	3.513	490924936	715.840
	Ca	43	**92413.962**	**ug/L**	1.396	1168344	1.705
>	Sc	45		**ug/L**		685252	685251.922
	Ti	47	**1804.688**	**ug/L**	4.713	1209045	1.764
	V	51	**22.421**	**ug/L**	4.228	180538	0.265
	Cr	52	**24.575**	**ug/L**	4.155	154144	0.226
	Cr	53		**ug/L**		101196	0.003
	Mn	55	**28.349**	**ug/L**	3.580	291881	0.424
	Fe	57	**97964.780**	**ug/L**	1.844	21039740	30.702
	Co	59	**21.034**	**ug/L**	2.713	170151	0.248
	Ni	60	**22.964**	**ug/L**	3.456	41596	0.060
	Cu	63		**ug/L**		93923	0.137
	Cu	65	**21.933**	**ug/L**	3.938	48779	0.071
	Zn	66	**22.864**	**ug/L**	0.699	37558	0.066
	Zn	67		**ug/L**		17303	0.009
	Zn	68		**ug/L**		26114	0.044
>	Ge	74		**ug/L**		530322	530321.636
	As	75	**20.889**	**ug/L**	4.827	34014	0.064
	Se	77		**ug/L**		10651	0.007
	Se	82	**19.210**	**ug/L**	1.042	3218	0.006
	Kr	83		**ug/L**		449	0.000
	Sr	88	**26.083**	**ug/L**	0.891	477099	1.367
	Y	89		**ug/L**		627	0.002
	Mo	98	**1888.936**	**ug/L**	1.086	8907030	25.525
	Ag	107	**20.047**	**ug/L**	1.570	156440	0.448
	Cd	111	**20.127**	**ug/L**	1.456	40974	0.117
	Cd	114		**ug/L**		109662	0.314
>	In	115		**ug/L**		348957	348957.039
	Sn	120	**21.719**	**ug/L**	0.985	175872	0.502
	Sb	121	**21.586**	**ug/L**	0.586	150539	0.431
	Sb	123		**ug/L**		115727	0.331
	Ba	135		**ug/L**		42873	0.085
	Ba	137	**20.294**	**ug/L**	2.019	75160	0.148
	Ho	165		**ug/L**		11501	0.023
>	Lu	175		**ug/L**		506049	506049.209
	Tl	205	**21.876**	**ug/L**	1.855	405396	0.801
	Pb	208	**22.014**	**ug/L**	0.920	761747	1.505
	Bi	209		**ug/L**		7580	0.013
	Th	232	**23.474**	**ug/L**	1.732	952722	1.883
	U	238	**24.960**	**ug/L**	1.744	1014583	2.005

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Li	7	102.288				
	Be	9	98.605				
	B	11	102.072				
	Na	23	87.438				
	Mg	24	94.925				
	Al	27	86.769				
	P	31	90.908				
	K	39	94.851				
	Ca	43	92.414				
>	Sc	45		81.6			
	Ti	47	90.234				
	V	51	112.104				
	Cr	52	105.471				
	Cr	53					
	Mn	55	109.880				
	Fe	57	97.965				
	Co	59	103.947				
	Ni	60	98.514				
	Cu	63					
	Cu	65	93.972				
	Zn	66	96.229				
	Zn	67					
	Zn	68					
>	Ge	74		85.0			
	As	75	104.447				
	Se	77					
	Se	82	96.048				
	Kr	83					
	Sr	88	113.603				
	Y	89					
	Mo	98	94.447				
	Ag	107	100.236				
	Cd	111	98.447				
	Cd	114					
>	In	115		87.8			
	Sn	120	108.596				
	Sb	121	107.932				
	Sb	123					
	Ba	135					
	Ba	137	97.576				
	Ho	165					
>	Lu	175		94.7			
	Tl	205	109.379				
	Pb	208	109.040				
	Bi	209					
	Th	232	117.372				
	U	238	124.798				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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: Saturday, February 20, 2010 17:11:42
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 6.104

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**55.258**	ug/L	1.843	90037	0.124
	Be	9	**54.515**	ug/L	1.274	21744	0.030
	B	11	**103.354**	ug/L	4.966	39938	0.055
	Na	23	**4637.922**	ug/L	10.916	15102849	20.880
	Mg	24	**4951.636**	ug/L	4.536	11945665	16.500
	Al	27	**4973.524**	ug/L	5.815	17425177	24.104
	P	31	**4723.461**	ug/L	4.089	1086175	1.493
	K	39	**5057.587**	ug/L	7.187	28154070	38.170
	Ca	43	**4863.761**	ug/L	1.253	65393	0.090
>	Sc	45		ug/L		723705	723704.623
	Ti	47	**49.070**	ug/L	2.709	35403	0.048
	V	51	**50.157**	ug/L	3.290	427611	0.592
	Cr	52	**51.076**	ug/L	3.527	338975	0.470
	Cr	53		ug/L		133639	0.040
	Mn	55	**53.397**	ug/L	2.973	579317	0.799
	Fe	57	**4795.682**	ug/L	2.333	1093324	1.503
	Co	59	**51.041**	ug/L	4.324	435689	0.602
	Ni	60	**51.887**	ug/L	4.099	99016	0.137
	Cu	63		ug/L		236865	0.327
	Cu	65	**51.704**	ug/L	2.497	121185	0.167
	Zn	66	**53.159**	ug/L	2.623	90464	0.154
	Zn	67		ug/L		25426	0.021
	Zn	68		ug/L		68227	0.114
>	Ge	74		ug/L		569851	569850.788
	As	75	**48.200**	ug/L	2.220	84532	0.149
	Se	77		ug/L		13494	0.011
	Se	82	**51.847**	ug/L	2.434	9332	0.016
	Kr	83		ug/L		174	-0.000
	Sr	88	**53.545**	ug/L	0.624	1036626	2.806
	Y	89		ug/L		117	0.000
	Mo	98	**49.378**	ug/L	1.178	246526	0.667
	Ag	107	**51.934**	ug/L	0.836	428973	1.161
	Cd	111	**51.437**	ug/L	1.393	110831	0.300
	Cd	114		ug/L		261158	0.707
>	In	115		ug/L		369392	369391.812
	Sn	120	**52.310**	ug/L	0.587	447249	1.209
	Sb	121	**51.460**	ug/L	2.496	379633	1.027
	Sb	123		ug/L		289484	0.783
	Ba	135		ug/L		108140	0.200
	Ba	137	**48.580**	ug/L	0.290	192394	0.355
	Ho	165		ug/L		68	0.000
>	Lu	175		ug/L		541330	541330.313
	Tl	205	**53.289**	ug/L	1.405	1055983	1.950
	Pb	208	**54.369**	ug/L	0.633	2012023	3.716
	Bi	209		ug/L		1183	0.000
	Th	232	**53.017**	ug/L	1.714	2301631	4.252
	U	238	**55.104**	ug/L	1.444	2396100	4.426

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	110.517				
	Be	9	109.030				
	B	11	103.354				
	Na	23	92.758				
	Mg	24	99.033				
	Al	27	98.486				
	P	31	94.469				
	K	39	101.152				
	Ca	43	97.275				
>	Sc	45		86.2			
	Ti	47	98.141				
	V	51	100.313				
	Cr	52	102.152				
	Cr	53					
	Mn	55	106.795				
	Fe	57	95.914				
	Co	59	102.082				
	Ni	60	103.775				
	Cu	63					
	Cu	65	103.408				
	Zn	66	106.317				
	Zn	67					
	Zn	68					
>	Ge	74		91.3			
	As	75	96.399				
	Se	77					
	Se	82	103.695				
	Kr	83					
	Sr	88	107.090				
	Y	89					
	Mo	98	98.756				
	Ag	107	103.868				
	Cd	111	102.875				
	Cd	114					
>	In	115		93.0			
	Sn	120	104.619				
	Sb	121	102.921				
	Sb	123					
	Ba	135					
	Ba	137	97.160				
	Ho	165					
>	Lu	175		101.3			
	Tl	205	106.579				
	Pb	208	108.738				
	Bi	209					
	Th	232	106.034				
	U	238	110.207				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	CCV is out of limits (+/- 10%)
QC Std 6	U	238	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Saturday, February 20, 2010 17:17:50
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 7.105

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.017**	ug/L	11.359	60	0.000
	Be	9	**0.001**	ug/L	510.448	18	0.000
	B	11	**3.763**	ug/L	9.928	1686	0.002
	Na	23	**-0.127**	ug/L	1727.802	27361	-0.001
	Mg	24	**0.529**	ug/L	114.663	1333	0.002
	Al	27	**1.689**	ug/L	33.012	8336	0.008
	P	31	**-5.522**	ug/L	12.407	5770	-0.002
	K	39	**-2.836**	ug/L	120.934	573629	-0.021
	Ca	43	**-3.962**	ug/L	113.429	451	-0.000
>	Sc	45		ug/L		759739	759739.455
	Ti	47	**-0.187**	ug/L	13.561	608	-0.000
	V	51	**-0.608**	ug/L	47.660	-6393	-0.007
	Cr	52	**-0.016**	ug/L	326.781	-808	-0.000
	Cr	53		ug/L		124988	0.019
	Mn	55	**0.006**	ug/L	22.201	1400	0.000
	Fe	57	**2.783**	ug/L	23.545	7124	0.001
	Co	59	**0.000**	ug/L	429.275	112	0.000
	Ni	60	**-0.003**	ug/L	192.700	170	-0.000
	Cu	63		ug/L		321	0.000
	Cu	65	**0.008**	ug/L	122.821	210	0.000
	Zn	66	**-0.036**	ug/L	98.522	2431	-0.000
	Zn	67		ug/L		14224	0.002
	Zn	68		ug/L		2948	-0.000
>	Ge	74		ug/L		565521	565520.874
	As	75	**-0.028**	ug/L	849.867	-224	-0.000
	Se	77		ug/L		9332	0.004
	Se	82	**-0.032**	ug/L	303.967	-9	-0.000
	Kr	83		ug/L		194	-0.000
	Sr	88	**0.003**	ug/L	77.385	218	0.000
	Y	89		ug/L		69	-0.000
	Mo	98	**0.080**	ug/L	5.323	449	0.001
	Ag	107	**0.005**	ug/L	31.906	71	0.000
	Cd	111	**0.007**	ug/L	93.035	26	0.000
	Cd	114		ug/L		68	0.000
>	In	115		ug/L		369257	369257.357
	Sn	120	**0.009**	ug/L	92.304	888	0.000
	Sb	121	**0.231**	ug/L	16.430	1868	0.005
	Sb	123		ug/L		1447	0.004
	Ba	135		ug/L		51	0.000
	Ba	137	**-0.001**	ug/L	156.280	61	-0.000
	Ho	165		ug/L		21	-0.000
>	Lu	175		ug/L		539429	539429.182
	Tl	205	**0.167**	ug/L	19.379	3647	0.006
	Pb	208	**0.004**	ug/L	36.566	504	0.000
	Bi	209		ug/L		757	-0.001
	Th	232	**0.045**	ug/L	13.405	2199	0.004
	U	238	**0.007**	ug/L	14.264	391	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

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		90.4			
	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		90.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		92.9			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		100.9			
	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

ICPMS#5 - Summary Report

Sample ID: QC Std 10
Sample Date/Time: Saturday, February 20, 2010 17:23:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 10.106

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**964.530**	**ug/L**	1.495	1451209	2.172
	Be	9	**974.948**	**ug/L**	2.155	358849	0.537
	B	11	**2.462**	**ug/L**	4.330	1020	0.001
	Na	23	**43333.719**	**ug/L**	5.949	130510961	195.088
	Mg	24	**44355.396**	**ug/L**	4.920	98768506	147.801
	Al	27	**43989.439**	**ug/L**	7.431	142348545	213.195
	P	31	**22767.876**	**ug/L**	3.544	4812819	7.195
	K	39	**49940.802**	**ug/L**	5.544	252267922	376.902
	Ca	43	**47197.496**	**ug/L**	2.386	582110	0.871
>	Sc	45		**ug/L**		668361	668360.564
	Ti	47	**40.012**	**ug/L**	1.778	26789	0.039
	V	51	**845.020**	**ug/L**	4.280	6666070	9.981
	Cr	52	**857.039**	**ug/L**	4.644	5263249	7.881
	Cr	53		**ug/L**		781759	1.025
	Mn	55	**933.517**	**ug/L**	1.438	9338332	13.973
	Fe	57	**48201.410**	**ug/L**	2.377	10098749	15.106
	Co	59	**827.708**	**ug/L**	4.169	6525358	9.769
	Ni	60	**829.818**	**ug/L**	1.643	1460989	2.186
	Cu	63		**ug/L**		3519134	5.267
	Cu	65	**791.000**	**ug/L**	1.491	1710264	2.559
	Zn	66	**2183.567**	**ug/L**	1.380	3307146	6.343
	Zn	67		**ug/L**		538964	1.011
	Zn	68		**ug/L**		1548516	2.966
>	Ge	74		**ug/L**		521099	521098.715
	As	75	**818.797**	**ug/L**	1.457	1315949	2.526
	Se	77		**ug/L**		63161	0.108
	Se	82	**466.499**	**ug/L**	2.831	76819	0.147
	Kr	83		**ug/L**		276	0.000
	Sr	88	**956.175**	**ug/L**	0.852	17140715	50.106
	Y	89		**ug/L**		616	0.002
	Mo	98	**924.088**	**ug/L**	0.667	4271767	12.487
	Ag	107	**214.151**	**ug/L**	1.241	1637984	4.788
	Cd	111	**832.251**	**ug/L**	1.436	1660512	4.854
	Cd	114		**ug/L**		4149547	12.130
>	In	115		**ug/L**		342100	342100.156
	Sn	120	**876.996**	**ug/L**	1.110	6932537	20.262
	Sb	121	**225.037**	**ug/L**	1.071	1537069	4.493
	Sb	123		**ug/L**		1226199	3.584
	Ba	135		**ug/L**		1718204	3.300
	Ba	137	**837.564**	**ug/L**	0.752	3188957	6.125
	Ho	165		**ug/L**		160	0.000
>	Lu	175		**ug/L**		520600	520599.709
	Tl	205	**455.416**	**ug/L**	0.628	8676875	16.667
	Pb	208	**4639.172**	**ug/L**	0.486	165079517	317.097
	Bi	209		**ug/L**		5474	0.008
	Th	232	**2456.883**	**ug/L**	1.253	102568692	197.028
	U	238	**5206.887**	**ug/L**	1.427	217740319	418.266

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	96.453				
	Be	9	97.495				
	B	11					
	Na	23	86.667				
	Mg	24	88.711				
	Al	27	87.979				
	P	31	91.072				
	K	39	99.882				
	Ca	43	94.395				
>	Sc	45		79.6			
	Ti	47					
	V	51	84.502				
	Cr	52	85.704				
	Cr	53					
	Mn	55	93.352				
	Fe	57	96.403				
	Co	59	82.771				
	Ni	60	82.982				
	Cu	63					
	Cu	65	79.100				
	Zn	66	87.343				
	Zn	67					
	Zn	68					
>	Ge	74		83.5			
	As	75	81.880				
	Se	77					
	Se	82	93.300				
	Kr	83					
	Sr	88	95.618				
	Y	89					
	Mo	98	92.409				
	Ag	107	85.661				
	Cd	111	83.225				
	Cd	114					
>	In	115		86.1			
	Sn	120	87.700				
	Sb	121	90.015				
	Sb	123					
	Ba	135					
	Ba	137	83.756				
	Ho	165					
>	Lu	175		97.4			
	Tl	205	91.083				
	Pb	208	92.783				
	Bi	209					
	Th	232	98.275				
	U	238	104.138				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	Na	23	LRS is out of limits (+/- 10%)
QC Std 10	Mg	24	LRS is out of limits (+/- 10%)
QC Std 10	Al	27	LRS is out of limits (+/- 10%)
Sc 45 Int Std for QC	Sc	45	
QC Std 10	V	51	LRS is out of limits (+/- 10%)
QC Std 10	Cr	52	LRS is out of limits (+/- 10%)
QC Std 10	Co	59	LRS is out of limits (+/- 10%)

QC Std 10	Ni	60LRS is out of limits (+/- 10%)
QC Std 10	Cu	65LRS is out of limits (+/- 10%)
QC Std 10	Zn	66LRS is out of limits (+/- 10%)
QC Std 10	As	75LRS is out of limits (+/- 10%)
QC Std 10	Ag	107LRS is out of limits (+/- 10%)
QC Std 10	Cd	111LRS is out of limits (+/- 10%)
QC Std 10	Sn	120LRS is out of limits (+/- 10%)
QC Std 10	Ba	137LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 11
Sample Date/Time: Saturday, February 20, 2010 17:30:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 11.107

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**53.906**	**ug/L**	1.110	90043	0.121
	Be	9	**53.030**	**ug/L**	2.002	21679	0.029
	B	11	**100.639**	**ug/L**	3.162	39894	0.054
	Na	23	**4391.687**	**ug/L**	0.756	14691150	19.771
	Mg	24	**4760.342**	**ug/L**	6.872	11762701	15.862
	Al	27	**4562.569**	**ug/L**	5.033	16405869	22.112
	P	31	**4687.380**	**ug/L**	1.067	1105581	1.481
	K	39	**4826.804**	**ug/L**	2.712	27594717	36.428
	Ca	43	**4819.223**	**ug/L**	2.170	66419	0.089
>	Sc	45		**ug/L**		741674	741674.026
	Ti	47	**49.109**	**ug/L**	2.564	36321	0.048
	V	51	**49.093**	**ug/L**	1.868	429129	0.580
	Cr	52	**50.445**	**ug/L**	2.070	343298	0.464
	Cr	53		**ug/L**		135762	0.038
	Mn	55	**52.609**	**ug/L**	0.972	585279	0.787
	Fe	57	**4722.084**	**ug/L**	1.616	1103831	1.480
	Co	59	**49.240**	**ug/L**	0.818	431100	0.581
	Ni	60	**50.223**	**ug/L**	2.209	98284	0.132
	Cu	63		**ug/L**		236959	0.319
	Cu	65	**50.049**	**ug/L**	2.660	120290	0.162
	Zn	66	**53.732**	**ug/L**	1.292	90770	0.156
	Zn	67		**ug/L**		26220	0.023
	Zn	68		**ug/L**		69079	0.117
>	Ge	74		**ug/L**		565608	565608.058
	As	75	**49.514**	**ug/L**	1.568	86212	0.153
	Se	77		**ug/L**		13100	0.010
	Se	82	**52.253**	**ug/L**	3.638	9336	0.017
	Kr	83		**ug/L**		186	-0.000
	Sr	88	**54.071**	**ug/L**	1.025	1044896	2.833
	Y	89		**ug/L**		120	0.000
	Mo	98	**49.410**	**ug/L**	0.641	246239	0.668
	Ag	107	**52.274**	**ug/L**	0.577	431001	1.169
	Cd	111	**51.373**	**ug/L**	0.888	110497	0.300
	Cd	114		**ug/L**		261011	0.708
>	In	115		**ug/L**		368747	368747.288
	Sn	120	**52.295**	**ug/L**	1.064	446306	1.208
	Sb	121	**52.425**	**ug/L**	1.975	386038	1.047
	Sb	123		**ug/L**		296700	0.804
	Ba	135		**ug/L**		108882	0.207
	Ba	137	**49.585**	**ug/L**	1.124	190893	0.363
	Ho	165		**ug/L**		53	0.000
>	Lu	175		**ug/L**		526274	526273.585
	Tl	205	**53.761**	**ug/L**	2.863	1035488	1.967
	Pb	208	**55.253**	**ug/L**	1.561	1987616	3.777
	Bi	209		**ug/L**		1125	0.000
	Th	232	**54.185**	**ug/L**	2.652	2286454	4.345
	U	238	**56.694**	**ug/L**	0.526	2396768	4.554

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	107.813				
	Be	9	106.060				
	B	11	100.639				
	Na	23	87.834				
	Mg	24	95.207				
	Al	27	90.348				
	P	31	93.748				
	K	39	96.536				
	Ca	43	96.384				
>	Sc	45		88.3			
	Ti	47	98.217				
	V	51	98.186				
	Cr	52	100.890				
	Cr	53					
	Mn	55	105.218				
	Fe	57	94.442				
	Co	59	98.480				
	Ni	60	100.446				
	Cu	63					
	Cu	65	100.097				
	Zn	66	107.464				
	Zn	67					
	Zn	68					
>	Ge	74		90.7			
	As	75	99.028				
	Se	77					
	Se	82	104.505				
	Kr	83					
	Sr	88	108.143				
	Y	89					
	Mo	98	98.821				
	Ag	107	104.548				
	Cd	111	102.746				
	Cd	114					
>	In	115		92.8			
	Sn	120	104.591				
	Sb	121	104.851				
	Sb	123					
	Ba	135					
	Ba	137	99.170				
	Ho	165					
>	Lu	175		98.5			
	Tl	205	107.522				
	Pb	208	110.507				
	Bi	209					
	Th	232	108.369				
	U	238	113.388				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	Na	23	CCV is out of limits (+/- 10%)
QC Std 11	Pb	208	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: Saturday, February 20, 2010 17:36:09
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 12.108

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.093**	**ug/L**	7.051	186	0.000
	Be	9	**0.018**	**ug/L**	110.189	25	0.000
	B	11	**3.966**	**ug/L**	17.087	1733	0.002
	Na	23	**-0.386**	**ug/L**	167.768	26024	-0.002
	Mg	24	**0.544**	**ug/L**	173.205	1334	0.002
	Al	27	**0.632**	**ug/L**	71.528	4334	0.003
	P	31	**-5.085**	**ug/L**	48.355	5765	-0.002
	K	39	**0.706**	**ug/L**	817.719	583704	0.005
	Ca	43	**-6.152**	**ug/L**	37.934	413	-0.000
>	Sc	45		**ug/L**		746945	746945.286
	Ti	47	**-0.291**	**ug/L**	16.504	522	-0.000
	V	51	**0.518**	**ug/L**	112.457	3548	0.006
	Cr	52	**0.042**	**ug/L**	96.460	-402	0.000
	Cr	53		**ug/L**		122855	0.019
	Mn	55	**0.012**	**ug/L**	30.131	1446	0.000
	Fe	57	**1.361**	**ug/L**	61.062	6668	0.000
	Co	59	**0.014**	**ug/L**	10.513	229	0.000
	Ni	60	**0.017**	**ug/L**	53.887	206	0.000
	Cu	63		**ug/L**		400	0.000
	Cu	65	**0.034**	**ug/L**	20.840	269	0.000
	Zn	66	**-0.058**	**ug/L**	56.236	2439	-0.000
	Zn	67		**ug/L**		15037	0.003
	Zn	68		**ug/L**		3125	0.000
>	Ge	74		**ug/L**		575829	575828.640
	As	75	**-0.028**	**ug/L**	520.187	-227	-0.000
	Se	77		**ug/L**		8598	0.002
	Se	82	**0.138**	**ug/L**	91.990	22	0.000
	Kr	83		**ug/L**		183	-0.000
	Sr	88	**0.005**	**ug/L**	6.531	245	0.000
	Y	89		**ug/L**		77	-0.000
	Mo	98	**0.120**	**ug/L**	10.656	651	0.002
	Ag	107	**0.005**	**ug/L**	22.549	74	0.000
	Cd	111	**0.006**	**ug/L**	93.920	24	0.000
	Cd	114		**ug/L**		66	0.000
>	In	115		**ug/L**		369771	369770.533
	Sn	120	**0.101**	**ug/L**	10.087	1676	0.002
	Sb	121	**0.783**	**ug/L**	13.242	5947	0.016
	Sb	123		**ug/L**		4619	0.012
	Ba	135		**ug/L**		61	0.000
	Ba	137	**0.001**	**ug/L**	162.875	70	0.000
	Ho	165		**ug/L**		28	-0.000
>	Lu	175		**ug/L**		528533	528532.662
	Tl	205	**0.279**	**ug/L**	13.166	5744	0.010
	Pb	208	**0.014**	**ug/L**	11.216	856	0.001
	Bi	209		**ug/L**		704	-0.001
	Th	232	**0.111**	**ug/L**	12.337	4939	0.009
	U	238	**0.041**	**ug/L**	10.249	1844	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		88.9			
	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		92.3			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		93.1			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		98.9			
	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

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Saturday, February 20, 2010 18:19:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 6.115

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**52.493**	**ug/L**	4.013	92543	0.118
	Be	9	**51.586**	**ug/L**	6.542	22245	0.028
	B	11	**101.904**	**ug/L**	5.117	42623	0.054
	Na	23	**4893.504**	**ug/L**	9.712	17245610	22.031
	Mg	24	**4959.243**	**ug/L**	2.701	12958594	16.525
	Al	27	**4614.803**	**ug/L**	0.770	17527662	22.366
	P	31	**4806.542**	**ug/L**	2.497	1196868	1.519
	K	39	**5039.639**	**ug/L**	5.954	30391479	38.034
	Ca	43	**4879.835**	**ug/L**	1.351	71029	0.090
>	Sc	45		**ug/L**		783620	783619.885
	Ti	47	**49.030**	**ug/L**	4.635	38267	0.048
	V	51	**47.321**	**ug/L**	2.626	436705	0.559
	Cr	52	**49.127**	**ug/L**	2.870	352998	0.452
	Cr	53		**ug/L**		161336	0.061
	Mn	55	**52.006**	**ug/L**	4.449	610566	0.778
	Fe	57	**4577.297**	**ug/L**	3.452	1129666	1.434
	Co	59	**47.632**	**ug/L**	4.570	440230	0.562
	Ni	60	**48.080**	**ug/L**	3.653	99334	0.127
	Cu	63		**ug/L**		242971	0.310
	Cu	65	**48.073**	**ug/L**	5.440	121897	0.156
	Zn	66	**53.350**	**ug/L**	1.733	92233	0.155
	Zn	67		**ug/L**		27353	0.024
	Zn	68		**ug/L**		69608	0.115
>	Ge	74		**ug/L**		578833	578832.598
	As	75	**48.091**	**ug/L**	3.435	85660	0.148
	Se	77		**ug/L**		16763	0.016
	Se	82	**51.052**	**ug/L**	2.873	9335	0.016
	Kr	83		**ug/L**		175	-0.000
	Sr	88	**53.718**	**ug/L**	0.896	1025329	2.815
	Y	89		**ug/L**		140	0.000
	Mo	98	**48.970**	**ug/L**	1.806	241002	0.662
	Ag	107	**51.426**	**ug/L**	2.022	418704	1.150
	Cd	111	**50.624**	**ug/L**	1.954	107532	0.295
	Cd	114		**ug/L**		255111	0.701
>	In	115		**ug/L**		364195	364195.204
	Sn	120	**51.519**	**ug/L**	2.586	434277	1.190
	Sb	121	**50.715**	**ug/L**	2.292	368807	1.012
	Sb	123		**ug/L**		283860	0.779
	Ba	135		**ug/L**		106774	0.200
	Ba	137	**48.126**	**ug/L**	2.377	187991	0.352
	Ho	165		**ug/L**		60	0.000
>	Lu	175		**ug/L**		533993	533992.714
	Tl	205	**53.352**	**ug/L**	1.255	1042891	1.952
	Pb	208	**53.775**	**ug/L**	1.272	1963003	3.676
	Bi	209		**ug/L**		946	-0.000
	Th	232	**52.618**	**ug/L**	0.252	2253509	4.220
	U	238	**54.593**	**ug/L**	1.185	2341906	4.385

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	104.985				
	Be	9	103.172				
	B	11	101.904				
	Na	23	97.870				
	Mg	24	99.185				
	Al	27	91.382				
	P	31	96.131				
	K	39	100.793				
	Ca	43	97.597				
>	Sc	45		93.3			
	Ti	47	98.060				
	V	51	94.642				
	Cr	52	98.255				
	Cr	53					
	Mn	55	104.011				
	Fe	57	91.546				
	Co	59	95.264				
	Ni	60	96.161				
	Cu	63					
	Cu	65	96.145				
	Zn	66	106.700				
	Zn	67					
	Zn	68					
>	Ge	74		92.8			
	As	75	96.182				
	Se	77					
	Se	82	102.105				
	Kr	83					
	Sr	88	107.437				
	Y	89					
	Mo	98	97.941				
	Ag	107	102.852				
	Cd	111	101.248				
	Cd	114					
>	In	115		91.7			
	Sn	120	103.037				
	Sb	121	101.429				
	Sb	123					
	Ba	135					
	Ba	137	96.252				
	Ho	165					
>	Lu	175		99.9			
	Tl	205	106.704				
	Pb	208	107.550				
	Bi	209					
	Th	232	105.236				
	U	238	109.186				

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: Saturday, February 20, 2010 18:26:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 7.116

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	0.041	ug/L	5.584	107	0.000
	Be	9	0.011	ug/L	64.200	23	0.000
	B	11	4.558	ug/L	13.595	2115	0.002
	Na	23	-2.101	ug/L	65.607	21684	-0.009
	Mg	24	0.256	ug/L	173.205	667	0.001
	Al	27	0.118	ug/L	342.189	2667	0.001
	P	31	-3.252	ug/L	3.103	6654	-0.001
	K	39	-5.234	ug/L	37.420	589937	-0.040
	Ca	43	-8.702	ug/L	11.165	406	-0.000
>	Sc	45		ug/L		800532	800531.611
	Ti	47	-0.340	ug/L	12.557	521	-0.000
	V	51	0.261	ug/L	257.712	1400	0.003
	Cr	52	0.394	ug/L	16.496	2166	0.004
	Cr	53		ug/L		146483	0.038
	Mn	55	0.029	ug/L	5.759	1752	0.000
	Fe	57	1.018	ug/L	37.497	7063	0.000
	Co	59	0.004	ug/L	39.333	147	0.000
	Ni	60	0.002	ug/L	465.533	188	0.000
	Cu	63		ug/L		338	0.000
	Cu	65	-0.003	ug/L	106.060	193	-0.000
	Zn	66	-0.032	ug/L	113.844	2444	-0.000
	Zn	67		ug/L		15546	0.004
	Zn	68		ug/L		3246	0.000
>	Ge	74		ug/L		566992	566992.374
	As	75	-0.104	ug/L	144.559	-355	-0.000
	Se	77		ug/L		12467	0.009
	Se	82	-0.087	ug/L	162.499	-19	-0.000
	Kr	83		ug/L		217	0.000
	Sr	88	0.003	ug/L	67.406	204	0.000
	Y	89		ug/L		67	-0.000
	Mo	98	0.049	ug/L	8.232	286	0.001
	Ag	107	0.004	ug/L	18.007	61	0.000
	Cd	111	0.011	ug/L	64.229	32	0.000
	Cd	114		ug/L		63	0.000
>	In	115		ug/L		356092	356092.477
	Sn	120	0.018	ug/L	24.956	931	0.000
	Sb	121	0.260	ug/L	15.826	2005	0.005
	Sb	123		ug/L		1479	0.004
	Ba	135		ug/L		38	-0.000
	Ba	137	0.000	ug/L	889.374	66	0.000
	Ho	165		ug/L		18	-0.000
>	Lu	175		ug/L		519576	519575.835
	Tl	205	0.332	ug/L	13.141	6645	0.012
	Pb	208	0.003	ug/L	72.248	470	0.000
	Bi	209		ug/L		624	-0.001
	Th	232	0.048	ug/L	16.887	2210	0.004
	U	238	0.008	ug/L	24.071	425	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		95.3			
	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		90.9			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		89.6			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		97.2			
	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

ICPMS#5 - Summary Report

Sample ID: QC Std 8
Sample Date/Time: Saturday, February 20, 2010 18:44:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 8.119

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**55.279**	**ug/L**	3.631	94736	0.124
	Be	9	**53.776**	**ug/L**	3.621	22558	0.030
	B	11	**106.717**	**ug/L**	5.293	43372	0.057
	Na	23	**4492.198**	**ug/L**	6.391	15406206	20.224
	Mg	24	**4941.247**	**ug/L**	7.365	12513117	16.465
	Al	27	**4817.108**	**ug/L**	7.458	17801878	23.346
	P	31	**4980.419**	**ug/L**	3.826	1204716	1.574
	K	39	**4941.053**	**ug/L**	8.501	28926092	37.290
	Ca	43	**5183.699**	**ug/L**	5.995	73203	0.096
>	Sc	45		**ug/L**		761728	761727.912
	Ti	47	**51.077**	**ug/L**	4.361	38728	0.050
	V	51	**51.335**	**ug/L**	3.216	460482	0.606
	Cr	52	**52.527**	**ug/L**	2.870	366881	0.483
	Cr	53		**ug/L**		172979	0.082
	Mn	55	**53.985**	**ug/L**	3.370	616352	0.808
	Fe	57	**4867.635**	**ug/L**	3.043	1167384	1.525
	Co	59	**50.239**	**ug/L**	2.452	451413	0.593
	Ni	60	**50.964**	**ug/L**	4.536	102311	0.134
	Cu	63		**ug/L**		247359	0.325
	Cu	65	**50.324**	**ug/L**	3.699	124084	0.163
	Zn	66	**54.949**	**ug/L**	0.719	94987	0.160
	Zn	67		**ug/L**		28866	0.026
	Zn	68		**ug/L**		71921	0.119
>	Ge	74		**ug/L**		579137	579137.224
	As	75	**48.537**	**ug/L**	1.063	86538	0.150
	Se	77		**ug/L**		18300	0.019
	Se	82	**51.801**	**ug/L**	3.315	9477	0.016
	Kr	83		**ug/L**		186	-0.000
	Sr	88	**56.413**	**ug/L**	1.557	1051558	2.956
	Y	89		**ug/L**		138	0.000
	Mo	98	**51.117**	**ug/L**	1.693	245712	0.691
	Ag	107	**54.251**	**ug/L**	0.694	431507	1.213
	Cd	111	**52.934**	**ug/L**	1.992	109812	0.309
	Cd	114		**ug/L**		260910	0.734
>	In	115		**ug/L**		355752	355752.259
	Sn	120	**53.658**	**ug/L**	2.896	441611	1.240
	Sb	121	**52.902**	**ug/L**	2.917	375699	1.056
	Sb	123		**ug/L**		289383	0.814
	Ba	135		**ug/L**		110300	0.209
	Ba	137	**49.255**	**ug/L**	0.921	189963	0.360
	Ho	165		**ug/L**		65	0.000
>	Lu	175		**ug/L**		527198	527197.534
	Tl	205	**54.166**	**ug/L**	1.534	1045312	1.982
	Pb	208	**55.398**	**ug/L**	1.535	1996342	3.787
	Bi	209		**ug/L**		872	-0.000
	Th	232	**53.552**	**ug/L**	0.321	2264255	4.295
	U	238	**56.444**	**ug/L**	2.032	2390074	4.534

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Li	7	110.559				
	Be	9	107.552				
	B	11	106.717				
	Na	23	89.844				
	Mg	24	98.825				
	Al	27	95.388				
	P	31	99.608				
	K	39	98.821				
	Ca	43	103.674				
>	Sc	45		90.7			
	Ti	47	102.154				
	V	51	102.670				
	Cr	52	105.054				
	Cr	53					
	Mn	55	107.970				
	Fe	57	97.353				
	Co	59	100.478				
	Ni	60	101.929				
	Cu	63					
	Cu	65	100.647				
	Zn	66	109.898				
	Zn	67					
	Zn	68					
>	Ge	74		92.8			
	As	75	97.075				
	Se	77					
	Se	82	103.601				
	Kr	83					
	Sr	88	112.827				
	Y	89					
	Mo	98	102.234				
	Ag	107	108.501				
	Cd	111	105.868				
	Cd	114					
>	In	115		89.5			
	Sn	120	107.315				
	Sb	121	105.804				
	Sb	123					
	Ba	135					
	Ba	137	98.510				
	Ho	165					
>	Lu	175		98.6			
	Tl	205	108.332				
	Pb	208	110.795				
	Bi	209					
	Th	232	107.104				
	U	238	112.888				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Li	7	CCV is out of limits (+/- 10%)
QC Std 8	Na	23	CCV is out of limits (+/- 10%)
QC Std 8	Sr	88	CCV is out of limits (+/- 10%)
QC Std 8	Pb	208	CCV is out of limits (+/- 10%)
QC Std 8	U	238	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Saturday, February 20, 2010 18:50:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 9.120

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.041**	**ug/L**	17.546	103	0.000
	Be	9	**-0.003**	**ug/L**	148.672	17	-0.000
	B	11	**4.652**	**ug/L**	17.729	2104	0.002
	Na	23	**-1.391**	**ug/L**	150.263	23688	-0.006
	Mg	24	**0.387**	**ug/L**	99.267	1000	0.001
	Al	27	**0.214**	**ug/L**	321.867	3000	0.001
	P	31	**-2.240**	**ug/L**	58.293	6764	-0.001
	K	39	**1.952**	**ug/L**	184.051	619486	0.015
	Ca	43	**-8.544**	**ug/L**	32.733	399	-0.000
>	Sc	45		**ug/L**		783209	783208.627
	Ti	47	**-0.282**	**ug/L**	15.313	553	-0.000
	V	51	**-0.012**	**ug/L**	3374.775	-1007	-0.000
	Cr	52	**0.406**	**ug/L**	10.383	2209	0.004
	Cr	53		**ug/L**		151948	0.049
	Mn	55	**0.033**	**ug/L**	18.183	1755	0.000
	Fe	57	**1.880**	**ug/L**	29.225	7120	0.001
	Co	59	**0.002**	**ug/L**	72.901	126	0.000
	Ni	60	**0.001**	**ug/L**	1062.533	183	0.000
	Cu	63		**ug/L**		313	0.000
	Cu	65	**-0.010**	**ug/L**	63.017	173	-0.000
	Zn	66	**-0.017**	**ug/L**	405.042	2473	-0.000
	Zn	67		**ug/L**		16145	0.005
	Zn	68		**ug/L**		3211	0.000
>	Ge	74		**ug/L**		568211	568210.955
	As	75	**0.149**	**ug/L**	194.407	86	0.000
	Se	77		**ug/L**		13466	0.011
	Se	82	**0.022**	**ug/L**	369.110	1	0.000
	Kr	83		**ug/L**		192	-0.000
	Sr	88	**0.004**	**ug/L**	37.296	222	0.000
	Y	89		**ug/L**		72	-0.000
	Mo	98	**0.038**	**ug/L**	16.299	231	0.001
	Ag	107	**0.004**	**ug/L**	40.721	65	0.000
	Cd	111	**0.009**	**ug/L**	49.404	28	0.000
	Cd	114		**ug/L**		65	0.000
>	In	115		**ug/L**		351028	351028.451
	Sn	120	**0.010**	**ug/L**	70.211	853	0.000
	Sb	121	**0.236**	**ug/L**	19.234	1815	0.005
	Sb	123		**ug/L**		1419	0.004
	Ba	135		**ug/L**		46	-0.000
	Ba	137	**-0.000**	**ug/L**	848.129	63	-0.000
	Ho	165		**ug/L**		31	0.000
>	Lu	175		**ug/L**		518661	518660.701
	Tl	205	**0.228**	**ug/L**	16.044	4661	0.008
	Pb	208	**0.003**	**ug/L**	29.379	464	0.000
	Bi	209		**ug/L**		607	-0.001
	Th	232	**0.043**	**ug/L**	14.057	2029	0.003
	U	238	**0.007**	**ug/L**	11.280	386	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

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		93.2			
	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		91.1			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		88.3			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		97.1			
	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

ICPMS#5 - Summary Report

Sample ID: QC Std 8
Sample Date/Time: Saturday, February 20, 2010 19:21:24
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 8.125

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**48.891**	ug/L	3.081	97416	0.110
	Be	9	**47.520**	ug/L	4.144	23169	0.026
	B	11	**97.780**	ug/L	5.033	46230	0.052
	Na	23	**5328.270**	ug/L	3.121	21263887	23.988
	Mg	24	**4799.783**	ug/L	5.778	14157137	15.994
	Al	27	**5225.126**	ug/L	8.076	22477398	25.324
	P	31	**4975.117**	ug/L	6.337	1397815	1.572
	K	39	**4618.239**	ug/L	8.383	31510184	34.854
	Ca	43	**4923.122**	ug/L	4.016	80910	0.091
>	Sc	45		ug/L		885541	885541.120
	Ti	47	**47.207**	ug/L	5.014	41656	0.046
	V	51	**47.309**	ug/L	6.493	492699	0.559
	Cr	52	**48.068**	ug/L	4.185	390060	0.442
	Cr	53		ug/L		177406	0.055
	Mn	55	**49.960**	ug/L	6.253	662417	0.748
	Fe	57	**4371.200**	ug/L	3.735	1219214	1.370
	Co	59	**44.670**	ug/L	4.447	466312	0.527
	Ni	60	**44.758**	ug/L	5.410	104436	0.118
	Cu	63		ug/L		253192	0.286
	Cu	65	**44.989**	ug/L	5.583	128886	0.146
	Zn	66	**51.734**	ug/L	0.811	96859	0.150
	Zn	67		ug/L		30238	0.025
	Zn	68		ug/L		75553	0.115
>	Ge	74		ug/L		626177	626176.728
	As	75	**47.165**	ug/L	1.180	90917	0.146
	Se	77		ug/L		16976	0.014
	Se	82	**50.137**	ug/L	1.148	9921	0.016
	Kr	83		ug/L		191	-0.000
	Sr	88	**54.156**	ug/L	1.485	1097772	2.838
	Y	89		ug/L		143	0.000
	Mo	98	**48.690**	ug/L	1.653	254524	0.658
	Ag	107	**50.623**	ug/L	1.780	437827	1.132
	Cd	111	**49.606**	ug/L	1.503	111924	0.289
	Cd	114		ug/L		265452	0.686
>	In	115		ug/L		386793	386793.285
	Sn	120	**51.071**	ug/L	0.682	457230	1.180
	Sb	121	**50.423**	ug/L	1.561	389506	1.007
	Sb	123		ug/L		300948	0.778
	Ba	135		ug/L		112798	0.208
	Ba	137	**50.040**	ug/L	1.218	198245	0.366
	Ho	165		ug/L		62	0.000
>	Lu	175		ug/L		541586	541586.379
	Tl	205	**51.745**	ug/L	1.238	1025833	1.894
	Pb	208	**52.681**	ug/L	0.794	1950381	3.601
	Bi	209		ug/L		865	-0.001
	Th	232	**50.534**	ug/L	1.935	2194605	4.053
	U	238	**52.563**	ug/L	1.847	2286413	4.222

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	97.782				
	Be	9	95.040				
	B	11	97.780				
	Na	23	106.565				
	Mg	24	95.996				
	Al	27	103.468				
	P	31	99.502				
	K	39	92.365				
	Ca	43	98.462				
>	Sc	45		105.4			
	Ti	47	94.413				
	V	51	94.618				
	Cr	52	96.135				
	Cr	53					
	Mn	55	99.920				
	Fe	57	87.424				
	Co	59	89.341				
	Ni	60	89.517				
	Cu	63					
	Cu	65	89.979				
	Zn	66	103.469				
	Zn	67					
	Zn	68					
>	Ge	74		100.4			
	As	75	94.331				
	Se	77					
	Se	82	100.275				
	Kr	83					
	Sr	88	108.312				
	Y	89					
	Mo	98	97.380				
	Ag	107	101.246				
	Cd	111	99.212				
	Cd	114					
>	In	115		97.3			
	Sn	120	102.142				
	Sb	121	100.846				
	Sb	123					
	Ba	135					
	Ba	137	100.081				
	Ho	165					
>	Lu	175		101.3			
	Tl	205	103.491				
	Pb	208	105.362				
	Bi	209					
	Th	232	101.069				
	U	238	105.125				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Fe	57	CCV is out of limits (+/- 10%)
QC Std 8	Co	59	CCV is out of limits (+/- 10%)
QC Std 8	Ni	60	CCV is out of limits (+/- 10%)
QC Std 8	Cu	65	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Saturday, February 20, 2010 19:27:33
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 9.126

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.039**	**ug/L**	1.912	111	0.000
	Be	9	**-0.010**	**ug/L**	26.066	15	-0.000
	B	11	**3.963**	**ug/L**	10.906	2009	0.002
	Na	23	**0.225**	**ug/L**	1532.931	32374	0.001
	Mg	24	**0.350**	**ug/L**	101.207	1000	0.001
	Al	27	**0.303**	**ug/L**	182.410	3667	0.001
	P	31	**-3.293**	**ug/L**	21.832	7171	-0.001
	K	39	**-0.073**	**ug/L**	1410.995	670722	-0.001
	Ca	43	**-8.283**	**ug/L**	30.116	445	-0.000
>	Sc	45		**ug/L**		864329	864329.071
	Ti	47	**-0.265**	**ug/L**	12.422	626	-0.000
	V	51	**0.317**	**ug/L**	137.281	2172	0.004
	Cr	52	**0.330**	**ug/L**	2.577	1831	0.003
	Cr	53		**ug/L**		157777	0.037
	Mn	55	**0.025**	**ug/L**	12.605	1845	0.000
	Fe	57	**-0.566**	**ug/L**	77.734	7198	-0.000
	Co	59	**0.001**	**ug/L**	54.267	127	0.000
	Ni	60	**-0.008**	**ug/L**	13.926	182	-0.000
	Cu	63		**ug/L**		376	0.000
	Cu	65	**-0.009**	**ug/L**	37.813	192	-0.000
	Zn	66	**-0.097**	**ug/L**	50.356	2433	-0.000
	Zn	67		**ug/L**		16769	0.005
	Zn	68		**ug/L**		3285	0.000
>	Ge	74		**ug/L**		590252	590252.213
	As	75	**0.372**	**ug/L**	51.295	495	0.001
	Se	77		**ug/L**		12328	0.008
	Se	82	**0.025**	**ug/L**	330.523	2	0.000
	Kr	83		**ug/L**		194	-0.000
	Sr	88	**0.005**	**ug/L**	12.554	236	0.000
	Y	89		**ug/L**		91	-0.000
	Mo	98	**0.040**	**ug/L**	11.791	246	0.001
	Ag	107	**0.004**	**ug/L**	28.298	67	0.000
	Cd	111	**0.010**	**ug/L**	60.738	31	0.000
	Cd	114		**ug/L**		45	-0.000
>	In	115		**ug/L**		358182	358182.019
	Sn	120	**0.016**	**ug/L**	41.268	925	0.000
	Sb	121	**0.246**	**ug/L**	18.304	1919	0.005
	Sb	123		**ug/L**		1490	0.004
	Ba	135		**ug/L**		46	0.000
	Ba	137	**0.000**	**ug/L**	423.517	64	0.000
	Ho	165		**ug/L**		34	0.000
>	Lu	175		**ug/L**		506097	506097.030
	Tl	205	**0.215**	**ug/L**	21.574	4307	0.008
	Pb	208	**0.004**	**ug/L**	22.393	481	0.000
	Bi	209		**ug/L**		588	-0.001
	Th	232	**0.045**	**ug/L**	21.626	2052	0.004
	U	238	**0.007**	**ug/L**	3.280	368	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	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		94.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		90.1			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		94.7			
	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 8
Sample Date/Time: Saturday, February 20, 2010 20:04:22
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 8.132

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**49.513**	**ug/L**	4.040	91239	0.111
	Be	9	**47.456**	**ug/L**	1.200	21419	0.026
	B	11	**102.440**	**ug/L**	2.809	44809	0.055
	Na	23	**5551.617**	**ug/L**	5.161	20512717	24.993
	Mg	24	**5444.525**	**ug/L**	2.829	14846565	18.142
	Al	27	**5122.594**	**ug/L**	9.487	20319679	24.827
	P	31	**5368.442**	**ug/L**	3.886	1395733	1.697
	K	39	**4690.749**	**ug/L**	10.359	29645676	35.401
	Ca	43	**5066.349**	**ug/L**	3.715	77019	0.093
>	Sc	45		**ug/L**		818781	818781.298
	Ti	47	**48.015**	**ug/L**	2.409	39206	0.047
	V	51	**48.803**	**ug/L**	1.501	470830	0.576
	Cr	52	**48.987**	**ug/L**	3.191	367854	0.450
	Cr	53		**ug/L**		175392	0.069
	Mn	55	**50.702**	**ug/L**	2.375	622520	0.759
	Fe	57	**4487.561**	**ug/L**	0.784	1158431	1.406
	Co	59	**45.403**	**ug/L**	2.494	438660	0.536
	Ni	60	**44.956**	**ug/L**	2.449	97116	0.118
	Cu	63		**ug/L**		233936	0.286
	Cu	65	**44.292**	**ug/L**	2.225	117488	0.143
	Zn	66	**50.522**	**ug/L**	3.455	89678	0.147
	Zn	67		**ug/L**		28840	0.025
	Zn	68		**ug/L**		70365	0.113
>	Ge	74		**ug/L**		593333	593333.349
	As	75	**47.635**	**ug/L**	1.619	87009	0.147
	Se	77		**ug/L**		15773	0.014
	Se	82	**49.069**	**ug/L**	1.577	9200	0.016
	Kr	83		**ug/L**		199	-0.000
	Sr	88	**54.899**	**ug/L**	0.555	1044383	2.877
	Y	89		**ug/L**		148	0.000
	Mo	98	**49.620**	**ug/L**	1.661	243411	0.671
	Ag	107	**50.287**	**ug/L**	0.703	408149	1.124
	Cd	111	**49.421**	**ug/L**	1.968	104631	0.288
	Cd	114		**ug/L**		250019	0.689
>	In	115		**ug/L**		362989	362989.240
	Sn	120	**52.256**	**ug/L**	0.899	439035	1.207
	Sb	121	**51.043**	**ug/L**	0.864	370036	1.019
	Sb	123		**ug/L**		286486	0.789
	Ba	135		**ug/L**		109176	0.217
	Ba	137	**51.557**	**ug/L**	1.547	189544	0.377
	Ho	165		**ug/L**		54	0.000
>	Lu	175		**ug/L**		502590	502590.023
	Tl	205	**52.530**	**ug/L**	1.677	966385	1.922
	Pb	208	**53.148**	**ug/L**	1.844	1825901	3.633
	Bi	209		**ug/L**		796	-0.001
	Th	232	**50.205**	**ug/L**	1.188	2023552	4.026
	U	238	**51.480**	**ug/L**	0.620	2078397	4.135

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Li	7	99.027				
	Be	9	94.913				
	B	11	102.440				
	Na	23	111.032				
	Mg	24	108.891				
	Al	27	101.437				
	P	31	107.369				
	K	39	93.815				
	Ca	43	101.327				
>	Sc	45		97.5			
	Ti	47	96.030				
	V	51	97.606				
	Cr	52	97.975				
	Cr	53					
	Mn	55	101.404				
	Fe	57	89.751				
	Co	59	90.806				
	Ni	60	89.912				
	Cu	63					
	Cu	65	88.583				
	Zn	66	101.043				
	Zn	67					
	Zn	68					
>	Ge	74		95.1			
	As	75	95.271				
	Se	77					
	Se	82	98.138				
	Kr	83					
	Sr	88	109.798				
	Y	89					
	Mo	98	99.240				
	Ag	107	100.574				
	Cd	111	98.842				
	Cd	114					
>	In	115		91.3			
	Sn	120	104.513				
	Sb	121	102.086				
	Sb	123					
	Ba	135					
	Ba	137	103.113				
	Ho	165					
>	Lu	175		94.0			
	Tl	205	105.059				
	Pb	208	106.295				
	Bi	209					
	Th	232	100.410				
	U	238	102.960				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Na	23	CCV is out of limits (+/- 10%)
QC Std 8	Fe	57	CCV is out of limits (+/- 10%)
QC Std 8	Ni	60	CCV is out of limits (+/- 10%)
QC Std 8	Cu	65	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Saturday, February 20, 2010 20:10:31
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 9.133

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.036**	ug/L	8.735	99	0.000
	Be	9	**0.002**	ug/L	768.349	20	0.000
	B	11	**3.932**	ug/L	17.059	1874	0.002
	Na	23	**0.228**	ug/L	1092.153	30702	0.001
	Mg	24	**0.243**	ug/L	173.205	667	0.001
	Al	27	**0.437**	ug/L	53.614	4001	0.002
	P	31	**-1.513**	ug/L	21.642	7215	-0.000
	K	39	**2.966**	ug/L	237.297	650165	0.022
	Ca	43	**-5.645**	ug/L	43.265	458	-0.000
>	Sc	45		ug/L		814292	814291.715
	Ti	47	**-0.241**	ug/L	24.354	608	-0.000
	V	51	**0.202**	ug/L	273.427	926	0.002
	Cr	52	**0.098**	ug/L	45.852	-17	0.001
	Cr	53		ug/L		152217	0.042
	Mn	55	**0.023**	ug/L	24.454	1706	0.000
	Fe	57	**-1.087**	ug/L	65.370	6646	-0.000
	Co	59	**0.001**	ug/L	79.958	124	0.000
	Ni	60	**-0.006**	ug/L	18.112	176	-0.000
	Cu	63		ug/L		343	0.000
	Cu	65	**-0.011**	ug/L	55.396	176	-0.000
	Zn	66	**-0.137**	ug/L	23.856	2269	-0.000
	Zn	67		ug/L		16424	0.006
	Zn	68		ug/L		3169	0.000
>	Ge	74		ug/L		566693	566693.488
	As	75	**0.653**	ug/L	34.253	965	0.002
	Se	77		ug/L		10790	0.006
	Se	82	**0.003**	ug/L	5918.427	-2	0.000
	Kr	83		ug/L		234	0.000
	Sr	88	**0.004**	ug/L	19.885	219	0.000
	Y	89		ug/L		84	-0.000
	Mo	98	**0.034**	ug/L	29.593	207	0.000
	Ag	107	**0.002**	ug/L	50.313	47	0.000
	Cd	111	**0.011**	ug/L	81.803	32	0.000
	Cd	114		ug/L		46	-0.000
>	In	115		ug/L		347556	347556.215
	Sn	120	**0.010**	ug/L	68.791	847	0.000
	Sb	121	**0.242**	ug/L	22.016	1837	0.005
	Sb	123		ug/L		1426	0.004
	Ba	135		ug/L		45	0.000
	Ba	137	**-0.000**	ug/L	926.286	58	-0.000
	Ho	165		ug/L		26	-0.000
>	Lu	175		ug/L		475890	475889.695
	Tl	205	**0.182**	ug/L	24.764	3460	0.007
	Pb	208	**0.004**	ug/L	13.162	449	0.000
	Bi	209		ug/L		590	-0.001
	Th	232	**0.039**	ug/L	18.930	1681	0.003
	U	238	**0.006**	ug/L	17.613	308	0.000

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	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
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	0.9999
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	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		96.9			
	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		90.8			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		87.5			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		89.0			
	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: 1202031027
Sample Date/Time: Saturday, February 20, 2010 20:16:40
Sample Type:
Sample Description: LANL 6020 MB
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\1202031027.134

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.034**	ug/L	14.028	109	0.000
	Be	9	**0.000**	ug/L	3279.705	21	0.000
	B	11	**1.955**	ug/L	14.543	1157	0.001
	Na	23	**-0.561**	ug/L	94.928	31368	-0.003
	Mg	24	**3.044**	ug/L	31.591	9337	0.010
	Al	27	**4.937**	ug/L	17.850	24688	0.024
	P	31	**-0.043**	ug/L	2304.609	8595	-0.000
	K	39	**12.871**	ug/L	39.817	805072	0.097
	Ca	43	**21.992**	ug/L	13.094	989	0.000
>	Sc	45		ug/L		922063	922062.537
	Ti	47	**0.115**	ug/L	15.607	1010	0.000
	V	51	**-3.839**	ug/L	36.093	-42870	-0.045
	Cr	52	**0.742**	ug/L	17.142	5437	0.007
	Cr	53		ug/L		465984	0.360
	Mn	55	**0.278**	ug/L	4.159	5453	0.004
	Fe	57	**10.469**	ug/L	8.409	10863	0.003
	Co	59	**0.001**	ug/L	275.442	137	0.000
	Ni	60	**0.087**	ug/L	6.900	423	0.000
	Cu	63		ug/L		573	0.000
	Cu	65	**0.023**	ug/L	37.484	302	0.000
	Zn	66	**0.047**	ug/L	150.265	2594	0.000
	Zn	67		ug/L		79526	0.116
	Zn	68		ug/L		6631	0.006
>	Ge	74		ug/L		571710	571710.182
	As	75	**0.815**	ug/L	159.898	1270	0.003
	Se	77		ug/L		34879	0.048
	Se	82	**0.141**	ug/L	71.310	22	0.000
	Kr	83		ug/L		178	-0.000
	Sr	88	**0.105**	ug/L	0.357	1970	0.005
	Y	89		ug/L		107	0.000
	Mo	98	**0.036**	ug/L	7.024	211	0.000
	Ag	107	**0.004**	ug/L	4.693	60	0.000
	Cd	111	**0.010**	ug/L	82.205	30	0.000
	Cd	114		ug/L		39	-0.000
>	In	115		ug/L		334457	334457.312
	Sn	120	**0.022**	ug/L	23.724	911	0.001
	Sb	121	**0.124**	ug/L	23.890	976	0.002
	Sb	123		ug/L		740	0.002
	Ba	135		ug/L		92	0.000
	Ba	137	**0.027**	ug/L	14.220	150	0.000
	Ho	165		ug/L		33	0.000
>	Lu	175		ug/L		463760	463760.009
	Tl	205	**0.071**	ug/L	3.927	1502	0.003
	Pb	208	**0.013**	ug/L	3.073	718	0.001
	Bi	209		ug/L		391	-0.001
	Th	232	**0.025**	ug/L	18.129	1125	0.002
	U	238	**0.001**	ug/L	17.659	122	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		109.8			
	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		91.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		84.2			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		86.8			
	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: 1202031028
Sample Date/Time: Saturday, February 20, 2010 20:22:48
Sample Type:
Sample Description: LANL 6020 LCS
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\1202031028.135

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**50.395**	ug/L	4.013	101055	0.113
	Be	9	**50.439**	ug/L	4.686	24755	0.028
	B	11	**120.055**	ug/L	3.914	57139	0.064
	Na	23	**2607.899**	ug/L	6.221	10485080	11.741
	Mg	24	**2656.236**	ug/L	11.785	7872737	8.851
	Al	27	**2651.733**	ug/L	4.872	11453363	12.852
	P	31	**2614.169**	ug/L	4.299	743780	0.826
	K	39	**2294.612**	ug/L	7.669	16093034	17.317
	Ca	43	**2357.146**	ug/L	7.520	39263	0.043
>	Sc	45		ug/L		891456	891456.401
	Ti	47	**49.860**	ug/L	4.115	44258	0.049
	V	51	**43.843**	ug/L	6.993	459539	0.518
	Cr	52	**52.311**	ug/L	4.281	427423	0.481
	Cr	53		ug/L		511632	0.429
	Mn	55	**53.869**	ug/L	4.911	719281	0.806
	Fe	57	**2003.212**	ug/L	5.204	566322	0.628
	Co	59	**46.866**	ug/L	4.514	492571	0.553
	Ni	60	**46.244**	ug/L	4.946	108636	0.122
	Cu	63		ug/L		263400	0.296
	Cu	65	**46.191**	ug/L	3.767	133288	0.149
	Zn	66	**52.060**	ug/L	0.936	91878	0.151
	Zn	67		ug/L		95843	0.139
	Zn	68		ug/L		74945	0.122
>	Ge	74		ug/L		590361	590361.280
	As	75	**50.708**	ug/L	1.992	92176	0.156
	Se	77		ug/L		41069	0.057
	Se	82	**50.054**	ug/L	2.738	9338	0.016
	Kr	83		ug/L		235	0.000
	Sr	88	**61.301**	ug/L	0.615	1096200	3.212
	Y	89		ug/L		180	0.000
	Mo	98	**55.204**	ug/L	1.564	254558	0.746
	Ag	107	**56.577**	ug/L	1.126	431658	1.265
	Cd	111	**53.354**	ug/L	0.718	106188	0.311
	Cd	114		ug/L		254158	0.745
>	In	115		ug/L		341201	341200.773
	Sn	120	**56.864**	ug/L	0.995	449011	1.314
	Sb	121	**57.992**	ug/L	0.872	395173	1.158
	Sb	123		ug/L		308307	0.903
	Ba	135		ug/L		108598	0.227
	Ba	137	**54.335**	ug/L	2.310	190337	0.397
	Ho	165		ug/L		57	0.000
>	Lu	175		ug/L		478849	478849.148
	Tl	205	**54.681**	ug/L	2.265	958521	2.001
	Pb	208	**57.202**	ug/L	1.167	1872576	3.910
	Bi	209		ug/L		1557752	3.251
	Th	232	**53.409**	ug/L	0.936	2051178	4.283
	U	238	**55.128**	ug/L	0.809	2120611	4.428

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

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		106.1			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		94.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		85.9			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		89.6			
	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 8
Sample Date/Time: Saturday, February 20, 2010 20:28:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 8.136

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**47.552**	**ug/L**	3.689	90256	0.107
	Be	9	**45.173**	**ug/L**	4.658	20982	0.025
	B	11	**99.380**	**ug/L**	6.464	44735	0.053
	Na	23	**4936.727**	**ug/L**	3.881	18798509	22.225
	Mg	24	**4800.513**	**ug/L**	8.841	13470361	15.996
	Al	27	**5271.771**	**ug/L**	5.816	21519027	25.550
	P	31	**5201.483**	**ug/L**	4.768	1392617	1.644
	K	39	**5121.084**	**ug/L**	7.360	33188241	38.649
	Ca	43	**4965.173**	**ug/L**	4.701	77719	0.092
>	Sc	45		**ug/L**		843631	843630.518
	Ti	47	**46.406**	**ug/L**	4.978	39033	0.045
	V	51	**46.858**	**ug/L**	2.020	465595	0.553
	Cr	52	**47.594**	**ug/L**	3.647	368113	0.438
	Cr	53		**ug/L**		181975	0.071
	Mn	55	**49.326**	**ug/L**	4.022	623607	0.738
	Fe	57	**4308.096**	**ug/L**	3.469	1145017	1.350
	Co	59	**43.771**	**ug/L**	3.410	435502	0.517
	Ni	60	**44.180**	**ug/L**	3.561	98278	0.116
	Cu	63		**ug/L**		235895	0.280
	Cu	65	**43.676**	**ug/L**	3.895	119302	0.141
	Zn	66	**50.521**	**ug/L**	2.208	90433	0.147
	Zn	67		**ug/L**		29204	0.025
	Zn	68		**ug/L**		70838	0.113
>	Ge	74		**ug/L**		598278	598277.557
	As	75	**46.764**	**ug/L**	2.477	86117	0.144
	Se	77		**ug/L**		16258	0.014
	Se	82	**48.877**	**ug/L**	3.279	9240	0.015
	Kr	83		**ug/L**		212	-0.000
	Sr	88	**54.566**	**ug/L**	0.708	1070601	2.859
	Y	89		**ug/L**		152	0.000
	Mo	98	**48.205**	**ug/L**	0.833	243901	0.651
	Ag	107	**49.398**	**ug/L**	2.156	413490	1.104
	Cd	111	**49.168**	**ug/L**	0.712	107370	0.287
	Cd	114		**ug/L**		256084	0.684
>	In	115		**ug/L**		374356	374355.544
	Sn	120	**51.007**	**ug/L**	1.519	441973	1.178
	Sb	121	**50.619**	**ug/L**	0.875	378474	1.011
	Sb	123		**ug/L**		290584	0.776
	Ba	135		**ug/L**		110050	0.215
	Ba	137	**51.379**	**ug/L**	1.749	192427	0.376
	Ho	165		**ug/L**		58	0.000
>	Lu	175		**ug/L**		512024	512024.461
	Tl	205	**52.417**	**ug/L**	2.604	982192	1.918
	Pb	208	**52.947**	**ug/L**	1.054	1853136	3.619
	Bi	209		**ug/L**		994	-0.000
	Th	232	**49.714**	**ug/L**	2.920	2040878	3.987
	U	238	**50.839**	**ug/L**	2.547	2090461	4.084

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	95.103				
	Be	9	90.345				
	B	11	99.380				
	Na	23	98.735				
	Mg	24	96.010				
	Al	27	104.391				
	P	31	104.030				
	K	39	102.422				
	Ca	43	99.303				
>	Sc	45		100.4			
	Ti	47	92.811				
	V	51	93.716				
	Cr	52	95.188				
	Cr	53					
	Mn	55	98.652				
	Fe	57	86.162				
	Co	59	87.542				
	Ni	60	88.361				
	Cu	63					
	Cu	65	87.353				
	Zn	66	101.042				
	Zn	67					
	Zn	68					
>	Ge	74		95.9			
	As	75	93.527				
	Se	77					
	Se	82	97.754				
	Kr	83					
	Sr	88	109.133				
	Y	89					
	Mo	98	96.410				
	Ag	107	98.795				
	Cd	111	98.337				
	Cd	114					
>	In	115		94.2			
	Sn	120	102.013				
	Sb	121	101.237				
	Sb	123					
	Ba	135					
	Ba	137	102.758				
	Ho	165					
>	Lu	175		95.8			
	Tl	205	104.834				
	Pb	208	105.894				
	Bi	209					
	Th	232	99.428				
	U	238	101.679				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Fe	57	CCV is out of limits (+/- 10%)
QC Std 8	Co	59	CCV is out of limits (+/- 10%)
QC Std 8	Ni	60	CCV is out of limits (+/- 10%)
QC Std 8	Cu	65	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Saturday, February 20, 2010 20:35:05
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 9.137

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.030**	ug/L	3.952	88	0.000
	Be	9	**0.005**	ug/L	53.140	21	0.000
	B	11	**4.996**	ug/L	15.515	2344	0.003
	Na	23	**0.507**	ug/L	294.624	31703	0.002
	Mg	24	**0.492**	ug/L	44.389	1333	0.002
	Al	27	**-0.064**	ug/L	793.299	2000	-0.000
	P	31	**-1.088**	ug/L	84.117	7340	-0.000
	K	39	**-0.318**	ug/L	1688.224	631331	-0.002
	Ca	43	**-6.278**	ug/L	7.137	450	-0.000
>	Sc	45		ug/L		815784	815783.589
	Ti	47	**-0.238**	ug/L	19.900	612	-0.000
	V	51	**0.077**	ug/L	733.195	-282	0.001
	Cr	52	**0.130**	ug/L	64.259	232	0.001
	Cr	53		ug/L		153755	0.043
	Mn	55	**0.022**	ug/L	16.167	1699	0.000
	Fe	57	**0.122**	ug/L	268.649	6969	0.000
	Co	59	**0.004**	ug/L	35.367	150	0.000
	Ni	60	**-0.006**	ug/L	71.048	175	-0.000
	Cu	63		ug/L		334	0.000
	Cu	65	**-0.010**	ug/L	21.994	180	-0.000
	Zn	66	**-0.139**	ug/L	31.574	2242	-0.000
	Zn	67		ug/L		16329	0.006
	Zn	68		ug/L		3166	0.000
>	Ge	74		ug/L		560562	560561.945
	As	75	**0.550**	ug/L	60.149	777	0.002
	Se	77		ug/L		10910	0.006
	Se	82	**-0.069**	ug/L	271.887	-15	-0.000
	Kr	83		ug/L		203	0.000
	Sr	88	**0.005**	ug/L	28.112	230	0.000
	Y	89		ug/L		92	0.000
	Mo	98	**0.038**	ug/L	9.605	224	0.001
	Ag	107	**0.004**	ug/L	57.498	62	0.000
	Cd	111	**0.008**	ug/L	19.766	27	0.000
	Cd	114		ug/L		46	-0.000
>	In	115		ug/L		343792	343792.210
	Sn	120	**0.018**	ug/L	30.911	906	0.000
	Sb	121	**0.246**	ug/L	19.297	1839	0.005
	Sb	123		ug/L		1456	0.004
	Ba	135		ug/L		51	0.000
	Ba	137	**-0.000**	ug/L	4229.108	59	-0.000
	Ho	165		ug/L		34	0.000
>	Lu	175		ug/L		476330	476329.620
	Tl	205	**0.330**	ug/L	13.852	6054	0.012
	Pb	208	**0.005**	ug/L	14.519	486	0.000
	Bi	209		ug/L		590	-0.001
	Th	232	**0.040**	ug/L	19.494	1723	0.003
	U	238	**0.007**	ug/L	25.197	349	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

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		97.1			
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		89.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		86.5			
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	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 20, 2010 21:05:49
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 8.142

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**48.908**	ug/L	2.848	88038	0.110
	Be	9	**46.737**	ug/L	3.578	20590	0.026
	B	11	**101.933**	ug/L	5.732	43515	0.054
	Na	23	**6074.910**	ug/L	0.691	21899493	27.349
	Mg	24	**6030.561**	ug/L	6.660	16068974	20.095
	Al	27	**5463.079**	ug/L	2.339	21189414	26.477
	P	31	**5628.520**	ug/L	3.834	1428690	1.779
	K	39	**5610.318**	ug/L	14.370	34493397	42.341
	Ca	43	**5212.095**	ug/L	3.849	77358	0.096
>	Sc	45		ug/L		799811	799811.141
	Ti	47	**49.720**	ug/L	5.427	39594	0.049
	V	51	**48.734**	ug/L	4.276	459025	0.576
	Cr	52	**50.146**	ug/L	5.291	367555	0.461
	Cr	53		ug/L		197156	0.102
	Mn	55	**50.943**	ug/L	3.397	610727	0.763
	Fe	57	**4480.298**	ug/L	6.188	1128334	1.404
	Co	59	**45.355**	ug/L	4.541	427781	0.535
	Ni	60	**45.594**	ug/L	5.514	96115	0.120
	Cu	63		ug/L		229720	0.287
	Cu	65	**44.461**	ug/L	4.147	115140	0.144
	Zn	66	**51.735**	ug/L	1.469	87935	0.150
	Zn	67		ug/L		29440	0.028
	Zn	68		ug/L		69291	0.117
>	Ge	74		ug/L		568458	568457.808
	As	75	**47.976**	ug/L	0.164	83962	0.148
	Se	77		ug/L		18115	0.019
	Se	82	**50.087**	ug/L	2.590	8997	0.016
	Kr	83		ug/L		187	-0.000
	Sr	88	**55.212**	ug/L	1.092	1025481	2.893
	Y	89		ug/L		135	0.000
	Mo	98	**49.265**	ug/L	2.964	235926	0.666
	Ag	107	**50.154**	ug/L	1.288	397426	1.121
	Cd	111	**49.936**	ug/L	3.463	103209	0.291
	Cd	114		ug/L		248651	0.702
>	In	115		ug/L		354411	354411.034
	Sn	120	**52.754**	ug/L	0.564	432732	1.219
	Sb	121	**51.671**	ug/L	2.449	365693	1.032
	Sb	123		ug/L		283789	0.801
	Ba	135		ug/L		108776	0.223
	Ba	137	**53.124**	ug/L	0.653	189372	0.389
	Ho	165		ug/L		60	0.000
>	Lu	175		ug/L		487280	487279.567
	Tl	205	**53.589**	ug/L	1.639	955879	1.961
	Pb	208	**54.008**	ug/L	0.448	1799138	3.692
	Bi	209		ug/L		839	-0.000
	Th	232	**51.181**	ug/L	1.563	2000050	4.104
	U	238	**51.237**	ug/L	0.659	2005575	4.116

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	97.815				
	Be	9	93.475				
	B	11	101.933				
	Na	23	121.498				
	Mg	24	120.611				
	Al	27	108.180				
	P	31	112.570				
	K	39	112.206				
	Ca	43	104.242				
>	Sc	45		95.2			
	Ti	47	99.440				
	V	51	97.467				
	Cr	52	100.292				
	Cr	53					
	Mn	55	101.887				
	Fe	57	89.606				
	Co	59	90.710				
	Ni	60	91.188				
	Cu	63					
	Cu	65	88.921				
	Zn	66	103.471				
	Zn	67					
	Zn	68					
>	Ge	74		91.1			
	As	75	95.952				
	Se	77					
	Se	82	100.173				
	Kr	83					
	Sr	88	110.425				
	Y	89					
	Mo	98	98.530				
	Ag	107	100.308				
	Cd	111	99.871				
	Cd	114					
>	In	115		89.2			
	Sn	120	105.509				
	Sb	121	103.342				
	Sb	123					
	Ba	135					
	Ba	137	106.247				
	Ho	165					
>	Lu	175		91.2			
	Tl	205	107.179				
	Pb	208	108.016				
	Bi	209					
	Th	232	102.362				
	U	238	102.474				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Na	23	CCV is out of limits (+/- 10%)
QC Std 8	Mg	24	CCV is out of limits (+/- 10%)
QC Std 8	P	31	CCV is out of limits (+/- 10%)
QC Std 8	K	39	CCV is out of limits (+/- 10%)
QC Std 8	Fe	57	CCV is out of limits (+/- 10%)
QC Std 8	Cu	65	CCV is out of limits (+/- 10%)
QC Std 8	Sr	88	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Saturday, February 20, 2010 21:11:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 9.143

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.033**	ug/L	8.295	93	0.000
	Be	9	**-0.004**	ug/L	274.304	17	-0.000
	B	11	**4.359**	ug/L	16.510	2044	0.002
	Na	23	**0.251**	ug/L	1017.876	30368	0.001
	Mg	24	**0.496**	ug/L	86.605	1333	0.002
	Al	27	**0.281**	ug/L	106.220	3334	0.001
	P	31	**-0.839**	ug/L	422.592	7314	-0.000
	K	39	**15.486**	ug/L	61.340	719756	0.117
	Ca	43	**-4.732**	ug/L	59.652	467	-0.000
>	Sc	45		ug/L		805670	805669.719
	Ti	47	**-0.265**	ug/L	3.480	583	-0.000
	V	51	**0.075**	ug/L	1065.195	-268	0.001
	Cr	52	**0.071**	ug/L	72.938	-212	0.001
	Cr	53		ug/L		177379	0.075
	Mn	55	**0.035**	ug/L	14.997	1838	0.001
	Fe	57	**2.804**	ug/L	17.154	7560	0.001
	Co	59	**0.001**	ug/L	167.113	122	0.000
	Ni	60	**-0.009**	ug/L	87.772	168	-0.000
	Cu	63		ug/L		326	0.000
	Cu	65	**-0.007**	ug/L	168.291	184	-0.000
	Zn	66	**-0.171**	ug/L	20.104	2104	-0.000
	Zn	67		ug/L		17598	0.009
	Zn	68		ug/L		3339	0.001
>	Ge	74		ug/L		538742	538741.596
	As	75	**0.740**	ug/L	16.016	1064	0.002
	Se	77		ug/L		13295	0.012
	Se	82	**0.022**	ug/L	581.762	1	0.000
	Kr	83		ug/L		193	0.000
	Sr	88	**0.005**	ug/L	33.528	232	0.000
	Y	89		ug/L		88	0.000
	Mo	98	**0.039**	ug/L	25.694	224	0.001
	Ag	107	**0.006**	ug/L	16.610	72	0.000
	Cd	111	**0.015**	ug/L	17.701	38	0.000
	Cd	114		ug/L		53	0.000
>	In	115		ug/L		335953	335953.388
	Sn	120	**0.026**	ug/L	121.192	941	0.001
	Sb	121	**0.245**	ug/L	17.657	1792	0.005
	Sb	123		ug/L		1461	0.004
	Ba	135		ug/L		45	0.000
	Ba	137	**0.001**	ug/L	199.608	62	0.000
	Ho	165		ug/L		29	0.000
>	Lu	175		ug/L		462005	462004.692
	Tl	205	**0.222**	ug/L	20.198	4054	0.008
	Pb	208	**0.005**	ug/L	33.542	460	0.000
	Bi	209		ug/L		584	-0.001
	Th	232	**0.041**	ug/L	20.705	1702	0.003
	U	238	**0.007**	ug/L	19.785	342	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
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	0.9999
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	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		95.9			
	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		86.3			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		84.5			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		86.4			
	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: 1202031029
Sample Date/Time: Saturday, February 20, 2010 21:36:35
Sample Type:
Sample Description: LANL 6020 DUP
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\1202031029.147

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**16.377**	**ug/L**	3.615	36094	0.037
	Be	9	**0.046**	**ug/L**	36.108	47	0.000
	B	11	**37.252**	**ug/L**	2.968	19607	0.020
	Na	23	**25260.234**	**ug/L**	5.400	111250193	113.721
	Mg	24	**7877.537**	**ug/L**	10.648	25646719	26.250
	Al	27	**745.110**	**ug/L**	11.575	3537109	3.611
	P	31	**49.775**	**ug/L**	10.491	24510	0.016
	K	39	**2862.947**	**ug/L**	4.667	21907968	21.607
	Ca	43	**34897.849**	**ug/L**	1.990	630189	0.644
>	Sc	45		**ug/L**		978280	978279.700
	Ti	47	**13.221**	**ug/L**	0.683	13603	0.013
	V	51	**-4.304**	**ug/L**	18.231	-51065	-0.051
	Cr	52	**2.012**	**ug/L**	8.379	17184	0.019
	Cr	53		**ug/L**		638628	0.508
	Mn	55	**39.319**	**ug/L**	1.254	577390	0.589
	Fe	57	**514.237**	**ug/L**	3.398	165902	0.161
	Co	59	**0.280**	**ug/L**	4.505	3374	0.003
	Ni	60	**1.392**	**ug/L**	3.609	3812	0.004
	Cu	63		**ug/L**		9883	0.010
	Cu	65	**1.413**	**ug/L**	3.054	4719	0.005
	Zn	66	**3.347**	**ug/L**	3.572	8406	0.010
	Zn	67		**ug/L**		86673	0.122
	Zn	68		**ug/L**		13590	0.018
>	Ge	74		**ug/L**		595173	595173.179
	As	75	**3.902**	**ug/L**	34.213	6977	0.012
	Se	77		**ug/L**		67356	0.100
	Se	82	**0.214**	**ug/L**	72.722	37	0.000
	Kr	83		**ug/L**		261	0.000
	Sr	88	**289.605**	**ug/L**	1.077	5149960	15.176
	Y	89		**ug/L**		11224	0.033
	Mo	98	**5.799**	**ug/L**	1.698	26638	0.078
	Ag	107	**0.010**	**ug/L**	13.444	106	0.000
	Cd	111	**0.031**	**ug/L**	29.515	71	0.000
	Cd	114		**ug/L**		227	0.001
>	In	115		**ug/L**		339329	339328.642
	Sn	120	**0.075**	**ug/L**	4.053	1340	0.002
	Sb	121	**0.106**	**ug/L**	0.777	871	0.002
	Sb	123		**ug/L**		991	0.003
	Ba	135		**ug/L**		113087	0.242
	Ba	137	**57.668**	**ug/L**	1.521	197360	0.422
	Ho	165		**ug/L**		650	0.001
>	Lu	175		**ug/L**		467862	467861.885
	Tl	205	**0.041**	**ug/L**	7.265	997	0.001
	Pb	208	**0.652**	**ug/L**	1.173	21172	0.045
	Bi	209		**ug/L**		556	-0.001
	Th	232	**0.209**	**ug/L**	2.343	8033	0.017
	U	238	**3.429**	**ug/L**	0.196	128964	0.275

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		116.5			
	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		95.4			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		85.4			
	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	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202031030
Sample Date/Time: Saturday, February 20, 2010 21:42:46
Sample Type:
Sample Description: LANL 6020 MS
Number of Replicates: 3
Batch ID: 948090|1|ba|
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\1202031030.148

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**59.099**	ug/L	2.581	130411	0.133
	Be	9	**43.363**	ug/L	4.032	23419	0.024
	B	11	**139.666**	ug/L	4.526	73036	0.074
	Na	23	**26676.961**	ug/L	2.167	117721811	120.099
	Mg	24	**9777.728**	ug/L	6.998	31904603	32.581
	Al	27	**3382.726**	ug/L	1.628	16067947	16.394
	P	31	**2543.486**	ug/L	2.464	796745	0.804
	K	39	**5093.061**	ug/L	5.219	38408863	38.437
	Ca	43	**36044.504**	ug/L	2.996	651980	0.665
>	Sc	45		ug/L		980236	980235.525
	Ti	47	**60.331**	ug/L	2.516	58730	0.059
	V	51	**49.644**	ug/L	2.408	573390	0.586
	Cr	52	**50.187**	ug/L	2.731	451266	0.461
	Cr	53		ug/L		633323	0.501
	Mn	55	**84.212**	ug/L	2.591	1236676	1.260
	Fe	57	**2292.281**	ug/L	3.407	712061	0.718
	Co	59	**42.434**	ug/L	2.869	490790	0.501
	Ni	60	**42.632**	ug/L	4.386	110221	0.112
	Cu	63		ug/L		269371	0.275
	Cu	65	**42.144**	ug/L	2.953	133832	0.136
	Zn	66	**54.943**	ug/L	1.129	97147	0.160
	Zn	67		ug/L		99340	0.144
	Zn	68		ug/L		81216	0.132
>	Ge	74		ug/L		592339	592338.505
	As	75	**82.395**	ug/L	3.481	150381	0.254
	Se	77		ug/L		62274	0.092
	Se	82	**19.809**	ug/L	1.183	3706	0.006
	Kr	83		ug/L		298	0.000
	Sr	88	**344.702**	ug/L	3.204	6125209	18.063
	Y	89		ug/L		11412	0.033
	Mo	98	**61.424**	ug/L	0.788	281556	0.830
	Ag	107	**54.982**	ug/L	1.763	416921	1.229
	Cd	111	**11.074**	ug/L	0.715	21916	0.065
	Cd	114		ug/L		50838	0.150
>	In	115		ug/L		339150	339150.372
	Sn	120	**57.424**	ug/L	0.625	450683	1.327
	Sb	121	**216.840**	ug/L	0.341	1468306	4.329
	Sb	123		ug/L		1167117	3.441
	Ba	135		ug/L		221884	0.473
	Ba	137	**112.515**	ug/L	0.310	385982	0.823
	Ho	165		ug/L		902	0.002
>	Lu	175		ug/L		468998	468998.397
	Tl	205	**99.993**	ug/L	1.713	1716353	3.659
	Pb	208	**46.774**	ug/L	1.187	1499629	3.197
	Bi	209		ug/L		1130	0.000
	Th	232	**53.966**	ug/L	2.481	2029624	4.328
	U	238	**57.993**	ug/L	1.592	2184693	4.659

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		116.7			
	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		94.9			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		85.3			
	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 MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202031031
Sample Date/Time: Saturday, February 20, 2010 21:48:55
Sample Type:
Sample Description: LANL 6020 SDILT
Number of Replicates: 3
Batch ID: 948090|5|baj
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\1202031031.149

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**3.543**	ug/L	3.789	6852	0.008
	Be	9	**0.016**	ug/L	49.889	27	0.000
	B	11	**12.242**	ug/L	2.662	5756	0.007
	Na	23	**4365.258**	ug/L	3.870	16831503	19.652
	Mg	24	**1853.901**	ug/L	14.464	5287382	6.178
	Al	27	**176.553**	ug/L	8.837	734528	0.856
	P	31	**12.324**	ug/L	21.459	11306	0.004
	K	39	**581.061**	ug/L	13.653	4410727	4.385
	Ca	43	**7427.696**	ug/L	5.661	117639	0.137
>	Sc	45		ug/L		855311	855311.142
	Ti	47	**2.934**	ug/L	4.656	3291	0.003
	V	51	**-0.360**	ug/L	285.923	-4891	-0.004
	Cr	52	**0.234**	ug/L	59.802	1032	0.002
	Cr	53		ug/L		317272	0.226
	Mn	55	**8.718**	ug/L	3.111	113037	0.130
	Fe	57	**118.408**	ug/L	5.305	38981	0.037
	Co	59	**0.059**	ug/L	9.175	714	0.001
	Ni	60	**0.332**	ug/L	6.734	944	0.001
	Cu	63		ug/L		2223	0.002
	Cu	65	**0.327**	ug/L	5.459	1120	0.001
	Zn	66	**0.785**	ug/L	2.070	3805	0.002
	Zn	67		ug/L		29479	0.028
	Zn	68		ug/L		5873	0.005
>	Ge	74		ug/L		569209	569209.365
	As	75	**1.487**	ug/L	11.995	2435	0.005
	Se	77		ug/L		28962	0.038
	Se	82	**0.208**	ug/L	22.905	34	0.000
	Kr	83		ug/L		177	-0.000
	Sr	88	**60.804**	ug/L	0.829	1106242	3.186
	Y	89		ug/L		2375	0.007
	Mo	98	**1.116**	ug/L	2.173	5283	0.015
	Ag	107	**0.004**	ug/L	7.984	63	0.000
	Cd	111	**0.013**	ug/L	25.152	36	0.000
	Cd	114		ug/L		74	0.000
>	In	115		ug/L		347161	347161.448
	Sn	120	**0.014**	ug/L	26.210	875	0.000
	Sb	121	**0.041**	ug/L	12.683	443	0.001
	Sb	123		ug/L		391	0.001
	Ba	135		ug/L		23823	0.050
	Ba	137	**11.759**	ug/L	0.757	41162	0.086
	Ho	165		ug/L		152	0.000
>	Lu	175		ug/L		477959	477958.859
	Tl	205	**1.296**	ug/L	20.534	22964	0.047
	Pb	208	**0.156**	ug/L	1.944	5428	0.011
	Bi	209		ug/L		446	-0.001
	Th	232	**0.048**	ug/L	7.092	2045	0.004
	U	238	**0.678**	ug/L	0.506	26133	0.054

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	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		91.2			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		87.4			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		89.4			
	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 8
Sample Date/Time: Saturday, February 20, 2010 21:55:03
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 8.150

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**46.095**	**ug/L**	0.302	85623	0.104
	Be	9	**45.473**	**ug/L**	3.948	20677	0.025
	B	11	**99.780**	**ug/L**	4.455	43987	0.053
	Na	23	**5771.407**	**ug/L**	12.979	21458903	25.983
	Mg	24	**5438.233**	**ug/L**	6.921	14944676	18.121
	Al	27	**5865.276**	**ug/L**	6.051	23444079	28.426
	P	31	**5586.406**	**ug/L**	0.985	1463656	1.765
	K	39	**4779.846**	**ug/L**	3.772	30391479	36.073
	Ca	43	**5055.131**	**ug/L**	1.200	77449	0.093
>	Sc	45		**ug/L**		824707	824707.167
	Ti	47	**48.260**	**ug/L**	2.387	39705	0.047
	V	51	**47.403**	**ug/L**	2.319	460732	0.560
	Cr	52	**47.709**	**ug/L**	2.341	361033	0.439
	Cr	53		**ug/L**		205486	0.104
	Mn	55	**48.853**	**ug/L**	1.083	604484	0.731
	Fe	57	**4307.578**	**ug/L**	1.632	1120360	1.350
	Co	59	**43.814**	**ug/L**	0.825	426571	0.517
	Ni	60	**44.136**	**ug/L**	2.395	96082	0.116
	Cu	63		**ug/L**		226799	0.275
	Cu	65	**43.055**	**ug/L**	1.078	115088	0.139
	Zn	66	**50.702**	**ug/L**	0.986	84985	0.147
	Zn	67		**ug/L**		29069	0.029
	Zn	68		**ug/L**		68303	0.117
>	Ge	74		**ug/L**		560279	560278.807
	As	75	**48.443**	**ug/L**	1.906	83562	0.149
	Se	77		**ug/L**		19259	0.021
	Se	82	**49.671**	**ug/L**	2.595	8793	0.016
	Kr	83		**ug/L**		203	0.000
	Sr	88	**55.002**	**ug/L**	2.290	1015961	2.882
	Y	89		**ug/L**		138	0.000
	Mo	98	**49.033**	**ug/L**	1.586	233572	0.663
	Ag	107	**50.347**	**ug/L**	2.529	396764	1.126
	Cd	111	**49.736**	**ug/L**	0.869	102256	0.290
	Cd	114		**ug/L**		246104	0.698
>	In	115		**ug/L**		352474	352474.349
	Sn	120	**53.308**	**ug/L**	0.812	434870	1.232
	Sb	121	**52.464**	**ug/L**	1.018	369316	1.047
	Sb	123		**ug/L**		287275	0.815
	Ba	135		**ug/L**		109547	0.227
	Ba	137	**54.101**	**ug/L**	1.016	190533	0.396
	Ho	165		**ug/L**		59	0.000
>	Lu	175		**ug/L**		481439	481439.473
	Tl	205	**54.527**	**ug/L**	0.683	961061	1.996
	Pb	208	**54.686**	**ug/L**	0.669	1799834	3.738
	Bi	209		**ug/L**		943	-0.000
	Th	232	**51.236**	**ug/L**	0.689	1978311	4.109
	U	238	**51.652**	**ug/L**	1.302	1997549	4.149

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Li	7	92.190				
	Be	9	90.946				
	B	11	99.780				
	Na	23	115.428				
	Mg	24	108.765				
	Al	27	116.144				
	P	31	111.728				
	K	39	95.597				
	Ca	43	101.103				
>	Sc	45		98.2			
	Ti	47	96.519				
	V	51	94.807				
	Cr	52	95.418				
	Cr	53					
	Mn	55	97.706				
	Fe	57	86.152				
	Co	59	87.629				
	Ni	60	88.272				
	Cu	63					
	Cu	65	86.109				
	Zn	66	101.405				
	Zn	67					
	Zn	68					
>	Ge	74		89.8			
	As	75	96.886				
	Se	77					
	Se	82	99.343				
	Kr	83					
	Sr	88	110.004				
	Y	89					
	Mo	98	98.066				
	Ag	107	100.693				
	Cd	111	99.472				
	Cd	114					
>	In	115		88.7			
	Sn	120	106.615				
	Sb	121	104.927				
	Sb	123					
	Ba	135					
	Ba	137	108.201				
	Ho	165					
>	Lu	175		90.1			
	Tl	205	109.055				
	Pb	208	109.372				
	Bi	209					
	Th	232	102.473				
	U	238	103.303				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Na	23	CCV is out of limits (+/- 10%)
QC Std 8	Al	27	CCV is out of limits (+/- 10%)
QC Std 8	P	31	CCV is out of limits (+/- 10%)
QC Std 8	Fe	57	CCV is out of limits (+/- 10%)
QC Std 8	Co	59	CCV is out of limits (+/- 10%)
QC Std 8	Ni	60	CCV is out of limits (+/- 10%)
QC Std 8	Cu	65	CCV is out of limits (+/- 10%)

QC Std 8 Sr 88CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Saturday, February 20, 2010 22:01:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 9.151

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.028**	ug/L	27.827	85	0.000
	Be	9	**0.006**	ug/L	82.965	21	0.000
	B	11	**4.485**	ug/L	13.291	2111	0.002
	Na	23	**0.943**	ug/L	227.492	33039	0.004
	Mg	24	**0.370**	ug/L	98.801	1000	0.001
	Al	27	**0.444**	ug/L	113.662	4001	0.002
	P	31	**-0.491**	ug/L	385.203	7455	-0.000
	K	39	**12.922**	ug/L	120.417	708615	0.098
	Ca	43	**-5.595**	ug/L	82.463	457	-0.000
>	Sc	45		ug/L		812353	812352.916
	Ti	47	**-0.327**	ug/L	12.390	538	-0.000
	V	51	**0.558**	ug/L	11.510	4351	0.007
	Cr	52	**0.008**	ug/L	1157.302	-691	0.000
	Cr	53		ug/L		189322	0.088
	Mn	55	**0.033**	ug/L	24.330	1822	0.000
	Fe	57	**0.628**	ug/L	138.968	7066	0.000
	Co	59	**-0.000**	ug/L	2143.965	114	-0.000
	Ni	60	**-0.001**	ug/L	642.311	186	-0.000
	Cu	63		ug/L		354	0.000
	Cu	65	**-0.010**	ug/L	117.438	179	-0.000
	Zn	66	**-0.167**	ug/L	13.606	2161	-0.000
	Zn	67		ug/L		17320	0.008
	Zn	68		ug/L		3215	0.000
>	Ge	74		ug/L		551622	551622.275
	As	75	**0.914**	ug/L	47.367	1380	0.003
	Se	77		ug/L		15452	0.015
	Se	82	**0.003**	ug/L	7455.274	-3	0.000
	Kr	83		ug/L		189	-0.000
	Sr	88	**0.006**	ug/L	2.428	244	0.000
	Y	89		ug/L		93	0.000
	Mo	98	**0.043**	ug/L	22.894	248	0.001
	Ag	107	**0.004**	ug/L	24.578	58	0.000
	Cd	111	**0.011**	ug/L	25.490	31	0.000
	Cd	114		ug/L		60	0.000
>	In	115		ug/L		344854	344853.788
	Sn	120	**0.009**	ug/L	26.624	831	0.000
	Sb	121	**0.255**	ug/L	15.407	1912	0.005
	Sb	123		ug/L		1444	0.004
	Ba	135		ug/L		47	0.000
	Ba	137	**0.001**	ug/L	243.696	62	0.000
	Ho	165		ug/L		29	0.000
>	Lu	175		ug/L		468675	468674.901
	Tl	205	**0.426**	ug/L	13.407	7610	0.016
	Pb	208	**0.005**	ug/L	16.644	462	0.000
	Bi	209		ug/L		588	-0.001
	Th	232	**0.044**	ug/L	17.664	1839	0.004
	U	238	**0.006**	ug/L	6.676	302	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		96.7			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		88.4			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		86.8			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		87.7			
	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: 245807001
Sample Date/Time: Saturday, February 20, 2010 22:38:11
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\245807001.157

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.126**	**ug/L**	2.739	315	0.000
	Be	9	**-0.004**	**ug/L**	159.246	20	-0.000
	B	11	**21.628**	**ug/L**	6.235	11366	0.012
	Na	23	**228.858**	**ug/L**	4.634	1035683	1.030
	Mg	24	**6.700**	**ug/L**	6.745	21683	0.022
	Al	27	**12.424**	**ug/L**	3.129	61131	0.060
	P	31	**3.580**	**ug/L**	26.471	10160	0.001
	K	39	**194.195**	**ug/L**	5.937	2173317	1.466
	Ca	43	**45.552**	**ug/L**	6.755	1461	0.001
>	Sc	45		**ug/L**		969973	969972.703
	Ti	47	**0.435**	**ug/L**	6.130	1366	0.000
	V	51	**-7.792**	**ug/L**	32.568	-90499	-0.092
	Cr	52	**0.810**	**ug/L**	22.095	6312	0.007
	Cr	53		**ug/L**		672277	0.548
	Mn	55	**0.633**	**ug/L**	3.080	10887	0.009
	Fe	57	**14.011**	**ug/L**	6.152	12505	0.004
	Co	59	**0.003**	**ug/L**	66.217	171	0.000
	Ni	60	**0.057**	**ug/L**	8.250	368	0.000
	Cu	63		**ug/L**		4881	0.005
	Cu	65	**0.696**	**ug/L**	6.865	2427	0.002
	Zn	66	**0.569**	**ug/L**	8.839	3718	0.002
	Zn	67		**ug/L**		86188	0.117
	Zn	68		**ug/L**		8625	0.009
>	Ge	74		**ug/L**		613945	613944.510
	As	75	**1.689**	**ug/L**	51.177	3019	0.005
	Se	77		**ug/L**		65806	0.094
	Se	82	**0.220**	**ug/L**	119.249	40	0.000
	Kr	83		**ug/L**		192	-0.000
	Sr	88	**0.187**	**ug/L**	2.346	3600	0.010
	Y	89		**ug/L**		234	0.000
	Mo	98	**0.018**	**ug/L**	20.146	136	0.000
	Ag	107	**0.009**	**ug/L**	3.760	103	0.000
	Cd	111	**0.021**	**ug/L**	26.496	53	0.000
	Cd	114		**ug/L**		64	0.000
>	In	115		**ug/L**		353239	353238.721
	Sn	120	**0.227**	**ug/L**	2.213	2631	0.005
	Sb	121	**0.021**	**ug/L**	12.867	304	0.000
	Sb	123		**ug/L**		244	0.000
	Ba	135		**ug/L**		699	0.001
	Ba	137	**0.310**	**ug/L**	8.507	1164	0.002
	Ho	165		**ug/L**		42	0.000
>	Lu	175		**ug/L**		487811	487810.726
	Tl	205	**0.035**	**ug/L**	2.252	940	0.001
	Pb	208	**0.068**	**ug/L**	2.736	2594	0.005
	Bi	209		**ug/L**		391	-0.001
	Th	232	**0.005**	**ug/L**	3.134	399	0.000
	U	238	**0.024**	**ug/L**	4.234	1022	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

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		115.5			
	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		98.4			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		88.9			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		91.3			
	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: 245807002
Sample Date/Time: Saturday, February 20, 2010 22:44:21
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\245807002.158

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.099**	**ug/L**	10.331	266	0.000
	Be	9	**-0.008**	**ug/L**	120.868	19	-0.000
	B	11	**21.487**	**ug/L**	3.148	11733	0.011
	Na	23	**175.188**	**ug/L**	3.178	830814	0.789
	Mg	24	**6.843**	**ug/L**	13.330	23019	0.023
	Al	27	**12.832**	**ug/L**	7.930	65484	0.062
	P	31	**2.933**	**ug/L**	60.825	10333	0.001
	K	39	**114.670**	**ug/L**	5.622	1654357	0.865
	Ca	43	**49.357**	**ug/L**	6.918	1588	0.001
>	Sc	45		**ug/L**		1007205	1007205.497
	Ti	47	**0.416**	**ug/L**	14.474	1400	0.000
	V	51	**-7.574**	**ug/L**	19.691	-91564	-0.089
	Cr	52	**0.944**	**ug/L**	11.527	7797	0.009
	Cr	53		**ug/L**		674330	0.525
	Mn	55	**0.643**	**ug/L**	1.903	11462	0.010
	Fe	57	**16.819**	**ug/L**	11.185	13865	0.005
	Co	59	**0.003**	**ug/L**	40.115	172	0.000
	Ni	60	**0.068**	**ug/L**	4.869	412	0.000
	Cu	63		**ug/L**		4699	0.004
	Cu	65	**0.639**	**ug/L**	1.926	2337	0.002
	Zn	66	**0.909**	**ug/L**	4.727	4405	0.003
	Zn	67		**ug/L**		88193	0.118
	Zn	68		**ug/L**		8989	0.009
>	Ge	74		**ug/L**		625432	625432.072
	As	75	**1.935**	**ug/L**	36.253	3538	0.006
	Se	77		**ug/L**		66080	0.093
	Se	82	**0.162**	**ug/L**	79.748	29	0.000
	Kr	83		**ug/L**		181	-0.000
	Sr	88	**0.209**	**ug/L**	1.689	4140	0.011
	Y	89		**ug/L**		333	0.001
	Mo	98	**0.017**	**ug/L**	12.397	134	0.000
	Ag	107	**0.007**	**ug/L**	17.713	93	0.000
	Cd	111	**0.011**	**ug/L**	9.866	35	0.000
	Cd	114		**ug/L**		59	0.000
>	In	115		**ug/L**		364781	364781.436
	Sn	120	**0.031**	**ug/L**	11.416	1068	0.001
	Sb	121	**0.032**	**ug/L**	13.845	397	0.001
	Sb	123		**ug/L**		317	0.001
	Ba	135		**ug/L**		576	0.001
	Ba	137	**0.253**	**ug/L**	2.545	973	0.002
	Ho	165		**ug/L**		37	0.000
>	Lu	175		**ug/L**		492311	492311.013
	Tl	205	**0.033**	**ug/L**	10.690	910	0.001
	Pb	208	**0.588**	**ug/L**	1.880	20119	0.040
	Bi	209		**ug/L**		319	-0.001
	Th	232	**0.007**	**ug/L**	13.617	493	0.001
	U	238	**0.085**	**ug/L**	1.731	3464	0.007

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9998

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		119.9			
	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		100.2			
	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		92.1			
	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

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Saturday, February 20, 2010 22:50:29
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 6.159

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**46.237**	ug/L	1.951	88606	0.104
	Be	9	**44.625**	ug/L	1.396	20936	0.025
	B	11	**101.101**	ug/L	0.733	45982	0.054
	Na	23	**6031.051**	ug/L	17.317	23132182	27.152
	Mg	24	**5545.854**	ug/L	4.617	15721609	18.480
	Al	27	**5508.983**	ug/L	5.992	22715606	26.699
	P	31	**5513.993**	ug/L	1.000	1490617	1.743
	K	39	**5470.056**	ug/L	8.999	35798552	41.282
	Ca	43	**4900.679**	ug/L	1.168	77485	0.090
>	Sc	45		ug/L		850880	850879.779
	Ti	47	**48.278**	ug/L	0.994	40978	0.047
	V	51	**45.991**	ug/L	3.324	461210	0.543
	Cr	52	**46.993**	ug/L	1.577	366883	0.432
	Cr	53		ug/L		227833	0.123
	Mn	55	**47.538**	ug/L	0.493	606915	0.712
	Fe	57	**4262.817**	ug/L	1.438	1144023	1.336
	Co	59	**42.727**	ug/L	0.902	429181	0.504
	Ni	60	**43.365**	ug/L	1.408	97399	0.114
	Cu	63		ug/L		231192	0.271
	Cu	65	**42.168**	ug/L	0.927	116298	0.136
	Zn	66	**51.398**	ug/L	2.741	87315	0.149
	Zn	67		ug/L		31381	0.032
	Zn	68		ug/L		69245	0.117
>	Ge	74		ug/L		568158	568158.205
	As	75	**47.902**	ug/L	0.387	83786	0.148
	Se	77		ug/L		21231	0.024
	Se	82	**50.288**	ug/L	2.053	9027	0.016
	Kr	83		ug/L		202	0.000
	Sr	88	**54.187**	ug/L	2.228	1030936	2.840
	Y	89		ug/L		142	0.000
	Mo	98	**49.016**	ug/L	1.380	240509	0.662
	Ag	107	**50.016**	ug/L	1.324	406014	1.118
	Cd	111	**50.035**	ug/L	1.264	105958	0.292
	Cd	114		ug/L		254140	0.700
>	In	115		ug/L		363060	363060.111
	Sn	120	**52.551**	ug/L	2.400	441541	1.214
	Sb	121	**51.319**	ug/L	0.626	372145	1.025
	Sb	123		ug/L		293624	0.808
	Ba	135		ug/L		112800	0.228
	Ba	137	**54.036**	ug/L	2.693	195283	0.395
	Ho	165		ug/L		63	0.000
>	Lu	175		ug/L		494117	494116.820
	Tl	205	**48.214**	ug/L	1.581	872214	1.764
	Pb	208	**54.043**	ug/L	1.487	1825330	3.694
	Bi	209		ug/L		807	-0.000
	Th	232	**49.965**	ug/L	1.054	1979930	4.007
	U	238	**50.801**	ug/L	2.588	2016051	4.081

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	0.9999
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	0.9999
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	0.9999
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9999
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
	Li	7	92.473				
	Be	9	89.250				
	B	11	101.101				
	Na	23	120.621				
	Mg	24	110.917				
	Al	27	109.089				
	P	31	110.280				
	K	39	109.401				
	Ca	43	98.014				
>	Sc	45		101.3			
	Ti	47	96.555				
	V	51	91.983				
	Cr	52	93.986				
	Cr	53					
	Mn	55	95.077				
	Fe	57	85.256				
	Co	59	85.454				
	Ni	60	86.729				
	Cu	63					
	Cu	65	84.336				
	Zn	66	102.795				
	Zn	67					
	Zn	68					
>	Ge	74		91.1			
	As	75	95.804				
	Se	77					
	Se	82	100.575				
	Kr	83					
	Sr	88	108.373				
	Y	89					
	Mo	98	98.032				
	Ag	107	100.032				
	Cd	111	100.070				
	Cd	114					
>	In	115		91.4			
	Sn	120	105.102				
	Sb	121	102.639				
	Sb	123					
	Ba	135					
	Ba	137	108.073				
	Ho	165					
>	Lu	175		92.5			
	Tl	205	96.427				
	Pb	208	108.085				
	Bi	209					
	Th	232	99.930				
	U	238	101.603				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be	9	CCV is out of limits (+/- 10%)
QC Std 6	Na	23	CCV is out of limits (+/- 10%)
QC Std 6	Mg	24	CCV is out of limits (+/- 10%)
QC Std 6	P	31	CCV is out of limits (+/- 10%)
QC Std 6	Fe	57	CCV is out of limits (+/- 10%)
QC Std 6	Co	59	CCV is out of limits (+/- 10%)
QC Std 6	Ni	60	CCV is out of limits (+/- 10%)

QC Std 6	Cu	65CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Saturday, February 20, 2010 22:56:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020 2.mth
Dataset File: c:\elandata\Dataset\100220\QC Std 7.160

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**0.019**	**ug/L**	22.884	68	0.000
	Be	9	**-0.001**	**ug/L**	220.383	18	-0.000
	B	11	**4.030**	**ug/L**	16.362	1927	0.002
	Na	23	**-0.348**	**ug/L**	644.409	28363	-0.002
	Mg	24	**0.736**	**ug/L**	5.893	2000	0.002
	Al	27	**0.658**	**ug/L**	146.767	5001	0.003
	P	31	**-0.230**	**ug/L**	1072.937	7549	-0.000
	K	39	**7.744**	**ug/L**	60.536	681199	0.058
	Ca	43	**-4.034**	**ug/L**	98.244	483	-0.000
>	Sc	45		**ug/L**		817125	817124.940
	Ti	47	**-0.268**	**ug/L**	28.463	587	-0.000
	V	51	**-0.222**	**ug/L**	85.175	-3146	-0.003
	Cr	52	**-0.252**	**ug/L**	31.422	-2641	-0.002
	Cr	53		**ug/L**		206334	0.108
	Mn	55	**0.031**	**ug/L**	49.691	1809	0.000
	Fe	57	**-0.643**	**ug/L**	143.514	6776	-0.000
	Co	59	**0.001**	**ug/L**	111.832	121	0.000
	Ni	60	**-0.006**	**ug/L**	95.371	176	-0.000
	Cu	63		**ug/L**		307	-0.000
	Cu	65	**-0.012**	**ug/L**	49.674	174	-0.000
	Zn	66	**-0.177**	**ug/L**	31.066	2157	-0.001
	Zn	67		**ug/L**		18552	0.010
	Zn	68		**ug/L**		3466	0.001
>	Ge	74		**ug/L**		555007	555007.346
	As	75	**0.953**	**ug/L**	38.515	1452	0.003
	Se	77		**ug/L**		16889	0.017
	Se	82	**-0.061**	**ug/L**	93.738	-14	-0.000
	Kr	83		**ug/L**		189	-0.000
	Sr	88	**0.006**	**ug/L**	18.870	257	0.000
	Y	89		**ug/L**		80	-0.000
	Mo	98	**0.043**	**ug/L**	24.779	255	0.001
	Ag	107	**0.006**	**ug/L**	28.160	78	0.000
	Cd	111	**0.013**	**ug/L**	23.498	37	0.000
	Cd	114		**ug/L**		62	0.000
>	In	115		**ug/L**		352258	352258.083
	Sn	120	**0.011**	**ug/L**	70.186	866	0.000
	Sb	121	**0.251**	**ug/L**	18.241	1924	0.005
	Sb	123		**ug/L**		1535	0.004
	Ba	135		**ug/L**		47	0.000
	Ba	137	**0.003**	**ug/L**	78.351	71	0.000
	Ho	165		**ug/L**		33	0.000
>	Lu	175		**ug/L**		487394	487394.048
	Tl	205	**0.983**	**ug/L**	12.613	17832	0.036
	Pb	208	**0.005**	**ug/L**	26.951	497	0.000
	Bi	209		**ug/L**		532	-0.001
	Th	232	**0.043**	**ug/L**	15.450	1890	0.003
	U	238	**0.008**	**ug/L**	8.465	391	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
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	0.9999
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	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

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		97.3			
	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		89.0			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		88.6			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Lu	175		91.2			
	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

ICPMS #5 Daily Performance Report

Sample ID: Sample
Sample Date/Time: Sunday, February 21, 2010 10:25:37
Sample Description:
Method File: c:\elandata\Method\Daily2.mth
Dataset File: c:\elandata\Dataset\default\Sample.559
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	6159.5	6159.528	67.321	1.1
	Mg	24.0	45969.4	45969.447	372.671	0.8
	Co	58.9	130006.7	130006.738	1424.099	1.1
	Rh	102.9	272097.6	272097.601	2330.936	0.9
	In	114.9	357150.0	357150.024	1687.204	0.5
	Pb	208.0	297749.3	297749.262	2376.144	0.8
⌈>	Ba	137.9	321676.2	321676.199	2950.879	0.9
⌊	Ba++	69.0	6095.1	0.019	0.000	1.2
⌈>	Ce	139.9	395641.1	395641.061	1671.282	0.4
⌊	CeO	155.9	10091.2	0.026	0.001	2.5
	Bkgd	220.0	26.2	26.200	2.797	10.7

Current Optimization File Data

Current Value	Description
0.87	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	13	5.8	6148.0
Co	59	13	6.0	132832.7
In	115	13	6.5	354458.2

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	588	2072	0.628
Be	9.0	9.0	2057	2088	0.614
Mg	24.0	24.0	5685	2100	0.599
Mg	25.0	25.0	5937	2100	0.577
Mg	26.0	26.0	6175	2100	0.613
Co	58.9	59.0	14191	2125	0.607
Rh	102.9	102.9	24879	2180	0.587
In	114.9	114.9	27793	2200	0.589
Ce	139.9	139.9	33865	2220	0.588
Pb	206.0	206.0	49948	2305	0.605
Pb	207.0	206.9	50147	2240	0.644
Pb	208.0	208.0	50451	2265	0.717
U	238.1	238.1	57727	2275	0.749

ICPMS#5 - Summary Report

Sample ID: Blank
Sample Date/Time: Sunday, February 21, 2010 10:33:28
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\Blank.001

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9		ug/L		12	
>	Sc	45		ug/L		778356	
	Cr	52		ug/L		3389	
	Cr	53		ug/L		230042	
	Mn	55		ug/L		2670	
	Ni	60		ug/L		242	
>	Lu	175		ug/L		600278	
	Pb	208		ug/L		398	
	U	238		ug/L		148	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Simple Linear	
Cr	52	Simple Linear	
Cr	53	Simple Linear	
Mn	55	Simple Linear	
Ni	60	Simple Linear	
Lu	175	Simple Linear	
Pb	208	Simple Linear	
U	238	Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
	Be	9					
>	Sc	45					
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175					
	Pb	208					
	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 1
Sample Date/Time: Sunday, February 21, 2010 10:35:35
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\ani 0220.mth
Dataset File: C:\elandata\Dataset\100221\Standard 1.002

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	10.000	ug/L	3.103	6068	0.008
>	Sc	45		ug/L		790482	790482.492
	Cr	52	10.000	ug/L	4.709	99618	0.122
	Cr	53		ug/L		176974	-0.071
	Mn	55	10.000	ug/L	4.223	161796	0.201
	Ni	60	10.000	ug/L	4.332	27041	0.034
>	Lu	175		ug/L		660776	660776.007
	Pb	208	10.000	ug/L	1.597	501165	0.758
	U	238	10.000	ug/L	2.479	608735	0.921

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45					
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175					
	Pb	208					
	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: Sunday, February 21, 2010 10:37:40
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\Standard 2.003

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**99.993**	**ug/L**	5.736	58618	0.076
>	Sc	45		**ug/L**		771536	771535.665
	Cr	52	**99.959**	**ug/L**	4.949	904239	1.170
	Cr	53		**ug/L**		272089	0.058
	Mn	55	**99.916**	**ug/L**	5.938	1432484	1.857
	Ni	60	**99.964**	**ug/L**	5.701	252228	0.327
>	Lu	175		**ug/L**		642790	642789.932
	Pb	208	**99.890**	**ug/L**	1.544	4385051	6.822
	U	238	**99.871**	**ug/L**	3.031	5236377	8.148

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45					
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175					
	Pb	208					
	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 1
Sample Date/Time: Sunday, February 21, 2010 10:39:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 1.004

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**51.779**	**ug/L**	3.789	30091	0.039
>	Sc	45		**ug/L**		763801	763800.879
	Cr	52	**52.685**	**ug/L**	4.101	473834	0.617
	Cr	53		**ug/L**		207409	-0.024
	Mn	55	**54.730**	**ug/L**	4.236	778828	1.017
	Ni	60	**52.712**	**ug/L**	3.165	131968	0.173
>	Lu	175		**ug/L**		658340	658340.032
	Pb	208	**51.604**	**ug/L**	1.155	2320548	3.524
	U	238	**51.214**	**ug/L**	1.200	2750857	4.178

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9	103.559				
>	Sc	45		98.1			
	Cr	52	105.371				
	Cr	53					
	Mn	55	109.461				
	Ni	60	105.424				
>	Lu	175		109.7			
	Pb	208	103.209				
	U	238	102.428				

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: Sunday, February 21, 2010 10:41:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 2.005

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	0.012	ug/L	82.302	19	0.000
>	Sc	45		ug/L		768885	768885.259
	Cr	52	-0.168	ug/L	14.165	1840	-0.002
	Cr	53		ug/L		242755	0.020
	Mn	55	-0.006	ug/L	34.546	2545	-0.000
	Ni	60	-0.001	ug/L	840.320	237	-0.000
>	Lu	175		ug/L		606652	606652.412
	Pb	208	0.004	ug/L	12.255	554	0.000
	U	238	0.016	ug/L	1.893	941	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		98.8			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		101.1			
	Pb	208					
	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 3
Sample Date/Time: Sunday, February 21, 2010 10:44:01
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 3.006

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.541**	**ug/L**	2.958	334	0.000
>	Sc	45		**ug/L**		781214	781214.098
	Cr	52	**10.908**	**ug/L**	1.406	103116	0.128
	Cr	53		**ug/L**		204994	-0.033
	Mn	55	**6.066**	**ug/L**	1.280	90763	0.113
	Ni	60	**2.212**	**ug/L**	2.736	5899	0.007
>	Lu	175		**ug/L**		637826	637826.374
	Pb	208	**2.450**	**ug/L**	1.386	107139	0.167
	U	238	**0.287**	**ug/L**	2.086	15085	0.023

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9	108.174				
>	Sc	45		100.4			
	Cr	52	109.076				
	Cr	53					
	Mn	55	121.319				
	Ni	60	110.591				
>	Lu	175		106.3			
	Pb	208	122.503				
	U	238	143.447				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	U	238	CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Sunday, February 21, 2010 10:46:07
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 4.007

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.106**	**ug/L**	27.388	63	0.000
>	Sc	45		**ug/L**		664771	664770.993
	Cr	52	**2.204**	**ug/L**	2.837	20030	0.026
	Cr	53		**ug/L**		140053	-0.085
	Mn	55	**6.838**	**ug/L**	5.258	86662	0.127
	Ni	60	**3.602**	**ug/L**	4.531	8038	0.012
>	Lu	175		**ug/L**		580018	580017.696
	Pb	208	**0.257**	**ug/L**	1.127	10554	0.018
	U	238	**0.004**	**ug/L**	10.732	342	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		85.4			
	Cr	52	66.800				
	Cr	53					
	Mn	55	117.904				
	Ni	60	108.828				
>	Lu	175		96.6			
	Pb	208	135.833				
	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: Sunday, February 21, 2010 10:48:14
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 5.008

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**20.149**	**ug/L**	3.460	9970	0.015
>	Sc	45		**ug/L**		649869	649868.633
	Cr	52	**24.402**	**ug/L**	5.264	188159	0.286
	Cr	53		**ug/L**		149871	-0.065
	Mn	55	**29.886**	**ug/L**	3.656	362968	0.556
	Ni	60	**24.298**	**ug/L**	4.441	51843	0.080
>	Lu	175		**ug/L**		592672	592672.052
	Pb	208	**22.088**	**ug/L**	1.531	894404	1.509
	U	238	**24.112**	**ug/L**	0.647	1166058	1.967

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9	100.743				
>	Sc	45		83.5			
	Cr	52	104.729				
	Cr	53					
	Mn	55	115.838				
	Ni	60	104.238				
>	Lu	175		98.7			
	Pb	208	109.406				
	U	238	120.558				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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: Sunday, February 21, 2010 10:50:22
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.009

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**51.767**	**ug/L**	3.928	29609	0.039
>	Sc	45		**ug/L**		751800	751800.433
	Cr	52	**50.172**	**ug/L**	4.186	444196	0.587
	Cr	53		**ug/L**		195140	-0.036
	Mn	55	**51.695**	**ug/L**	5.552	723952	0.961
	Ni	60	**50.548**	**ug/L**	4.403	124516	0.165
>	Lu	175		**ug/L**		667413	667412.956
	Pb	208	**51.034**	**ug/L**	1.879	2326368	3.485
	U	238	**51.311**	**ug/L**	1.769	2793869	4.186

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9	103.535				
>	Sc	45		96.6			
	Cr	52	100.344				
	Cr	53					
	Mn	55	103.390				
	Ni	60	101.096				
>	Lu	175		111.2			
	Pb	208	102.069				
	U	238	102.622				

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: Sunday, February 21, 2010 10:52:31
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.010

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.016**	**ug/L**	9.348	21	0.000
>	Sc	45		**ug/L**		754928	754927.738
	Cr	52	**-0.292**	**ug/L**	21.315	707	-0.003
	Cr	53		**ug/L**		244580	0.028
	Mn	55	**0.003**	**ug/L**	106.053	2636	0.000
	Ni	60	**-0.013**	**ug/L**	51.934	203	-0.000
>	Lu	175		**ug/L**		612882	612882.233
	Pb	208	**0.003**	**ug/L**	8.492	534	0.000
	U	238	**0.013**	**ug/L**	1.792	796	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		97.0			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		102.1			
	Pb	208					
	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 6
Sample Date/Time: Sunday, February 21, 2010 11:03:19
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.015

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**54.022**	**ug/L**	5.035	31363	0.041
>	Sc	45		**ug/L**		763414	763414.365
	Cr	52	**48.946**	**ug/L**	4.002	440091	0.573
	Cr	53		**ug/L**		233016	0.010
	Mn	55	**50.437**	**ug/L**	5.377	717178	0.938
	Ni	60	**48.783**	**ug/L**	4.413	122021	0.160
>	Lu	175		**ug/L**		673390	673389.540
	Pb	208	**50.337**	**ug/L**	1.947	2314998	3.438
	U	238	**51.406**	**ug/L**	2.134	2823923	4.194

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9	108.044				
>	Sc	45		98.1			
	Cr	52	97.892				
	Cr	53					
	Mn	55	100.873				
	Ni	60	97.566				
>	Lu	175		112.2			
	Pb	208	100.674				
	U	238	102.813				

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: Sunday, February 21, 2010 11:05:28
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.016

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.019**	**ug/L**	58.042	23	0.000
>	Sc	45		**ug/L**		774806	774806.022
	Cr	52	**0.483**	**ug/L**	5.985	7756	0.006
	Cr	53		**ug/L**		282176	0.069
	Mn	55	**0.024**	**ug/L**	25.375	3007	0.000
	Ni	60	**-0.023**	**ug/L**	23.007	183	-0.000
>	Lu	175		**ug/L**		621093	621093.098
	Pb	208	**0.003**	**ug/L**	8.377	540	0.000
	U	238	**0.015**	**ug/L**	4.719	897	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		99.5			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		103.5			
	Pb	208					
	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: 1202031027
Sample Date/Time: Sunday, February 21, 2010 11:08:04
Sample Type:
Sample Description: LANL 6020 MB
Number of Replicates: 3
Batch ID: 948090|1|ba|
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\1202031027.017

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.016**	**ug/L**	45.921	22	0.000
>	Sc	45		**ug/L**		788658	788658.444
	Cr	52	**2.686**	**ug/L**	3.695	28208	0.031
	Cr	53		**ug/L**		568916	0.426
	Mn	55	**0.289**	**ug/L**	7.277	6940	0.005
	Ni	60	**0.102**	**ug/L**	14.531	507	0.000
>	Lu	175		**ug/L**		611109	611109.143
	Pb	208	**0.011**	**ug/L**	4.563	865	0.001
	U	238	**0.001**	**ug/L**	21.438	209	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		101.3			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		101.8			
	Pb	208					
	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: 1202031028
Sample Date/Time: Sunday, February 21, 2010 11:10:13
Sample Type:
Sample Description: LANL 6020 LCS
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\1202031028.018

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**59.403**	**ug/L**	3.421	35170	0.045
>	Sc	45		**ug/L**		778088	778088.129
	Cr	52	**56.235**	**ug/L**	2.671	515173	0.658
	Cr	53		**ug/L**		604973	0.483
	Mn	55	**54.883**	**ug/L**	5.130	795465	1.020
	Ni	60	**53.211**	**ug/L**	2.526	135722	0.174
>	Lu	175		**ug/L**		603249	603249.134
	Pb	208	**58.168**	**ug/L**	0.429	2396881	3.973
	U	238	**59.666**	**ug/L**	1.264	2936854	4.868

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		100.0			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		100.5			
	Pb	208					
	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 6
Sample Date/Time: Sunday, February 21, 2010 11:25:20
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.025

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**51.347**	**ug/L**	4.973	29922	0.039
>	Sc	45		**ug/L**		766159	766159.384
	Cr	52	**50.438**	**ug/L**	3.223	455216	0.590
	Cr	53		**ug/L**		279780	0.070
	Mn	55	**52.469**	**ug/L**	4.404	749029	0.975
	Ni	60	**48.775**	**ug/L**	3.337	122483	0.160
>	Lu	175		**ug/L**		659389	659389.402
	Pb	208	**50.664**	**ug/L**	1.113	2281961	3.460
	U	238	**50.213**	**ug/L**	1.482	2701482	4.097

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9	102.695				
>	Sc	45		98.4			
	Cr	52	100.876				
	Cr	53					
	Mn	55	104.938				
	Ni	60	97.550				
>	Lu	175		109.8			
	Pb	208	101.327				
	U	238	100.425				

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: Sunday, February 21, 2010 11:27:29
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.026

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	0.031	ug/L	38.381	28	0.000
>	Sc	45		ug/L		720218	720217.685
	Cr	52	0.574	ug/L	26.610	7951	0.007
	Cr	53		ug/L		318083	0.147
	Mn	55	0.063	ug/L	20.048	3307	0.001
	Ni	60	-0.011	ug/L	34.431	198	-0.000
>	Lu	175		ug/L		601050	601049.961
	Pb	208	0.004	ug/L	33.499	567	0.000
	U	238	0.014	ug/L	5.661	825	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		92.5			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		100.1			
	Pb	208					
	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: 1202031029, 30 EAG 2/21/10
Sample Date/Time: Sunday, February 21, 2010 11:32:18
Sample Type:
Sample Description: LANL 6020 ~~DUP~~ MS
Number of Replicates: 3
Batch ID: 948090|1|ba|
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\1202031029.028

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	54.378	ug/L	3.588	32583	0.041
>	Sc	45		ug/L		787532	787532.447
	Cr	52	55.225	ug/L	4.001	511854	0.646
	Cr	53		ug/L		666537	0.552
	Mn	55	88.118	ug/L	3.573	1291412	1.638
	Ni	60	50.253	ug/L	3.921	129688	0.165
>	Lu	175		ug/L		583181	583181.357
	Pb	208	48.054	ug/L	1.000	1914279	3.282
	U	238	63.886	ug/L	0.262	3039864	5.212

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		101.2			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		97.2			
	Pb	208					
	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: 1202031030 29
Sample Date/Time: Sunday, February 21, 2010 11:34:30
Sample Type:
Sample Description: LANL 6020 MS DUP
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\1202031030.029

EAG 2/21/10

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	0.059	ug/L	15.466	47	0.000
>	Sc	45		ug/L		778996	778995.842
	Cr	52	2.772	ug/L	2.920	28652	0.032
	Cr	53		ug/L		647126	0.536
	Mn	55	41.436	ug/L	2.985	602364	0.770
	Ni	60	1.687	ug/L	1.292	4544	0.006
>	Lu	175		ug/L		576016	576016.446
	Pb	208	0.689	ug/L	1.389	27506	0.047
	U	238	3.824	ug/L	1.267	179854	0.312

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		100.1			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		96.0			
	Pb	208					
	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: 1202031031
Sample Date/Time: Sunday, February 21, 2010 11:36:40
Sample Type:
Sample Description: LANL 6020 SDILT
Number of Replicates: 3
Batch ID: 948090|5|baj
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\1202031031.030

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.029**	**ug/L**	35.604	28	0.000
>	Sc	45		**ug/L**		735421	735421.479
	Cr	52	**0.193**	**ug/L**	34.738	4842	0.002
	Cr	53		**ug/L**		410120	0.263
	Mn	55	**9.418**	**ug/L**	5.058	131012	0.175
	Ni	60	**0.375**	**ug/L**	7.710	1131	0.001
>	Lu	175		**ug/L**		616575	616575.210
	Pb	208	**0.153**	**ug/L**	0.931	6871	0.010
	U	238	**0.700**	**ug/L**	1.239	35384	0.057

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		94.5			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		102.7			
	Pb	208					
	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 6
Sample Date/Time: Sunday, February 21, 2010 11:43:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.033

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**51.320**	**ug/L**	4.604	29347	0.039
>	Sc	45		**ug/L**		751937	751936.827
	Cr	52	**50.438**	**ug/L**	4.678	446444	0.590
	Cr	53		**ug/L**		267939	0.061
	Mn	55	**51.559**	**ug/L**	4.948	722128	0.958
	Ni	60	**49.030**	**ug/L**	5.135	120764	0.161
>	Lu	175		**ug/L**		656627	656627.249
	Pb	208	**49.853**	**ug/L**	0.899	2235990	3.405
	U	238	**49.851**	**ug/L**	1.563	2670593	4.067

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9	102.639				
>	Sc	45		96.6			
	Cr	52	100.875				
	Cr	53					
	Mn	55	103.118				
	Ni	60	98.060				
>	Lu	175		109.4			
	Pb	208	99.705				
	U	238	99.702				

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: Sunday, February 21, 2010 11:45:16
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.034

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.019**	**ug/L**	49.855	21	0.000
>	Sc	45		**ug/L**		709068	709067.961
	Cr	52	**0.485**	**ug/L**	6.365	7107	0.006
	Cr	53		**ug/L**		310876	0.143
	Mn	55	**0.057**	**ug/L**	23.751	3185	0.001
	Ni	60	**-0.008**	**ug/L**	84.602	200	-0.000
>	Lu	175		**ug/L**		604968	604967.644
	Pb	208	**0.004**	**ug/L**	10.635	564	0.000
	U	238	**0.015**	**ug/L**	4.513	914	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		91.1			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		100.8			
	Pb	208					
	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: 245807001
Sample Date/Time: Sunday, February 21, 2010 11:54:00
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\245807001.038

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.022**	**ug/L**	18.512	26	0.000
>	Sc	45		**ug/L**		803305	803305.063
	Cr	52	**1.440**	**ug/L**	2.544	17042	0.017
	Cr	53		**ug/L**		745689	0.633
	Mn	55	**0.648**	**ug/L**	0.317	12434	0.012
	Ni	60	**0.054**	**ug/L**	3.215	392	0.000
>	Lu	175		**ug/L**		622341	622341.291
	Pb	208	**0.069**	**ug/L**	3.489	3352	0.005
	U	238	**0.027**	**ug/L**	2.926	1505	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		103.2			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		103.7			
	Pb	208					
	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: 245807002
Sample Date/Time: Sunday, February 21, 2010 11:56:11
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\245807002.039

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.017**	**ug/L**	94.177	23	0.000
>	Sc	45		**ug/L**		820143	820142.906
	Cr	52	**1.679**	**ug/L**	4.403	19691	0.020
	Cr	53		**ug/L**		717429	0.579
	Mn	55	**0.648**	**ug/L**	1.926	12691	0.012
	Ni	60	**0.077**	**ug/L**	9.966	460	0.000
>	Lu	175		**ug/L**		633035	633035.252
	Pb	208	**0.604**	**ug/L**	1.808	26531	0.041
	U	238	**0.093**	**ug/L**	2.867	4955	0.008

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		105.4			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		105.5			
	Pb	208					
	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 6
Sample Date/Time: Sunday, February 21, 2010 11:58:20
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.040

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**49.854**	**ug/L**	0.707	29834	0.038
>	Sc	45		**ug/L**		785777	785777.407
	Cr	52	**49.182**	**ug/L**	0.627	455648	0.576
	Cr	53		**ug/L**		269246	0.047
	Mn	55	**50.794**	**ug/L**	2.014	744494	0.944
	Ni	60	**48.447**	**ug/L**	1.631	124872	0.159
>	Lu	175		**ug/L**		675152	675151.688
	Pb	208	**50.500**	**ug/L**	3.227	2328124	3.449
	U	238	**50.003**	**ug/L**	3.298	2753491	4.080

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9	99.709				
>	Sc	45		101.0			
	Cr	52	98.364				
	Cr	53					
	Mn	55	101.588				
	Ni	60	96.894				
>	Lu	175		112.5			
	Pb	208	101.001				
	U	238	100.005				

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: Sunday, February 21, 2010 12:00:29
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl 0220.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.041

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.016**	**ug/L**	95.165	20	0.000
>	Sc	45		**ug/L**		743646	743646.228
	Cr	52	**0.571**	**ug/L**	14.614	8212	0.007
	Cr	53		**ug/L**		313055	0.126
	Mn	55	**0.047**	**ug/L**	31.117	3187	0.001
	Ni	60	**-0.013**	**ug/L**	26.877	198	-0.000
>	Lu	175		**ug/L**		633366	633366.379
	Pb	208	**0.005**	**ug/L**	22.266	615	0.000
	U	238	**0.015**	**ug/L**	2.393	921	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		95.5			
	Cr	52					
	Cr	53					
	Mn	55					
	Ni	60					
>	Lu	175		105.5			
	Pb	208					
	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: Blank
Sample Date/Time: Sunday, February 21, 2010 12:04:10
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\Blank.042

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		617752	
	U	238		ug/L		374	

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 % Dif	Duplicate Rel. % Difference
>	Lu	175					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1
Sample Date/Time: Sunday, February 21, 2010 12:05:49
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\Standard 1.043

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		664172	664172.319
	U	238	10.000	ug/L	2.543	659083	0.992

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
>	Lu	175					
	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: Sunday, February 21, 2010 12:07:26
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\Standard 2.044

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		652973	652972.788
	U	238	99.825	ug/L	0.646	5504050	8.429

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 % Dif	Duplicate Rel. % Difference
>	Lu	175					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Sunday, February 21, 2010 12:09:03
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 1.045

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Lu	175		ug/L		659537	659536.785
⌊	U	238	51.177	ug/L	2.467	2849484	4.321

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 % Dif	Duplicate Rel. % Difference
⌈>	Lu	175		106.8			
⌊	U	238	102.354				

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: Sunday, February 21, 2010 12:10:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 2.046

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		633323	633323.380
	U	238	0.013	ug/L	1.969	1077	0.001

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 % Dif	Duplicate Rel. % Difference
>	Lu	175		102.5			
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Sunday, February 21, 2010 12:12:23
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 3.047

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Lu	175		ug/L		646467	646466.570
⌊	U	238	0.250	ug/L	2.827	14049	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 % Dil	Duplicate Rel. % Difference
⌈>	Lu	175		104.6			
⌊	U	238	125.110				

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: Sunday, February 21, 2010 12:14:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 4.048

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		583428	583427.977
	U	238	-0.000	ug/L	2363.642	351	-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		94.4			
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Sunday, February 21, 2010 12:15:41
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 5.049

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		595331	595331.116
	U	238	23.650	ug/L	1.086	1189143	1.997

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		96.4			
	U	238	118.250				

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: Sunday, February 21, 2010 12:17:21
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.050

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		670507	670507.287
	U	238	49.111	ug/L	1.733	2780637	4.147

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		108.5			
	U	238	98.222				

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: Sunday, February 21, 2010 12:19:02
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.051

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		606909	606909.258
	U	238	0.012	ug/L	4.367	1002	0.001

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		98.2			
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Sunday, February 21, 2010 12:35:44
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.061

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		657594	657593.889
	U	238	47.680	ug/L	1.141	2647696	4.026

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		106.4			
	U	238	95.361				

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: Sunday, February 21, 2010 12:37:25
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.062

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		613255	613255.402
	U	238	0.010	ug/L	4.739	886	0.001

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 % Dif	Duplicate Rel. % Difference
>	Lu	175		99.3			
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Sunday, February 21, 2010 12:52:33
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.071

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		659502	659501.648
	U	238	46.905	ug/L	0.926	2612293	3.960

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 % Dif	Duplicate Rel. % Difference
>	Lu	175		106.8			
	U	238	93.810				

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: Sunday, February 21, 2010 12:54:14
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.072

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		571853	571853.062
	U	238	0.011	ug/L	4.596	860	0.001

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 % Dif	Duplicate Rel. % Difference
>	Lu	175		92.6			
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202031027
Sample Date/Time: Sunday, February 21, 2010 12:59:33
Sample Type:
Sample Description: LANL 6020 MB
Number of Replicates: 3
Batch ID: 948090|1|ba|
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\1202031027.073

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		564550	564550.144
	U	238	-0.004	ug/L	7.890	147	-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		91.4			
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202031028
Sample Date/Time: Sunday, February 21, 2010 13:01:15
Sample Type:
Sample Description: LANL 6020 LCS
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\1202031028.074

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Lu	175		ug/L		574994	574994.347
⌊	U	238	56.728	ug/L	1.009	2754483	4.790

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 % Dif	Duplicate Rel. % Difference
⌈>	Lu	175		93.1			
⌊	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

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Sunday, February 21, 2010 13:13:06
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.081

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		642234	642234.343
	U	238	46.208	ug/L	0.746	2506027	3.902

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 % Dif	Duplicate Rel. % Difference
>	Lu	175		104.0			
	U	238	92.415				

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: Sunday, February 21, 2010 13:14:47
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.082

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Lu	175		ug/L		564447	564446.757
⌊	U	238	0.014	ug/L	15.112	1004	0.001

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		91.4			
⌊	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202031029
Sample Date/Time: Sunday, February 21, 2010 13:22:33
Sample Type:
Sample Description: LANL 6020 DUP
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\1202031029.086

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Lu	175		ug/L		551899	551899.197
⌊	U	238	3.591	ug/L	1.281	167638	0.303

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 % Dif	Duplicate Rel. % Difference
⌈>	Lu	175		89.3			
⌊	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202031030
Sample Date/Time: Sunday, February 21, 2010 13:24:17
Sample Type:
Sample Description: LANL 6020 MS
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\1202031030.087

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Lu	175		ug/L		548798	548797.541
⌊	U	238	60.067	ug/L	1.187	2783713	5.072

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 % Dif	Duplicate Rel. % Difference
⌈>	Lu	175		88.8			
⌊	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202031031
Sample Date/Time: Sunday, February 21, 2010 13:25:59
Sample Type:
Sample Description: LANL 6020 SDILT
Number of Replicates: 3
Batch ID: 948090|5|ba|
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\1202031031.088

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		589161	589161.330
	U	238	0.681	ug/L	0.311	34232	0.057

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		95.4			
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Sunday, February 21, 2010 13:27:40
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.089

Concentration Results

	Analyte	Mass	**Conc. Mean**	**Report Unit**	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		**ug/L**		647357	647356.844
	U	238	**46.422**	**ug/L**	0.412	2537723	3.920

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 % Dif	Duplicate Rel. % Difference
>	Lu	175		104.8			
	U	238	92.844				

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: Sunday, February 21, 2010 13:29:21
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.090

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		608393	608392.911
	U	238	0.012	ug/L	6.214	978	0.001

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 % Dif	Duplicate Rel. % Difference
>	Lu	175		98.5			
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245807001
Sample Date/Time: Sunday, February 21, 2010 13:39:37
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\245807001.096

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		567764	567763.625
	U	238	0.022	ug/L	3.044	1421	0.002

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		91.9			
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245807002
Sample Date/Time: Sunday, February 21, 2010 13:41:20
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 948090|1|baj
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\245807002.097

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Lu	175		ug/L		569873	569873.134
⌊	U	238	0.088	ug/L	1.634	4575	0.007

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 % Dif	Duplicate Rel. % Difference
⌈>	Lu	175		92.2			
⌊	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Sunday, February 21, 2010 13:43:00
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 6.098

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		647094	647094.033
	U	238	46.309	ug/L	1.445	2530499	3.910

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		104.7			
	U	238	92.618				

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: Sunday, February 21, 2010 13:44:41
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\u only.mth
Dataset File: C:\elandata\Dataset\100221\QC Std 7.099

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Lu	175		ug/L		576307	576306.908
⌊	U	238	0.012	ug/L	4.241	942	0.001

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		93.3			
⌊	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Method Name: WATER
Method Description: 7470A, 245.2, ILM04 ANALYST JXL
Element: Hg

Date: 02/15/2010
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 021510W1.SIF Results Data Set Name: 021510W1

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 02/15/2010
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0024	0.0024	09:21:41	No
2			0.0024	0.0024	09:22:16	No
Mean:			0.0024			
SD :			0.0000			
%RSD:			0.5205			

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 02/15/2010
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0018	0.0042	09:23:38	No
2			0.0018	0.0042	09:24:13	No
Mean:			0.0018			
SD :			0.0000			
%RSD:						

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.00889
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 02/15/2010
Sample ID: S0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0042	0.0067	09:25:37	No
2			0.0041	0.0065	09:26:12	No
Mean:			0.0042			
SD :			0.0001			
%RSD:			1.7287			

[Hg] Standard number 2 applied. [0.500]
Correlation Coefficient: 0.99956 Slope: 0.00831
Intercept : 0.00004

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 02/15/2010
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0182	0.0206	09:27:37	No
2			0.0179	0.0203	09:28:11	No
Mean:			0.0180			
SD :			0.0002			
%RSD:			1.1683			

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99980 Slope: 0.00905
Intercept : -0.00011

==========

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 02/15/2010
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0452	0.0477	09:29:36	No
2			0.0450	0.0474	09:30:11	No
Mean:			0.0451			
SD :			0.0002			
%RSD:			0.4113			

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99997 Slope: 0.00905
Intercept : -0.00011

==========

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 02/15/2010
Sample ID: S10

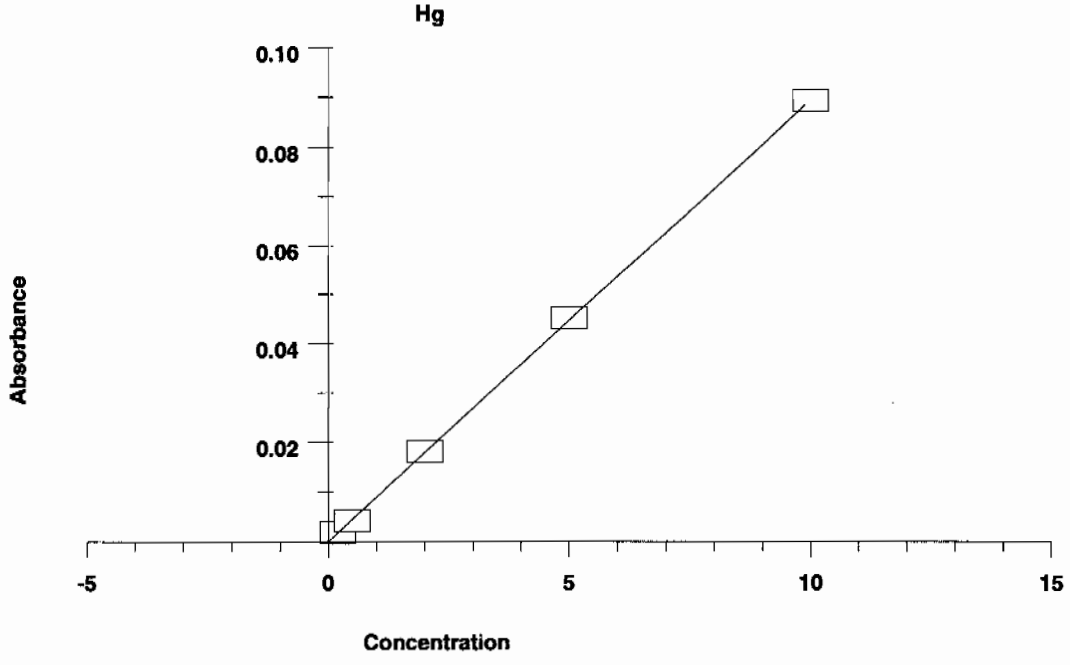
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0897	0.0921	09:31:37	No
2			0.0887	0.0911	09:32:12	No
Mean:			0.0892			
SD :			0.0007			
%RSD:			0.8016			

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99997 Slope: 0.00894
Intercept : 0.00001

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0024	---	----	----	----
S0.2	0.0018	0.200	0.198	0.0000	----
S0.5	0.0042	0.500	0.465	0.0001	1.7
S2.0	0.0180	2.000	2.017	0.0002	1.2
S5.0	0.0451	5.000	5.046	0.0002	0.4
S10	0.0892	10.000	9.975	0.0007	0.8

Correlation Coefficient: 0.99997 Slope: 0.00894 Intercept: 0.0000



==========

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 02/15/2010
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.048	5.048	0.0451	0.0476	09:33:41	No
2	4.991	4.991	0.0446	0.0471	09:34:16	No
Mean:	5.020	5.020	0.0449			
SD :	0.0405	0.0405	0.0004			
%RSD:	0.8	0.8	0.8076			

QC value within specified limits.

==========

Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 02/15/2010
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0002	0.0022	09:35:38	No
2	-0.055	-0.055	-0.0005	0.0019	09:36:13	No
Mean:	-0.042	-0.042	-0.0004			
SD :	0.0195	0.0195	0.0002			
%RSD:	47.1	47.1	48.4306			

QC value within specified limits.

==========

Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 02/15/2010
Sample ID: CRDL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.200	0.200	0.0018	0.0042	09:37:35	No
2	0.193	0.193	0.0017	0.0042	09:38:10	No
Mean:	0.197	0.197	0.0018			
SD :	0.0048	0.0048	0.0000			
%RSD:	2.4	2.4	2.4178			

QC value within specified limits.

==========

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 02/15/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.071	5.071	0.0453	0.0478	09:39:35	No
2	5.003	5.003	0.0447	0.0472	09:40:10	No
Mean:	5.037	5.037	0.0450			
SD :	0.0480	0.0480	0.0004			
%RSD:	1.0	1.0	0.9530			

QC value within specified limits.

==========

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 02/15/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.034	-0.034	-0.0003	0.0021	09:41:39	No
2	-0.033	-0.033	-0.0003	0.0021	09:42:13	No
Mean:	-0.034	-0.034	-0.0003			
SD :	0.0001	0.0001	0.0000			
%RSD:	0.3	0.3	0.3404			

QC value within specified limits.

==========

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 02/15/2010
Sample ID: 1202030001|i||947659|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.032	-0.032	-0.0003	0.0021	09:43:40	No
2	-0.041	-0.041	-0.0004	0.0021	09:44:15	No
Mean:	-0.037	-0.037	-0.0003			
SD :	0.0063	0.0063	0.0001			
%RSD:	17.1	17.1	17.6447			

==========

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 02/15/2010
Sample ID: 1202030002|i|||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.137	2.137	0.0191	0.0215	09:45:39	No
2	2.109	2.109	0.0189	0.0213	09:46:14	No
Mean:	2.123	2.123	0.0190			
SD :	0.0200	0.0200	0.0002			
%RSD:	0.9	0.9	0.9436			

==========

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 02/15/2010
Sample ID: 245605002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.001	-0.001	0.0000	0.0024	09:47:39	No
2	0.002	0.002	0.0000	0.0025	09:48:14	No
Mean:	0.000	0.000	0.0000			
SD :	0.0015	0.0015	0.0000			
%RSD:	336.1	336.1	93.9525			

==========

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 02/15/2010
Sample ID: 245605003|i|||

%RSD: 0.7 0.7 0.6795

==========

Element: Hg Seq. No.: 21 AS Loc.: 21 Date: 02/15/2010
Sample ID: 1202030005|i|5||SDILT

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.099	-0.099	-0.0009	0.0016	10:01:28	No
2	-0.104	-0.104	-0.0009	0.0015	10:02:03	No
Mean:	-0.102	-0.102	-0.0009			
SD :	0.0037	0.0037	0.0000			
%RSD:	3.7	3.7	3.7087			

==========

Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 02/15/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.145	5.145	0.0460	0.0484	10:03:28	No
2	5.088	5.088	0.0455	0.0479	10:04:03	No
Mean:	5.117	5.117	0.0457			
SD :	0.0403	0.0403	0.0004			
%RSD:	0.8	0.8	0.7877			

QC value within specified limits.

==========

Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 02/15/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.043	-0.043	-0.0004	0.0021	10:05:31	No
2	-0.037	-0.037	-0.0003	0.0021	10:06:06	No
Mean:	-0.040	-0.040	-0.0003			
SD :	0.0038	0.0038	0.0000			
%RSD:	9.4	9.4	9.6735			

QC value within specified limits.

==========

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 02/15/2010
Sample ID: 245673002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.0003	0.0022	10:07:31	No
2	-0.051	-0.051	-0.0004	0.0020	10:08:06	No
Mean:	-0.041	-0.041	-0.0004			
SD :	0.0135	0.0135	0.0001			
%RSD:	33.0	33.0	33.9271			

==========

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 02/15/2010
Sample ID: 245673003|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.047	-0.047	-0.0004	0.0020	10:09:30	No
2	-0.053	-0.053	-0.0005	0.0020	10:10:04	No
Mean:	-0.050	-0.050	-0.0004			
SD :	0.0044	0.0044	0.0000			
%RSD:	8.7	8.7	8.9549			

==========

Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 02/15/2010
Sample ID: 245673004|i|||

%RSD:

==========

Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 02/15/2010
Sample ID: 1202041608|i|||DUP

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.052	-0.052	-0.0005	0.0020	10:23:29	No
2	-0.055	-0.055	-0.0005	0.0019	10:24:04	No
Mean:	-0.054	-0.054	-0.0005			
SD :	0.0019	0.0019	0.0000			
%RSD:	3.6	3.6	3.6715			

==========

Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 02/15/2010
Sample ID: 1202041609|i|||MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.104	2.104	0.0188	0.0212	10:25:32	No
2	2.113	2.113	0.0189	0.0213	10:26:07	No
Mean:	2.108	2.108	0.0189			
SD :	0.0059	0.0059	0.0001			
%RSD:	0.3	0.3	0.2779			

==========

Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 02/15/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.147	5.147	0.0460	0.0484	10:27:34	No
2	5.128	5.128	0.0459	0.0483	10:28:09	No
Mean:	5.137	5.137	0.0459			
SD :	0.0129	0.0129	0.0001			
%RSD:	0.3	0.3	0.2516			

QC value within specified limits.

==========

Element: Hg Seq. No.: 35 AS Loc.: 8 Date: 02/15/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.046	-0.046	-0.0004	0.0020	10:29:38	No
2	-0.049	-0.049	-0.0004	0.0020	10:30:12	No
Mean:	-0.048	-0.048	-0.0004			
SD :	0.0018	0.0018	0.0000			
%RSD:	3.7	3.7	3.8110			

QC value within specified limits.

==========

Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 02/15/2010
Sample ID: 1202041610|i|5||SDILT

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.092	-0.092	-0.0008	0.0016	10:31:36	No
2	-0.100	-0.100	-0.0009	0.0015	10:32:11	No
Mean:	-0.096	-0.096	-0.0008			
SD :	0.0063	0.0063	0.0001			
%RSD:	6.6	6.6	6.6348			

==========

Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 02/15/2010
Sample ID: 246789002|i|||

%RSD: 5.9 5.9 5.9632

==========

Element: Hg Seq. No.: 43 AS Loc.: 39 Date: 02/15/2010
Sample ID: 1202041424|i|||MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.068	2.068	0.0185	0.0209	10:45:09	No
2	2.071	2.071	0.0185	0.0209	10:45:44	No
Mean:	2.070	2.070	0.0185			
SD :	0.0017	0.0017	0.0000			
%RSD:						

==========

Element: Hg Seq. No.: 44 AS Loc.: 40 Date: 02/15/2010
Sample ID: 1202041425|i|||MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.101	2.101	0.0188	0.0212	10:47:08	No
2	2.106	2.106	0.0188	0.0213	10:47:43	No
Mean:	2.103	2.103	0.0188			
SD :	0.0033	0.0033	0.0000			
%RSD:	0.2	0.2	0.1587			

==========

Element: Hg Seq. No.: 45 AS Loc.: 41 Date: 02/15/2010
Sample ID: 1202041435|i|5||SDILT

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.119	-0.119	-0.0010	0.0014	10:49:07	No
2	-0.125	-0.125	-0.0011	0.0013	10:49:42	No
Mean:	-0.122	-0.122	-0.0011			
SD :	0.0046	0.0046	0.0000			
%RSD:	3.7	3.7	3.7805			

==========

Element: Hg Seq. No.: 46 AS Loc.: 7 Date: 02/15/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.101	5.101	0.0456	0.0480	10:51:08	No
2	5.106	5.106	0.0456	0.0481	10:51:43	No
Mean:	5.103	5.103	0.0456			
SD :	0.0035	0.0035	0.0000			
%RSD:						

QC value within specified limits.

==========

Element: Hg Seq. No.: 47 AS Loc.: 8 Date: 02/15/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.095	-0.095	-0.0008	0.0016	10:53:11	No
2	-0.099	-0.099	-0.0009	0.0016	10:53:46	No
Mean:	-0.097	-0.097	-0.0009			
SD :	0.0026	0.0026	0.0000			
%RSD:	2.7	2.7	2.7104			

QC value within specified limits.

==========

Element: Hg Seq. No.: 48 AS Loc.: 42 Date: 02/15/2010
Sample ID: 246914003|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.083	-0.083	-0.0007	0.0017	10:55:12	No
2	-0.092	-0.092	-0.0008	0.0016	10:55:47	No
Mean:	-0.087	-0.087	-0.0008			
SD :	0.0064	0.0064	0.0001			
%RSD:	7.3	7.3	7.3722			

Element: Hg Seq. No.: 49 AS Loc.: 43 Date: 02/15/2010
Sample ID: 246914004|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.109	-0.109	-0.0010	0.0015	10:57:12	No
2	-0.113	-0.113	-0.0010	0.0014	10:57:47	No
Mean:	-0.111	-0.111	-0.0010			
SD :	0.0031	0.0031	0.0000			
%RSD:	2.8	2.8	2.7827			

Element: Hg Seq. No.: 50 AS Loc.: 44 Date: 02/15/2010
Sample ID: 246914005|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.092	-0.092	-0.0008	0.0016	10:59:13	No
2	-0.098	-0.098	-0.0009	0.0016	10:59:48	No
Mean:	-0.095	-0.095	-0.0008			
SD :	0.0039	0.0039	0.0000			
%RSD:	4.1	4.1	4.1164			

Element: Hg Seq. No.: 51 AS Loc.: 45 Date: 02/15/2010
Sample ID: 1202029965|i||947646|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.118	-0.118	-0.0010	0.0014	11:01:14	No
2	-0.112	-0.112	-0.0010	0.0014	11:01:48	No
Mean:	-0.115	-0.115	-0.0010			
SD :	0.0040	0.0040	0.0000			
%RSD:	3.4	3.4	3.4701			

Element: Hg Seq. No.: 52 AS Loc.: 46 Date: 02/15/2010
Sample ID: 1202029966|i|||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.047	2.047	0.0183	0.0207	11:03:14	No
2	2.027	2.027	0.0181	0.0206	11:03:49	No
Mean:	2.037	2.037	0.0182			
SD :	0.0137	0.0137	0.0001			
%RSD:	0.7	0.7	0.6701			

Element: Hg Seq. No.: 53 AS Loc.: 47 Date: 02/15/2010
Sample ID: 245681001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.114	-0.114	-0.0010	0.0014	11:05:16	No
2	-0.107	-0.107	-0.0009	0.0015	11:05:51	No
Mean:	-0.111	-0.111	-0.0010			
SD :	0.0051	0.0051	0.0000			

%RSD: 4.6 4.6 4.6202

==========

Element: Hg Seq. No.: 54 AS Loc.: 48 Date: 02/15/2010
Sample ID: 245681002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.113	-0.113	-0.0010	0.0014	11:07:15	No
2	-0.118	-0.118	-0.0010	0.0014	11:07:50	No
Mean:	-0.115	-0.115	-0.0010			
SD :	0.0038	0.0038	0.0000			
%RSD:	3.3	3.3	3.3203			

==========

Element: Hg Seq. No.: 55 AS Loc.: 49 Date: 02/15/2010
Sample ID: 245690001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.102	-0.102	-0.0009	0.0015	11:09:10	No
2	-0.107	-0.107	-0.0009	0.0015	11:09:45	No
Mean:	-0.105	-0.105	-0.0009			
SD :	0.0036	0.0036	0.0000			
%RSD:	3.4	3.4	3.4771			

==========

Element: Hg Seq. No.: 56 AS Loc.: 50 Date: 02/15/2010
Sample ID: 245690002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.099	-0.099	-0.0009	0.0016	11:11:06	No
2	-0.109	-0.109	-0.0010	0.0015	11:11:41	No
Mean:	-0.104	-0.104	-0.0009			
SD :	0.0072	0.0072	0.0001			
%RSD:	6.9	6.9	6.9975			

==========

Element: Hg Seq. No.: 57 AS Loc.: 51 Date: 02/15/2010
Sample ID: 245807001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.110	-0.110	-0.0010	0.0015	11:13:02	No
2	-0.115	-0.115	-0.0010	0.0014	11:13:36	No
Mean:	-0.112	-0.112	-0.0010			
SD :	0.0033	0.0033	0.0000			
%RSD:	3.0	3.0	2.9987			

==========

Element: Hg Seq. No.: 58 AS Loc.: 7 Date: 02/15/2010
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.081	5.081	0.0454	0.0479	11:15:01	No
2	5.124	5.124	0.0458	0.0482	11:15:36	No
Mean:	5.102	5.102	0.0456			
SD :	0.0304	0.0304	0.0003			
%RSD:	0.6	0.6	0.5954			

QC value within specified limits.

==========

Element: Hg Seq. No.: 59 AS Loc.: 8 Date: 02/15/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.104	-0.104	-0.0009	0.0015	11:17:04	No
2	-0.111	-0.111	-0.0010	0.0014	11:17:39	No
Mean:	-0.108	-0.108	-0.0010			
SD :	0.0046	0.0046	0.0000			
%RSD:	4.2	4.2	4.2806			

QC value within specified limits.

==========

Element: Hg Seq. No.: 60 AS Loc.: 52 Date: 02/15/2010
Sample ID: 1202029967|i|||DUP

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.107	-0.107	-0.0009	0.0015	11:19:04	No
2	-0.116	-0.116	-0.0010	0.0014	11:19:39	No
Mean:	-0.111	-0.111	-0.0010			
SD :	0.0065	0.0065	0.0001			
%RSD:	5.8	5.8	5.8805			

==========

Element: Hg Seq. No.: 61 AS Loc.: 53 Date: 02/15/2010
Sample ID: 1202029968|i|||MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.104	2.104	0.0188	0.0212	11:21:01	No
2	2.120	2.120	0.0190	0.0214	11:21:36	No
Mean:	2.112	2.112	0.0189			
SD :	0.0117	0.0117	0.0001			
%RSD:	0.6	0.6	0.5520			

==========

Element: Hg Seq. No.: 62 AS Loc.: 54 Date: 02/15/2010
Sample ID: 1202029969|i|5||SDILT

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.149	-0.149	-0.0013	0.0011	11:22:58	No
2	-0.148	-0.148	-0.0013	0.0011	11:23:33	No
Mean:	-0.148	-0.148	-0.0013			
SD :	0.0006	0.0006	0.0000			
%RSD:	0.4	0.4	0.3912			

==========

Element: Hg Seq. No.: 63 AS Loc.: 55 Date: 02/15/2010
Sample ID: 245807002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.112	-0.112	-0.0010	0.0014	11:24:56	No
2	-0.117	-0.117	-0.0010	0.0014	11:25:30	No
Mean:	-0.115	-0.115	-0.0010			
SD :	0.0031	0.0031	0.0000			
%RSD:	2.7	2.7	2.7422			

==========

Element: Hg Seq. No.: 64 AS Loc.: 56 Date: 02/15/2010
Sample ID: 1202039059|i||951455|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.094	-0.094	-0.0008	0.0016	11:26:55	No
2	-0.105	-0.105	-0.0009	0.0015	11:27:29	No
Mean:	-0.099	-0.099	-0.0009			
SD :	0.0076	0.0076	0.0001			

%RSD: 7.6 7.6 7.7159

==========

Element: Hg Seq. No.: 65 AS Loc.: 57 Date: 02/15/2010
Sample ID: 1202039060|i|||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.267	2.267	0.0203	0.0227	11:28:54	No
2	2.265	2.265	0.0203	0.0227	11:29:28	No
Mean:	2.266	2.266	0.0203			
SD :	0.0011	0.0011	0.0000			
%RSD:						

==========

Element: Hg Seq. No.: 66 AS Loc.: 58 Date: 02/15/2010
Sample ID: 246264001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.097	-0.097	-0.0009	0.0016	11:30:52	No
2	-0.104	-0.104	-0.0009	0.0015	11:31:26	No
Mean:	-0.101	-0.101	-0.0009			
SD :	0.0048	0.0048	0.0000			
%RSD:	4.7	4.7	4.7837			

==========

Element: Hg Seq. No.: 67 AS Loc.: 59 Date: 02/15/2010
Sample ID: 246269001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.098	-0.098	-0.0009	0.0016	11:32:50	No
2	-0.108	-0.108	-0.0010	0.0015	11:33:24	No
Mean:	-0.103	-0.103	-0.0009			
SD :	0.0072	0.0072	0.0001			
%RSD:	7.0	7.0	7.0414			

==========

Element: Hg Seq. No.: 68 AS Loc.: 60 Date: 02/15/2010
Sample ID: 246278001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.110	-0.110	-0.0010	0.0015	11:34:49	No
2	-0.110	-0.110	-0.0010	0.0015	11:35:24	No
Mean:	-0.110	-0.110	-0.0010			
SD :	0.0002	0.0002	0.0000			
%RSD:	0.2	0.2	0.1960			

==========

Element: Hg Seq. No.: 69 AS Loc.: 61 Date: 02/15/2010
Sample ID: 246282001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.094	-0.094	-0.0008	0.0016	11:36:50	No
2	-0.113	-0.113	-0.0010	0.0014	11:37:25	No
Mean:	-0.104	-0.104	-0.0009			
SD :	0.0134	0.0134	0.0001			
%RSD:	12.9	12.9	13.0431			

==========

Element: Hg Seq. No.: 70 AS Loc.: 7 Date: 02/15/2010
Sample ID: CCV

Repl	SampleConc	StndConc	BlnkCorr	Peak	Time	Peak

#	µg/L	µg/L	Signal	Height		Stored
1	5.193	5.193	0.0464	0.0489	11:38:52	No
2	5.202	5.202	0.0465	0.0489	11:39:27	No
Mean:	5.197	5.197	0.0465			
SD :	0.0063	0.0063	0.0001			
%RSD:	0.1	0.1	0.1218			

QC value within specified limits.

==========

Element: Hg Seq. No.: 71 AS Loc.: 8 Date: 02/15/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.094	-0.094	-0.0008	0.0016	11:40:54	No
2	-0.097	-0.097	-0.0009	0.0016	11:41:29	No
Mean:	-0.096	-0.096	-0.0008			
SD :	0.0024	0.0024	0.0000			
%RSD:	2.5	2.5	2.5414			

QC value within specified limits.

==========

Element: Hg Seq. No.: 72 AS Loc.: 62 Date: 02/15/2010
Sample ID: 246292001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.097	-0.097	-0.0009	0.0016	11:42:56	No
2	-0.091	-0.091	-0.0008	0.0016	11:43:31	No
Mean:	-0.094	-0.094	-0.0008			
SD :	0.0042	0.0042	0.0000			
%RSD:	4.5	4.5	4.5299			

==========

Element: Hg Seq. No.: 73 AS Loc.: 63 Date: 02/15/2010
Sample ID: 246292002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.126	-0.126	-0.0011	0.0013	11:44:53	No
2	-0.128	-0.128	-0.0011	0.0013	11:45:28	No
Mean:	-0.127	-0.127	-0.0011			
SD :	0.0011	0.0011	0.0000			
%RSD:	0.9	0.9	0.8800			

==========

Element: Hg Seq. No.: 74 AS Loc.: 64 Date: 02/15/2010
Sample ID: 246299001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.113	-0.113	-0.0010	0.0014	11:46:48	No
2	-0.116	-0.116	-0.0010	0.0014	11:47:23	No
Mean:	-0.115	-0.115	-0.0010			
SD :	0.0022	0.0022	0.0000			
%RSD:	1.9	1.9	1.9110			

==========

Element: Hg Seq. No.: 75 AS Loc.: 65 Date: 02/15/2010
Sample ID: 246306001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.096	-0.096	-0.0008	0.0016	11:48:44	No
2	-0.096	-0.096	-0.0008	0.0016	11:49:18	No
Mean:	-0.096	-0.096	-0.0008			
SD :	0.0002	0.0002	0.0000			

Miscellaneous

Prep LogBook

Analyst: LYH1 Verified by:_____

Batch: 948089

Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202031028	UI100120-A	.5	mL
LCS	1202031028	UI100120-B	.5	mL
MS	1202031030	UI090828-A	.5	mL
MS	1202031030	UI090828-B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202031027		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
LCS	1202031028		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
SAMPLE	245673001		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	GROUND WATER
SAMPLE	245673002		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	GROUND WATER
SAMPLE	245673003		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	GROUND WATER
SAMPLE	245673004		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	GROUND WATER
SAMPLE	245673005		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	GROUND WATER
SAMPLE	245673006		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	GROUND WATER
SAMPLE	245676001		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
DUP	1202031029	245676001	SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
MS	1202031030	245676001	SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
SDILT	1202031031	245676001	SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
SAMPLE	245676002		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
SAMPLE	245676003		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
SAMPLE	245676004		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
SAMPLE	245676005		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
SAMPLE	245676006		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	SURFACE WATER
SAMPLE	245807001		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	WATER
SAMPLE	245807002		SW846 3005A	03-FEB-2010 08:35	<2	50 mL	50 mL	1	WATER

Reagent/Solvent Lot ID	Amount	Description
100202	2.5 mL	HYDROCHLORIC ACID
1234886	1 mL	Nitric Acid CONC.

Comments:

Prep LogBook

Analyst: TXB3 Verified by:_____

Batch: 947645

Lab SOP: GL-MA-E-010 REV# 23

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202029966	WHG100212-13	.2	mL
MS	1202029968	WHG100212-13	.2	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202029965		SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
LCS	1202029966		SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
SAMPLE	245681001		SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
SAMPLE	245681002		SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
SAMPLE	245690001		SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
SAMPLE	245690002		SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
SAMPLE	245807001		SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
DUP	1202029967	245807001	SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
MS	1202029968	245807001	SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
SDILT	1202029969	245807001	SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER
SAMPLE	245807002		SW846 7470A Prep	12-FEB-2010 14:10	<2	20 mL	20 mL	1	WATER

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
1264984-C	3 mL	5% KMnO4 solution
1255532-C	1 mL	Hg reducing agent
WHG100212-06	500 uL	Mercury Working 2nd Source 5.0/ICV
WHG100212-01a	20 uL	Mercury Working 1st Source CAL 0.2/CRA
WHG100212-02	50 uL	Mercury Working 1st Source CAL 0.5
WHG100212-05	1 mL	Mercury Working 1st Source CAL 10.0
WHG100212-03	200 uL	Mercury Working 1st Source CAL 2.0
WHG100212-04	500 uL	Mercury Working 1st Source CAL 5.0/CCV

Comments: Digestion Start Date: 12-FEB-10 14:10
Digestion End Date: 12-FEB-10 16:10

Prep LogBook

Analyst: AXG2 Verified by:_____

Batch: 948085

Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202031026	UI100205-01	.125	mL
LCS	1202031026	UI100205-06	.125	mL
MS	1202031024	UI100205-01	.125	mL
MS	1202031024	UI100205-06	.125	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202031021		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
LCS	1202031026		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
SAMPLE	245673001		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
DUP	1202031022	245673001	SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
SDILT	1202031023	245673001	SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
MS	1202031024	245673001	SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
SAMPLE	245673002		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
SAMPLE	245673003		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
SAMPLE	245673004		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
SAMPLE	245673005		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
SAMPLE	245673006		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	GROUND WATER
SAMPLE	245676001		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	SURFACE WATER
SAMPLE	245676002		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	SURFACE WATER
SAMPLE	245676003		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	SURFACE WATER
SAMPLE	245676004		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	SURFACE WATER
SAMPLE	245676005		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	SURFACE WATER
SAMPLE	245676006		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	SURFACE WATER
SAMPLE	245807001		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	WATER
SAMPLE	245807002		SW846 3005A	25-FEB-2010 08:00	<2	25 mL	25 mL	1	WATER

Reagent/Solvent Lot ID	Amount	Description
1265209	1.25 mL	HYDROCHLORIC ACID
1274969	.5 mL	Nitric Acid CONC.

Comments:

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: 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%IN5%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 S **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		

Standard Logbook

Serial ID:	UI090701-09	**Opened:**	01-JUL-09	**Amount :**	250 mL
Name:	ICP-MS CRDL Master #1	**Received:**	01-JUL-09	**Catalog Number :**	160044-09-02
Type:	Source Material	**Expires:**	01-JUL-10	**Lot Number :**	1016477
Employee:	Paul Boyd			**Solvent :**	+/- 0.5% IN 2% HNO3
Supplier:	02SI				
Description:	ICPMS CRDL Master Soln #1				
Comments:	None				

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID:	UI090701-10	**Opened:**	01-JUL-09	**Amount :**	250 mL
Name:	ICP-MS CRDL Master #2	**Received:**	01-JUL-09	**Catalog Number :**	160044-08-02
Type:	Source Material	**Expires:**	01-JUL-10	**Lot Number :**	1016476
Employee:	Paul Boyd			**Solvent :**	+/- 0.5% IN 2% HNO3
Supplier:	02SI				
Description:	ICPMS CRDL Soln #2				
Comments:	None				

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID:	UI090701-40	**Opened:**	01-JUL-09	**Amount :**	500 mL
Name:	TRACE ICP Stock PQL St	**Received:**	30-JUN-09	**Catalog Number :**	160543-01-03
Type:	Source Material	**Expires:**	01-JUL-10	**Lot Number :**	1016475
Employee:	Helen Camello			**Solvent :**	+/-0.5%in2%HNO3+TrHF
Supplier:	02si				
Description:	TRACE ICP Stock PQL Standard				
Comments:	None				

Analyte	Concentration	Analyte	Concentration

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: 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: UI090828-A **Opened:** 28-AUG-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 27-AUG-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 28-AUG-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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI090828-B **Opened:** 28-AUG-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 27-AUG-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 28-AUG-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE Liquid Spike Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: 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

Standard Logbook

Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Standard Logbook

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H20/tr HF
Supplier: ENVIRNMENTAL EXPRESS
Description: SILICON 1000mg/L H20/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091217-06 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-DEC-09 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018209
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI091217-07 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-DEC-09 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018210
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Standard Logbook

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
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Standard Logbook

Serial ID: 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: UI100120-A **Opened:** 20-JAN-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 20-JAN-10 **Lot Number :** 1018097
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: O2si
Description: ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	5 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Bismuth	5 mg/L	Boron	10 mg/L
Cadmium	5 mg/L	Calcium	200 mg/L
Cesium	5 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	5 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorous	200 mg/L	Potassium	200 mg/L
Selenium	5 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	5 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Serial ID: UI100120-B **Opened:** 20-JAN-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 20-JAN-10 **Lot Number :** 1017644
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: O2si
Description: MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).
Comments: None

Standard Logbook

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: UI100205-01 **Opened:** 05-FEB-10 **Lot Number :** 1018514
Name: METALSPIKE-1 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI100205-06 **Opened:** 05-FEB-10 **Lot Number :** 1018515
Name: METALSPIKE-2 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Standard Logbook

Serial ID: UI100210-48 **Opened:** 11-FEB-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 10-FEB-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 11-FEB-11 **Lot Number :** 1018807
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: UI100211-40 **Opened:** 11-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 10-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 11-FEB-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

Serial ID: UI100211-41 **Opened:** 11-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 10-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 11-FEB-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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UI100219-11 **Opened:** 19-FEB-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 19-FEB-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018321
Employee: Paul Boyd **Solvent :** 2% HNO3
Supplier: 02SI
Description: ICP-MS ICSA Master A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Carbon	2000 mg/L	Chloride	10000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Molybdenum	20 mg/L	Phosphorous	1000 mg/L
Potassium	1000 mg/L	Sodium	1000 mg/L
Sulfur	1000 mg/L	Titanium	20 mg/L

Serial ID: UI100219-60 **Opened:** 19-FEB-10 **Amount :** .5 mL
Name: ICPMS High Range Standar **Received:** 19-FEB-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018890
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		

Standard Logbook

Serial ID: UI100219-61 **Opened:** 19-FEB-10 **Amount :** .5 mL
Name: ICPMS High Range Standa **Received:** 19-FEB-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018890
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

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

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: IHG100212-01 **Opened:** 12-FEB-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 12-FEB-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 13-FEB-10 **Solvent :** 1mL HNO3 + Typel H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100212-02 **Opened:** 12-FEB-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 12-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Intermediate **Expires:** 13-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: WHG100212-01a **Opened:** 12-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.2CRA **Received:** 12-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 19-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.
IHG100212-01	Mercury	200 ug/L	20 uL	20 mL	.2 ug/L

Standard Logbook

Serial ID: WHG100212-02 **Opened:** 12-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.5 **Received:** 12-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 19-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.
IHG100212-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Serial ID: WHG100212-03 **Opened:** 12-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL2.0 **Received:** 12-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 19-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.
IHG100212-01	Mercury	200 ug/L	200 uL	20 mL	2 ug/L

Serial ID: WHG100212-04 **Opened:** 12-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL5.0CCV **Received:** 12-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 19-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.
IHG100212-01	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100212-05 **Opened:** 12-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL10.0 **Received:** 12-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 19-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.	Aliquot	Final Vol.	Final Conc.
IHG100212-01	Mercury	200 ug/L	1 mL	20 mL	10 ug/L

Standard Logbook

Serial ID: WHG100212-06 **Opened:** 12-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORK5.0ICV **Received:** 12-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 19-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 2nd Source 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100212-02	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100212-13 **Opened:** 12-FEB-10 **Pipet Id :** Hg1289245
Name: MHGLIQLCSMSSPIKE **Received:** 12-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 19-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: WI100225-42 **Opened:** 25-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1272839
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.
WI100225-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100225-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100225-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100225-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100225-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100225-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100225-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100225-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100225-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100225-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100225-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100225-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100225-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100225-43 **Opened:** 25-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1272839
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.	Aliquot	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: WI100225-44 **Opened:** 25-FEB-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-FEB-10 **Solvent :** 3%HCL and 1 %HNO3-1272839
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L

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: WI100225-45 **Opened:** 25-FEB-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1272839
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: WI100225-46 **Opened:** 25-FEB-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-FEB-10 **Solvent :** 3%HCL AND 1%HNO3-1272839
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L

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: WI100225-47 **Opened:** 25-FEB-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 26-FEB-10 **Solvent :** 3%HCL &1%HNO3-1272839
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.	Aliquot	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: WMS100220-04 **Opened:** 20-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 20-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 21-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.	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

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: WMS100220-04A **Opened:** 20-FEB-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 20-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 21-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.
WMS100220-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100220-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100220-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100220-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100220-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100220-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100220-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100220-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100220-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100220-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100220-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100220-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100220-05 **Opened:** 20-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 20-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 21-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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	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: WMS100220-06 **Opened:** 20-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 20-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 21-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

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: WMS100220-07 **Opened:** 20-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 20-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 21-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.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100220-08 **Opened:** 20-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 20-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 21-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

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
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100220-70 **Opened:** 20-FEB-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 20-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 21-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.
UI100219-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100219-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI100219-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100219-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100219-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100219-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI100219-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI100219-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100221-04 **Opened:** 21-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 21-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 22-FEB-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl-1269792
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
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.	Aliquot	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: WMS100221-04A **Opened:** 21-FEB-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 21-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 22-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100221-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100221-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100221-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100221-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100221-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100221-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100221-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100221-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100221-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100221-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100221-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100221-05 **Opened:** 21-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 21-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 22-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
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

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: WMS100221-06 **Opened:** 21-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 21-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 22-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	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: WMS100221-07 **Opened:** 21-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 21-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 22-FEB-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl - 1269792
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100221-08 **Opened:** 21-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 21-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 22-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
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
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: 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

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

Standard Logbook

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: Hydroxlyamine 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: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 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: 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
Description: 5% Potassium Persulfate
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1215906	B-K2S2O8S-MER	N/A	50 g	1000 mL	N/A

Serial ID: 1264984-C **Opened:** 04-FEB-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 04-FEB-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1265209 **Opened:** 04-FEB-10 **Lot Number :** J02039
Name: I-HCL **Received:** 04-FEB-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 04-FEB-11
Employee: Bryan Davis
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 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

Serial ID: 1272839 **Opened:** 22-FEB-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 12-FEB-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 28-FEB-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Standard Logbook

Serial ID:	1274969	**Opened:**	24-FEB-10	**Lot Number :**	J 04043 L
Name:	I-HNO3	**Received:**	24-FEB-10		
Type:	Reagent/Solvent	**Expires:**	24-FEB-11		
Employee:	Francena Armstrong				
Supplier:	BAKER				
Description:	Nitric Acid CONC.				
Comments:	None				

General Chemistry Analysis

Case Narrative

General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1474

Method/Analysis Information

Product:	**Cyanide, Total**		
Analytical Batch:	947318 and 947321	**Method:**	SW9012A Cyanide and Total
Prep Batch :	947317 and 947319	**Method:**	SSW846 9010B Prep

Sample Analysis
The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
245806001	RE15-10-7954
245806002	RE15-10-7956
245806003	RE15-10-7955
245806004	RE15-10-7953
245806005	RE15-10-7952
245806006	RE15-10-8060
245806007	RE15-10-8058
245806008	RE15-10-8059
1202029252	Method Blank (MB)
1202029253	245797007(RE15-10-7887) Sample Duplicate (DUP)
1202029254	245797008(RE15-10-7881) Sample Duplicate (DUP)
1202029255	245797007(RE15-10-7887) Matrix Spike (MS)
1202029256	245797008(RE15-10-7881) Matrix Spike (MS)
1202029257	245797007(RE15-10-7887) Matrix Spike Duplicate (MSD)
1202029258	245797008(RE15-10-7881) Matrix Spike Duplicate (MSD)
1202029259	Laboratory Control Sample (LCS)
1202029260	Method Blank (MB)
1202029261	245806008(RE15-10-8059) Sample Duplicate (DUP)
1202029262	245783001(RE46-10-11797) Sample Duplicate (DUP)
1202029263	245806008(RE15-10-8059) Matrix Spike (MS)
1202029264	245783001(RE46-10-11797) Matrix Spike (MS)
1202029265	245806008(RE15-10-8059) Matrix Spike Duplicate (MSD)
1202029266	245783001(RE46-10-11797) Matrix Spike Duplicate (MSD)
1202029267	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: 245797007 (RE15-10-7887), 245797008 (RE15-10-7881)- Batch 947318, 245783001 (RE46-10-11797) and 245806008 (RE15-10-8059)- Batch 947321.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The spike duplicate recovery falls outside of the client specified acceptance limits. Since both the spike recovery and the RPD between the spike and spike duplicate fall within acceptance limits, the data is reported. 1202029258 (RE15-10-7881)- Batch 947318.

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. 1202029254 (RE15-10-7881)- Batch 947318, 1202029261 (RE15-10-8059), 1202029262 (RE46-10-11797) and 245806008 (RE15-10-8059)- Batch 947321.

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: 1202029259 (LCS)- Batch 947318 and 1202029267 (LCS)- Batch 947321.

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: 788675 1202029258 (RE15-10-7881)- Batch 947318.

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: Tom Lewis, Jr. **Date:** 22Feb10

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: 10-1474 GEL Work Order: 245806

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 _____

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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 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7954	Project:	LANL01004
Sample ID:	245806001	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	5.84%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	70.8	260	ug/kg	1	AXC2 02/08/10	1541	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7956	Project:	LANL01004
Sample ID:	245806002	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	6.14%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "Dry Weight Corrected"											
Cyanide, Total	U	ND	63.5	234	ug/kg	1	AXC2	02/08/10	1545	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7955	Project:	LANL01004
Sample ID:	245806003	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	18%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	71.5	263	ug/kg	1	AXC2 02/08/10	1546	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7953	Project:	LANL01004
Sample ID:	245806004	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	14.1%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	76.1	280	ug/kg	1	AXC2 02/08/10	1547	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-7952	Project:	LANL01004
Sample ID:	245806005	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	6.69%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	72.9	268	ug/kg	1	AXC2 02/08/10	1548	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-8060	Project:	LANL01004
Sample ID:	245806006	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	14.6%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	75.1	276	ug/kg	1	AXC2 02/08/10	1549	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-8058	Project:	LANL01004
Sample ID:	245806007	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	35.9%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	104	382	ug/kg	1	AXC2 02/08/10	1550	947318	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/05/10	1402	947317

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: February 17, 2010

Client SDG: 10-1474

Client Sample ID:	RE15-10-8059	Project:	LANL01004
Sample ID:	245806008	Client ID:	LANL010
Matrix:	R		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		
Moisture:	7.28%		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "Dry Weight Corrected"										
Cyanide, Total	U	ND	70.5	259	ug/kg	1	AXC2 02/09/10	1318	947321	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/08/10	1427	947319

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 17, 2010
Page 1 of 2

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

Contact: Ms. Joylene Valdez

Workorder: 245806

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Flow Injection Analysis										
Batch 947318										
QC1202029253 245797007 DUP										
Cyanide, Total	U	ND	U	ND	ug/kg	N/A			AXC2	02/08/10 15:21
QC1202029254 245797008 DUP										
Cyanide, Total	J	298	U	ND	ug/kg	200 ^				02/08/10 15:25
QC1202029259 LCS										
Cyanide, Total	67900			72500	ug/kg		107	(32%-157%)		02/08/10 15:16
QC1202029252 MB										
Cyanide, Total			U	250	ug/kg					02/08/10 15:15
QC1202029255 245797007 MS										
Cyanide, Total	7470 U	ND		6230	ug/kg		83.5	(26%-158%)		02/08/10 15:22
QC1202029256 245797008 MS										
Cyanide, Total	7640 J	298		6810	ug/kg		85.2	(26%-158%)		02/08/10 15:25
QC1202029257 245797007 MSD										
Cyanide, Total	7180 U	ND		6060	ug/kg	2.85	84.4	(0%-30%)		02/08/10 15:23
QC1202029258 245797008 MSD										
Cyanide, Total	7360 J	298		5790	ug/kg	16.2	74.7	(0%-30%)		02/08/10 15:26
Batch 947321										
QC1202029261 245806008 DUP										
Cyanide, Total	U	ND	U	ND	ug/kg	N/A			AXC2	02/09/10 13:19
QC1202029262 245783001 DUP										
Cyanide, Total	U	ND	U	ND	ug/kg	N/A				02/09/10 12:50
QC1202029267 LCS										
Cyanide, Total	67900			77800	ug/kg		115	(32%-157%)		02/09/10 12:45
QC1202029260 MB										
Cyanide, Total			U	250	ug/kg					02/09/10 12:44
QC1202029263 245806008 MS										
Cyanide, Total	4650 U	ND		3980	ug/kg		84.7	(26%-158%)		02/09/10 13:20
QC1202029264 245783001 MS										
Cyanide, Total	5730 U	ND		5960	ug/kg		104	(26%-158%)		02/09/10 12:51
QC1202029265 245806008 MSD										
Cyanide, Total	5290 U	ND		4380	ug/kg	9.41	82	(0%-30%)		02/09/10 13:20
QC1202029266 245783001 MSD										
Cyanide, Total	4940 U	ND		4990	ug/kg	17.7	101	(0%-30%)		02/09/10 12:52

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

QC Summary

Workorder: 245806

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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: 17-FEB-2010 11:12

GEL Laboratories LLC

Contract: **LANL01004**

SDG #: **10-1474**

Flow Injection Analysis

Method: SW846 9012A Concentration Units:ug/L

Instrument: Lachat QuickChem FIA+ 8000 Series

Parmname: Cyanide, Total

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	**08-FEB-2010 13:22:34**	**OM_2-8-2010_13-14-40**	**151**	**150**	**101**	**(90%-110%)**	**Yes**
CCV	08-FEB-2010 15:04:19	OM_2-8-2010_13-14-40	104	100	104	(90%-110%)	Yes
CCV	08-FEB-2010 15:16:55	OM_2-8-2010_13-14-40	104	100	104	(90%-110%)	Yes
CCV	08-FEB-2010 15:29:29	OM_2-8-2010_13-14-40	105	100	105	(90%-110%)	Yes
CCV	08-FEB-2010 15:41:58	OM_2-8-2010_13-14-40	105	100	105	(90%-110%)	Yes
CCV	08-FEB-2010 15:54:33	OM_2-8-2010_13-14-40	105	100	105	(90%-110%)	Yes
ICV	**09-FEB-2010 11:00:58**	**OM_2-9-2010_10-50-31**	**154**	**150**	**103**	**(90%-110%)**	**Yes**
CCV	09-FEB-2010 12:33:26	OM_2-9-2010_12-19-29	97.1	100	97.1	(90%-110%)	Yes
CCV	09-FEB-2010 12:45:51	OM_2-9-2010_12-19-29	99.6	100	99.6	(90%-110%)	Yes
CCV	09-FEB-2010 12:58:27	OM_2-9-2010_12-19-29	99.3	100	99.3	(90%-110%)	Yes
CCV	09-FEB-2010 13:10:58	OM_2-9-2010_12-19-29	101	100	101	(90%-110%)	Yes
CCV	09-FEB-2010 13:23:31	OM_2-9-2010_12-19-29	102	100	102	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	**08-FEB-2010 13:24:24**	**OM_2-8-2010_13-14-40**	**-1.45**	**10**	**Yes**
CCB	08-FEB-2010 15:06:09	OM_2-8-2010_13-14-40	-1.82	10	Yes
CCB	08-FEB-2010 15:18:45	OM_2-8-2010_13-14-40	-1.49	10	Yes
CCB	08-FEB-2010 15:31:18	OM_2-8-2010_13-14-40	-1.86	10	Yes
CCB	08-FEB-2010 15:43:48	OM_2-8-2010_13-14-40	-1.82	10	Yes
CCB	08-FEB-2010 15:56:23	OM_2-8-2010_13-14-40	-1.93	10	Yes
ICB	**09-FEB-2010 11:02:49**	**OM_2-9-2010_10-50-31**	**-1.37**	**10**	**Yes**
CCB	09-FEB-2010 12:35:19	OM_2-9-2010_12-19-29	-1.82	10	Yes
CCB	09-FEB-2010 12:47:43	OM_2-9-2010_12-19-29	-1.49	10	Yes
CCB	09-FEB-2010 13:00:17	OM_2-9-2010_12-19-29	-1.36	10	Yes
CCB	09-FEB-2010 13:12:49	OM_2-9-2010_12-19-29	-2.21	10	Yes
CCB	09-FEB-2010 13:25:21	OM_2-9-2010_12-19-29	-1.86	10	Yes

Cyanide, Total

Prep LogBook

Analyst: AXS5 Verified by:_____

Batch: 947317

Lab SOP: GL-GC-E-067 REV# 13

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202029259	URF1200957-01	.25	g
MS	1202029255	URF1184831-02	.025	mL
MS	1202029256	URF1184831-02	.025	mL
MSD	1202029257	URF1184831-02	.025	mL
MSD	1202029258	URF1184831-02	.025	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202029252		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.5 g	25 mL	50	SOIL
LCS	1202029259		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.25 g	25 mL	100	SOIL
SAMPLE	245797007		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.58 g	25 mL	43.10345	SOIL
DUP	1202029253	245797007	SW846 9010B Prep	05-FEB-2010 14:02	>12	0.5 g	25 mL	50	SOIL
MS	1202029255	245797007	SW846 9010B Prep	05-FEB-2010 14:02	>12	0.5 g	25 mL	50	SOIL
MSD	1202029257	245797007	SW846 9010B Prep	05-FEB-2010 14:02	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245797008		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.51 g	25 mL	49.01961	SOIL
DUP	1202029254	245797008	SW846 9010B Prep	05-FEB-2010 14:02	>12	0.53 g	25 mL	47.16981	SOIL
MS	1202029256	245797008	SW846 9010B Prep	05-FEB-2010 14:02	>12	0.52 g	25 mL	48.07692	SOIL
MSD	1202029258	245797008	SW846 9010B Prep	05-FEB-2010 14:02	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245797009		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245797010		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245797011		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	245797012		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245797013		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245797014		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245797015		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245797016		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245797017		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245797018		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245797019		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.56 g	25 mL	44.64286	SOIL
SAMPLE	245806001		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	245806002		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.57 g	25 mL	43.85965	SOIL
SAMPLE	245806003		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.58 g	25 mL	43.10345	SOIL
SAMPLE	245806004		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.52 g	25 mL	48.07692	SOIL
SAMPLE	245806005		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245806006		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245806007		SW846 9010B Prep	05-FEB-2010 14:02	>12	0.51 g	25 mL	49.01961	SOIL

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description
091211-C	25 mL	0.25N Sodium Hydroxide Solution
WCN100205-07	.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

Comments:

Prep LogBook

Analyst: AXS5 Verified by:_____

Batch: 947319

Lab SOP: GL-GC-E-067 REV# 13

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202029267	URF1200957-01	.25	g
MS	1202029263	URF1184831-02	.025	mL
MS	1202029264	URF1184831-02	.025	mL
MSD	1202029265	URF1184831-02	.025	mL
MSD	1202029266	URF1184831-02	.025	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202029260		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.5 g	25 mL	50	SOIL
LCS	1202029267		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.25 g	25 mL	100	SOIL
SAMPLE	245783001		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.5 g	25 mL	50	SOIL
DUP	1202029262	245783001	SW846 9010B Prep	08-FEB-2010 14:27	>12	0.55 g	25 mL	45.45455	SOIL
MS	1202029264	245783001	SW846 9010B Prep	08-FEB-2010 14:27	>12	0.5 g	25 mL	50	SOIL
MSD	1202029266	245783001	SW846 9010B Prep	08-FEB-2010 14:27	>12	0.58 g	25 mL	43.10345	SOIL
SAMPLE	245783002		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245783003		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.58 g	25 mL	43.10345	SOIL
SAMPLE	245783004		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.55 g	25 mL	45.45455	SOIL
SAMPLE	245783005		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.55 g	25 mL	45.45455	SOIL
SAMPLE	245783006		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.51 g	25 mL	49.01961	SOIL
SAMPLE	245783007		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245783008		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245783009		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245783010		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245783011		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245783012		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245783013		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.5 g	25 mL	50	SOIL
SAMPLE	245783014		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.54 g	25 mL	46.2963	SOIL
SAMPLE	245783015		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.58 g	25 mL	43.10345	SOIL
SAMPLE	245783016		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245786001		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.53 g	25 mL	47.16981	SOIL
SAMPLE	245806008		SW846 9010B Prep	08-FEB-2010 14:27	>12	0.52 g	25 mL	48.07692	SOIL
DUP	1202029261	245806008	SW846 9010B Prep	08-FEB-2010 14:27	>12	0.51 g	25 mL	49.01961	SOIL
MS	1202029263	245806008	SW846 9010B Prep	08-FEB-2010 14:27	>12	0.58 g	25 mL	43.10345	SOIL
MSD	1202029265	245806008	SW846 9010B Prep	08-FEB-2010 14:27	>12	0.51 g	25 mL	49.01961	SOIL

Reagent/Solvent Lot ID	Amount	Description

Prep LogBook

			Comments
091211-C	25 mL	0.25N Sodium Hydroxide Solution	
WCN100208-07	.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	2/8/2010 13:15:25	OM_2-8-2010_13-14-40
150 ppb		1	axc2	2/8/2010 13:16:17	OM_2-8-2010_13-14-40
100 ppb		1	axc2	2/8/2010 13:17:10	OM_2-8-2010_13-14-40
50 ppb		1	axc2	2/8/2010 13:18:03	OM_2-8-2010_13-14-40
10 ppb		1	axc2	2/8/2010 13:18:56	OM_2-8-2010_13-14-40
CRDL 5.0 ppb		1	axc2	2/8/2010 13:19:50	OM_2-8-2010_13-14-40
ICAL-00		1	axc2	2/8/2010 13:20:43	OM_2-8-2010_13-14-40
ICV		1	axc2	2/8/2010 13:22:34	OM_2-8-2010_13-14-40
ICB		1	axc2	2/8/2010 13:24:24	OM_2-8-2010_13-14-40
CRDL		1	axc2	2/8/2010 13:26:14	OM_2-8-2010_13-14-40
1202029242*	947315	1	axc2	2/8/2010 13:28:03	OM_2-8-2010_13-14-40
1202029249	947315	25	axc2	2/8/2010 13:28:57	OM_2-8-2010_13-14-40
245682001	947315	1	axc2	2/8/2010 13:29:50	OM_2-8-2010_13-14-40
245682002	947315	1	axc2	2/8/2010 13:30:43	OM_2-8-2010_13-14-40
245682003	947315	1	axc2	2/8/2010 13:31:36	OM_2-8-2010_13-14-40
245682004	947315	1	axc2	2/8/2010 13:32:29	OM_2-8-2010_13-14-40
245682005	947315	1	axc2	2/8/2010 13:33:21	OM_2-8-2010_13-14-40
245682006	947315	1	axc2	2/8/2010 13:34:14	OM_2-8-2010_13-14-40
245682007	947315	1	axc2	2/8/2010 13:35:07	OM_2-8-2010_13-14-40
245682008	947315	1	axc2	2/8/2010 13:35:58	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010 13:36:51	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010 13:38:42	OM_2-8-2010_13-14-40
1202029242	947315	1	axc2	2/8/2010 13:40:30	OM_2-8-2010_13-14-40
245682009	947315	1	axc2	2/8/2010 13:41:23	OM_2-8-2010_13-14-40
245682010	947315	1	axc2	2/8/2010 13:42:15	OM_2-8-2010_13-14-40
245688011	947315	1	axc2	2/8/2010 13:43:06	OM_2-8-2010_13-14-40
1202029243	947315	1	axc2	2/8/2010 13:43:58	OM_2-8-2010_13-14-40
1202029245	947315	1	axc2	2/8/2010 13:44:50	OM_2-8-2010_13-14-40
1202029247	947315	1	axc2	2/8/2010 13:45:44	OM_2-8-2010_13-14-40
245688012	947315	1	axc2	2/8/2010 13:46:37	OM_2-8-2010_13-14-40
1202029244	947315	1	axc2	2/8/2010 13:47:31	OM_2-8-2010_13-14-40
1202029246	947315	1	axc2	2/8/2010 13:48:24	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010 13:49:17	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010 13:51:07	OM_2-8-2010_13-14-40
1202029248	947315	1	axc2	2/8/2010 13:52:56	OM_2-8-2010_13-14-40
245688013	947315	1	axc2	2/8/2010 13:53:50	OM_2-8-2010_13-14-40
245688014	947315	1	axc2	2/8/2010 13:54:42	OM_2-8-2010_13-14-40
245797001	947315	1	axc2	2/8/2010 13:55:35	OM_2-8-2010_13-14-40
245797002	947315	1	axc2	2/8/2010 13:56:27	OM_2-8-2010_13-14-40
245797003	947315	1	axc2	2/8/2010 13:57:20	OM_2-8-2010_13-14-40
245797004	947315	1	axc2	2/8/2010 13:58:12	OM_2-8-2010_13-14-40
245797005	947315	1	axc2	2/8/2010 13:59:04	OM_2-8-2010_13-14-40
245797006	947315	1	axc2	2/8/2010 13:59:57	OM_2-8-2010_13-14-40
1202029230	947312	1	axc2	2/8/2010 14:00:48	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010 14:01:41	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010 14:03:31	OM_2-8-2010_13-14-40
1202029237	947312	25	axc2	2/8/2010 14:05:20	OM_2-8-2010_13-14-40
245612007	947312	1	axc2	2/8/2010 14:06:13	OM_2-8-2010_13-14-40
1202029231	947312	1	axc2	2/8/2010 14:07:07	OM_2-8-2010_13-14-40
1202029233	947312	1	axc2	2/8/2010 14:08:01	OM_2-8-2010_13-14-40
1202029235	947312	1	axc2	2/8/2010 14:08:54	OM_2-8-2010_13-14-40
245612008	947312	1	axc2	2/8/2010 14:09:48	OM_2-8-2010_13-14-40
1202029232	947312	1	axc2	2/8/2010 14:10:41	OM_2-8-2010_13-14-40
1202029234	947312	1	axc2	2/8/2010 14:11:33	OM_2-8-2010_13-14-40
1202029236	947312	1	axc2	2/8/2010 14:12:26	OM_2-8-2010_13-14-40
245612009	947312	1	axc2	2/8/2010 14:13:19	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010 14:14:12	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010 14:16:04	OM_2-8-2010_13-14-40

245612010	947312	1	axc2	2/8/2010	14:17:52	OM_2-8-2010_13-14-40
245612011	947312	1	axc2	2/8/2010	14:18:45	OM_2-8-2010_13-14-40
245612012	947312	1	axc2	2/8/2010	14:19:37	OM_2-8-2010_13-14-40
245612013	947312	1	axc2	2/8/2010	14:20:29	OM_2-8-2010_13-14-40
245612014	947312	1	axc2	2/8/2010	14:21:22	OM_2-8-2010_13-14-40
245612015	947312	1	axc2	2/8/2010	14:22:13	OM_2-8-2010_13-14-40
245612016	947312	1	axc2	2/8/2010	14:23:07	OM_2-8-2010_13-14-40
245688001	947312	1	axc2	2/8/2010	14:24:02	OM_2-8-2010_13-14-40
245688002	947312	1	axc2	2/8/2010	14:24:55	OM_2-8-2010_13-14-40
245688003	947312	1	axc2	2/8/2010	14:25:50	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010	14:26:41	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010	14:28:32	OM_2-8-2010_13-14-40
245688004	947312	1	axc2	2/8/2010	14:30:23	OM_2-8-2010_13-14-40
245688005	947312	1	axc2	2/8/2010	14:31:15	OM_2-8-2010_13-14-40
245688006	947312	1	axc2	2/8/2010	14:32:08	OM_2-8-2010_13-14-40
245688007	947312	1	axc2	2/8/2010	14:33:01	OM_2-8-2010_13-14-40
245688008	947312	1	axc2	2/8/2010	14:33:55	OM_2-8-2010_13-14-40
245688009	947312	1	axc2	2/8/2010	14:34:47	OM_2-8-2010_13-14-40
245688010	947312	1	axc2	2/8/2010	14:35:40	OM_2-8-2010_13-14-40
1202033006	948940	1	axc2	2/8/2010	14:36:34	OM_2-8-2010_13-14-40
1202033013	948940	1	axc2	2/8/2010	14:37:26	OM_2-8-2010_13-14-40
245926001	948940	1	axc2	2/8/2010	14:38:19	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010	14:39:11	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010	14:41:01	OM_2-8-2010_13-14-40
245926002	948940	1	axc2	2/8/2010	14:42:50	OM_2-8-2010_13-14-40
245926003	948940	1	axc2	2/8/2010	14:43:43	OM_2-8-2010_13-14-40
1202033008	948940	1	axc2	2/8/2010	14:44:35	OM_2-8-2010_13-14-40
1202033010	948940	1	axc2	2/8/2010	14:45:29	OM_2-8-2010_13-14-40
1202033012	948940	1	axc2	2/8/2010	14:46:24	OM_2-8-2010_13-14-40
245926004	948940	1	axc2	2/8/2010	14:47:19	OM_2-8-2010_13-14-40
245926005	948940	1	axc2	2/8/2010	14:48:12	OM_2-8-2010_13-14-40
245926006	948940	1	axc2	2/8/2010	14:49:06	OM_2-8-2010_13-14-40
245926007	948940	1	axc2	2/8/2010	14:50:01	OM_2-8-2010_13-14-40
245939001	948940	1	axc2	2/8/2010	14:50:54	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010	14:51:47	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010	14:53:37	OM_2-8-2010_13-14-40
245939002*	948940	1	axc2	2/8/2010	14:55:27	OM_2-8-2010_13-14-40
245953001*	948940	1	axc2	2/8/2010	14:56:21	OM_2-8-2010_13-14-40
245965001*	948940	1	axc2	2/8/2010	14:57:14	OM_2-8-2010_13-14-40
245975001	948940	1	axc2	2/8/2010	14:58:06	OM_2-8-2010_13-14-40
245981001	948940	1	axc2	2/8/2010	14:59:00	OM_2-8-2010_13-14-40
246000001	948940	1	axc2	2/8/2010	14:59:52	OM_2-8-2010_13-14-40
246004001	948940	1	axc2	2/8/2010	15:00:45	OM_2-8-2010_13-14-40
1202033007	948940	1	axc2	2/8/2010	15:01:38	OM_2-8-2010_13-14-40
1202033009	948940	1	axc2	2/8/2010	15:02:32	OM_2-8-2010_13-14-40
1202033011	948940	1	axc2	2/8/2010	15:03:27	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010	15:04:19	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010	15:06:09	OM_2-8-2010_13-14-40
245939002	948940	1	axc2	2/8/2010	15:07:59	OM_2-8-2010_13-14-40
245953001	948940	1	axc2	2/8/2010	15:08:53	OM_2-8-2010_13-14-40
245965001	948940	1	axc2	2/8/2010	15:09:46	OM_2-8-2010_13-14-40
246056001	948940	1	axc2	2/8/2010	15:10:41	OM_2-8-2010_13-14-40
246056002	948940	1	axc2	2/8/2010	15:11:35	OM_2-8-2010_13-14-40
246056003	948940	1	axc2	2/8/2010	15:12:29	OM_2-8-2010_13-14-40
246056004	948940	1	axc2	2/8/2010	15:13:23	OM_2-8-2010_13-14-40
246080001	948940	1	axc2	2/8/2010	15:14:17	OM_2-8-2010_13-14-40
1202029252	947318	1	axc2	2/8/2010	15:15:10	OM_2-8-2010_13-14-40
1202029259	947318	25	axc2	2/8/2010	15:16:03	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010	15:16:55	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010	15:18:45	OM_2-8-2010_13-14-40

245797007	947318	1	axc2	2/8/2010	15:20:34	OM_2-8-2010_13-14-40
1202029253	947318	1	axc2	2/8/2010	15:21:26	OM_2-8-2010_13-14-40
1202029255	947318	1	axc2	2/8/2010	15:22:20	OM_2-8-2010_13-14-40
1202029257	947318	1	axc2	2/8/2010	15:23:14	OM_2-8-2010_13-14-40
245797008	947318	1	axc2	2/8/2010	15:24:08	OM_2-8-2010_13-14-40
1202029254	947318	1	axc2	2/8/2010	15:25:02	OM_2-8-2010_13-14-40
1202029256	947318	1	axc2	2/8/2010	15:25:56	OM_2-8-2010_13-14-40
1202029258	947318	1	axc2	2/8/2010	15:26:50	OM_2-8-2010_13-14-40
245797009	947318	1	axc2	2/8/2010	15:27:43	OM_2-8-2010_13-14-40
245797010	947318	1	axc2	2/8/2010	15:28:36	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010	15:29:29	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010	15:31:18	OM_2-8-2010_13-14-40
245797011	947318	1	axc2	2/8/2010	15:33:08	OM_2-8-2010_13-14-40
245797012	947318	1	axc2	2/8/2010	15:34:00	OM_2-8-2010_13-14-40
245797013	947318	1	axc2	2/8/2010	15:34:53	OM_2-8-2010_13-14-40
245797014	947318	1	axc2	2/8/2010	15:35:46	OM_2-8-2010_13-14-40
245797015	947318	1	axc2	2/8/2010	15:36:38	OM_2-8-2010_13-14-40
245797016	947318	1	axc2	2/8/2010	15:37:31	OM_2-8-2010_13-14-40
245797017	947318	1	axc2	2/8/2010	15:38:23	OM_2-8-2010_13-14-40
245797018	947318	1	axc2	2/8/2010	15:39:17	OM_2-8-2010_13-14-40
245797019	947318	1	axc2	2/8/2010	15:40:11	OM_2-8-2010_13-14-40
245806001	947318	1	axc2	2/8/2010	15:41:06	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010	15:41:58	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010	15:43:48	OM_2-8-2010_13-14-40
245806002	947318	1	axc2	2/8/2010	15:45:38	OM_2-8-2010_13-14-40
245806003	947318	1	axc2	2/8/2010	15:46:33	OM_2-8-2010_13-14-40
245806004	947318	1	axc2	2/8/2010	15:47:26	OM_2-8-2010_13-14-40
245806005	947318	1	axc2	2/8/2010	15:48:19	OM_2-8-2010_13-14-40
245806006	947318	1	axc2	2/8/2010	15:49:13	OM_2-8-2010_13-14-40
245806007	947318	1	axc2	2/8/2010	15:50:06	OM_2-8-2010_13-14-40
1202034313	949504	1	axc2	2/8/2010	15:51:00	OM_2-8-2010_13-14-40
1202034315	949504	250	axc2	2/8/2010	15:51:53	OM_2-8-2010_13-14-40
246078001	949504	1	axc2	2/8/2010	15:52:47	OM_2-8-2010_13-14-40
1202034314	949504	1	axc2	2/8/2010	15:53:40	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010	15:54:33	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010	15:56:23	OM_2-8-2010_13-14-40
246078002	949504	1	axc2	2/8/2010	15:58:12	OM_2-8-2010_13-14-40
246078003	949504	1	axc2	2/8/2010	15:59:05	OM_2-8-2010_13-14-40
246078004	949504	1	axc2	2/8/2010	15:59:58	OM_2-8-2010_13-14-40
CCV		1	axc2	2/8/2010	16:00:51	OM_2-8-2010_13-14-40
CCB		1	axc2	2/8/2010	16:02:41	OM_2-8-2010_13-14-40

Author: axc2 Date : 2/8/2010

Original Run Filename: OM_2-8-2010_13-14-40.OMN created 2/8/2010 13:14:40
Original Run Author's Signature: [axc2]
Current Run Filename: OM_2-8-2010_13-14-40.OMN last modified 2/8/2010 16:03:46
Current Run Author's Signature: [axc2]
Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE Conc. (ug/L)	Area (Vs)	Detection Time	ADF	MDF	Description
WCN100208-01	1	S1	200	8.74	2/8/2010@13:15:25			200 ppb
WCN100208-02	1	S2	150	6.63	2/8/2010@13:16:17			150 ppb
WCN100208-03	1	S3	100	4.52	2/8/2010@13:17:10			100 ppb
WCN100208-04	1	S4	50.0	2.28	2/8/2010@13:18:03			50 ppb
WCN100208-05	1	S5	10.0	0.511	2/8/2010@13:18:56			10 ppb
WCN100208-06	1	S6	5.00	0.321	2/8/2010@13:19:50			CRDL 5.0 ppb
WCN100208-08	1	S7	0.00	0.00906	2/8/2010@13:20:43			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
		Result:	0.99989 > 0.99500					
		Message	Pass					
		Action	Continue					
WCN100208-07	1	S8	151	6.65	2/8/2010@13:22:34			ICV
		Known Conc:	150					
DQM Test: > + Percent Relative Difference								
		Result:	0.6 < 10.0					
		Message	ICV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	0.6 < 10.0					
		Message	ICV Passed					
		Action	Continue					
		Calibration:	Table/Fig. 1					
WCN100208-08	1	S7	-1.45	0.0181	2/8/2010@13:24:24			ICB/CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.45 < 5.01					
		Message	ICB/CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.45 > -5.01					
		Message	ICB/CCB Passed					
		Action	Continue					
WCN100208-06	1	S6	5.53	0.322	2/8/2010@13:26:14			CRDL
		Known Conc:	5.00					
DQM Test: > + Concentration Limit								
		Result:	5.53 < 7.50					
		Message	CRDL Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	5.53 > 2.50					
		Message	CRDL Passed					
		Action	Continue					
1202029242|947315|MB	1	1	441	19.3	2/8/2010@13:28:03			
1202029249||LCS	1	2	26.6	1.24	2/8/2010@13:28:57		25.00	
245682001	1	3	-0.713	0.0500	2/8/2010@13:29:50			
245682002	1	4	-0.651	0.0528	2/8/2010@13:30:43			
245682003	1	5	0.833	0.117	2/8/2010@13:31:36			
245682004	1	6	-1.86	-1.22e-4	2/8/2010@13:32:29			
245682005	1	7	-0.452	0.0614	2/8/2010@13:33:21			
245682006	1	8	-0.944	0.0400	2/8/2010@13:34:14			
245682007	1	9	-1.19	0.0293	2/8/2010@13:35:07			
245682008	1	10	6.00	0.343	2/8/2010@13:35:58			
WCN100208-03	1	S3	105	4.68	2/8/2010@13:36:51			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	5.4 < 10.0					

		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	5.4 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.40	0.0203	2/8/2010@13:38:42			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					
1202029242|947315|MB	1	1	-1.06	0.0348	2/8/2010@13:40:30			
245682009	1	11	-0.822	0.0453	2/8/2010@13:41:23			
245682010	1	12	1.86	0.162	2/8/2010@13:42:15			
245688011	1	13	-0.777	0.0473	2/8/2010@13:43:06			
1202029243||DUP	1	14	-2.01	-0.00640	2/8/2010@13:43:58			
1202029245||MS	1	15	86.6	3.85	2/8/2010@13:44:50			
1202029247||MSD	1	16	78.4	3.50	2/8/2010@13:45:44			
245688012	1	17	0.261	0.0925	2/8/2010@13:46:37			
1202029244||DUP	1	18	0.738	0.113	2/8/2010@13:47:31			
1202029246||MS	1	19	69.2	3.10	2/8/2010@13:48:24			
WCN100208-03	1	S3	105	4.67	2/8/2010@13:49:17			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	5.2 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	5.2 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.92	-0.00263	2/8/2010@13:51:07			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.92 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.92 > -5.00					
		Message	CCB Passed					
		Action	Continue					
1202029248||MSD	1	20	71.4	3.19	2/8/2010@13:52:56			
245688013	1	21	-1.01	0.0373	2/8/2010@13:53:50			
245688014	1	22	0.338	0.0958	2/8/2010@13:54:42			
245797001	1	23	-0.979	0.0385	2/8/2010@13:55:35			
245797002	1	24	-0.863	0.0435	2/8/2010@13:56:27			
245797003	1	25	-0.309	0.0676	2/8/2010@13:57:20			
245797004	1	26	0.938	0.122	2/8/2010@13:58:12			
245797005	1	27	2.23	0.178	2/8/2010@13:59:04			
245797006	1	28	-0.105	0.0766	2/8/2010@13:59:57			
1202029230|947312|MB	1	29	-1.23	0.0277	2/8/2010@14:00:48			
WCN100208-03	1	S3	105	4.66	2/8/2010@14:01:41			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	5.1 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	5.1 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.86	0.00	2/8/2010@14:03:31			CCB
		Known Conc:	0.00					

DQM Test: > + Concentration Limit								
		Result:	-1.86 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.86 > -5.00					
		Message	CCB Passed					
		Action	Continue					
1202029237||LCS	1	30	28.0	1.30	2/8/2010@14:05:20		25.00	
245612007	1	31	-0.913	0.0414	2/8/2010@14:06:13			
1202029231||DUP	1	32	-1.27	0.0256	2/8/2010@14:07:07			
1202029233||MS	1	33	89.8	3.99	2/8/2010@14:08:01			
1202029235||MSD	1	34	85.3	3.80	2/8/2010@14:08:54			
245612008	1	35	-0.535	0.0578	2/8/2010@14:09:48			
1202029232||DUP	1	36	-1.07	0.0347	2/8/2010@14:10:41			
1202029234||MS	1	37	86.4	3.85	2/8/2010@14:11:33			
1202029236||MSD	1	38	84.8	3.78	2/8/2010@14:12:26			
245612009	1	39	-0.656	0.0526	2/8/2010@14:13:19			
WCN100208-03	1	S3	105	4.65	2/8/2010@14:14:12			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	4.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	4.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.95	-0.00373	2/8/2010@14:16:04			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.95 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.95 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245612010	1	40	-0.280	0.0689	2/8/2010@14:17:52			
245612011	1	41	-1.09	0.0336	2/8/2010@14:18:45			
245612012	1	42	-1.19	0.0295	2/8/2010@14:19:37			
245612013	1	43	1.77	0.158	2/8/2010@14:20:29			
245612014	1	44	-0.868	0.0433	2/8/2010@14:21:22			
245612015	1	45	-0.814	0.0457	2/8/2010@14:22:13			
245612016	1	46	-1.07	0.0344	2/8/2010@14:23:07			
245688001	1	47	0.570	0.106	2/8/2010@14:24:02			
245688002	1	48	-0.480	0.0602	2/8/2010@14:24:55			
245688003	1	49	-0.404	0.0635	2/8/2010@14:25:50			
WCN100208-03	1	S3	105	4.64	2/8/2010@14:26:41			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	4.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	4.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.47	0.0172	2/8/2010@14:28:32			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.47 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.47 > -5.00					
		Message	CCB Passed					
		Action	Continue					

245688004	1	50	-0.636	0.0534	2/8/2010@14:30:23			
245688005	1	51	-0.336	0.0665	2/8/2010@14:31:15			
245688006	1	52	1.16	0.131	2/8/2010@14:32:08			
245688007	1	53	-0.543	0.0575	2/8/2010@14:33:01			
245688008	1	54	-1.27	0.0259	2/8/2010@14:33:55			
245688009	1	55	-0.570	0.0563	2/8/2010@14:34:47			
245688010	1	56	-0.384	0.0644	2/8/2010@14:35:40			
1202033006|948940|MB	1	85	-1.45	0.0179	2/8/2010@14:36:34			
1202033013||LCS	1	86	51.4	2.32	2/8/2010@14:37:26			
245926001	1	87	14.3	0.704	2/8/2010@14:38:19			
WCN100208-03	1	S3	105	4.67	2/8/2010@14:39:11			CCV
	Known Conc:		100					
DQM Test: > + Percent Relative Difference								
		Result:	5.4 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	5.4 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.57	0.0127	2/8/2010@14:41:01			CCB
	Known Conc:		0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.57 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.57 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245926002	1	88	13.4	0.665	2/8/2010@14:42:50			
245926003	1	89	1.37	0.141	2/8/2010@14:43:43			
1202033008||DUP	1	90	-1.19	0.0293	2/8/2010@14:44:35			
1202033010||MS	1	91	93.6	4.16	2/8/2010@14:45:29			
1202033012||MSD	1	92	94.0	4.18	2/8/2010@14:46:24			
245926004	1	93	-1.04	0.0356	2/8/2010@14:47:19			
245926005	1	94	-1.86	-1.28e-4	2/8/2010@14:48:12			
245926006	1	95	-1.99	-0.00557	2/8/2010@14:49:06			
245926007	1	96	-1.18	0.0298	2/8/2010@14:50:01			
245939001	1	97	-1.20	0.0290	2/8/2010@14:50:54			
WCN100208-03	1	S3	105	4.66	2/8/2010@14:51:47			CCV
	Known Conc:		100					
DQM Test: > + Percent Relative Difference								
		Result:	5.0 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	5.0 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.83	0.00132	2/8/2010@14:53:37			CCB
	Known Conc:		0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.83 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.83 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245939002	1	98	81.1	3.62	2/8/2010@14:55:27			
245953001	1	99	-11.0	-0.399	2/8/2010@14:56:21			
245965001	1	100	257	11.3	2/8/2010@14:57:14			
245975001	1	101	-1.84	9.46e-4	2/8/2010@14:58:06			
245981001	1	102	-1.72	0.00598	2/8/2010@14:59:00			
246000001	1	103	-1.86	2.83e-4	2/8/2010@14:59:52			
246004001	1	104	-2.03	-0.00731	2/8/2010@15:00:45			
1202033007||DUP	1	105	-1.87	-2.30e-4	2/8/2010@15:01:38			

1202033009||MS	1	106	96.2	4.27	2/8/2010@15:02:32			
1202033011||MSD	1	107	94.3	4.19	2/8/2010@15:03:27			
WCN100208-03	1	S3	104	4.63	2/8/2010@15:04:19			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	4.5 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	4.5 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.82	0.00202	2/8/2010@15:06:09			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.82 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.82 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245939002	1	98	-1.86	1.33e-4	2/8/2010@15:07:59			
245953001	1	99	-1.90	-0.00162	2/8/2010@15:08:53			
245965001	1	100	-1.86	-1.03e-4	2/8/2010@15:09:46			
246056001	1	108	-1.29	0.0251	2/8/2010@15:10:41			
246056002	1	109	-2.00	-0.00595	2/8/2010@15:11:35			
246056003	1	110	-1.42	0.0194	2/8/2010@15:12:29			
246056004	1	111	-2.00	-0.00588	2/8/2010@15:13:23			
246080001	1	112	-1.45	0.0179	2/8/2010@15:14:17			
1202029252|947318|MB	1	57	-1.86	-1.18e-4	2/8/2010@15:15:10			
1202029259||LCS	1	58	29.0	1.35	2/8/2010@15:16:03		25.00	
WCN100208-03	1	S3	104	4.62	2/8/2010@15:16:55			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	4.1 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	4.1 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.49	0.0161	2/8/2010@15:18:45			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.49 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.49 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245797007	1	59	-0.787	0.0468	2/8/2010@15:20:34			
1202029253||DUP	1	60	-0.616	0.0543	2/8/2010@15:21:26			
1202029255||MS	1	61	83.5	3.72	2/8/2010@15:22:20			
1202029257||MSD	1	62	84.4	3.76	2/8/2010@15:23:14			
245797008	1	63	3.82	0.248	2/8/2010@15:24:08			
1202029254||DUP	1	64	1.23	0.135	2/8/2010@15:25:02			
1202029256||MS	1	65	89.1	3.96	2/8/2010@15:25:56			
1202029258||MSD	1	66	78.7	3.51	2/8/2010@15:26:50			
245797009	1	67	-0.647	0.0529	2/8/2010@15:27:43			
245797010	1	68	-0.409	0.0633	2/8/2010@15:28:36			
WCN100208-03	1	S3	105	4.66	2/8/2010@15:29:29			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	5.1 < 10.0					
		Message	CCV Passed					
		Action	Continue					

DQM Test: < - Percent Relative Difference								
		Result:	5.1 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.86	2.47e-4	2/8/2010@15:31:18			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.86 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.86 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245797011	1	69	1.59	0.150	2/8/2010@15:33:08			
245797012	1	70	-0.296	0.0682	2/8/2010@15:34:00			
245797013	1	71	-0.166	0.0739	2/8/2010@15:34:53			
245797014	1	72	5.34	0.314	2/8/2010@15:35:46			
245797015	1	73	0.400	0.0985	2/8/2010@15:36:38			
245797016	1	74	0.789	0.115	2/8/2010@15:37:31			
245797017	1	75	0.157	0.0880	2/8/2010@15:38:23			
245797018	1	76	3.07	0.215	2/8/2010@15:39:17			
245797019	1	77	-0.779	0.0472	2/8/2010@15:40:11			
245806001	1	78	-1.11	0.0326	2/8/2010@15:41:06			
WCN100208-03	1	S3	105	4.65	2/8/2010@15:41:58			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	4.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	4.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.82	0.00186	2/8/2010@15:43:48			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.82 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.82 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245806002	1	79	0.0705	0.0842	2/8/2010@15:45:38			
245806003	1	80	-0.264	0.0696	2/8/2010@15:46:33			
245806004	1	81	-0.767	0.0477	2/8/2010@15:47:26			
245806005	1	82	-0.805	0.0461	2/8/2010@15:48:19			
245806006	1	83	-0.580	0.0559	2/8/2010@15:49:13			
245806007	1	84	0.973	0.124	2/8/2010@15:50:06			
1202034313|949504|MB	1	113	-1.24	0.0270	2/8/2010@15:51:00			
1202034315||LCS	1	114	107	4.74	2/8/2010@15:51:53		250.00	
246078001	1	115	-1.01	0.0370	2/8/2010@15:52:47			
1202034314||DUP	1	116	-1.86	1.40e-4	2/8/2010@15:53:40			
WCN100208-03	1	S3	105	4.67	2/8/2010@15:54:33			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	5.3 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	5.3 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.93	-0.00287	2/8/2010@15:56:23			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.93 < 5.00					

		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.93 > -5.00					
		Message	CCB Passed					
		Action	Continue					
246078002	1	117	-0.783	0.0470	2/8/2010@15:58:12			
246078003	1	118	-1.88	-6.47e-4	2/8/2010@15:59:05			
246078004	1	119	17.8	0.856	2/8/2010@15:59:58			
WCN100208-03	1	S3	105	4.64	2/8/2010@16:00:51			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	4.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	4.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100208-08	1	S7	-1.52	0.0147	2/8/2010@16:02:41			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.52 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.52 > -5.00					
		Message	CCB Passed					
		Action	Continue					

Analyte Properties Table for OM_2-8-2010_13-14-40.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

Author: axc2 Date : 2/8/2010

Channel 1: Current View

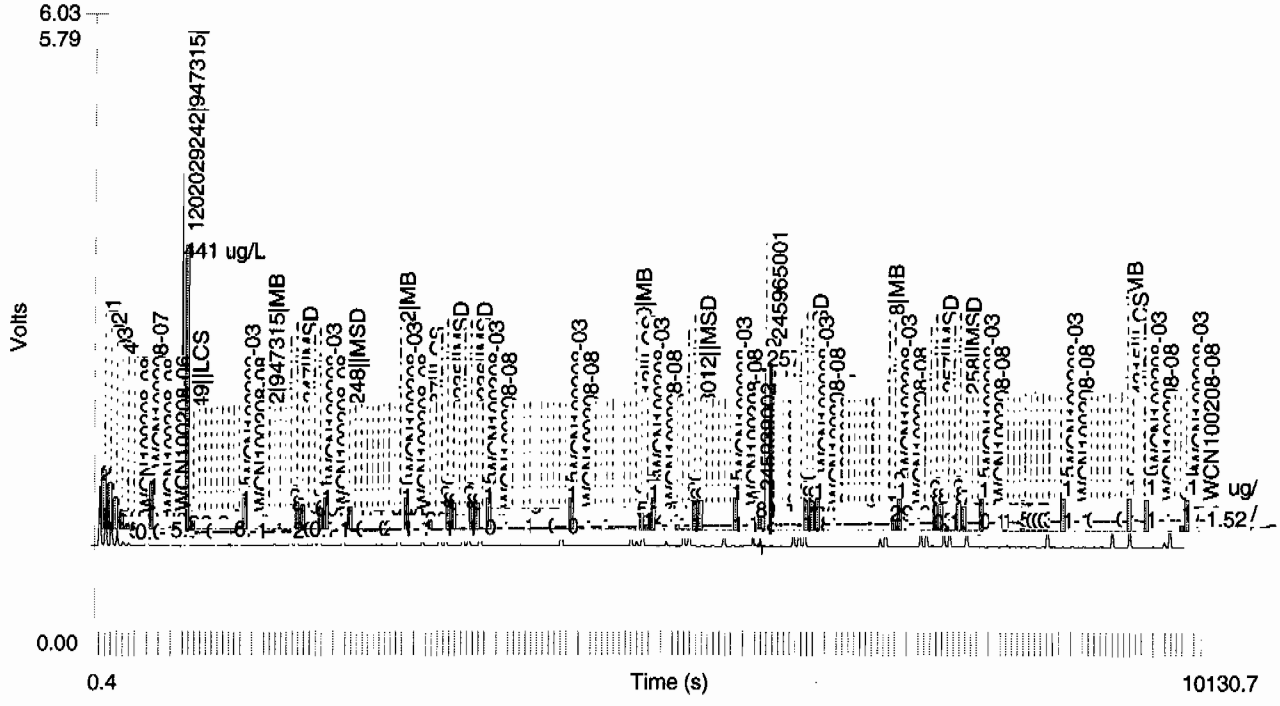
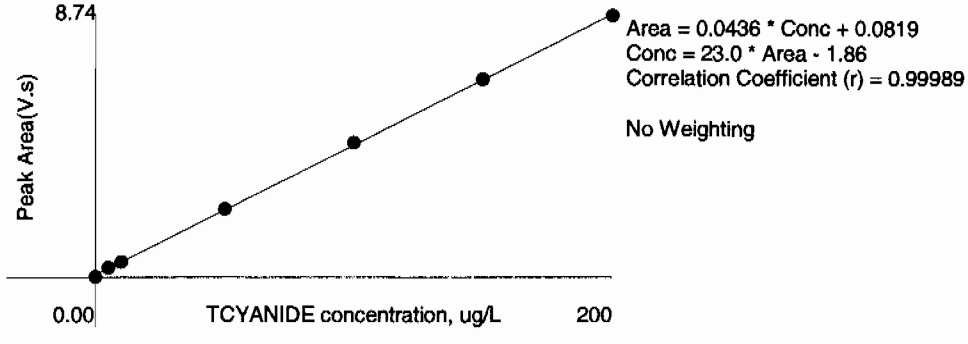


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.74	0.574	0.7	2/8/2010	13:16:28
2	150	1	6.63	0.438	-0.3	2/8/2010	13:17:20
3	100	1	4.52	0.298	-1.8	2/8/2010	13:18:12
4	50.0	1	2.28	0.149	-0.9	2/8/2010	13:19:05
5	10.0	1	0.511	0.0326	1.3	2/8/2010	13:19:59
6	5.00	1	0.321	0.0198	-7.0	2/8/2010	13:20:52
7	0.00	1	0.00906	0.00212		2/8/2010	13:21:47

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	2/9/2010 10:53:49	OM_2-9-2010_10-50-31
150 ppb		1	axc2	2/9/2010 10:54:41	OM_2-9-2010_10-50-31
100 ppb		1	axc2	2/9/2010 10:55:34	OM_2-9-2010_10-50-31
50 ppb		1	axc2	2/9/2010 10:56:26	OM_2-9-2010_10-50-31
10 ppb		1	axc2	2/9/2010 10:57:20	OM_2-9-2010_10-50-31
CRDL 5.0 ppb		1	axc2	2/9/2010 10:58:13	OM_2-9-2010_10-50-31
ICAL-00		1	axc2	2/9/2010 10:59:07	OM_2-9-2010_10-50-31
ICV		1	axc2	2/9/2010 11:00:58	OM_2-9-2010_10-50-31
ICB		1	axc2	2/9/2010 11:02:49	OM_2-9-2010_10-50-31
CRDL		1	axc2	2/9/2010 11:04:39	OM_2-9-2010_10-50-31
1202034331	949513	1	axc2	2/9/2010 11:06:29	OM_2-9-2010_10-50-31
1202034335	949513	25	axc2	2/9/2010 11:07:22	OM_2-9-2010_10-50-31
246070014	949513	1	axc2	2/9/2010 11:08:15	OM_2-9-2010_10-50-31
1202034332	949513	1	axc2	2/9/2010 11:09:08	OM_2-9-2010_10-50-31
1202034333	949513	1	axc2	2/9/2010 11:10:01	OM_2-9-2010_10-50-31
1202034334	949513	1	axc2	2/9/2010 11:10:54	OM_2-9-2010_10-50-31
246070015	949513	1	axc2	2/9/2010 11:11:46	OM_2-9-2010_10-50-31
246070016	949513	1	axc2	2/9/2010 11:12:39	OM_2-9-2010_10-50-31
246070017	949513	1	axc2	2/9/2010 11:13:31	OM_2-9-2010_10-50-31
246070018	949513	1	axc2	2/9/2010 11:14:24	OM_2-9-2010_10-50-31
CCV		1	axc2	2/9/2010 11:15:16	OM_2-9-2010_10-50-31
CCB		1	axc2	2/9/2010 11:17:06	OM_2-9-2010_10-50-31
246070019*	949513	1	axc2	2/9/2010 11:18:54	OM_2-9-2010_10-50-31
246070020*	949513	1	axc2	2/9/2010 11:19:47	OM_2-9-2010_10-50-31
246268001*	949513	1	axc2	2/9/2010 11:20:38	OM_2-9-2010_10-50-31
1202036005*	949513	1	axc2	2/9/2010 11:21:30	OM_2-9-2010_10-50-31
1202036006*	949513	1	axc2	2/9/2010 11:22:22	OM_2-9-2010_10-50-31
1202036007*	949513	1	axc2	2/9/2010 11:23:15	OM_2-9-2010_10-50-31
246268002*	949513	1	axc2	2/9/2010 11:24:09	OM_2-9-2010_10-50-31
246268003*	949513	1	axc2	2/9/2010 11:25:02	OM_2-9-2010_10-50-31
246268004*	949513	1	axc2	2/9/2010 11:25:56	OM_2-9-2010_10-50-31
246268005*	949513	1	axc2	2/9/2010 11:26:49	OM_2-9-2010_10-50-31
CCV		1	axc2	2/9/2010 11:27:42	OM_2-9-2010_10-50-31

Author: axc2

Date : 2/9/2010

Original Run Filename: OM_2-9-2010_10-50-31.OMN created 2/9/2010 10:50:31
Original Run Author's Signature: [axc2]
Current Run Filename: OM_2-9-2010_10-50-31.OMN last modified 2/9/2010 11:28:46
Current Run Author's Signature: [axc2]
Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE Conc. (ug/L)	Area (Vs)	Detection Time	ADF	MDF	Description
WCN100209-01	1	S1	200	8.26	2/9/2010@10:53:49			200 ppb
WCN100209-02	1	S2	150	6.28	2/9/2010@10:54:41			150 ppb
WCN100209-03	1	S3	100	4.33	2/9/2010@10:55:34			100 ppb
WCN100209-04	1	S4	50.0	2.10	2/9/2010@10:56:26			50 ppb
WCN100209-05	1	S5	10.0	0.504	2/9/2010@10:57:20			10 ppb
WCN100209-06	1	S6	5.00	0.320	2/9/2010@10:58:13			CRDL 5.0 ppb
WCN100209-08	1	S7	0.00	-0.00404	2/9/2010@10:59:07			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
		Result:	0.99976 > 0.99500					
		Message	Pass					
		Action	Continue					
WCN100209-07	1	S8	154	6.43	2/9/2010@11:00:58			ICV
		Known Conc:	150					
DQM Test: > + Percent Relative Difference								
		Result:	2.7 < 10.0					
		Message	ICV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	2.7 < 10.0					
		Message	ICV Passed					
		Action	Continue					
		Calibration:	Table/Fig. 1					
WCN100209-08	1	S7	-1.37	0.0203	2/9/2010@11:02:49			ICB/CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.37 < 5.01					
		Message	ICB/CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.37 > -5.01					
		Message	ICB/CCB Passed					
		Action	Continue					
WCN100209-06	1	S6	5.96	0.322	2/9/2010@11:04:39			CRDL
		Known Conc:	5.00					
DQM Test: > + Concentration Limit								
		Result:	5.96 < 7.50					
		Message	CRDL Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	5.96 > 2.50					
		Message	CRDL Passed					
		Action	Continue					
1202034331|949513|MB	1	1	-1.23	0.0261	2/9/2010@11:06:29			
1202034335||LCS	1	2	30.6	1.34	2/9/2010@11:07:22		25.00	
246070014	1	3	-0.400	0.0601	2/9/2010@11:08:15			
1202034332||DUP	1	4	-0.376	0.0611	2/9/2010@11:09:08			
1202034333||MS	1	5	96.8	4.07	2/9/2010@11:10:01			
1202034334||MSD	1	6	97.3	4.09	2/9/2010@11:10:54			
246070015	1	7	-0.290	0.0647	2/9/2010@11:11:46			
246070016	1	8	0.790	0.109	2/9/2010@11:12:39			
246070017	1	9	-0.535	0.0546	2/9/2010@11:13:31			
246070018	1	10	-0.0214	0.0758	2/9/2010@11:14:24			
WCN100209-03	1	S3	109	4.58	2/9/2010@11:15:16			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	9.2 < 10.0					

		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	9.2 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100209-08	1	S7	-1.86	-1.07e-4	2/9/2010@11:17:06			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.86 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.86 > -5.00					
		Message	CCB Passed					
		Action	Continue					
246070019	1	11	-0.737	0.0463	2/9/2010@11:18:54			
246070020	1	12	-0.581	0.0527	2/9/2010@11:19:47			
246268001	1	13	-1.07	0.0324	2/9/2010@11:20:38			
1202036005||DUP	1	14	-0.998	0.0355	2/9/2010@11:21:30			
1202036006||MS	1	15	90.0	3.79	2/9/2010@11:22:22			
1202036007||MSD	1	16	91.5	3.85	2/9/2010@11:23:15			
246268002	1	17	0.467	0.0959	2/9/2010@11:24:09			
246268003	1	18	-0.989	0.0359	2/9/2010@11:25:02			
246268004	1	19	-0.595	0.0521	2/9/2010@11:25:56			
246268005	1	20	-0.856	0.0414	2/9/2010@11:26:49			
WCN100209-03	1	S3	110	4.63	2/9/2010@11:27:42			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	10.4 > 10.0					
		Message	CCV Failed					
		Action	Stop Run					
DQM Test: < - Percent Relative Difference								
		Result:	10.4 > 10.0					
		Message	CCV Passed					
		Action	Continue					

Analyte Properties Table for OM_2-9-2010_10-50-31.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

Author: axc2 Date : 2/9/2010

Channel 1: Current View

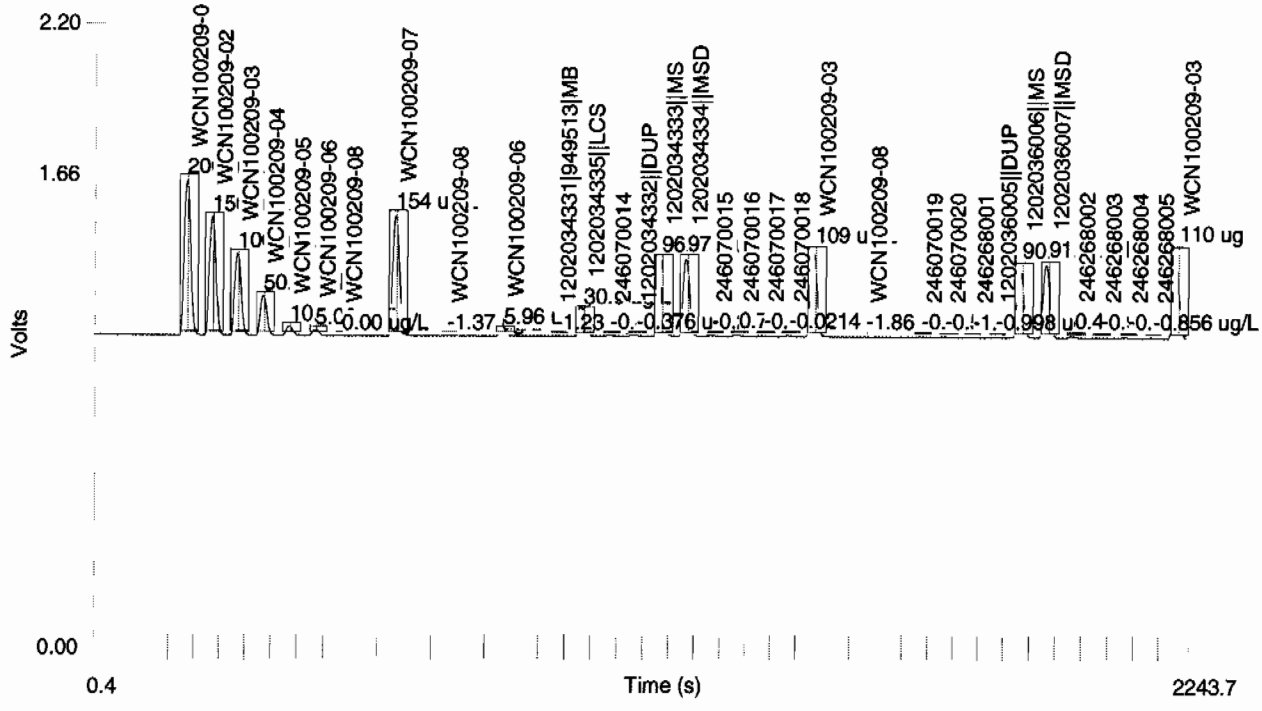
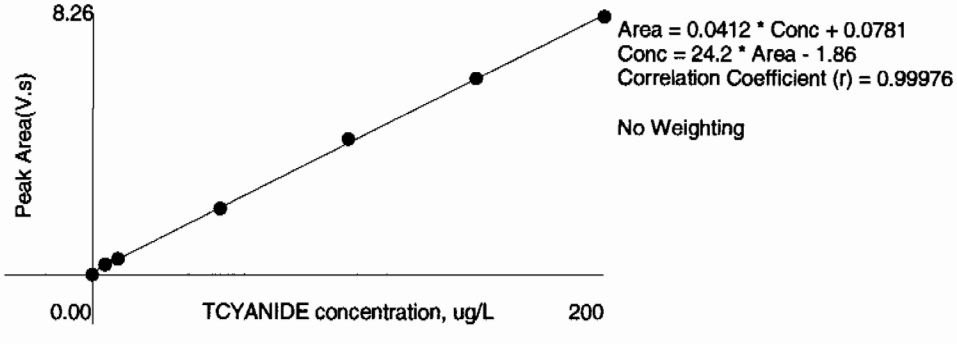


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.26	0.543	0.8	2/9/2010	10:54:52
2	150	1	6.28	0.411	-0.2	2/9/2010	10:55:44
3	100	1	4.33	0.283	-3.0	2/9/2010	10:56:37
4	50.0	1	2.10	0.137	2.0	2/9/2010	10:57:29
5	10.0	1	0.504	0.0318	-2.7	2/9/2010	10:58:23
6	5.00	1	0.320	0.0200	-12.6	2/9/2010	10:59:17
7	0.00	1	-0.00404	-9.71e-4		2/9/2010	11:00:11

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	2/9/2010 12:21:01	OM_2-9-2010_12-19-29
CCB		1	axc2	2/9/2010 12:22:51	OM_2-9-2010_12-19-29
246070019	949513	1	axc2	2/9/2010 12:24:39	OM_2-9-2010_12-19-29
246070020	949513	1	axc2	2/9/2010 12:25:31	OM_2-9-2010_12-19-29
246268001	949513	1	axc2	2/9/2010 12:26:23	OM_2-9-2010_12-19-29
1202036005	949513	1	axc2	2/9/2010 12:27:15	OM_2-9-2010_12-19-29
1202036006	949513	1	axc2	2/9/2010 12:28:07	OM_2-9-2010_12-19-29
1202036007	949513	1	axc2	2/9/2010 12:29:00	OM_2-9-2010_12-19-29
246268002	949513	1	axc2	2/9/2010 12:29:54	OM_2-9-2010_12-19-29
246268003	949513	1	axc2	2/9/2010 12:30:47	OM_2-9-2010_12-19-29
246268004	949513	1	axc2	2/9/2010 12:31:40	OM_2-9-2010_12-19-29
246268005	949513	1	axc2	2/9/2010 12:32:33	OM_2-9-2010_12-19-29
CCV		1	axc2	2/9/2010 12:33:26	OM_2-9-2010_12-19-29
CCB		1	axc2	2/9/2010 12:35:19	OM_2-9-2010_12-19-29
246268006	949513	1	axc2	2/9/2010 12:37:09	OM_2-9-2010_12-19-29
246280001	949513	1	axc2	2/9/2010 12:38:01	OM_2-9-2010_12-19-29
246280002	949513	1	axc2	2/9/2010 12:38:54	OM_2-9-2010_12-19-29
246280003	949513	1	axc2	2/9/2010 12:39:46	OM_2-9-2010_12-19-29
246280004	949513	1	axc2	2/9/2010 12:40:40	OM_2-9-2010_12-19-29
246333001	949513	1	axc2	2/9/2010 12:41:32	OM_2-9-2010_12-19-29
246333002	949513	1	axc2	2/9/2010 12:42:24	OM_2-9-2010_12-19-29
246415001	949513	1	axc2	2/9/2010 12:43:15	OM_2-9-2010_12-19-29
1202029260	947321	1	axc2	2/9/2010 12:44:08	OM_2-9-2010_12-19-29
1202029267	947321	25	axc2	2/9/2010 12:45:00	OM_2-9-2010_12-19-29
CCV		1	axc2	2/9/2010 12:45:51	OM_2-9-2010_12-19-29
CCB		1	axc2	2/9/2010 12:47:43	OM_2-9-2010_12-19-29
245783001	947321	1	axc2	2/9/2010 12:49:34	OM_2-9-2010_12-19-29
1202029262	947321	1	axc2	2/9/2010 12:50:28	OM_2-9-2010_12-19-29
1202029264	947321	1	axc2	2/9/2010 12:51:22	OM_2-9-2010_12-19-29
1202029266	947321	1	axc2	2/9/2010 12:52:15	OM_2-9-2010_12-19-29
245783002	947321	1	axc2	2/9/2010 12:53:08	OM_2-9-2010_12-19-29
245783003	947321	1	axc2	2/9/2010 12:54:01	OM_2-9-2010_12-19-29
245783004	947321	1	axc2	2/9/2010 12:54:55	OM_2-9-2010_12-19-29
245783005	947321	1	axc2	2/9/2010 12:55:48	OM_2-9-2010_12-19-29
245783006	947321	1	axc2	2/9/2010 12:56:42	OM_2-9-2010_12-19-29
245783007	947321	1	axc2	2/9/2010 12:57:34	OM_2-9-2010_12-19-29
CCV		1	axc2	2/9/2010 12:58:27	OM_2-9-2010_12-19-29
CCB		1	axc2	2/9/2010 13:00:17	OM_2-9-2010_12-19-29
245783008	947321	1	axc2	2/9/2010 13:02:08	OM_2-9-2010_12-19-29
245783009	947321	1	axc2	2/9/2010 13:03:00	OM_2-9-2010_12-19-29
245783010	947321	1	axc2	2/9/2010 13:03:53	OM_2-9-2010_12-19-29
245783011	947321	1	axc2	2/9/2010 13:04:44	OM_2-9-2010_12-19-29
245783012*	947321	1	axc2	2/9/2010 13:05:36	OM_2-9-2010_12-19-29
245783013*	947321	1	axc2	2/9/2010 13:06:31	OM_2-9-2010_12-19-29
245783014*	947321	1	axc2	2/9/2010 13:07:25	OM_2-9-2010_12-19-29
245783015*	947321	1	axc2	2/9/2010 13:08:19	OM_2-9-2010_12-19-29
245783016	947321	1	axc2	2/9/2010 13:09:12	OM_2-9-2010_12-19-29
245786001	947321	1	axc2	2/9/2010 13:10:06	OM_2-9-2010_12-19-29
CCV		1	axc2	2/9/2010 13:10:58	OM_2-9-2010_12-19-29
CCB		1	axc2	2/9/2010 13:12:49	OM_2-9-2010_12-19-29
245783012	947321	1	axc2	2/9/2010 13:14:39	OM_2-9-2010_12-19-29
245783013	947321	1	axc2	2/9/2010 13:15:33	OM_2-9-2010_12-19-29
245783014	947321	1	axc2	2/9/2010 13:16:26	OM_2-9-2010_12-19-29
245783015	947321	1	axc2	2/9/2010 13:17:20	OM_2-9-2010_12-19-29
245806008	947321	1	axc2	2/9/2010 13:18:13	OM_2-9-2010_12-19-29
1202029261	947321	1	axc2	2/9/2010 13:19:07	OM_2-9-2010_12-19-29
1202029263	947321	1	axc2	2/9/2010 13:20:00	OM_2-9-2010_12-19-29
1202029265	947321	1	axc2	2/9/2010 13:20:53	OM_2-9-2010_12-19-29

1202036002	950190	1	axc2	2/9/2010	13:21:46	OM_2-9-2010_12-19-29
246415001	950190	1	axc2	2/9/2010	13:22:37	OM_2-9-2010_12-19-29
CCV		1	axc2	2/9/2010	13:23:31	OM_2-9-2010_12-19-29
CCB		1	axc2	2/9/2010	13:25:21	OM_2-9-2010_12-19-29
1202036003	950190	1	axc2	2/9/2010	13:27:11	OM_2-9-2010_12-19-29
1202036004	950190	1	axc2	2/9/2010	13:28:04	OM_2-9-2010_12-19-29
246415001	950190	10	axc2	2/9/2010	13:28:55	OM_2-9-2010_12-19-29
246415001	949513	10	axc2	2/9/2010	13:29:48	OM_2-9-2010_12-19-29
CCV		1	axc2	2/9/2010	13:30:41	OM_2-9-2010_12-19-29
CCB		1	axc2	2/9/2010	13:32:31	OM_2-9-2010_12-19-29

Author: axc2 Date : 2/9/2010

Original Run Filename: OM_2-9-2010_12-19-29.OMN created 2/9/2010 12:19:29
Original Run Author's Signature: [axc2]
Current Run Filename: OM_2-9-2010_12-19-29.OMN last modified 2/9/2010 13:33:37
Current Run Author's Signature: [axc2]
Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE Conc. (ug/L)	Area (Vs)	Detection Time	ADF	MDF	Description
WCN100209-03	1	S3	97.2	4.09	2/9/2010@12:21:01			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	-2.8 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	-2.8 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100209-08	1	S7	-1.03	0.0341	2/9/2010@12:22:51			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.03 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.03 > -5.00					
		Message	CCB Passed					
		Action	Continue					
		Calibration:	Table/Fig. 1					
246070019|949513|	1	11	-0.492	0.0563	2/9/2010@12:24:39			
246070020	1	12	-1.92	-0.00255	2/9/2010@12:25:31			
246268001	1	13	-1.46	0.0165	2/9/2010@12:26:23			
1202036005||DUP	1	14	-0.928	0.0384	2/9/2010@12:27:15			
1202036006||MS	1	15	91.3	3.84	2/9/2010@12:28:07			
1202036007||MSD	1	16	89.5	3.77	2/9/2010@12:29:00			
246268002	1	17	0.633	0.103	2/9/2010@12:29:54			
246268003	1	18	-1.64	0.00906	2/9/2010@12:30:47			
246268004	1	19	-0.611	0.0514	2/9/2010@12:31:40			
246268005	1	20	-0.546	0.0541	2/9/2010@12:32:33			
WCN100209-03	1	S3	97.1	4.08	2/9/2010@12:33:26			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	-2.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	-2.9 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100209-08	1	S7	-1.82	0.00154	2/9/2010@12:35:19			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.82 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.82 > -5.00					
		Message	CCB Passed					
		Action	Continue					
246268006	1	21	-1.09	0.0318	2/9/2010@12:37:09			
246280001	1	22	-1.04	0.0336	2/9/2010@12:38:01			
246280002	1	23	-0.224	0.0674	2/9/2010@12:38:54			
246280003	1	24	-0.529	0.0548	2/9/2010@12:39:46			
246280004	1	25	-1.19	0.0277	2/9/2010@12:40:40			

246333001	1	26	-0.821	0.0428	2/9/2010@12:41:32			
246333002	1	27	-1.06	0.0328	2/9/2010@12:42:24			
246415001	1	28	421	17.4	2/9/2010@12:43:15			
1202029260|947321|MB	1	29	-0.194	0.0686	2/9/2010@12:44:08			
1202029267||LCS	1	30	31.1	1.36	2/9/2010@12:45:00		25.00	
WCN100209-03	1	S3	99.6	4.19	2/9/2010@12:45:51			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					
WCN100209-08	1	S7	-1.49	0.0152	2/9/2010@12:47:43			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.49 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.49 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245783001	1	31	-1.21	0.0266	2/9/2010@12:49:34			
1202029262||DUP	1	32	-0.595	0.0521	2/9/2010@12:50:28			
1202029264||MS	1	33	104	4.35	2/9/2010@12:51:22			
1202029266||MSD	1	34	101	4.25	2/9/2010@12:52:15			
245783002	1	35	-0.122	0.0716	2/9/2010@12:53:08			
245783003	1	36	-0.870	0.0408	2/9/2010@12:54:01			
245783004	1	37	-0.551	0.0539	2/9/2010@12:54:55			
245783005	1	38	-1.12	0.0304	2/9/2010@12:55:48			
245783006	1	39	1.45	0.136	2/9/2010@12:56:42			
245783007	1	40	-0.793	0.0439	2/9/2010@12:57:34			
WCN100209-03	1	S3	99.3	4.17	2/9/2010@12:58:27			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	-0.7 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	-0.7 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100209-08	1	S7	-1.36	0.0206	2/9/2010@13:00:17			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.36 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.36 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245783008	1	41	-1.05	0.0332	2/9/2010@13:02:08			
245783009	1	42	-0.271	0.0655	2/9/2010@13:03:00			
245783010	1	43	-0.884	0.0402	2/9/2010@13:03:53			
245783011	1	44	-1.39	0.0191	2/9/2010@13:04:44			
245783012	1	45	17.9	0.817	2/9/2010@13:05:36			
245783013	1	46	-526	-21.6	2/9/2010@13:06:31			
245783014	1	47	-550	-22.6	2/9/2010@13:07:25			
245783015	1	48	9.69	0.476	2/9/2010@13:08:19			
245783016	1	49	-0.372	0.0613	2/9/2010@13:09:12			
245786001	1	50	-1.14	0.0298	2/9/2010@13:10:06			
WCN100209-03	1	S3	101	4.23	2/9/2010@13:10:58			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								

		Result:	0.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	0.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100209-08	1	S7	-2.21	-0.0143	2/9/2010@13:12:49			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-2.21 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-2.21 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245783012	1	45	-0.912	0.0390	2/9/2010@13:14:39			
245783013	1	46	-0.469	0.0573	2/9/2010@13:15:33			
245783014	1	47	0.111	0.0812	2/9/2010@13:16:26			
245783015	1	48	-0.872	0.0407	2/9/2010@13:17:20			
245806008	1	51	0.862	0.112	2/9/2010@13:18:13			
1202029261||DUP	1	52	-0.0633	0.0740	2/9/2010@13:19:07			
1202029263||MS	1	53	85.7	3.61	2/9/2010@13:20:00			
1202029265||MSD	1	54	82.8	3.49	2/9/2010@13:20:53			
1202036002|950190|MB	1	55	-1.09	0.0318	2/9/2010@13:21:46			
246415001	1	58	312	13.0	2/9/2010@13:22:37			
WCN100209-03	1	S3	102	4.27	2/9/2010@13:23:31			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					
WCN100209-08	1	S7	-1.86	-6.73e-5	2/9/2010@13:25:21			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.86 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.86 > -5.00					
		Message	CCB Passed					
		Action	Continue					
1202036003||LCS	1	56	-0.177	0.0694	2/9/2010@13:27:11			
1202036004||LCSD	1	57	-0.890	0.0399	2/9/2010@13:28:04			
246415001	1	58	32.2	1.41	2/9/2010@13:28:55		10.00	
246415001|949513|	1	28	61.7	2.62	2/9/2010@13:29:48		10.00	
WCN100209-03	1	S3	100	4.22	2/9/2010@13:30:41			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					
WCN100209-08	1	S7	-1.93	-0.00315	2/9/2010@13:32:31			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.93 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								

Author: axc2

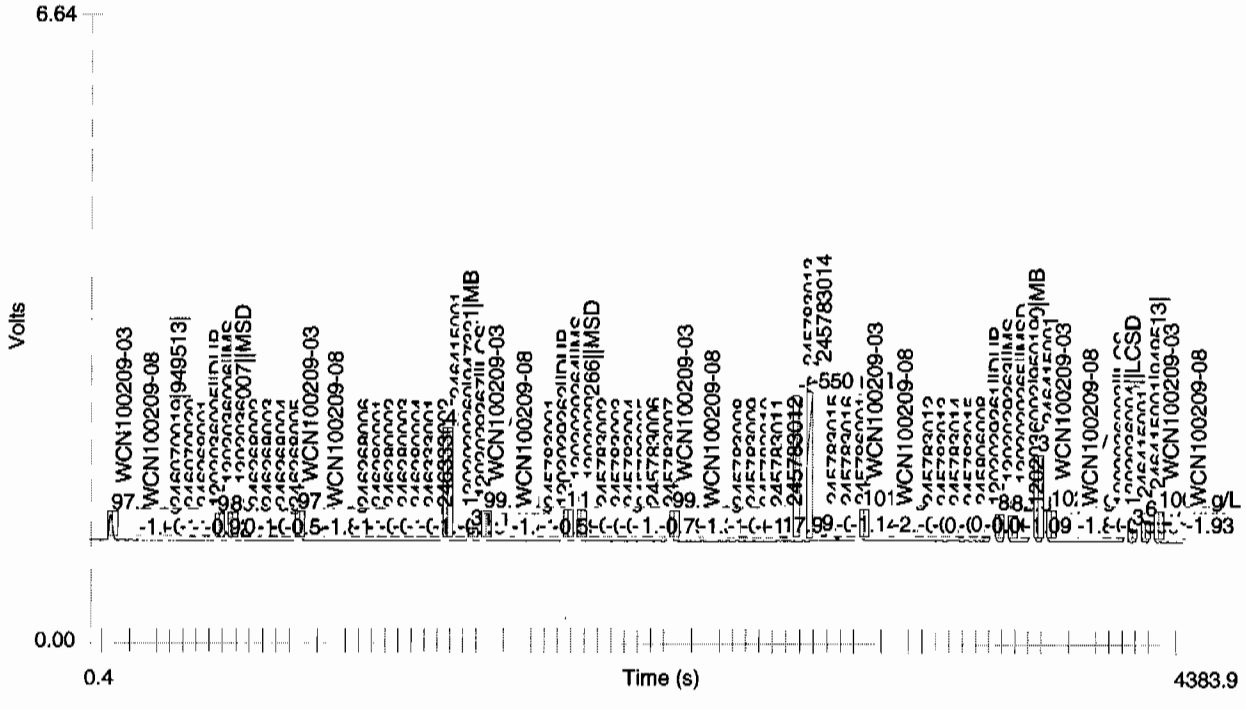
Date : 2/9/2010

Result:	-1.93 > -5.00					
Message	CCB Passed					
Action	Continue					

Analyte Properties Table for OM_2-9-2010_12-19-29.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



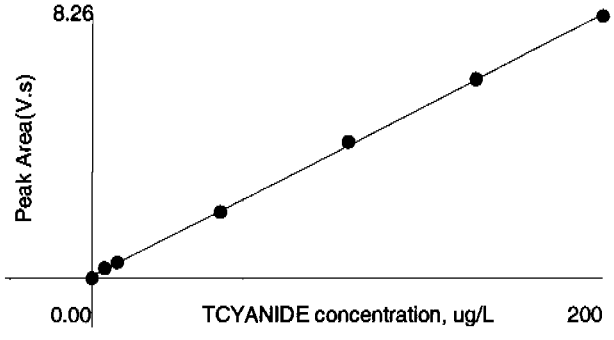
Author: axc2

Date : 2/9/2010

Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.26	0.543	0.8	2/9/2010	10:54:52
2	150	1	6.28	0.411	-0.2	2/9/2010	10:55:44
3	100	1	4.33	0.283	-3.0	2/9/2010	10:56:37
4	50.0	1	2.10	0.137	2.0	2/9/2010	10:57:29
5	10.0	1	0.504	0.0318	-2.7	2/9/2010	10:58:23
6	5.00	1	0.320	0.0200	-12.6	2/9/2010	10:59:17
7	0.00	1	-0.00404	-9.71e-4		2/9/2010	11:00:11

Figure 1: TCYANIDE



Area = 0.0412 * Conc + 0.0781
Conc = 24.2 * Area - 1.86
Correlation Coefficient (r) = 0.99976

No Weighting

Miscellaneous

DATA EXCEPTION REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
09-FEB-10			
Instrument Type:	**Test / Method:** SW846 9012A	**Matrix Type:** Solid	**Client Code:** LANL
Batch ID: 947318	**Sample Numbers:** See Below		

Potentially affected work order(s)(SDG): 245797(10-1471),245806(10-1474)

Application Issues:

Failed Recovery for MSD/PSD

Specification and Requirements Exception Description:	DER Disposition:
1. Failed Recovery for MSD: QC 1202029258MSD	1. The spike duplicate recovery falls outside of the client specified acceptance limits. Since both the spike recovery and the RPD between the spike and spike duplicate fall within acceptance limits, the data is reported(soil sample).

Originator's Name:

Ashley Earl 09-FEB-10

Data Validator/Group Leader:

Elzbieta Szulc 16-FEB-10

General Chemistry Analysis

Case Narrative

General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1474-1

Method/Analysis Information

Product:	**Cyanide, Total**		
Analytical Batch:	947324	**Method:**	SW9012A Cyanide and Total
Prep Batch :	947322	**Method:**	SSW846 9010B Prep

Sample Analysis
The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
245807001	RE15-10-8081
245807002	RE15-10-8082
1202029270	Method Blank (MB)
1202029271	245619001(GW51-10-11855) Sample Duplicate (DUP)
1202029272	245605002(CAMO-10-9315) Sample Duplicate (DUP)
1202029273	245676001(CAWR-10-11786) Sample Duplicate (DUP)
1202029274	245619001(GW51-10-11855) Matrix Spike (MS)
1202029275	245605002(CAMO-10-9315) Matrix Spike (MS)
1202029276	245676001(CAWR-10-11786) Matrix Spike (MS)
1202029277	245619001(GW51-10-11855) Matrix Spike Duplicate (MSD)
1202029278	245605002(CAMO-10-9315) Matrix Spike Duplicate (MSD)
1202029279	245676001(CAWR-10-11786) Matrix Spike Duplicate (MSD)
1202029280	Laboratory Control Sample (LCS)

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

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-095 REV# 12.

Preparation/Analytical Method Verification

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

Calibration Information
The Flow Injection analysis was performed on a Lachat QuickChem FIA+ 8000 Series.

Initial Calibration
All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks
All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)
All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule
The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement
The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery
The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation
The following samples were selected for QC analysis: 245605002 (CAMO-10-9315), 245619001 (GW51-10-11855) and 245676001 (CAWR-10-11786).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement
The values for the sample and duplicate are less than the Practical Quantitation Limit (PQL); therefore, the RPD is not applicable. 1202029271 (GW51-10-11855).

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 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: Tom Lewis, Jr. **Date:** 22Feb10

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: 10-1474-1 GEL Work Order: 245807

The Qualifiers in this report are defined as follows:

* Indicates that a quality control analyte recovery is outside of specified acceptance criteria.

** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by _____

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

Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1474-1

Client Sample ID:	RE15-10-8081	Project:	LANL01004
Sample ID:	245807001	Client ID:	LANL010
Matrix:	W		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "As Received"										
Cyanide, Total	J	2.82	1.66	5.00	ug/L	1	AXC2 02/05/10	1112	947324	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/03/10	1524	947322

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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 9, 2010

Client SDG: 10-1474-1

Client Sample ID:	RE15-10-8082	Project:	LANL01004
Sample ID:	245807002	Client ID:	LANL010
Matrix:	W		
Collect Date:	26-JAN-10 12:00		
Receive Date:	29-JAN-10		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
SW9012A Cyanide, Total "As Received"										
Cyanide, Total	J	2.67	1.66	5.00	ug/L	1	AXC2 02/05/10	1113	947324	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/03/10	1524	947322

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 9, 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: 245807

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Flow Injection Analysis												
Batch 947324												
QC1202029271 245619001 DUP												
Cyanide, Total		J	2.69	J	3.37	ug/L	22.4	^		(+/-5.00)	AXC2	02/05/10 10:48
QC1202029272 245605002 DUP												
Cyanide, Total		J	3.11	J	2.62	ug/L	17.1	^		(+/-5.00)		02/05/10 10:40
QC1202029273 245676001 DUP												
Cyanide, Total		J	3.12	J	2.85	ug/L	9.05	^		(+/-5.00)		02/05/10 10:53
QC1202029280 LCS												
Cyanide, Total	50.0				46.7	ug/L			93.4	(90%-110%)		02/05/10 10:37
QC1202029270 MB												
Cyanide, Total				J	2.49	ug/L						02/05/10 10:36
QC1202029274 245619001 MS												
Cyanide, Total	100	J	2.69		102	ug/L			99.3	(60%-144%)		02/05/10 10:48
QC1202029275 245605002 MS												
Cyanide, Total	100	J	3.11		102	ug/L			98.9	(60%-144%)		02/05/10 10:40
QC1202029276 245676001 MS												
Cyanide, Total	100	J	3.12		101	ug/L			97.9	(60%-144%)		02/05/10 10:54
QC1202029277 245619001 MSD												
Cyanide, Total	100	J	2.69		91.7	ug/L	10.6		89	(0%-20%)		02/05/10 10:49
QC1202029278 245605002 MSD												
Cyanide, Total	100	J	3.11		101	ug/L	0.985		97.9	(0%-20%)		02/05/10 10:41
QC1202029279 245676001 MSD												
Cyanide, Total	100	J	3.12		99.3	ug/L	1.70		96.2	(0%-20%)		02/05/10 10:55

Notes:
RER is calculated at the 95% confidence level (2-sigma).
The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded

QC Summary

Workorder: 245807

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

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: 09-FEB-2010 14:36

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1474-1

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	**05-FEB-2010 10:04:21**	**OM_2-5-2010_09-56-27**	**137**	**150**	**91**	**(90%-110%)**	**Yes**
CCV	05-FEB-2010 10:31:03	OM_2-5-2010_09-56-27	96.7	100	97	(90%-110%)	Yes
CCV	05-FEB-2010 10:43:30	OM_2-5-2010_09-56-27	96.8	100	97	(90%-110%)	Yes
CCV	05-FEB-2010 10:55:59	OM_2-5-2010_09-56-27	96.2	100	96	(90%-110%)	Yes
CCV	05-FEB-2010 11:08:28	OM_2-5-2010_09-56-27	95.3	100	95	(90%-110%)	Yes
CCV	05-FEB-2010 11:20:57	OM_2-5-2010_09-56-27	95.7	100	96	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	**05-FEB-2010 10:06:11**	**OM_2-5-2010_09-56-27**	**0.293**	**10**	**Yes**
CCB	05-FEB-2010 10:32:54	OM_2-5-2010_09-56-27	0.125	10	Yes
CCB	05-FEB-2010 10:45:20	OM_2-5-2010_09-56-27	0.121	10	Yes
CCB	05-FEB-2010 10:57:50	OM_2-5-2010_09-56-27	1.57	10	Yes
CCB	05-FEB-2010 11:10:18	OM_2-5-2010_09-56-27	1.88	10	Yes
CCB	05-FEB-2010 11:22:48	OM_2-5-2010_09-56-27	1.88	10	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID: **947322.0** Verified by: _____

Analyst: Alan Stanley

Method: SW846 9010B Prep EPA 335.3 EPA 335.4

Lab SOP: GL-GC-E-067 REV# 13

Instrument: Sartorius Balance B-007

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202029280	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.0125	mL
MS	1202029274	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MS	1202029275	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MS	1202029276	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202029277	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202029278	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202029279	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202029270 MB	03-FEB-2010 15:24:00	Water	25	25	1	>12
1202029280 LCS	03-FEB-2010 15:24:00	Water	25	25	1	>12
245427008	03-FEB-2010 15:24:00	Water	25	25	1	>12
245605002	03-FEB-2010 15:24:00	Ground Water	25	25	1	>12
1202029272 DUP (245605002)	03-FEB-2010 15:24:00	Ground Water	25	25	1	>12
1202029275 MS (245605002)	03-FEB-2010 15:24:00	Ground Water	25	25	1	>12
1202029278 MSD (245605002)	03-FEB-2010 15:24:00	Ground Water	25	25	1	>12
245619001	03-FEB-2010 15:24:00	Water	25	25	1	>12
1202029271 DUP (245619001)	03-FEB-2010 15:24:00	Water	25	25	1	>12
1202029274 MS (245619001)	03-FEB-2010 15:24:00	Water	25	25	1	>12
1202029277 MSD (245619001)	03-FEB-2010 15:24:00	Water	25	25	1	>12
245673004	03-FEB-2010 15:24:00	Ground Water	25	25	1	>12
245673005	03-FEB-2010 15:24:00	Ground Water	25	25	1	>12
245676001	03-FEB-2010 15:24:00	Surface Water	25	25	1	>12
1202029273 DUP (245676001)	03-FEB-2010 15:24:00	Surface Water	25	25	1	>12
1202029276 MS (245676001)	03-FEB-2010 15:24:00	Surface Water	25	25	1	>12

Prep Logbook

Batch ID: **947322.0** Verified by: _____

Analyst: Alan Stanley

Method: SW846 9010B Prep EPA 335.3 EPA 335.4

Lab SOP: GL-GC-E-067 REV# 13

Instrument: Sartorius Balance B-007

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202029280	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.0125	mL
MS	1202029274	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MS	1202029275	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MS	1202029276	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202029277	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202029278	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202029279	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202029279 MSD (245676001)	03-FEB-2010 15:24:00	Surface Water	25	25	1	>12
245676002	03-FEB-2010 15:24:00	Surface Water	25	25	1	>12
245676005	03-FEB-2010 15:24:00	Surface Water	25	25	1	>12
245681001	03-FEB-2010 15:24:00	Water	25	25	1	>12
245681002	03-FEB-2010 15:24:00	Water	25	25	1	>12
245690001	03-FEB-2010 15:24:00	Water	25	25	1	>12
245690002	03-FEB-2010 15:24:00	Water	25	25	1	>12
245777003	03-FEB-2010 15:24:00	Water	25	25	1	>12
245777006	03-FEB-2010 15:24:00	Water	25	25	1	>12
245791002	03-FEB-2010 15:24:00	Ground Water	25	25	1	>12
245791004	03-FEB-2010 15:24:00	Ground Water	25	25	1	>12
245807001	03-FEB-2010 15:24:00	Water	25	25	1	>12
245807002	03-FEB-2010 15:24:00	Water	25	25	1	>12
245818012	03-FEB-2010 15:24:00	Waste Water	25	25	1	>12
245841001	03-FEB-2010 15:24:00	Surface Water	25	25	1	>12

Reagent/Solvent Lot ID	Description	Amount
091211-C	0.25N Sodium Hydroxide Solution	25 mL
1176724-C	0.8N H3NO3S	1.25 mL

Comments:

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	2/5/2010 9:57:12	OM_2-5-2010_09-56-27
150 ppb		1	axc2	2/5/2010 9:58:04	OM_2-5-2010_09-56-27
100 ppb		1	axc2	2/5/2010 9:58:57	OM_2-5-2010_09-56-27
50 ppb		1	axc2	2/5/2010 9:59:49	OM_2-5-2010_09-56-27
10 ppb		1	axc2	2/5/2010 10:00:43	OM_2-5-2010_09-56-27
CRDL 5.0 ppb		1	axc2	2/5/2010 10:01:37	OM_2-5-2010_09-56-27
ICAL-00		1	axc2	2/5/2010 10:02:31	OM_2-5-2010_09-56-27
ICV		1	axc2	2/5/2010 10:04:21	OM_2-5-2010_09-56-27
ICB		1	axc2	2/5/2010 10:06:11	OM_2-5-2010_09-56-27
CRDL		1	axc2	2/5/2010 10:08:01	OM_2-5-2010_09-56-27
1202024505	945278	1	axc2	2/5/2010 10:09:51	OM_2-5-2010_09-56-27
1202024507	945278	250	axc2	2/5/2010 10:10:44	OM_2-5-2010_09-56-27
245307001	945278	1	axc2	2/5/2010 10:11:37	OM_2-5-2010_09-56-27
1202024506	945278	1	axc2	2/5/2010 10:12:30	OM_2-5-2010_09-56-27
245307002	945278	1	axc2	2/5/2010 10:13:23	OM_2-5-2010_09-56-27
245706001	945278	1	axc2	2/5/2010 10:14:16	OM_2-5-2010_09-56-27
1202030431*	947859	1	axc2	2/5/2010 10:15:09	OM_2-5-2010_09-56-27
1202030435	947859	1	axc2	2/5/2010 10:16:02	OM_2-5-2010_09-56-27
245791005	947859	1	axc2	2/5/2010 10:16:54	OM_2-5-2010_09-56-27
1202030432	947859	1	axc2	2/5/2010 10:17:46	OM_2-5-2010_09-56-27
CCV		1	axc2	2/5/2010 10:18:39	OM_2-5-2010_09-56-27
CCB		1	axc2	2/5/2010 10:20:29	OM_2-5-2010_09-56-27
245706001	945278	10	axc2	2/5/2010 10:22:18	OM_2-5-2010_09-56-27
1202030431	947859	1	axc2	2/5/2010 10:23:11	OM_2-5-2010_09-56-27
1202030433	947859	1	axc2	2/5/2010 10:24:03	OM_2-5-2010_09-56-27
1202030434	947859	1	axc2	2/5/2010 10:24:55	OM_2-5-2010_09-56-27
245791007	947859	1	axc2	2/5/2010 10:25:46	OM_2-5-2010_09-56-27
245818013	947859	1	axc2	2/5/2010 10:26:38	OM_2-5-2010_09-56-27
245893001	947859	1	axc2	2/5/2010 10:27:30	OM_2-5-2010_09-56-27
245900002	947859	1	axc2	2/5/2010 10:28:24	OM_2-5-2010_09-56-27
246007001	947859	1	axc2	2/5/2010 10:29:17	OM_2-5-2010_09-56-27
1202031533	947859	1	axc2	2/5/2010 10:30:10	OM_2-5-2010_09-56-27
CCV		1	axc2	2/5/2010 10:31:03	OM_2-5-2010_09-56-27
CCB		1	axc2	2/5/2010 10:32:54	OM_2-5-2010_09-56-27
1202031534	947859	1	axc2	2/5/2010 10:34:43	OM_2-5-2010_09-56-27
1202031535	947859	1	axc2	2/5/2010 10:35:37	OM_2-5-2010_09-56-27
1202029270	947324	1	axc2	2/5/2010 10:36:30	OM_2-5-2010_09-56-27
1202029280	947324	1	axc2	2/5/2010 10:37:23	OM_2-5-2010_09-56-27
245427008	947324	1	axc2	2/5/2010 10:38:15	OM_2-5-2010_09-56-27
245605002	947324	1	axc2	2/5/2010 10:39:08	OM_2-5-2010_09-56-27
1202029272	947324	1	axc2	2/5/2010 10:40:01	OM_2-5-2010_09-56-27
1202029275	947324	1	axc2	2/5/2010 10:40:53	OM_2-5-2010_09-56-27
1202029278	947324	1	axc2	2/5/2010 10:41:45	OM_2-5-2010_09-56-27
245619001	947324	1	axc2	2/5/2010 10:42:37	OM_2-5-2010_09-56-27
CCV		1	axc2	2/5/2010 10:43:30	OM_2-5-2010_09-56-27
CCB		1	axc2	2/5/2010 10:45:20	OM_2-5-2010_09-56-27
245427008	947324	10	axc2	2/5/2010 10:47:09	OM_2-5-2010_09-56-27
1202029271	947324	1	axc2	2/5/2010 10:48:00	OM_2-5-2010_09-56-27
1202029274	947324	1	axc2	2/5/2010 10:48:53	OM_2-5-2010_09-56-27
1202029277	947324	1	axc2	2/5/2010 10:49:47	OM_2-5-2010_09-56-27
245673004	947324	1	axc2	2/5/2010 10:50:40	OM_2-5-2010_09-56-27
245673005	947324	1	axc2	2/5/2010 10:51:34	OM_2-5-2010_09-56-27
245676001	947324	1	axc2	2/5/2010 10:52:28	OM_2-5-2010_09-56-27
1202029273	947324	1	axc2	2/5/2010 10:53:21	OM_2-5-2010_09-56-27
1202029276	947324	1	axc2	2/5/2010 10:54:14	OM_2-5-2010_09-56-27
1202029279	947324	1	axc2	2/5/2010 10:55:07	OM_2-5-2010_09-56-27
CCV		1	axc2	2/5/2010 10:55:59	OM_2-5-2010_09-56-27
CCB		1	axc2	2/5/2010 10:57:50	OM_2-5-2010_09-56-27

245676002	947324	1	axc2	2/5/2010	10:59:40	OM_2-5-2010_09-56-27
245676005	947324	1	axc2	2/5/2010	11:00:33	OM_2-5-2010_09-56-27
245681001	947324	1	axc2	2/5/2010	11:01:25	OM_2-5-2010_09-56-27
245681002	947324	1	axc2	2/5/2010	11:02:18	OM_2-5-2010_09-56-27
245690001*	947324	1	axc2	2/5/2010	11:03:11	OM_2-5-2010_09-56-27
245690002	947324	1	axc2	2/5/2010	11:04:02	OM_2-5-2010_09-56-27
245777003	947324	1	axc2	2/5/2010	11:04:55	OM_2-5-2010_09-56-27
245777006	947324	1	axc2	2/5/2010	11:05:46	OM_2-5-2010_09-56-27
245791002	947324	1	axc2	2/5/2010	11:06:41	OM_2-5-2010_09-56-27
245791004	947324	1	axc2	2/5/2010	11:07:35	OM_2-5-2010_09-56-27
CCV		1	axc2	2/5/2010	11:08:28	OM_2-5-2010_09-56-27
CCB		1	axc2	2/5/2010	11:10:18	OM_2-5-2010_09-56-27
245690001	947324	1	axc2	2/5/2010	11:12:06	OM_2-5-2010_09-56-27
245807001	947324	1	axc2	2/5/2010	11:12:59	OM_2-5-2010_09-56-27
245807002	947324	1	axc2	2/5/2010	11:13:53	OM_2-5-2010_09-56-27
245818012	947324	1	axc2	2/5/2010	11:14:46	OM_2-5-2010_09-56-27
245841001	947324	1	axc2	2/5/2010	11:15:40	OM_2-5-2010_09-56-27
1202025750	945817	1	axc2	2/5/2010	11:16:34	OM_2-5-2010_09-56-27
1202025757	945817	25	axc2	2/5/2010	11:17:26	OM_2-5-2010_09-56-27
245420011	945817	1	axc2	2/5/2010	11:18:19	OM_2-5-2010_09-56-27
245514013*	945817	1	axc2	2/5/2010	11:19:12	OM_2-5-2010_09-56-27
1202025751	945817	1	axc2	2/5/2010	11:20:04	OM_2-5-2010_09-56-27
CCV		1	axc2	2/5/2010	11:20:57	OM_2-5-2010_09-56-27
CCB		1	axc2	2/5/2010	11:22:48	OM_2-5-2010_09-56-27
245514013	945817	1	axc2	2/5/2010	11:24:36	OM_2-5-2010_09-56-27
1202025753	945817	1	axc2	2/5/2010	11:25:28	OM_2-5-2010_09-56-27
1202025755	945817	1	axc2	2/5/2010	11:26:22	OM_2-5-2010_09-56-27
245514014	945817	1	axc2	2/5/2010	11:27:13	OM_2-5-2010_09-56-27
245514015	945817	1	axc2	2/5/2010	11:28:05	OM_2-5-2010_09-56-27
245514016	945817	1	axc2	2/5/2010	11:28:59	OM_2-5-2010_09-56-27
245514017	945817	1	axc2	2/5/2010	11:29:53	OM_2-5-2010_09-56-27
245514018	945817	1	axc2	2/5/2010	11:30:47	OM_2-5-2010_09-56-27
245514019	945817	1	axc2	2/5/2010	11:31:41	OM_2-5-2010_09-56-27
245514020	945817	1	axc2	2/5/2010	11:32:35	OM_2-5-2010_09-56-27
CCV		1	axc2	2/5/2010	11:33:28	OM_2-5-2010_09-56-27
CCB		1	axc2	2/5/2010	11:35:18	OM_2-5-2010_09-56-27
245515001	945817	1	axc2	2/5/2010	11:37:07	OM_2-5-2010_09-56-27
245515002	945817	1	axc2	2/5/2010	11:38:01	OM_2-5-2010_09-56-27
245521001	945817	1	axc2	2/5/2010	11:38:54	OM_2-5-2010_09-56-27
245612001	945817	1	axc2	2/5/2010	11:39:47	OM_2-5-2010_09-56-27
1202025752*	945817	1	axc2	2/5/2010	11:40:40	OM_2-5-2010_09-56-27
1202025754	945817	1	axc2	2/5/2010	11:41:33	OM_2-5-2010_09-56-27
1202025756	945817	1	axc2	2/5/2010	11:42:25	OM_2-5-2010_09-56-27
245612002	945817	1	axc2	2/5/2010	11:43:18	OM_2-5-2010_09-56-27
245612003	945817	1	axc2	2/5/2010	11:44:10	OM_2-5-2010_09-56-27
245612004	945817	1	axc2	2/5/2010	11:45:03	OM_2-5-2010_09-56-27
CCV		1	axc2	2/5/2010	11:45:55	OM_2-5-2010_09-56-27
CCB		1	axc2	2/5/2010	11:47:46	OM_2-5-2010_09-56-27
1202025752	945817	1	axc2	2/5/2010	11:49:35	OM_2-5-2010_09-56-27
245612005	945817	1	axc2	2/5/2010	11:50:30	OM_2-5-2010_09-56-27
245612006	945817	1	axc2	2/5/2010	11:51:24	OM_2-5-2010_09-56-27
245740001	945817	1	axc2	2/5/2010	11:52:18	OM_2-5-2010_09-56-27
245741001	945817	1	axc2	2/5/2010	11:53:12	OM_2-5-2010_09-56-27
245420011	945817	10	axc2	2/5/2010	11:54:05	OM_2-5-2010_09-56-27
CCV		1	axc2	2/5/2010	11:54:57	OM_2-5-2010_09-56-27
CCB		1	axc2	2/5/2010	11:56:49	OM_2-5-2010_09-56-27

Author: axc2 Date : 2/5/2010

Original Run Filename: OM_2-5-2010_09-56-27.OMN created 2/5/2010 09:56:27
Original Run Author's Signature: [axc2]
Current Run Filename: OM_2-5-2010_09-56-27.OMN last modified 2/5/2010 11:57:54
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 Conc. (ug/L)	Area (Vs)	Detection Time	ADF	MDF	Description
WCN100205-01	1	S1	200	9.56	2/5/2010@09:57:12			200 ppb
WCN100205-02	1	S2	150	7.18	2/5/2010@09:58:04			150 ppb
WCN100205-03	1	S3	100	4.47	2/5/2010@09:58:57			100 ppb
WCN100205-04	1	S4	50.0	2.22	2/5/2010@09:59:49			50 ppb
WCN100205-05	1	S5	10.0	0.464	2/5/2010@10:00:43			10 ppb
WCN100205-06	1	S6	5.00	0.275	2/5/2010@10:01:37			CRDL 5.0 ppb
WCN100205-08	1	S7	0.00	-0.0584	2/5/2010@10:02:31			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
		Result:	0.99944 > 0.99500					
		Message	Pass					
		Action	Continue					
WCN100205-07	1	S8	137	6.46	2/5/2010@10:04:21			ICV
		Known Conc:	150					
DQM Test: > + Percent Relative Difference								
		Result:	-8.9 < 10.0					
		Message	ICV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	-8.9 < 10.0					
		Message	ICV Passed					
		Action	Continue					
		Calibration:	Table/Fig. 1					
WCN100205-08	1	S7	0.293	-0.0613	2/5/2010@10:06:11			ICB/CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	0.293 < 5.01					
		Message	ICB/CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	0.293 > -5.01					
		Message	ICB/CCB Passed					
		Action	Continue					
WCN100205-06	1	S6	7.24	0.271	2/5/2010@10:08:01			CRDL
		Known Conc:	5.00					
DQM Test: > + Concentration Limit								
		Result:	7.24 < 7.50					
		Message	CRDL Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	7.24 > 2.50					
		Message	Pass					
		Action	None					
1202024505|945278|MB	1	1	2.51	0.0446	2/5/2010@10:09:51			
1202024507||LCS	1	2	172	8.13	2/5/2010@10:10:44		250.00	
245307001	1	3	1.97	0.0188	2/5/2010@10:11:37			
1202024506||DUP	1	4	1.58	3.83e-4	2/5/2010@10:12:30			
245307002	1	5	0.859	-0.0342	2/5/2010@10:13:23			
245706001	1	6	418	19.9	2/5/2010@10:14:16			
1202030431|947859|MB	1	7	42.8	1.97	2/5/2010@10:15:09			
1202030435||LCS	1	8	46.0	2.12	2/5/2010@10:16:02			
245791005	1	9	1.63	0.00275	2/5/2010@10:16:54			
1202030432||DUP	1	10	1.58	2.94e-4	2/5/2010@10:17:46			
WCN100205-03	1	S3	96.0	4.52	2/5/2010@10:18:39			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	-4.0 < 10.0					
		Message	CCV Passed					

		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	-4.0 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100205-08	1	S7	0.291	-0.0614	2/5/2010@10:20:29			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	0.291 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	0.291 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245706001|945278|	1	6	39.5	1.81	2/5/2010@10:22:18		10.00	
1202030431|947859|MB	1	7	2.52	0.0452	2/5/2010@10:23:11			
1202030433||MS	1	11	99.9	4.70	2/5/2010@10:24:03			
1202030434||MSD	1	12	78.6	3.68	2/5/2010@10:24:55			
245791007	1	13	1.68	0.00490	2/5/2010@10:25:46			
245818013	1	14	3.49	0.0915	2/5/2010@10:26:38			
245893001	1	15	5.80	0.202	2/5/2010@10:27:30			
245900002	1	16	3.33	0.0842	2/5/2010@10:28:24			
246007001	1	17	1.74	0.00781	2/5/2010@10:29:17			
1202031533||DUP	1	18	1.78	0.00994	2/5/2010@10:30:10			
WCN100205-03	1	S3	96.7	4.55	2/5/2010@10:31:03			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	-3.3 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	-3.3 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100205-08	1	S7	0.125	-0.0693	2/5/2010@10:32:54			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	0.125 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	0.125 > -5.00					
		Message	CCB Passed					
		Action	Continue					
1202031534||MS	1	19	86.8	4.07	2/5/2010@10:34:43			
1202031535||MSD	1	20	97.2	4.57	2/5/2010@10:35:37			
1202029270|947324|MB	1	21	2.49	0.0436	2/5/2010@10:36:30			
1202029280||LCS	1	22	46.7	2.16	2/5/2010@10:37:23			
245427008	1	23	339	16.1	2/5/2010@10:38:15			
245605002	1	24	3.11	0.0735	2/5/2010@10:39:08			
1202029272||DUP	1	25	2.62	0.0502	2/5/2010@10:40:01			
1202029275||MS	1	26	102	4.78	2/5/2010@10:40:53			
1202029278|947324|MSD	1	27	101	4.75	2/5/2010@10:41:45			
245619001	1	28	2.69	0.0533	2/5/2010@10:42:37			
WCN100205-03	1	S3	96.8	4.55	2/5/2010@10:43:30			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	-3.2 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	-3.2 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100205-08	1	S7	0.121	-0.0695	2/5/2010@10:45:20			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								

		Result:	0.121 < 5.00					
		Message	CCB Passed					
		Action	Continue					
			DQM Test: < - Concentration Limit					
		Result:	0.121 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245427008	1	23	28.0	1.26	2/5/2010@10:47:09		10.00	
1202029271||DUP	1	29	3.37	0.0860	2/5/2010@10:48:00			
1202029274||MS	1	30	102	4.80	2/5/2010@10:48:53			
1202029277||MSD	1	31	91.7	4.31	2/5/2010@10:49:47			
245673004	1	32	5.30	0.178	2/5/2010@10:50:40			
245673005	1	33	4.74	0.152	2/5/2010@10:51:34			
245676001	1	34	3.12	0.0738	2/5/2010@10:52:28			
1202029273||DUP	1	35	2.85	0.0609	2/5/2010@10:53:21			
1202029276||MS	1	36	101	4.76	2/5/2010@10:54:14			
1202029279||MSD	1	37	99.3	4.67	2/5/2010@10:55:07			
WCN100205-03	1	S3	96.2	4.52	2/5/2010@10:55:59			CCV
		Known Conc:	100					
			DQM Test: > + Percent Relative Difference					
		Result:	-3.8 < 10.0					
		Message	CCV Passed					
		Action	Continue					
			DQM Test: < - Percent Relative Difference					
		Result:	-3.8 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100205-08	1	S7	1.57	-1.31e-4	2/5/2010@10:57:50			CCB
		Known Conc:	0.00					
			DQM Test: > + Concentration Limit					
		Result:	1.57 < 5.00					
		Message	CCB Passed					
		Action	Continue					
			DQM Test: < - Concentration Limit					
		Result:	1.57 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245676002	1	38	2.93	0.0649	2/5/2010@10:59:40			
245676005	1	39	3.03	0.0698	2/5/2010@11:00:33			
245681001	1	40	2.89	0.0628	2/5/2010@11:01:25			
245681002	1	41	2.79	0.0582	2/5/2010@11:02:18			
245690001	1	42	5.08	0.167	2/5/2010@11:03:11			
245690002	1	43	2.65	0.0517	2/5/2010@11:04:02			
245777003	1	44	3.52	0.0929	2/5/2010@11:04:55			
245777006	1	45	4.92	0.160	2/5/2010@11:05:46			
245791002	1	46	2.86	0.0613	2/5/2010@11:06:41			
245791004	1	47	2.60	0.0491	2/5/2010@11:07:35			
WCN100205-03	1	S3	95.3	4.48	2/5/2010@11:08:28			CCV
		Known Conc:	100					
			DQM Test: > + Percent Relative Difference					
		Result:	-4.7 < 10.0					
		Message	CCV Passed					
		Action	Continue					
			DQM Test: < - Percent Relative Difference					
		Result:	-4.7 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100205-08	1	S7	1.88	0.0145	2/5/2010@11:10:18			CCB
		Known Conc:	0.00					
			DQM Test: > + Concentration Limit					
		Result:	1.88 < 5.00					
		Message	CCB Passed					
		Action	Continue					
			DQM Test: < - Concentration Limit					
		Result:	1.88 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245690001	1	42	2.79	0.0582	2/5/2010@11:12:06			

245807001	1	48	2.82	0.0594	2/5/2010@11:12:59			
245807002	1	49	2.67	0.0526	2/5/2010@11:13:53			
245818012	1	50	7.63	0.290	2/5/2010@11:14:46			
245841001	1	51	3.12	0.0740	2/5/2010@11:15:40			
1202025750|945817|MB	1	52	3.14	0.0749	2/5/2010@11:16:34			
1202025757||LCS	1	53	26.7	1.20	2/5/2010@11:17:26		25.00	
245420011	1	54	624	29.7	2/5/2010@11:18:19			
245514013	1	55	14.7	0.628	2/5/2010@11:19:12			
1202025751||DUP	1	56	4.56	0.143	2/5/2010@11:20:04			
WCN100205-03	1	S3	95.7	4.50	2/5/2010@11:20:57			CCV
	Known Conc:		100					
DQM Test: > + Percent Relative Difference								
	Result:		-4.3 < 10.0					
	Message		CCV Passed					
	Action		Continue					
DQM Test: < - Percent Relative Difference								
	Result:		-4.3 < 10.0					
	Message		CCV Passed					
	Action		Continue					
WCN100205-08	1	S7	1.88	0.0145	2/5/2010@11:22:48			CCB
	Known Conc:		0.00					
DQM Test: > + Concentration Limit								
	Result:		1.88 < 5.00					
	Message		CCB Passed					
	Action		Continue					
DQM Test: < - Concentration Limit								
	Result:		1.88 > -5.00					
	Message		CCB Passed					
	Action		Continue					
245514013	1	55	4.67	0.148	2/5/2010@11:24:36			
1202025753||MS	1	57	85.5	4.01	2/5/2010@11:25:28			
1202025755||MSD	1	58	87.1	4.09	2/5/2010@11:26:22			
245514014	1	59	5.67	0.196	2/5/2010@11:27:13			
245514015	1	60	4.79	0.154	2/5/2010@11:28:05			
245514016	1	61	34.5	1.58	2/5/2010@11:28:59			
245514017	1	62	91.0	4.28	2/5/2010@11:29:53			
245514018	1	63	8.35	0.324	2/5/2010@11:30:47			
245514019	1	64	27.5	1.24	2/5/2010@11:31:41			
245514020	1	65	157	7.41	2/5/2010@11:32:35			
WCN100205-03	1	S3	96.1	4.52	2/5/2010@11:33:28			CCV
	Known Conc:		100					
DQM Test: > + Percent Relative Difference								
	Result:		-3.9 < 10.0					
	Message		CCV Passed					
	Action		Continue					
DQM Test: < - Percent Relative Difference								
	Result:		-3.9 < 10.0					
	Message		CCV Passed					
	Action		Continue					
WCN100205-08	1	S7	1.93	0.0169	2/5/2010@11:35:18			CCB
	Known Conc:		0.00					
DQM Test: > + Concentration Limit								
	Result:		1.93 < 5.00					
	Message		CCB Passed					
	Action		Continue					
DQM Test: < - Concentration Limit								
	Result:		1.93 > -5.00					
	Message		CCB Passed					
	Action		Continue					
245515001	1	66	29.3	1.33	2/5/2010@11:37:07			
245515002	1	67	20.7	0.917	2/5/2010@11:38:01			
245521001	1	68	3.85	0.109	2/5/2010@11:38:54			
245612001	1	69	3.79	0.106	2/5/2010@11:39:47			
1202025752||DUP	1	70	8.08	0.311	2/5/2010@11:40:40			
1202025754||MS	1	71	96.6	4.54	2/5/2010@11:41:33			
1202025756||MSD	1	72	96.1	4.52	2/5/2010@11:42:25			
245612002	1	73	3.95	0.113	2/5/2010@11:43:18			
245612003	1	74	3.75	0.104	2/5/2010@11:44:10			

245612004	1	75	3.52	0.0928	2/5/2010@11:45:03			
WCN100205-03	1	S3	95.8	4.51	2/5/2010@11:45:55			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-4.2 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-4.2 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100205-08	1	S7	1.58	3.12e-4	2/5/2010@11:47:46			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			1.58 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			1.58 > -5.00					
Message			CCB Passed					
Action			Continue					
1202025752||DUP	1	70	4.24	0.127	2/5/2010@11:49:35			
245612005	1	76	4.19	0.125	2/5/2010@11:50:30			
245612006	1	77	3.44	0.0890	2/5/2010@11:51:24			
245740001	1	78	3.91	0.112	2/5/2010@11:52:18			
245741001	1	79	4.26	0.128	2/5/2010@11:53:12			
245420011	1	54	59.7	2.78	2/5/2010@11:54:05		10.00	
WCN100205-03	1	S3	96.1	4.52	2/5/2010@11:54:57			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-3.9 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-3.9 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100205-08	1	S7	1.58	3.24e-4	2/5/2010@11:56:49			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			1.58 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			1.58 > -5.00					
Message			CCB Passed					
Action			Continue					

Analyte Properties Table for OM_2-5-2010_09-56-27.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

Author: axc2 Date : 2/5/2010

Channel 1: Current View

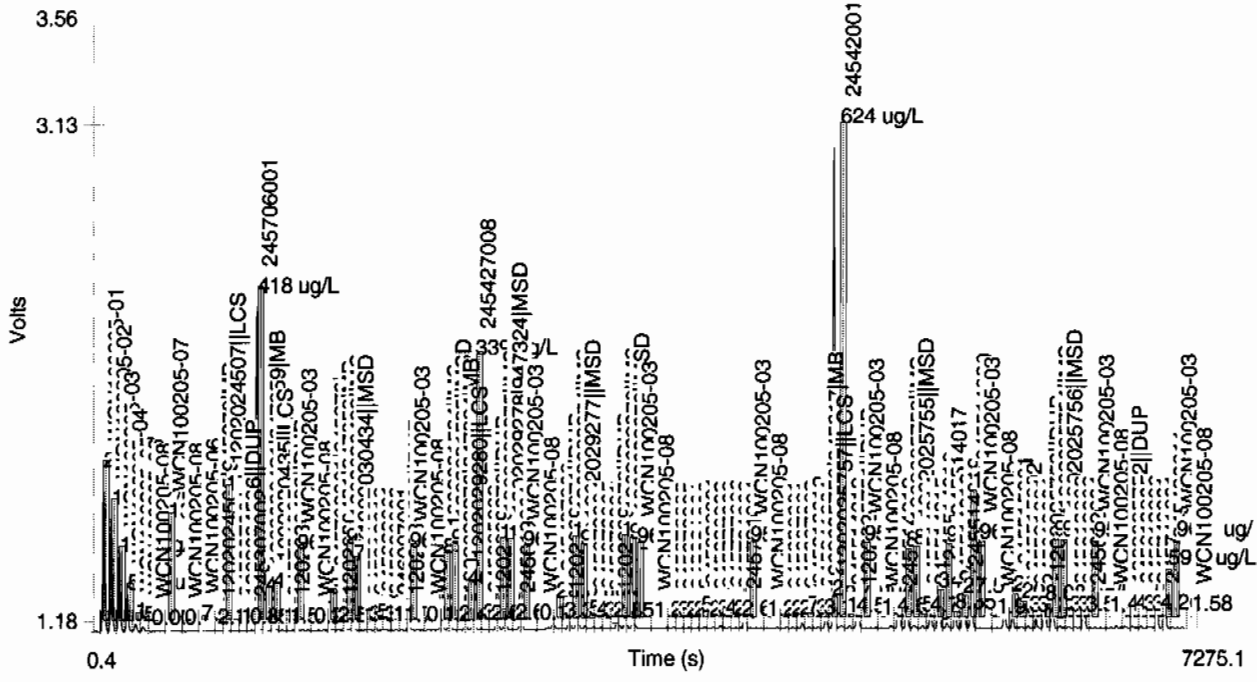


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.56	0.625	-0.8	2/5/2010	09:58:15
2	150	1	7.18	0.475	-1.2	2/5/2010	09:59:07
3	100	1	4.47	0.290	5.1	2/5/2010	09:59:59
4	50.0	1	2.22	0.141	4.3	2/5/2010	10:00:52
5	10.0	1	0.464	0.0293	-14.2	2/5/2010	10:01:46
6	5.00	1	0.275	0.0163	-64.2	2/5/2010	10:02:39
7	0.00	1	-0.0584	-0.00104		2/5/2010	10:03:34

Figure 1: TCYANIDE