

Wednesday, February 10, 2010

LOS ALAMOS
NATIONAL LABORATORY

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

These Samples are on:
LANL Request Number: 10-1759
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/10/2010
TURNAROUND/REPORT DUE: 3/12/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CMTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPAs.300.0		1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
EPAs.353.2		1	RE15-10-8380	W	2/9/2010	

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[illegible]

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REQUEST NUMBER: 10-1759

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:7471A		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
		1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
SW-846:9012A		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
		1	RE15-10-8380	W	2/9/2010	
		1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
SW-846:9045C		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
		1	RE15-10-8380	W	2/9/2010	
		1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	

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Wednesday, February 10, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1759

LOS ALAMOS

REQUEST NUMBER: 10-1759

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/12/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8380	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8380	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE15-10-8380	1	POLY	SW-846:6850	Ice	W
RE15-10-8380	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8366	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8366	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8367	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8367	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8364	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8364	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8365	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8365	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8368	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8368	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8340	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8340	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8341	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8341	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8376	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8376	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8340

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/09/2010		MEDIA: OBT3		27m 2/9/10 ATK SED	
TIME COLLECTED (HH:MM)		0930		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID:	15-610840	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES (NO) NA			
BOREHOLE: YES (NO) NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown moist silty sand, tuff fragments

FTB: RE15-10-8384

FD: RE15-10-8376

SAMPLE COMMENTS:

NA

LOCATION DESC:

9C-14 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha = 11 dpm
Beta/Gamma = 1790 dpm

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

17m 2/9/10

COLLECTED BY (PRINT)

JL McFarland

REVIEWED BY (PRINT)

Riley Evans

RELINQUISHED BY (Printed Name) Larry A Lopez (Signature) Larry A Lopez	Date/Time 02/09/10 14:30	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/9/10 1430
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8341

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/09/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		0958		SUB-MEDIA:	TUFF1		↓
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610840	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	B	ok		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

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

SAMPLE DESC:

Pinkish gray tuff

SAMPLE COMMENTS:

Tuff at 1.0 ft

LOCATION DESC:

9c-14 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpm
Beta/Gamma \leq 2250 dpm

77m 2/9/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Riley Gans

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Larry A Lopez	02/09/10	(Printed Name) Sherrill Greenwood	2/9/10
(Signature) Larry A. Lopez	15:24	(Signature) Sherrill Greenwood	1524
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8364

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/09/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1010		SUB-MEDIA:		TUFF 1	
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610852	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown silty sand, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

9c-15 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 11 dpm
 Beta/Gamma \leq 2210 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ 73m 2/9/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

Riley Gans

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Larry A. Lopez	02/09/10	(Printed Name) Sherry Herwood	2/9/10
(Signature) Larry A. Lopez	15:24	(Signature) Sherry Herwood	1524
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8365

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/09/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1031		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610852			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	1.7		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

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

SAMPLE DESC:

Brown silty sand, Tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

9C-15 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpm
Beta/Gamma \leq 2030 dpm

73m 2/9/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

Riley Evans

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Larry A. Lopez	02/09/10	(Printed Name) Sherri Sherwood	2/9/10
(Signature) Larry A. Lopez	15:24	(Signature) Sherri Sherwood	1524
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8366

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/09/2010	MEDIA:	QBT3	SED
TIME COLLECTED (HH:MM)		1041	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-009(c)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	15-610853	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	SED	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

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

SAMPLE DESC:

moist brown sand, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

qc-16 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

73m 2/9/10

Alpha ≤ 11 dpm

Beta/Gamma ≤ 2030 dpm

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

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

Riley Evans

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Lacey A. Lopez	02/09/10	(Printed Name) Sherrill Greenwood	2/9/10
(Signature) Lacey A. Lopez	15:24	(Signature) Sherrill Greenwood	1524
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8367

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/09/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1050		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-009(c)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610853			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	1.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

moist brown sand, few tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

9c-16 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpm
Beta/Gamma \leq 1949 dpm

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

72m 2/9/10

COLLECTED BY (PRINT)

TLMC Farland

REVIEWED BY (PRINT)

Riley Wang

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) LARRY A. Lopez	02/09/10	(Printed Name) Sherrif Newwood	2/9/10
(Signature) Larry A. Lopez	15:24	(Signature) Sherrif Newwood	15:24
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8368

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/09/2010		MEDIA: QBT3		SED	
TIME COLLECTED (HH:MM)		1113		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610854	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES (NO) / NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES (NO) / NA			
BOREHOLE: YES (NO) / NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown silty sand, tuff fragments, roots

SAMPLE COMMENTS:

NA

FR: RE 15-10-8380

LOCATION DESC:

9c-17 drainage

FIELD SCREENING/MEASUREMENT RESULTS: HE positive

Alpha = 22 dpm
Beta/Gamma = 2170 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ 72m 2/9/10

COLLECTED BY (PRINT)

J. McFarlane

REVIEWED BY (PRINT)

Riley GMS

RELINQUISHED BY (Printed Name) Larry A. Lopez (Signature) Larry A. Lopez	Date/Time 02/09/10 14:30	RECEIVED BY (Printed Name) Sherrif Sherwood (Signature) Sherrif Sherwood	Date/Time 2/9/10 1430
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8376

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/09/2010		MEDIA: QBT3		73m 2/9/10 AHH SED	
TIME COLLECTED (HH:MM)		0930		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	UNK	15-610840		FIELD QC TYPE: FD		↓	
LOCATION TYPE:	GENERIC	ok		FIELD PREP: NA		↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE: QC		↓	
BOTTOM DEPTH:	0	1.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC: QC Sample of RE15-10-8340

Brown moist silty sand, tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

9C-14 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha ≤ 11 dpm

Beta/Gamma ≤ 1790 dpm

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

73m 2/9/10

COLLECTED BY (PRINT)

JLMcFarland

REVIEWED BY (PRINT)

Riley Evans

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Lesley A. Lopez	02/09/10	(Printed Name) Sherrigherwood	2/9/10
(Signature) Lesley A. Lopez	15124	(Signature) Sherrigherwood	1524
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8380

WORK ORDER:

AS PLANNED	AS COLLECTED	AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):	02/09/2010	MEDIA:	NA
TIME COLLECTED (HH:MM)	1210	SUB-MEDIA:	OTHER
PRS ID: 15-009(c)	OK	SAMPLE TECH CODE:	DC
LOCATION ID: UNK	15-910854	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 <input checked="" type="checkbox"/> / NA	
COMPOSITE TYPE: NA	COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES <input checked="" type="checkbox"/> / NA	
BOREHOLE: YES <input checked="" type="checkbox"/> / NA	BOREHOLE DECLINATION: NA	BOREHOLE DIRECTION: NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	METALS+U-GEL	1 LITER POLY	Nitric Acid	Y	
1	↓	NO3NO2	250 ML POLY	Sulfuric Acid (Hydrogen Sulfate)	N	
1	↓	SW-846:6850	250 ML POLY	Ice	Y	
1	↓	TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE 15-10-8368

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TL McFarlane

REVIEWED BY (PRINT)

Riley Evans

RELINQUISHED BY (Printed Name) Larry A. Lopez (Signature) Larry A. Lopez	Date/Time 02/09/10 15:24	RECEIVED BY (Printed Name) Sherrin Sherwood (Signature) Sherrin Sherwood	Date/Time 2/9/10 1524
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2507

EVENT NAME: 4th Qtr. FY09 - SWMU 15-009(c) - Threemile Canyon

SAMPLE ID: RE15-10-8384

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/09/2010		MEDIA:	FILL		ok
TIME COLLECTED (HH:MM)		0913		SUB-MEDIA:	SOIL		
PRS ID:	15-009(c)	ok		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610840		FIELD QC TYPE:	FTB		
LOCATION TYPE:	GENERIC	ok		FIELD PREP:	NA		
TOP DEPTH:	0			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:			NA
FIELD MATRIX:	S			EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: QC Sample of RE15-10-8340

FTB

SAMPLE COMMENTS: NA

LOCATION DESC: NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

JLMcFarland

REVIEWED BY (PRINT)

Riley Evans

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) Henry A Lopez	02/09/10	(Printed Name) Sherrif Sherwood	2/9/10
(Signature) Henry A Lopez	1524	(Signature) Sherrif Sherwood	1524
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):

RE15-10-8368
RE15-10-8340
RE15-10-8376
RE15-10-8341
RE15-10-8364
RE15-10-8366
RE15-10-8365
RE15-10-8367

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):

RE15-10-8380 (FR)
RE15-10-8384 (FTB)

Reason: FR - Field Rinse
FTB - Field Trip Blank

.....
Print Last Name

Lopez

Signature

[Handwritten Signature]

Date

02/09/10

DATA VALIDATION COVER SHEET

5121-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1759 VALIDATION DATE: 03/26/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Peter Steves ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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

1. It should be noted that the parent samples for both the solid and aqueous QC analyses were from other LANL RNs, and parent sample raw data were not included in the data package. No sample data were qualified as a result.

Reviewed by: Monica Dymerski Level I Date: 03/26/10


VALIDATOR'S SIGNATURE: _____

Mr. Peter Steves


DATE: 03/26/10

Form 5121-1, Revision 0.0


LOS ALAMOS
Environmental Restoration Project

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. The Internal Standard (IS) relative retention time has shifted by more than 0.98 to 1.02 seconds.	R, PERC0	J, PERC0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC0b	R, PERC0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The IS are count is <25% of the expected value.	UJ, PERC1a	J, PERC1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The IS area count is <70% but >25% of the average of that obtained from the calibration standards.	UJ, PERC1b	J, PERC1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The IS area count is >130% of the average of that obtained from the calibration standards.	UJ, PERC1c	J, PERC1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC1d	R, PERC1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, PERC4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5X.	N/A	J+, PERC4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, PERC4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC4e	R, PERC4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, PERC7	J, PERC7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.99.	UJ, R, PERC7a	J, PERC7a

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

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

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
5121-2	Records Use only
LC/MS/MS Perchlorate Analytical Data Validation Checklist	 Los Alamos <small>NATIONAL LABORATORY</small> <small>..... 851.2542</small>

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

Form 1

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 259703
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE15-10-8380
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759
 GEL Sample ID: 246871001
 Date Filtered: 02-MAR-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	03-MAR-10 03:44	per0302061a
	Perchlorate Isotope Ratio						1	03-MAR-10 03:44	per0302061a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	03-MAR-10 03:44	per0302061a
	Perchlorate-O(18)			0.485	ug/L		1	03-MAR-10 03:44	per0302061a

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8366
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872001
 Date Filtered: 24-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	02-MAR-10 01:04	per0301087a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:04	per0301087a
14797-73-0	Perchlorate-101	.61	2.44	0.610	ug/kg	U	1	02-MAR-10 01:04	per0301087a
	Perchlorate-O(18)			5.73	ug/kg		1	02-MAR-10 01:04	per0301087a

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

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

P.S. 3/26/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8367
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872002
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 % Solids: 81

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.62	2.48	0.620	ug/kg	U	1	02-MAR-10 01:13	per0301088a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:13	per0301088a
14797-73-0	Perchlorate-101	.62	2.48	0.620	ug/kg	U	1	02-MAR-10 01:13	per0301088a
	Perchlorate-O(18)			6.15	ug/kg		1	02-MAR-10 01:13	per0301088a

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC Client Sample No. RE15-10-8364

Lab Code: GEL Date Received: 11-FEB-10

Instrument: LCMSMS GEL Job No (SDG): 10-1759-1

Method: SW846 6850 Modified GEL Sample ID: 246872003

Matrix: SOIL Date Filtered: 24-FEB-10

Extraction Batch ID: 253004 Injection Volume (uL): 20

Extraction Type: Solid Prep %Solids: 77

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.651	2.6	0.651	ug/kg	U	1	02-MAR-10 01:21	per0301089a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:21	per0301089a
14797-73-0	Perchlorate-101	.651	2.6	0.651	ug/kg	U	1	02-MAR-10 01:21	per0301089a
	Perchlorate-O(18)			6.63	ug/kg		1	02-MAR-10 01:21	per0301089a

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

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

P.S. 3/26/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8365
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872004
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 83

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.602	2.41	0.602	ug/kg	U	1	02-MAR-10 01:30	per0301090a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:30	per0301090a
14797-73-0	Perchlorate-101	.602	2.41	0.602	ug/kg	U	1	02-MAR-10 01:30	per0301090a
	Perchlorate-O(18)			5.91	ug/kg		1	02-MAR-10 01:30	per0301090a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X ¹ %Solids
 Aliquot

P.S. 3/26/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8368
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872005
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 % Solids: 75

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.663	2.65	0.663	ug/kg	U	1	02-MAR-10 01:38	per0301091a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:38	per0301091a
14797-73-0	Perchlorate-101	.663	2.65	0.663	ug/kg	U	1	02-MAR-10 01:38	per0301091a
	Perchlorate-O(18)			6.42	ug/kg		1	02-MAR-10 01:38	per0301091a

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

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

P.S. 3/26/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 253004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8340
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872006
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 76

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 01:47	per0301092a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:47	per0301092a
14797-73-0	Perchlorate-101	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 01:47	per0301092a
	Perchlorate-O(18)			6.48	ug/kg		1	02-MAR-10 01:47	per0301092a

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

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

P.S. 3/26/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8341
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872007
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 92.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	541	2.16	0.541	ug/kg	U	1	02-MAR-10 02:21	per0301096a
	Perchlorate Isotope Ratio						1	02-MAR-10 02:21	per0301096a
14797-73-0	Perchlorate-101	541	2.16	0.541	ug/kg	U	1	02-MAR-10 02:21	per0301096a
	Perchlorate-O(18)			4.90	ug/kg		1	02-MAR-10 02:21	per0301096a

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

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

P.S. 3/26/10

Form 1

Perchlorate Analysis Data Sheet


Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 253004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8376
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872008
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 76

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 02:30	per0301097a
	Perchlorate Isotope Ratio						1	02-MAR-10 02:30	per0301097a
14797-73-0	Perchlorate-101	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 02:30	per0301097a
	Perchlorate-O(18)			6.11	ug/kg		1	02-MAR-10 02:30	per0301097a

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

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

P.S. 3/26/10

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

Section I.		
REQUEST NUMBER: <u>10-1759</u>	VALIDATION DATE: <u>03/26/10</u>	LAB CODE: <u>GEL</u>
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>		
VALIDATOR: <u>Peter Steves</u> ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>		
ANALYTICAL SUITE (CHECK ALL THAT APPLY):		
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS
<input type="checkbox"/> TPH-DRO	<input checked="" type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES
		<input type="checkbox"/> LCMSMS PERCHLORATES
		<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> OTHER (DESCRIBE): _____		

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

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

- In the solid MB, Fe and Pb were detected. The associated Pb sample results were detects >5X but ≤50X the MB concentration and, thus, were qualified J,I4a. The associated Fe sample results were detects >50X and, thus, were not qualified, based on professional judgment. In the aqueous MB, Na and Mg were detected. The associated sample results were detects ≤5X the MB concentration and, thus, were qualified U,I4.
- In the aqueous ICB/CCBs, Zn, Tl, Mg and K were detected. The associated Zn and Tl sample results were NDs and, thus, were not qualified. The associated Mg and K sample results were detects ≤5X the greatest associated blank concentration and, thus, were qualified U,I4b. In the solid ICB/CCBs, Sb and Zn were detected. The associated Sb sample results were NDs and, thus, were not qualified. The associated Zn sample results were detects >5X the greatest associated blank concentration and, thus, were not qualified.
- In the FR blank, sample RE15-10-8380, which was associated with all samples, Ca, Cu and Mn were detected. The associated Cu result for sample -8376 was a detect ≤5X the greatest associated blank concentration and, thus, was qualified U,I4d. The remaining associated sample results were detects >5X the greatest associated blank concentration and, thus, were not qualified.
- The solid MS %Rs were > the laboratory UAL for Al, Ba and Ca. The associated sample results were detects and, thus, were qualified J+,I6b. Also, the solid MS %R was > the laboratory UAL for Fe and the solid MS %R was < the laboratory LAL but ≥10% for Mn. However, the associated parent sample concentrations were >4X the spike concentrations. Thus, the associated sample results were not qualified, based on professional judgment.
- It should be noted all aqueous and the solid Hg matrix QC analyses were performed on a LANL samples from other RNs, and aqueous ICP-MS and ICP-AES parent sample raw data were not included in the data package. No sample

DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only



data were qualified as a result.

Reviewed by: Monica Dymerski **Level:** I **Date:** 03/26/10


VALIDATOR'S SIGNATURE:


Mr. Peter Stoves


DATE: 03/26/10

Form 5118-1, Revision 0.0


LOS ALAMOS
Environmental Restoration Project

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


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

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

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

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

Yes No N/A (Check One)			Assign Qualifier Listed Below If Criterion = Yes	Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the LCS information is present, do not Reject. Qualify data based on the LCS information.	R, I6c	R, I6c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The sample and the duplicate sample results were $\geq 5X$ the RL and the duplicate RPD was $>20\%$ for water samples and $>35\%$ for soil samples.	UJ, I10a	J, I10a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was $<10\%$. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recover was $<$ the LAL but $>10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I12a	J-, I12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was $>$ the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not Reject If MS/MSD information is present. Qualify according to MS/MSD criteria.	R, I12c	R, I12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The quantitating IS area count is $<10\%$ for metals window in relation to the initial calibration blank. Follow the method-specific windows.	R, I1a	J, I1a

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

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

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246871001

BASIS: As Received

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8380

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7440-70-2	Calcium	76.6	ug/L	J	50	200	200	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-50-8	Copper	4.7	ug/L	J	3	10	10	1	P	HSC	03/10/10 11:17	030910-2	952949
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/10/10 11:17	030910-2	952949
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	03/07/10 09:55	100306-3	952951
7439-95-4	Magnesium U,14	153	ug/L	J	85	300	300	1	P	HSC	03/10/10 11:17	030910-2	952949
7439-96-5	Manganese	1.42	ug/L	J	1	5	5	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXLJ	02/25/10 11:50	022510W1-9	956996
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-09-7	Potassium U,14b	229	ug/L		50	150	150	1	P	HSC	03/10/10 11:17	030910-2	952949
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-23-5	Sodium U,14	247	ug/L	J	100	300	300	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	03/07/10 10:30	100306-8	952951
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/05/10 04:15	030410-1	952949

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952949	952948	SW846 3005A	50	mL	50	mL	02/22/10	AXG2
952951	952950	SW846 3005A	50	mL	50	mL	02/22/10	AXG2
956996	956994	SW846 7470A Prep	20	mL	20	mL	02/24/10	TXB3

P.S. 3/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872001

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8366

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,I6b	1970000	ug/Kg	N	7900	23200	23200	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-36-0	Antimony	1160	ug/Kg	U	383	1160	1160	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-38-2	Arsenic	1.01	mg/kg	J	0.235	1.17	1.17	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-39-3	Barium J+,I6b	31600	ug/Kg	*N	116	582	582	1	P	HSC	03/04/10 20:11	030410-2	960016
7440-41-7	Beryllium	0.431	mg/kg		0.0235	0.117	0.117	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-43-9	Cadmium	237	ug/Kg	J	116	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-70-2	Calcium J+,I6b	549000	ug/Kg	N	9290	29000	29000	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-47-3	Chromium	1730	ug/Kg		174	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-48-4	Cobalt	1410	ug/Kg		174	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-50-8	Copper	3570	ug/Kg		349	1160	1160	1	P	HSC	03/04/10 20:11	030410-2	960016
7439-89-6	Iron	6850000	ug/Kg		9290	29000	29000	1	P	HSC	02/26/10 10:02	022610D-1	952953
7439-92-1	Lead J,I4a	7190	ug/Kg		290	1160	1160	1	P	HSC	02/26/10 10:02	022610D-1	952953
7439-95-4	Magnesium	378000	ug/Kg		9870	34800	34800	1	P	HSC	02/26/10 10:02	022610D-1	952953
7439-96-5	Manganese	265000	ug/Kg	*	232	1160	1160	1	P	HSC	02/26/10 10:02	022610D-1	952953
7439-97-6	Mercury	12.7	ug/kg	U	4.33	12.7	12.7	1	AV	JXL1	03/01/10 10:13	030110S1-12	958331
7440-02-0	Nickel	2.61	mg/kg		0.117	0.47	0.47	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-09-7	Potassium	342000	ug/Kg	N	7430	29000	29000	1	P	HSC	02/26/10 10:02	022610D-1	952953
7782-49-2	Selenium	1.17	mg/kg	U	0.587	1.17	1.17	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-22-4	Silver	211	ug/Kg	J	116	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-23-5	Sodium	37500	ug/Kg		8130	29000	29000	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-28-0	Thallium	0.235	mg/kg	U	0.0705	0.235	0.235	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-61-1	Uranium	4.11	mg/kg		0.0155	0.047	0.047	2	MS	BAJ	03/09/10 10:21	100308-11	952955
7440-62-2	Vanadium	5810	ug/Kg		116	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-66-6	Zinc	39100	ug/Kg	*	384	1160	1160	1	P	HSC	03/04/10 20:11	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.525	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.519	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.575	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.524	g	50	mL	03/03/10	AXG2

P.S. 3/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872002

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8367

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 81

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	1500000	ug/Kg	N	8430	24800	24800	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-36-0	Antimony	1240	ug/Kg	U	409	1240	1240	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-38-2	Arsenic	0.550	mg/kg	J	0.247	1.24	1.24	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-39-3	Barium J+,16b	30900	ug/Kg	*N	117	586	586	1	P	HSC	03/04/10 20:59	030410-2	960016
7440-41-7	Beryllium	0.269	mg/kg		0.0247	0.124	0.124	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-43-9	Cadmium	195	ug/Kg	J	124	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-70-2	Calcium J+,16b	515000	ug/Kg	N	9910	31000	31000	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-47-3	Chromium	2660	ug/Kg		186	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-48-4	Cobalt	616	ug/Kg	J	186	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-50-8	Copper	3660	ug/Kg		351	1170	1170	1	P	HSC	03/04/10 20:59	030410-2	960016
7439-89-6	Iron	5070000	ug/Kg		9910	31000	31000	1	P	HSC	02/26/10 10:28	022610D-1	952953
7439-92-1	Lead J,14a	6280	ug/Kg		310	1240	1240	1	P	HSC	02/26/10 10:28	022610D-1	952953
7439-95-4	Magnesium	295000	ug/Kg		10500	37200	37200	1	P	HSC	02/26/10 10:28	022610D-1	952953
7439-96-5	Manganese	125000	ug/Kg	*	248	1240	1240	1	P	HSC	02/26/10 10:28	022610D-1	952953
7439-97-6	Mercury	6.13	ug/kg	J	4.58	13.5	13.5	1	AV	JXL1	03/01/10 10:14	030110S1-12	958331
7440-02-0	Nickel	1.54	mg/kg		0.124	0.495	0.495	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-09-7	Potassium	260000	ug/Kg	N	7930	31000	31000	1	P	HSC	02/26/10 10:28	022610D-1	952953
7782-49-2	Selenium	1.24	mg/kg	U	0.618	1.24	1.24	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-22-4	Silver	138	ug/Kg	J	124	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-23-5	Sodium	36700	ug/Kg		8670	31000	31000	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-28-0	Thallium	0.247	mg/kg	U	0.0742	0.247	0.247	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-61-1	Uranium	2.83	mg/kg		0.0163	0.0495	0.0495	2	MS	BAJ	03/09/10 10:32	100308-11	952955
7440-62-2	Vanadium	4130	ug/Kg		124	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-66-6	Zinc	25100	ug/Kg	*	387	1170	1170	1	P	HSC	03/04/10 20:59	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.5	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.501	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.552	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.529	g	50	mL	03/03/10	AXG2

P.S. 3/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872003

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8364

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 77

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	3440000	ug/Kg	N	8480	25000	25000	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-36-0	Antimony	1250	ug/Kg	U	412	1250	1250	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-38-2	Arsenic	1.14	mg/kg	J	0.248	1.24	1.24	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-39-3	Barium J+,16b	37200	ug/Kg	*N	125	625	625	1	P	HSC	03/04/10 21:06	030410-2	960016
7440-41-7	Beryllium	0.513	mg/kg		0.0248	0.124	0.124	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-43-9	Cadmium	280	ug/Kg	J	125	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-70-2	Calcium J+,16b	981000	ug/Kg	N	9980	31200	31200	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-47-3	Chromium	8080	ug/Kg		187	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-48-4	Cobalt	2330	ug/Kg		187	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-50-8	Copper	3740	ug/Kg		375	1250	1250	1	P	HSC	03/04/10 21:06	030410-2	960016
7439-89-6	Iron	6990000	ug/Kg		9980	31200	31200	1	P	HSC	02/26/10 10:31	022610D-1	952953
7439-92-1	Lead J,14a	9420	ug/Kg		312	1250	1250	1	P	HSC	02/26/10 10:31	022610D-1	952953
7439-95-4	Magnesium	599000	ug/Kg		10600	37400	37400	1	P	HSC	02/26/10 10:31	022610D-1	952953
7439-96-5	Manganese	334000	ug/Kg	*	250	1250	1250	1	P	HSC	02/26/10 10:31	022610D-1	952953
7439-97-6	Mercury	13.8	ug/kg	J	5.05	14.9	14.9	1	AV	JXL1	03/01/10 10:16	030110S1-12	958331
7440-02-0	Nickel	3.34	mg/kg		0.124	0.496	0.496	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-09-7	Potassium	590000	ug/Kg	N	7980	31200	31200	1	P	HSC	02/26/10 10:31	022610D-1	952953
7782-49-2	Selenium	1.24	mg/kg	U	0.62	1.24	1.24	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-22-4	Silver	171	ug/Kg	J	125	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-23-5	Sodium	43000	ug/Kg		8730	31200	31200	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-28-0	Thallium	0.248	mg/kg	U	0.0744	0.248	0.248	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-61-1	Uranium	4.29	mg/kg		0.0164	0.0496	0.0496	2	MS	BAJ	03/09/10 10:34	100308-11	952955
7440-62-2	Vanadium	7950	ug/Kg		125	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-66-6	Zinc	26300	ug/Kg	*	412	1250	1250	1	P	HSC	03/04/10 21:06	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.522	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.525	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.526	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.521	g	50	mL	03/03/10	AXG2

P.S. 3/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872004

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8365

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 83

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	1780000	ug/Kg	N	8070	23700	23700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-36-0	Antimony	1190	ug/Kg	U	392	1190	1190	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-38-2	Arsenic	1.22	mg/kg		0.233	1.17	1.17	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-39-3	Barium J+,16b	33500	ug/Kg	*N	114	572	572	1	P	HSC	03/04/10 21:13	030410-2	960016
7440-41-7	Beryllium	0.528	mg/kg		0.0233	0.117	0.117	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-43-9	Cadmium	209	ug/Kg	J	119	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-70-2	Calcium J+,16b	746000	ug/Kg	N	9500	29700	29700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-47-3	Chromium	12600	ug/Kg		178	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-48-4	Cobalt	1210	ug/Kg		178	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-50-8	Copper	5870	ug/Kg		343	1140	1140	1	P	HSC	03/04/10 21:13	030410-2	960016
7439-89-6	Iron	6350000	ug/Kg		9500	29700	29700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7439-92-1	Lead J,14a	6320	ug/Kg		297	1190	1190	1	P	HSC	02/26/10 10:35	022610D-1	952953
7439-95-4	Magnesium	363000	ug/Kg		10100	35600	35600	1	P	HSC	02/26/10 10:35	022610D-1	952953
7439-96-5	Manganese	283000	ug/Kg	*	237	1190	1190	1	P	HSC	02/26/10 10:35	022610D-1	952953
7439-97-6	Mercury	13.7	ug/kg	U	4.65	13.7	13.7	1	AV	JXL	03/01/10 10:18	030110S1-12	958331
7440-02-0	Nickel	2.81	mg/kg		0.117	0.467	0.467	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-09-7	Potassium	341000	ug/Kg	N	7600	29700	29700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7782-49-2	Selenium	1.17	mg/kg	U	0.583	1.17	1.17	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-22-4	Silver	152	ug/Kg	J	119	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-23-5	Sodium	58600	ug/Kg		8310	29700	29700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-28-0	Thallium	0.233	mg/kg	U	0.07	0.233	0.233	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-61-1	Uranium	3.55	mg/kg		0.0154	0.0467	0.0467	2	MS	BAJ	03/09/10 10:36	100308-11	952955
7440-62-2	Vanadium	4320	ug/Kg		119	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-66-6	Zinc	40400	ug/Kg	*	378	1140	1140	1	P	HSC	03/04/10 21:13	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol	Units	Final wt/vol	Units	Date	Analyst
952953	952952	SW846 3050B	0.507	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.516	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.528	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.526	g	50	mL	03/03/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872005

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8368

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	3430000	ug/Kg	N	8700	25600	25600	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-36-0	Antimony	1280	ug/Kg	U	422	1280	1280	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-38-2	Arsenic	1.46	mg/kg		0.257	1.29	1.29	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-39-3	Barium J+,16b	42600	ug/Kg	*N	132	661	661	1	P	HSC	03/04/10 21:20	030410-2	960016
7440-41-7	Beryllium	0.613	mg/kg		0.0257	0.129	0.129	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-43-9	Cadmium	324	ug/Kg	J	128	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-70-2	Calcium J+,16b	1380000	ug/Kg	N	10200	32000	32000	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-47-3	Chromium	13000	ug/Kg		192	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-48-4	Cobalt	1780	ug/Kg		192	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-50-8	Copper	5350	ug/Kg		397	1320	1320	1	P	HSC	03/04/10 21:20	030410-2	960016
7439-89-6	Iron	8320000	ug/Kg		10200	32000	32000	1	P	HSC	02/26/10 10:39	022610D-1	952953
7439-92-1	Lead J,14a	8680	ug/Kg		320	1280	1280	1	P	HSC	02/26/10 10:39	022610D-1	952953
7439-95-4	Magnesium	685000	ug/Kg		10900	38400	38400	1	P	HSC	02/26/10 10:39	022610D-1	952953
7439-96-5	Manganese	257000	ug/Kg	*	256	1280	1280	1	P	HSC	02/26/10 10:39	022610D-1	952953
7439-97-6	Mercury	9.04	ug/kg	J	5.12	15.1	15.1	1	AV	JXL1	03/01/10 10:23	030110S1-12	958331
7440-02-0	Nickel	4.36	mg/kg		0.129	0.515	0.515	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-09-7	Potassium	595000	ug/Kg	N	8190	32000	32000	1	P	HSC	02/26/10 10:39	022610D-1	952953
7782-49-2	Selenium	1.29	mg/kg	U	0.643	1.29	1.29	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-22-4	Silver	272	ug/Kg	J	128	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-23-5	Sodium	59600	ug/Kg		8960	32000	32000	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-28-0	Thallium	0.257	mg/kg	U	0.0772	0.257	0.257	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-61-1	Uranium	8.8	mg/kg		0.017	0.0515	0.0515	2	MS	BAJ	03/09/10 10:37	100308-11	952955
7440-62-2	Vanadium	8950	ug/Kg		128	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-66-6	Zinc	36700	ug/Kg	*	437	1320	1320	1	P	HSC	03/04/10 21:20	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.518	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.515	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.528	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.501	g	50	mL	03/03/10	AXG2

P.S. 3/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872006

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8340

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 76

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+, I6b	3950000	ug/Kg	N	8640	25400	25400	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-36-0	Antimony	1270	ug/Kg	U	419	1270	1270	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-38-2	Arsenic	1.07	mg/kg	J	0.26	1.3	1.3	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-39-3	Barium J+, I6b	41800	ug/Kg	*N	125	624	624	1	P	HSC	03/04/10 21:27	030410-2	960016
7440-41-7	Beryllium	1.12	mg/kg		0.026	0.13	0.13	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-43-9	Cadmium	255	ug/Kg	J	127	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-70-2	Calcium J+, I6b	1150000	ug/Kg	N	10200	31800	31800	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-47-3	Chromium	15700	ug/Kg		191	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-48-4	Cobalt	732	ug/Kg		191	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-50-8	Copper	3580	ug/Kg		375	1250	1250	1	P	HSC	03/04/10 21:27	030410-2	960016
7439-89-6	Iron	7080000	ug/Kg		10200	31800	31800	1	P	HSC	02/26/10 10:42	022610D-1	952953
7439-92-1	Lead J, I4a	6200	ug/Kg		318	1270	1270	1	P	HSC	02/26/10 10:42	022610D-1	952953
7439-95-4	Magnesium	483000	ug/Kg		10800	38100	38100	1	P	HSC	02/26/10 10:42	022610D-1	952953
7439-96-5	Manganese	349000	ug/Kg	*	254	1270	1270	1	P	HSC	02/26/10 10:42	022610D-1	952953
7439-97-6	Mercury	8.68	ug/kg	J	4.84	14.2	14.2	1	AV	JXL1	03/01/10 10:24	030110S1-12	958331
7440-02-0	Nickel	2.88	mg/kg		0.13	0.519	0.519	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-09-7	Potassium	430000	ug/Kg	N	8130	31800	31800	1	P	HSC	02/26/10 10:42	022610D-1	952953
7782-49-2	Selenium	1.3	mg/kg	U	0.649	1.3	1.3	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-22-4	Silver	635	ug/Kg	U	127	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-23-5	Sodium	62700	ug/Kg		8890	31800	31800	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-28-0	Thallium	0.260	mg/kg	U	0.0779	0.26	0.26	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-61-1	Uranium	0.770	mg/kg		0.0171	0.0519	0.0519	2	MS	BAJ	03/09/10 10:39	100308-11	952955
7440-62-2	Vanadium	4640	ug/Kg		127	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-66-6	Zinc	42300	ug/Kg	*	412	1250	1250	1	P	HSC	03/04/10 21:27	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.519	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.508	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.556	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.528	g	50	mL	03/03/10	AXG2

P.S. 3/26/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872007

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8341

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 92.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	3460000	ug/Kg	N	7050	20700	20700	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-36-0	Antimony	1040	ug/Kg	U	342	1040	1040	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-38-2	Arsenic	0.889	mg/kg	J	0.215	1.07	1.07	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-39-3	Barium J+,16b	21000	ug/Kg	*N	105	523	523	1	P	HSC	03/04/10 21:34	030410-2	960016
7440-41-7	Beryllium	0.981	mg/kg		0.0215	0.107	0.107	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-43-9	Cadmium	218	ug/Kg	J	104	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-70-2	Calcium J+,16b	434000	ug/Kg	N	8290	25900	25900	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-47-3	Chromium	14200	ug/Kg		155	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-48-4	Cobalt	614	ug/Kg		155	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-50-8	Copper	2590	ug/Kg		314	1050	1050	1	P	HSC	03/04/10 21:34	030410-2	960016
7439-89-6	Iron	7330000	ug/Kg		8290	25900	25900	1	P	HSC	02/26/10 10:46	022610D-1	952953
7439-92-1	Lead J,14a	5500	ug/Kg		259	1040	1040	1	P	HSC	02/26/10 10:46	022610D-1	952953
7439-95-4	Magnesium	310000	ug/Kg		8810	31100	31100	1	P	HSC	02/26/10 10:46	022610D-1	952953
7439-96-5	Manganese	349000	ug/Kg	*	207	1040	1040	1	P	HSC	02/26/10 10:46	022610D-1	952953
7439-97-6	Mercury	5.76	ug/kg	J	4.35	12.8	12.8	1	AV	JXL1	03/01/10 10:26	030110S1-12	958331
7440-02-0	Nickel	2.37	mg/kg		0.107	0.429	0.429	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-09-7	Potassium	285000	ug/Kg	N	6630	25900	25900	1	P	HSC	02/26/10 10:46	022610D-1	952953
7782-49-2	Selenium	1.07	mg/kg	U	0.537	1.07	1.07	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-22-4	Silver	159	ug/Kg	J	104	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-23-5	Sodium	70700	ug/Kg		7250	25900	25900	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-28-0	Thallium	0.215	mg/kg	U	0.0644	0.215	0.215	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-61-1	Uranium	0.728	mg/kg		0.0142	0.0429	0.0429	2	MS	BAJ	03/09/10 10:41	100308-11	952955
7440-62-2	Vanadium	3830	ug/Kg		104	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-66-6	Zinc	43800	ug/Kg	*	345	1050	1050	1	P	HSC	03/04/10 21:34	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.522	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.504	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.507	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.517	g	50	mL	03/03/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872008

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8376

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL


%SOLIDS: 76

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	3120000	ug/Kg	N	8760	25800	25800	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-36-0	Antimony	1290	ug/Kg	U	425	1290	1290	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-38-2	Arsenic	1.31	mg/kg		0.253	1.27	1.27	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-39-3	Barium J+,16b	24600	ug/Kg	*N	132	658	658	1	P	HSC	03/04/10 21:41	030410-2	960016
7440-41-7	Beryllium	1.54	mg/kg		0.0253	0.127	0.127	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-43-9	Cadmium	206	ug/Kg	J	129	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-70-2	Calcium J+,16b	653000	ug/Kg	N	10300	32200	32200	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-47-3	Chromium	12700	ug/Kg		193	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-48-4	Cobalt	677	ug/Kg		193	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-50-8	Copper U,14d	3060	ug/Kg		395	1320	1320	1	P	HSC	03/04/10 21:41	030410-2	960016
7439-89-6	Iron	7420000	ug/Kg		10300	32200	32200	1	P	HSC	02/26/10 10:50	022610D-1	952953
7439-92-1	Lead J,14a	6310	ug/Kg		322	1290	1290	1	P	HSC	02/26/10 10:50	022610D-1	952953
7439-95-4	Magnesium	350000	ug/Kg		10900	38600	38600	1	P	HSC	02/26/10 10:50	022610D-1	952953
7439-96-5	Manganese	388000	ug/Kg	*	258	1290	1290	1	P	HSC	02/26/10 10:50	022610D-1	952953
7439-97-6	Mercury	8.25	ug/kg	J	5.24	15.4	15.4	1	AV	JXL	03/01/10 10:28	030110S1-12	958331
7440-02-0	Nickel	2.53	mg/kg		0.127	0.506	0.506	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-09-7	Potassium	309000	ug/Kg	N	8240	32200	32200	1	P	HSC	02/26/10 10:50	022610D-1	952953
7782-49-2	Selenium	1.27	mg/kg	U	0.633	1.27	1.27	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-22-4	Silver	143	ug/Kg	J	129	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-23-5	Sodium	66200	ug/Kg		9010	32200	32200	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-28-0	Thallium	0.253	mg/kg	U	0.0759	0.253	0.253	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-61-1	Uranium	0.680	mg/kg		0.0167	0.0506	0.0506	2	MS	BAJ	03/09/10 10:43	100308-11	952955
7440-62-2	Vanadium	4410	ug/Kg		129	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-66-6	Zinc	39900	ug/Kg	*	434	1320	1320	1	P	HSC	03/04/10 21:41	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.512	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.521	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.513	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.501	g	50	mL	03/03/10	AXG2

P.S. 3/26/10

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

Section I.

REQUEST NUMBER: 10-1759 VALIDATION DATE: 03/26/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Peter Steves ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

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

Section II. Completeness Check

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

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


1. It should be noted that the aqueous matrix QC analysis was performed on a LANL sample from another RN. No sample data were qualified as a result.

Reviewed by: Monica Dymerski **Level I** **Date:** 03/26/10


VALIDATOR'S SIGNATURE: ## 

Mr. Peter Steves


DATE: 03/26/10

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

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

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

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

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

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

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759

Client Sample ID: RE15-10-8380
Sample ID: 246871001
Matrix: W
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	02/17/10	1111	953089	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/16/10	1532	953087

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: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8366
Sample ID: 246872001
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 18%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.0C	H	6.81	0.010	0.100	SU	1	EXF1	02/15/10	1036	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.0	272	ug/kg	1	AXC2	02/23/10	1152	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.366	1.22	mg/kg	1	MAR102	02/28/10	0834	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8367
Sample ID: 246872002
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 19.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.0C	H	6.25	0.010	0.100	SU	1	EXF1	02/15/10	1039	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	81.0	298	ug/kg	1	AXC2	02/23/10	1156	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate In Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.372	1.24	mg/kg	1	MAR1	02/28/10	1030	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8364
Sample ID: 246872003
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 23.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.1C	H	6.53	0.010	0.100	SU	1	EXF1	02/15/10	1040	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	83.6	307	ug/kg	1	AXC2	02/23/10	1157	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.386	1.29	mg/kg	1	MAR102	02/28/10	1059	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8365
Sample ID: 246872004
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 16.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.2C	H	6.70	0.010	0.100	SU	1	EXF1	02/15/10	1044	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.6	259	ug/kg	1	AXC2	02/23/10	1158	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.361	1.20	mg/kg	1	MAR1	02/28/10	1128	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8368
Sample ID: 246872005
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 24.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.3C	H	6.52	0.010	0.100	SU	1	EXF1	02/15/10	1046	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	88.4	325	ug/kg	1	AXC2	02/23/10	1159	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.386	1.29	mg/kg	1	MAR102	02/28/10	1157	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8340
Sample ID: 246872006
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 24.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.1C	H	6.95	0.010	0.100	SU	1	EXF1	02/15/10	1049	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	89.7	330	ug/kg	1	AXC2	02/23/10	1203	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.396	1.32	mg/kg	1	MAR102/28/10	1324	955443	3	

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Certificate of Analysis

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8341
Sample ID: 246872007
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 7.56%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.3C	H	7.39	0.010	0.100	SU	1	EXF1	02/15/10	1051	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.6	270	ug/kg	1	AXC2	02/23/10	1204	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.325	1.08	mg/kg	1	MAR1	02/28/10	1353	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8376
Sample ID: 246872008
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 24.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.4C	H	6.70	0.010	0.100	SU	1	EXF1	02/15/10	1053	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	84.6	311	ug/kg	1	AXC2	02/23/10	1205	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.396	1.32	mg/kg	1	MAR1	02/28/10	1422	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Wednesday, February 10, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1759

LOS ALAMOS

REQUEST NUMBER: 10-1759

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/12/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

2468711, 2468721

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8380	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8380	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE15-10-8380	1	POLY	SW-846:6850	Ice	W
RE15-10-8380	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8366	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8366	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8367	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8367	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8364	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8364	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8365	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8365	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8368	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8368	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8340	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8340	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8341	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8341	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8376	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8376	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 10, 2010
LOS ALAMOS
NATIONAL LABORATORY

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

These Samples are on:
LANL Request Number: 10-1759
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/10/2010
TURNAROUND/REPORT DUE: 3/12/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
Signature: 

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
	EPA-353.2	1	RE15-10-8380	W	2/9/2010	

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6010B	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8384	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
	SW-846:6020	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
		1	RE15-10-8380	W	2/9/2010	
	SW-846:6850	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
		1	RE15-10-8380	W	2/9/2010	
	SW-846:7470A	1	RE15-10-8380	W	2/9/2010	
		1	RE15-10-8380	W	2/9/2010	

Wednesday, February 10, 2010 Page 3 of 3
 REQUEST NUMBER: 10-1759

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:7471A	1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8384	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
	SW-846:9012A	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8384	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
		1	RE15-10-8380	W	2/9/2010	
	SW-846:9045C	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8384	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	

Final Page of REQUEST NUMBER 10-1759



February 17, 2010

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

Re: LANL ER Project
Work Orders: 246871 246872
SDG: 10-1759

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 11, 2010, and analyzed for General Chemistry, Metals and Perchlorates by LCMSMS. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4485.

Sincerely,

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-1759
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 246871 and 246872
SDG: 10-1759

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Instrument QC Data Summary	1386
Cyanide, Total	1389
Ion Chromatography	1408
pH	1446

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 246871 and 246872
SDG # : 10-1759**

February 17, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 11, 2010 for analysis. The sample was prepared/analyzed within the required holding time. Shipping container temperature was checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The lab did not receive the NO₃NO₂ container for sample RE15-10-8380. Los Alamos was notified. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

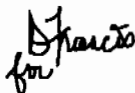
<u>Laboratory ID</u>	<u>Client ID</u>
246871001	RE15-10-8380
246872001	RE15-10-8366
246872002	RE15-10-8367
246872003	RE15-10-8364
246872004	RE15-10-8365
246872005	RE15-10-8368
246872006	RE15-10-8340
246872007	RE15-10-8341
246872008	RE15-10-8376

Case Narrative

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

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

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



Valerie Davis
Project Manager

List of current GEL Certifications as of 17 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

Wednesday, February 10, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1759

LOS ALAMOS

REQUEST NUMBER: 10-1759

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/12/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

2468711, 2468721

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8380	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-8380	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE15-10-8380	1	POLY	SW-846:6850	Ice	W
RE15-10-8380	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-8366	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8366	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8367	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8367	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8364	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8364	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8365	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8365	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8368	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8368	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8340	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8340	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8341	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8341	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE15-10-8376	1	POLY	METALS+U-GEL	Ice	R
RE15-10-8376	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 10, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/10/2010

TURNAROUND/REPORT DUE: 3/12/2010

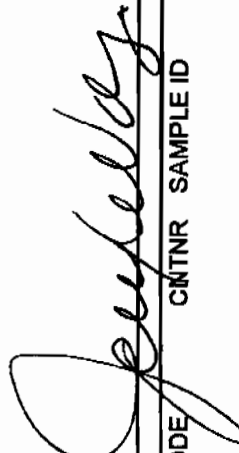
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



These Samples are on:

LANL Request Number: 10-1759

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:300.0	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
	EPA:353.2	1	RE15-10-8380	W	2/9/2010	

Wednesday, February 10, 2010

REQUEST NUMBER: 10-1759

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6010B	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
	SW-846:6020	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
	SW-846:6850	1	RE15-10-8380	W	2/9/2010	
		1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
		1	RE15-10-8380	W	2/9/2010	
	SW-846:7470A	1	RE15-10-8380	W	2/9/2010	
		1	RE15-10-8340	R	2/9/2010	

Wednesday, February 10, 2010

REQUEST NUMBER: 10-1759

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:7471A	1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
	SW-846:9012A	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	
		1	RE15-10-8380	W	2/9/2010	
	SW-846:9045C	1	RE15-10-8340	R	2/9/2010	
		1	RE15-10-8341	R	2/9/2010	
		1	RE15-10-8364	R	2/9/2010	
		1	RE15-10-8365	R	2/9/2010	
		1	RE15-10-8366	R	2/9/2010	
		1	RE15-10-8367	R	2/9/2010	
		1	RE15-10-8368	R	2/9/2010	
		1	RE15-10-8376	R	2/9/2010	

Final Page of REQUEST NUMBER 10-1759



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-1759		
Received By: Greg Tyler			Date Received: 2/11/10		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 40cpm	
Classified Radioactive II by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 1-6 8,10-13,15
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	X			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?		X		Sample ID's affected: No time on Chain of Custody.
11	Number of containers received match number indicated on COC?			X	Sample ID's affected: RE15-10-8380 The lab did not receive the (1) 250ML Poly container for N03N02 as indicated on COC.
12	COC form is properly signed in relinquished/received sections?	X			

Comments:

Fed Ex Tracking Numbers:

7209 7849 9959 1C	7209 7849 9948 2C	7209 7850 0051 8C
7209 7850 0095 1C	7209 7850 0030 2C	7209 7849 9890 10C
7209 7850 0007 1C	7209 7849 9926 3C	7209 7849 9867 11C
7209 7850 0084 1C	7209 7849 9992 4C	7209 7849 9878 12C
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7209 7849 9981 2C	7209 7850 0073 6C	7209 7849 9904 15C
7209 7849 9915 2C	7209 7849 9970 6C	
7209 7850 0062 2C	7209 7849 9960 6C	

Subject: Re: Sample Receipt for 2/11/10
From: Keith Greene <kgreene@lanl.gov>
Date: Tue, 16 Feb 2010 12:48:32 -0700
To: Dionne Francis <Dionne.Francis@gel.com>

yes

At 11:12 AM 2/16/2010, you wrote:

We still have not rec'd the NO3NO2 container for sample RE15-10-8380.
Would you like us to cancel the analysis?

Please advise.

Thanks,

Dionne

Dionne Francis wrote:

Keith,

RN10-1794: the lab rec'd 1Gal BOD/TSS container for sample NPDES13S-10-12324 instead of (2) as indicated on the COC.

RN10-1761: the lab rec'd (1) 125ml poly CN container for sample NPDES03A185-10-12209 instead of (2) as indicated on the COC.

The COD container for sample 10RCRA094 was preserved prior to analysis.

RN10-1780 and 1777: the Gross A/B containers were preserved prior to analysis.

RN10-1759: the lab did not receive the NO3NO2 container for sample RE15-10-8380.

RN10-1773: the lab did not receive (2) 40ml vial 8260B container for sample CASA-10-9444.

Please advise.

Thanks,

Dionne

--

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

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

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: 10FEB10
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

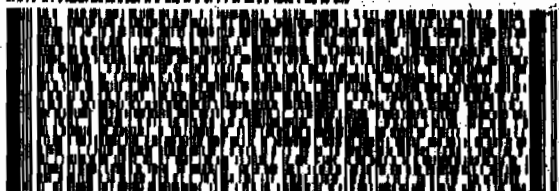
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A05329E00

1* 156148-434 NRTT V3 09-09



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TRKH 7209 7849 9959
0201

THU - 11FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 10FEB10
ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR1A015AGWLO

1* 156148-434 NRTT V3 09-09



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0263

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THU - 11FEB A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 10FEB10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2449

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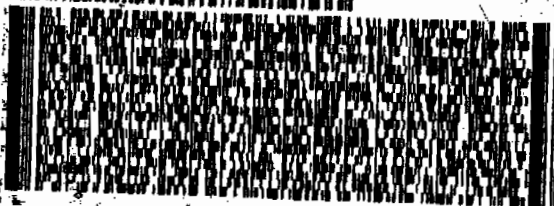
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GENERAL ENGINEERING LAB
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CHARLESTON SC 29407

(843) 556-8171

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TRKH 7209 7850 0095
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THU - 11FEB A1
PRIORITY OVERNIGHT

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CHS



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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 10FEB10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A0532VA00

1* 156148-434 NRTT V3 09-09



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Express



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0263

Mstr# 7209 7850 0073 0201

THU - 11FEB A1
PRIORITY OVERNIGHT

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SC-US
CHS

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

SHIP DATE: 10FEB10
ACTWGT: 46.0 LB MAN
CAD: 0014176/CAFE2449

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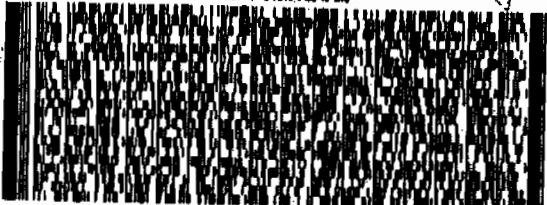
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR1A015AGML0

156148-434 NRT V3 09-08



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Express



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: 10FEB10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

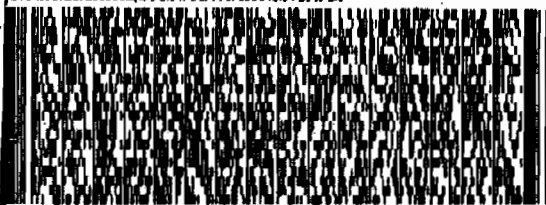
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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A05529E00

156148-434 NRT V3 09-08



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2 of 2
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Mstr# 7209 7849 9970 0201

THU - 11FEB AL
PRIORITY OVERNIGHT

XX CHSA

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SC-US
CHS



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

SHIP DATE: 10FEB10
ACTWGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR2A0515BYD0

156148-434 NRT V3 09-08



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1 of 2
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Mstr# 7209 7849 9915

THU - 11FEB AL
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

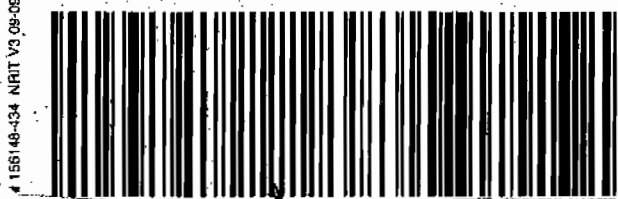
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1 of 2
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Mstr# 7209 7849 9937

THU - 11FEB AL
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



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

SHIP DATE: 10FEB10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2449

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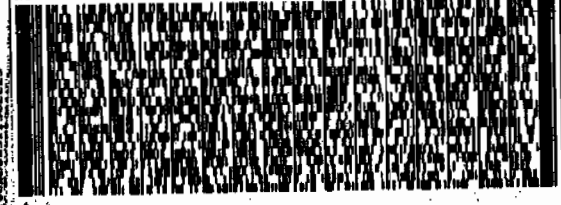
VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A0532VA00

156148-434 NRT V3 09-08



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2 of 2
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Mstr# 7209 7850 0051 0201

THU - 11FEB AL
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS

156148-434 NRT V3 09-08

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: 10FEB10
ACTWGT: 55.0 LB WGN
CAD: 0014176/CAFE2449

BILL SENDER

° VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A0532VA00

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

LOS ALAMOS, NM 87545
UNITED STATES US

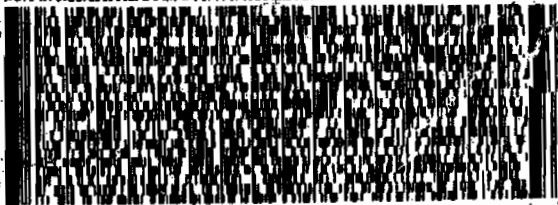
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ACTWGT:
CAD: F

BILL

° VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

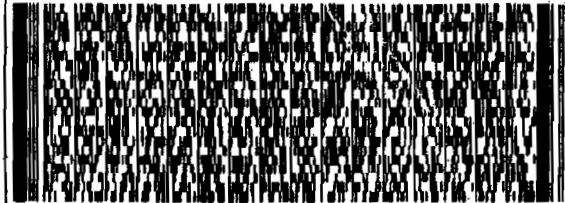
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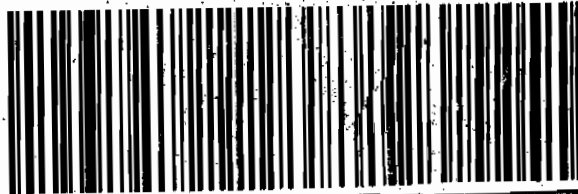
MM MASTER MM

THU - 11FEB A1
PRIORITY OVERNIGHT

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150148-434 NRIT V3 09-09



2 of 2
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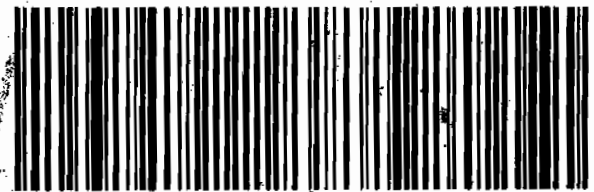
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THU - 11FEB A1
PRIORITY OVERNIGHT

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CHS

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150148-434 NRIT V3 09-09



JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

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ACTWGT: 43.0 LB MAN
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

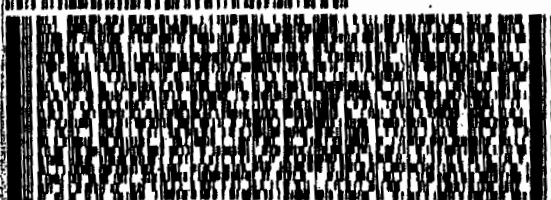
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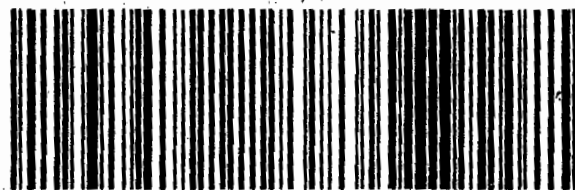
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PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

29407
SC-US
CHS



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

SHIP DATE: 10FEB10
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BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR3A0532VA00

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 6B010AMR2A0515BYDO



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THU - 11FEB A1
PRIORITY OVERNIGHT

1 of 2
TRKH 7209 7850 0051
0201
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THU - 11FEB A1
PRIORITY OVERNIGHT

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29407
SC-US

1 of 2
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MASTER

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

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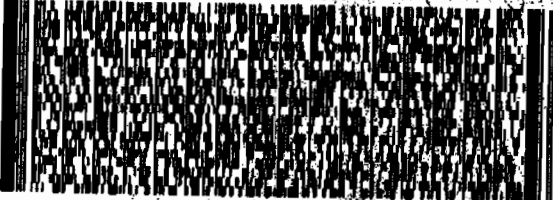
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1 of 2
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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

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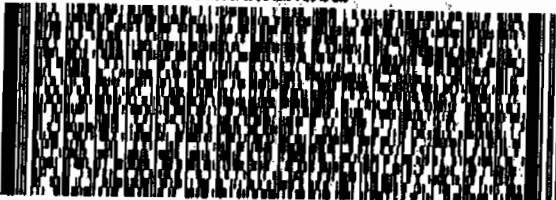
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CHARLESTON SC 29407

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REF: 68010AMR2A0515BYDO

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2 of 2
MPS# 7209 7849 9904
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Mstr# 7209 7849 9890 0201

THU - 11FEB A1
PRIORITY OVERNIGHT

29407

SC-US
CHS

XX CHSA

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: 10FEB10
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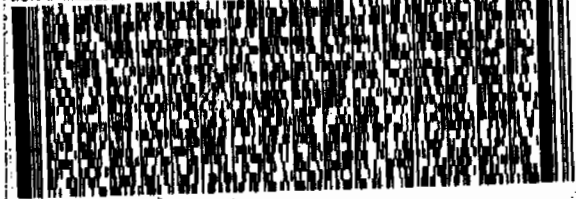
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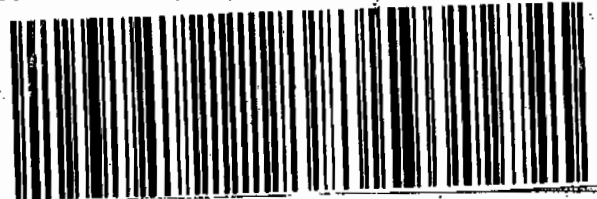
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THU - 11FEB A1
PRIORITY OVERNIGHT

29407

SC-US
CHS

XX CHSA



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

LOS ALAMOS, NM 87545
UNITED STATES US

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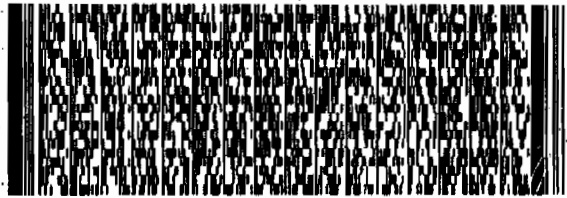
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2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

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Mstr# 7209 7849 9889

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PRIORITY OVERNIGHT

THU - 11FEB A1
PRIORITY OVERNIGHT

FedEx

MPS# 7209 7849 9889
0263

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Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier	Explanation
-----------	-------------

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

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-1759**

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: 959704

Prep Batch Number: 959703

Sample Analysis

Sample ID	Client ID
246871001	RE15-10-8380
1202058262	Interference Check Sample (ICS)
1202058256	Method Blank (MB)
1202058257	Laboratory Control Sample (LCS)
1202058260	246883001(RE46-10-12725) Matrix Spike (MS)
1202058261	246883001(RE46-10-12725) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

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

Calibration Information

Initial Calibration

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

10-1759-PERLCMS

Page 1 of 4

CCV Requirements

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

CCB Requirements

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

CCV Requirements

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

Low Level Standard (CRI) Requirements

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

Quality Control (QC) Information**Method Blank (MB) Statement**

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

Interference Check Sample (ICS)

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Client sample 246883001 (RE46-10-12725) from SDG 10-1767-1 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.

10-1759-PERLCMS

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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

The SDG was re-extracted within holding due the LCS failing acceptance criteria. The re-extraction and analysis passed acceptance criteria and is reported.

Miscellaneous Information

Data Exception (DER) Documentation

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

Manual Integrations

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

Method Comments

The sample in this SDG was not originally analyzed using EPA Method 314.0.

Additional Comments

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

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

Perchlorate Isotope Ratio

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

10-1759-PERLCMS

Page 3 of 4

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Heather K. Mauer Date: 03/05/10

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: 959703
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE15-10-8380
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759
 GEL Sample ID: 246871001
 Date Filtered: 02-MAR-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	03-MAR-10 03:44	per0302061a
	Perchlorate Isotope Ratio						1	03-MAR-10 03:44	per0302061a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	03-MAR-10 03:44	per0302061a
	Perchlorate-O(18)			0.485	ug/L		1	03-MAR-10 03:44	per0302061a

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

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

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG):

10-1752

Extract Batch Code: 959703

Date Filtered:

02-MAR-10

Matrix:

GROUND WATER

Sample ID:

1202058257

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.211	ug/L	105		85 - 115
Perchlorate Isotope Ratio		3.03				-
Perchlorate-101	0.200	.22	ug/L	110		85 - 115
Perchlorate-O(18)		.509	ug/L			-

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

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1759

Extract Batch Code: 959703

Date Filtered: 02-MAR-10

Matrix: WATER

Sample ID: 1202058262

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.216	ug/L	108		70 - 130
Perchlorate Isotope Ratio		3.07				
Perchlorate-101	0.200	.223	ug/L	111		70 - 130
Perchlorate-O(18)		.524	ug/L			

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

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

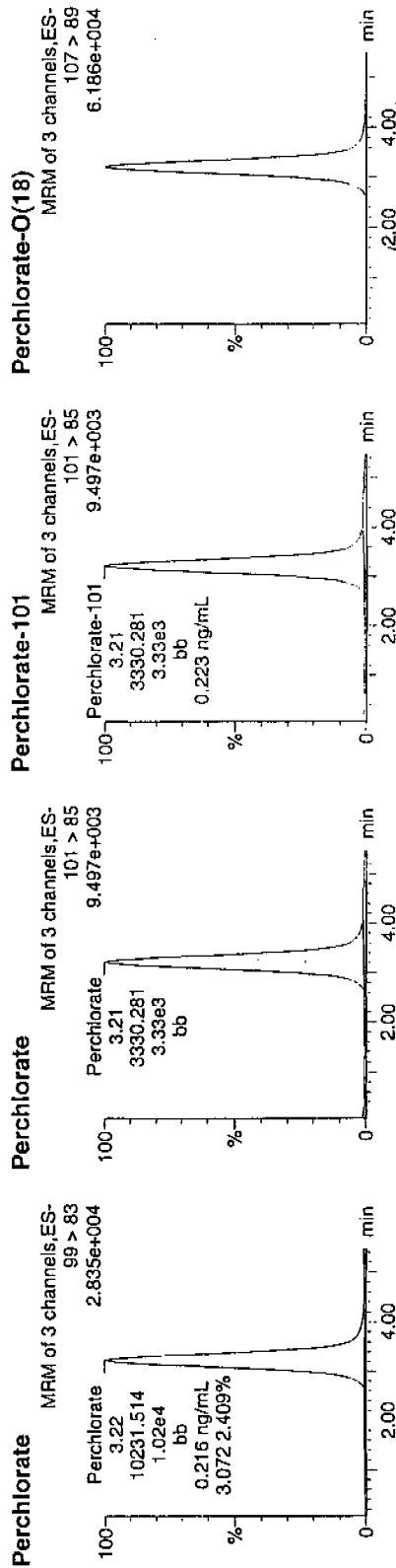
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Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

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Date: 03-Mar-2010
Time: 01:53:16
ID: 1202058262
Vial: 2:1,C

03-03-10

1202058262 | 1202058262 | 1202058262



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202058262	Perchlorate	99 > 83	3.22	10231.514	10231.514	bb			0.2164	108.21	8.21	4054.5...	3.07
1202058262	Perchlorate-101	101 > 85	3.21	3330.281	3330.281	bb			0.2226	111.28	11.28	862.578	
1202058262	Perchlorate-O(18)	107 > 89	3.20	21651.982	21651.982	bb			0.5238	104.75	4.75	3529.1...	

Form 6

P perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1759

Extract Batch Code: 959703

Date Extracted: 02-MAR-10

GEL MS/PS ID: 1202058260

Client ID: RE46-10-12725

GEL MSD/PSD ID: 1202058261

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	0.00	ug/L	0.204	102		.209	104		2.1		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.12			3.26			0			-
Perchlorate-101	0.200	0.00	ug/L	0.207	103		.202	101		2.04		30	75 - 125
Perchlorate-O(18)	0	0.477	ug/L	0.490			.482			1.49			-

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

Comments:

Perchlorate Initial Calibration Blank

GEL Job No.(SDG): 10-1759

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	02-MAR-10	per0302001a	IPB001
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302001a	IPB001
Perchlorate	0.00	0	NA	02-MAR-10	per0302002a	IPB001
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302002a	IPB001

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

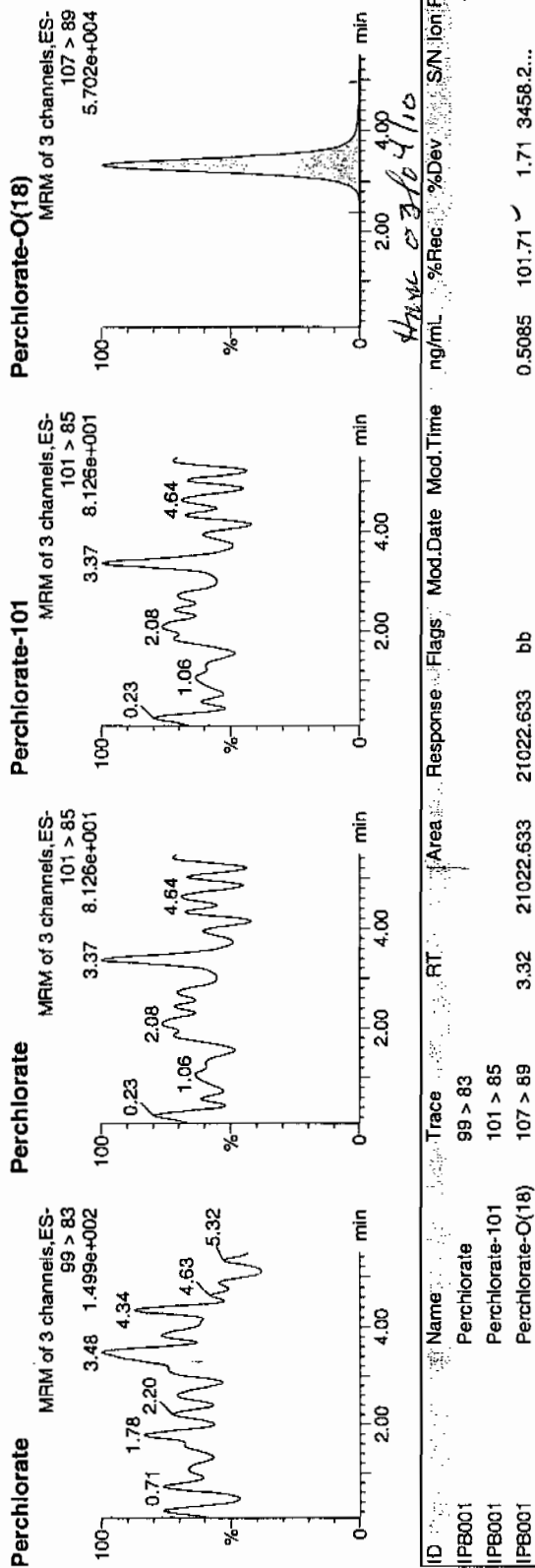
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Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030210a.cdb 03 Mar 2010 11:30:20

Name: per0302001a
Date: 02-Mar-2010
Time: 19:10:22
ID: IPB001
Vial: 1:1,A

0303-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85	3.32	21022.633	21022.633	bb			0.5085	101.71	1.71	3458.2...	
IPB001	Perchlorate-O(18)	107 > 89	3.32	21022.633	21022.633	bb			0.5085	101.71	1.71	3458.2...	

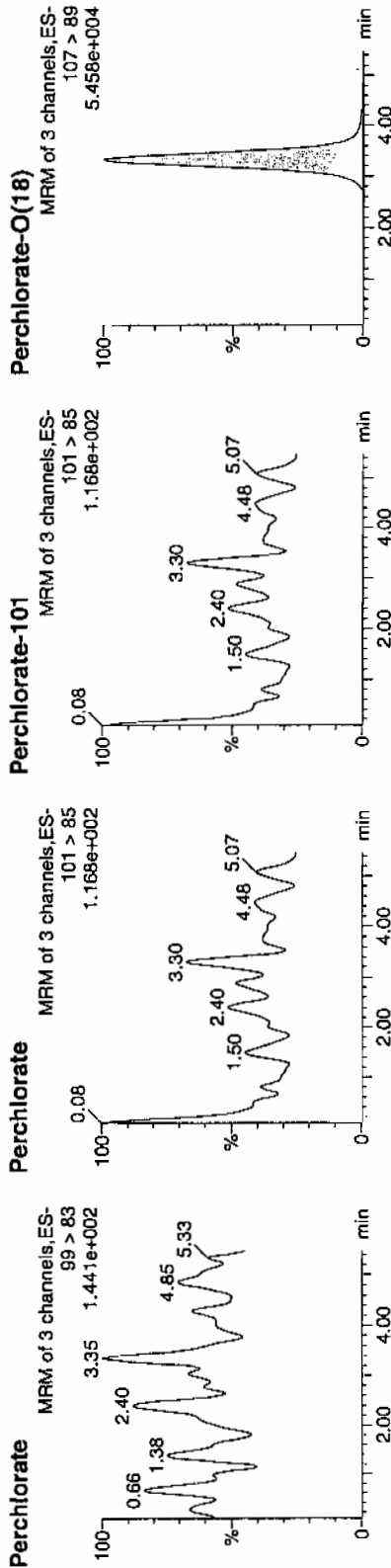
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

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Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

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Date: 02-Mar-2010
Time: 19:18:55
ID: IPB001
Vial: 1:1,A

03-03-10



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	3.32	20020.992	20020.992	bb			0.4843	96.86	-3.14	3492.9...	
IPB001	Perchlorate-O(18)	107 > 89											

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-1752

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	02-MAR-10	per0302008a	IPB002
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302008a	IPB002
Perchlorate	0.00	0	NA	02-MAR-10	per0302010a	IPB003
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302010a	IPB003
Perchlorate	0.00	0	NA	02-MAR-10	per0302022a	IPB004
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302022a	IPB004
Perchlorate	0.00	0	NA	02-MAR-10	per0302033a	IPB005
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302033a	IPB005
Perchlorate	0.00	0	NA	03-MAR-10	per0302044a	IPB006
Perchlorate-101	0.00	0	NA	03-MAR-10	per0302044a	IPB006
Perchlorate	0.00	0	NA	03-MAR-10	per0302056a	IPB007
Perchlorate-101	0.00	0	NA	03-MAR-10	per0302056a	IPB007
Perchlorate	0.00	0	NA	03-MAR-10	per0302067a	IPB008

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-1759

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	03-MAR-10	per0302067a	IPB008

Quantify Sample Report MassLynx 4.0 SP4

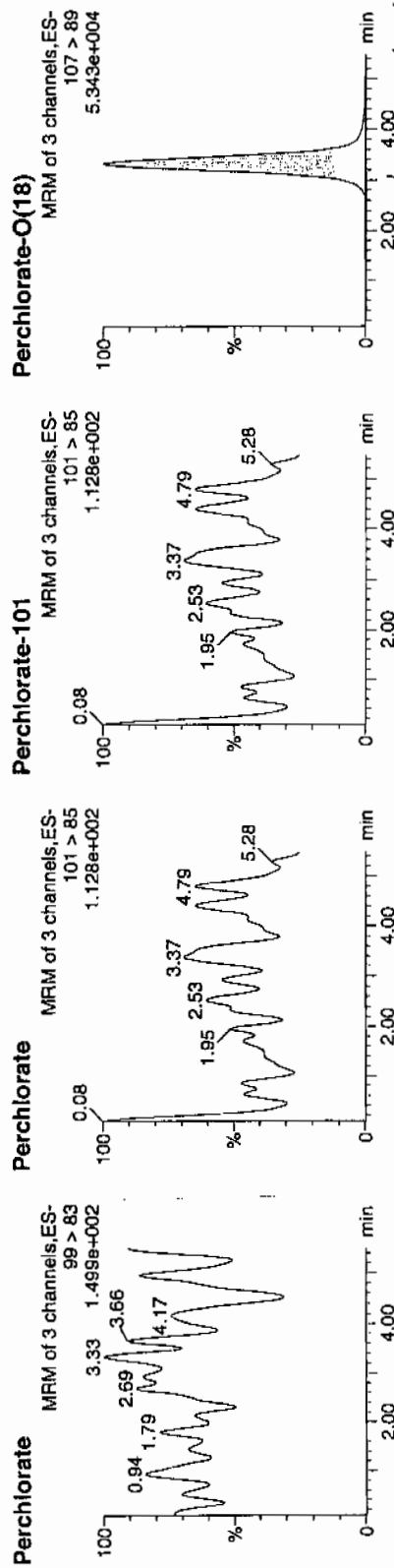
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
 Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302008a
 Date: 02-Mar-2010
 Time: 20:10:03
 ID: IPB002
 Vial: 1:1,A

03-03-10



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	3.32	19540.750	19540.750	bb			0.4727	94.54	-5.46	3325.7	

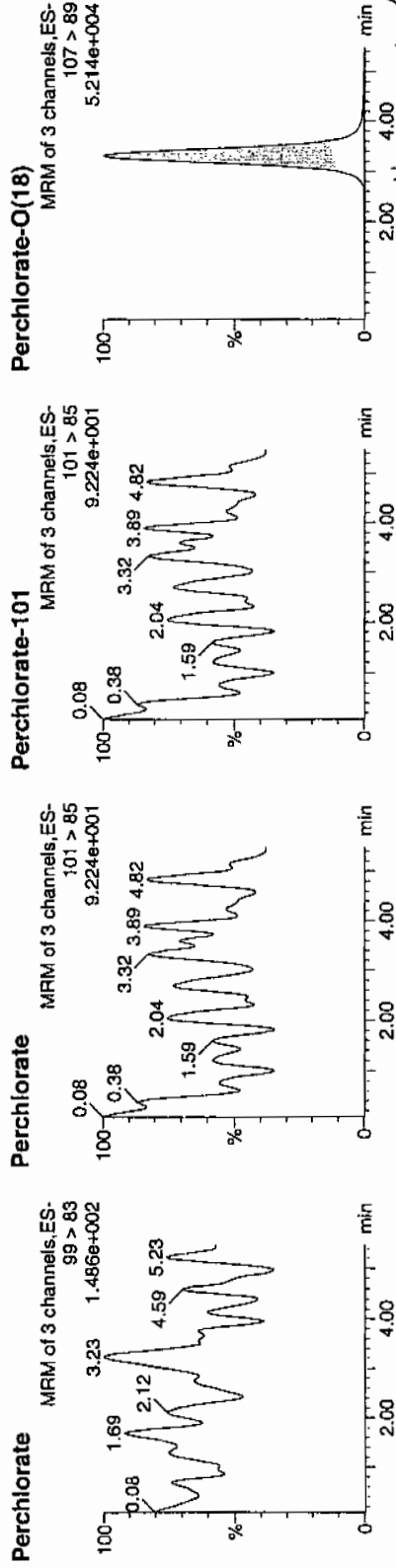
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qid

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per030210a
Date: 02-Mar-2010
Time: 20:27:08
ID: IPB003
Vial: 1:1,A

03-03-10



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	3.31	19196.836	19196.836	bb			0.4644	92.87	-7.13	3700.2...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302022a

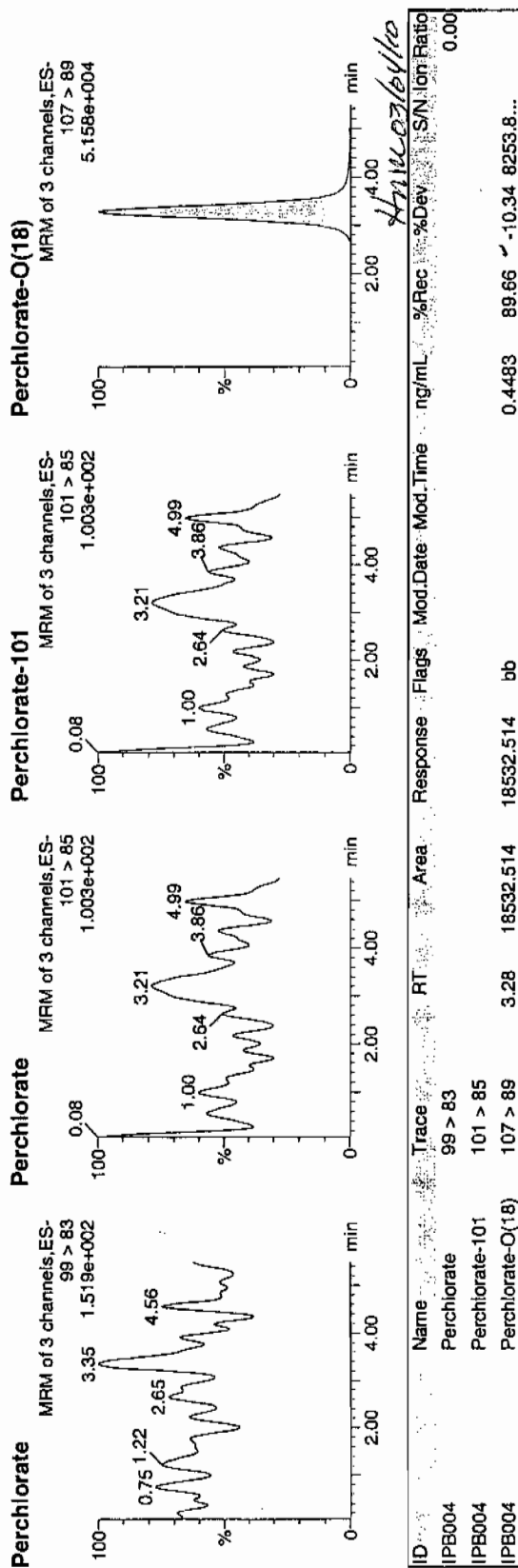
Date: 02-Mar-2010

Time: 22:09:53

ID: IPB004

Vial: 1:1,A

03-03-10



Quantify Sample Report MassLynx 4.0 SP4

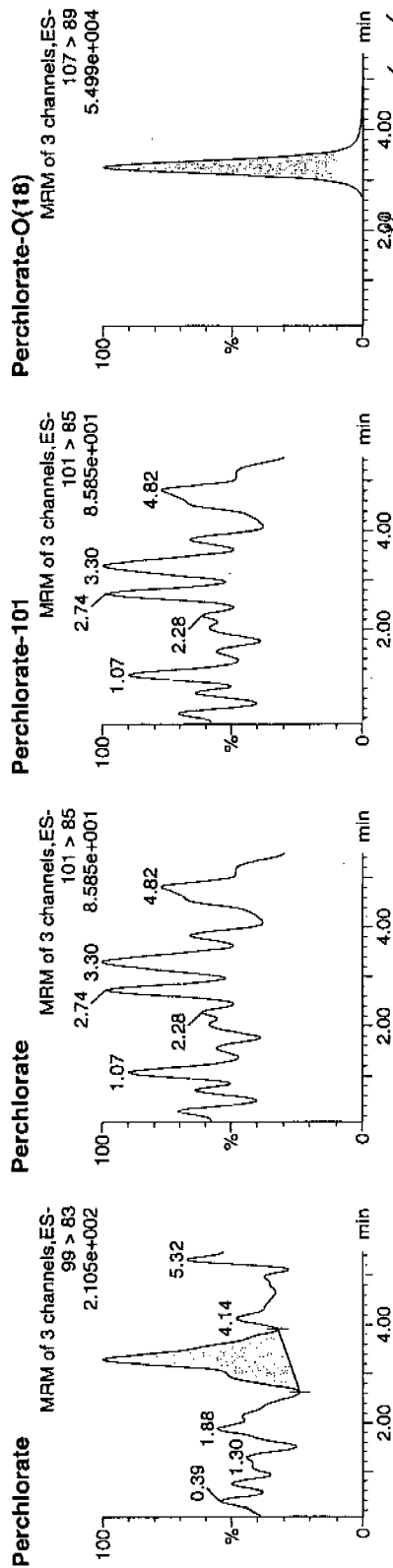
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302033a
Date: 02-Mar-2010
Time: 23:44:14
ID: IPB005
Vial: 1:1,A

03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83	3.30	78.545	78.545	bb			0.0017			8.632	0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-O(18)	107 > 89	3.26	19566.059	19566.059	bb			0.4733	94.66	-5.34	4481.1...	

Quantify Sample Report MassLynx 4.0 SP4

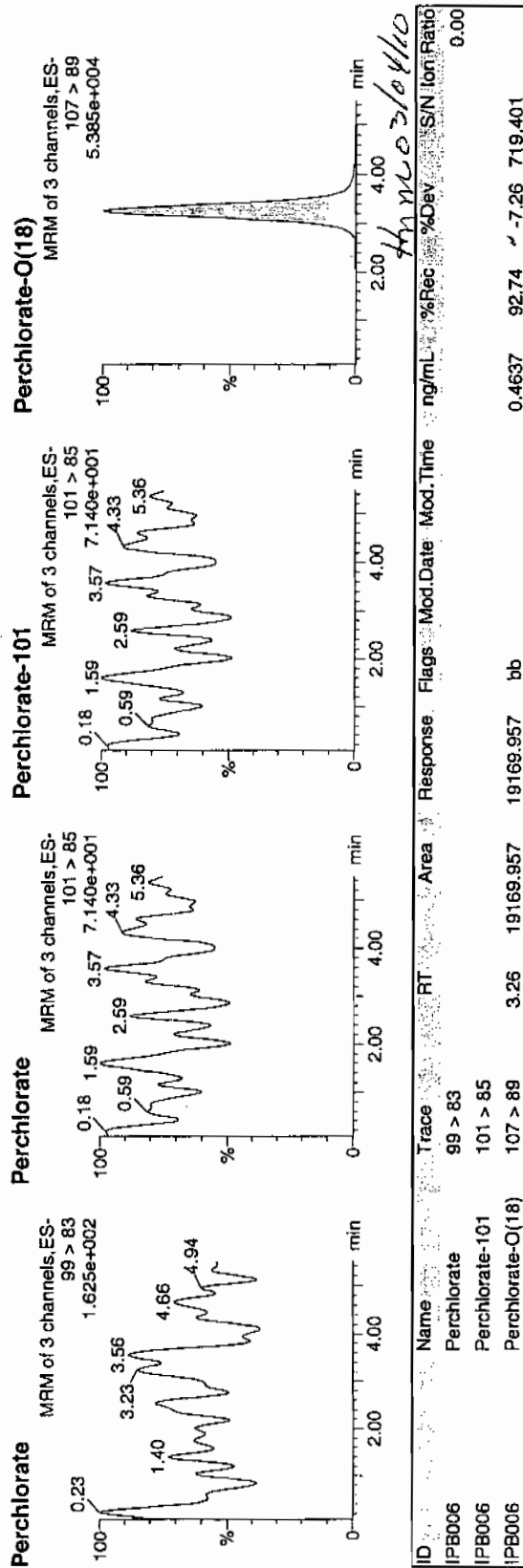
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
 Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302044a
 Date: 03-Mar-2010
 Time: 01:18:39
 ID: IPB006
 Vial: 1:1,A

03-03-10



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	3.26	19169.957	19169.957	bb			0.4637	92.74	-7.26	719.401	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time

Printed:

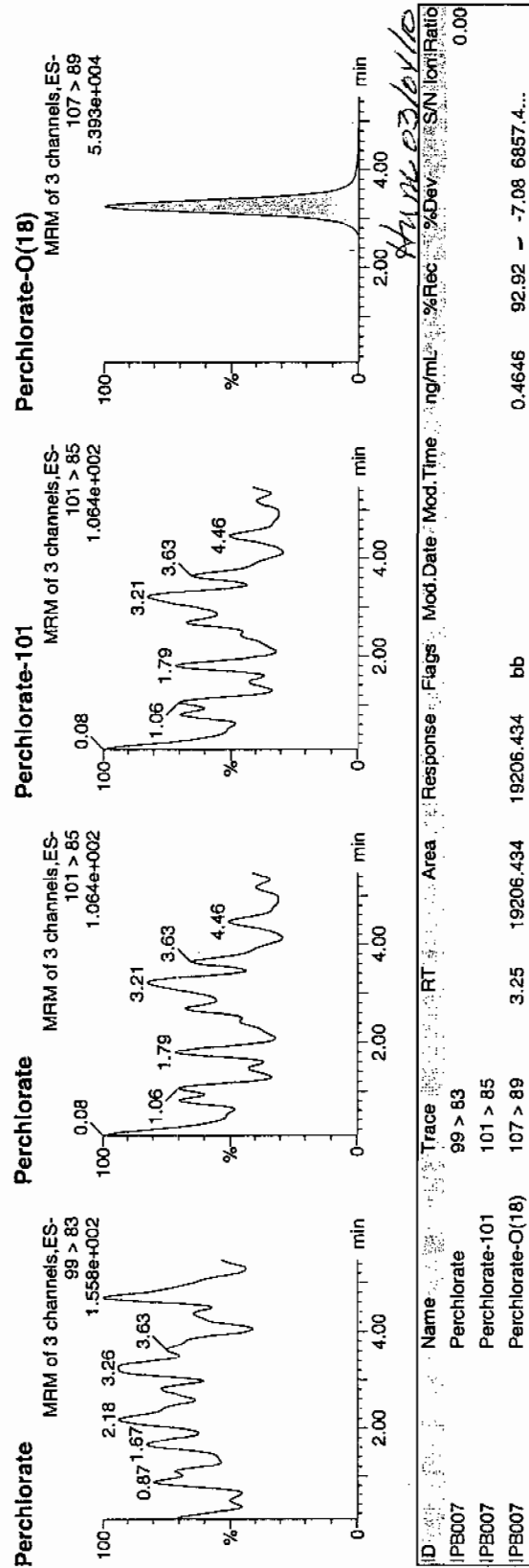
Name: per0302056a

Date: 03-Mar-2010

Time: 03:01:57

ID: IPB007

Vial: 1:1,A



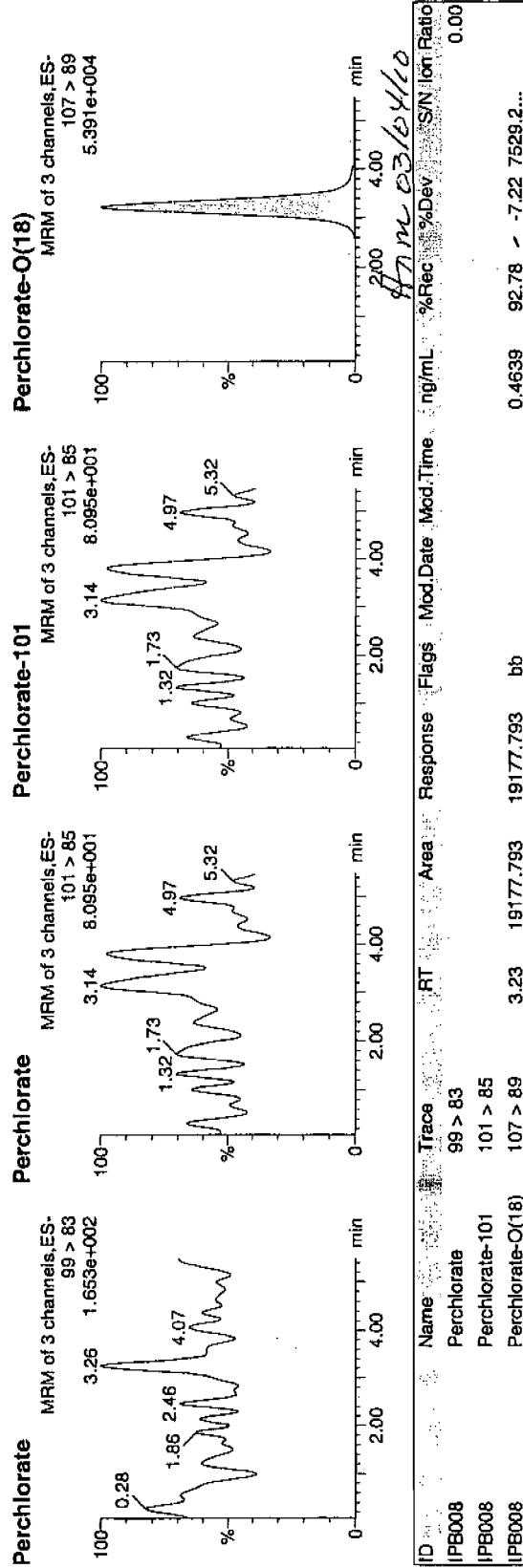
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qid

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302067a
Date: 03-Mar-2010
Time: 04:36:29
ID: IPB008
Vial: 1:1,A

03-03-10



Nairb.ref

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

Updated 20 April '95

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

QUANTO ULTIMA: nairb_01_08_08.ca

Calibration Report - MS1 Static

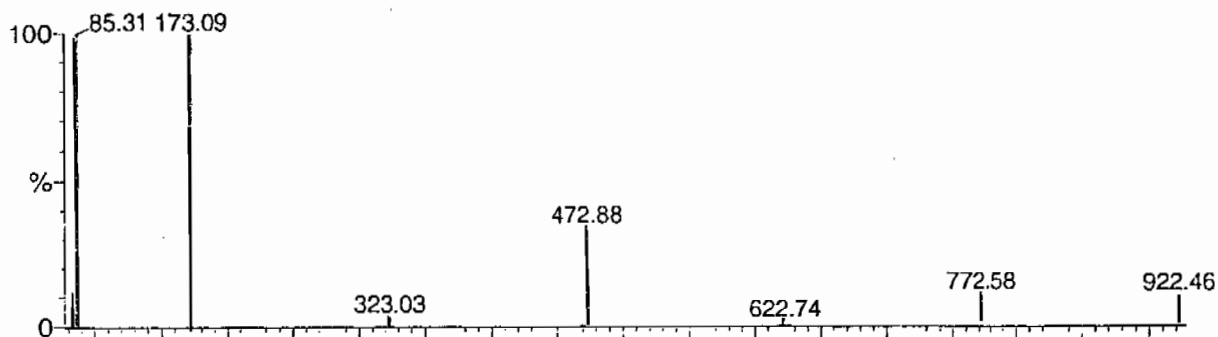
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

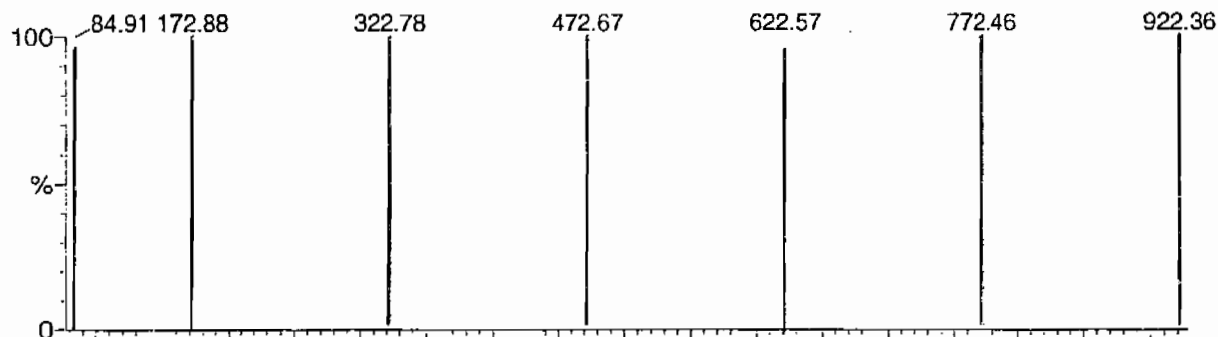
PEAKS HIGHLIGHTED BY CALIB 01-07-03

Data file: STATMS1 - Uncalibrated

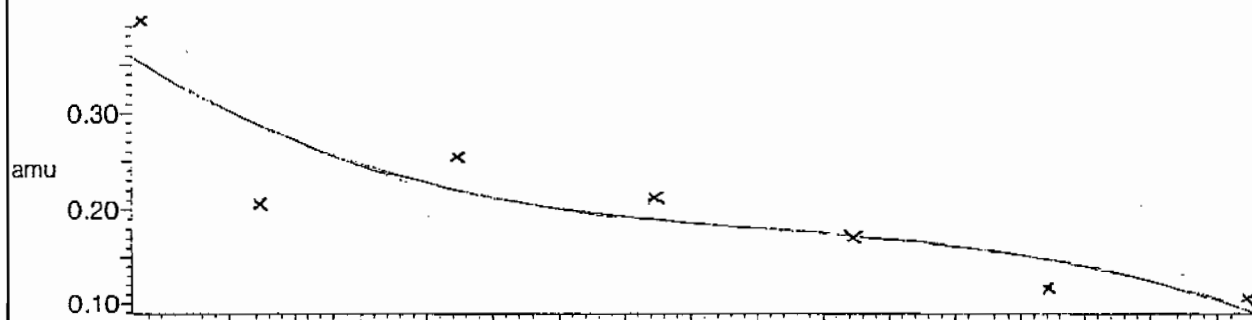
7 matches of 7 tested references



Reference file: Nairb

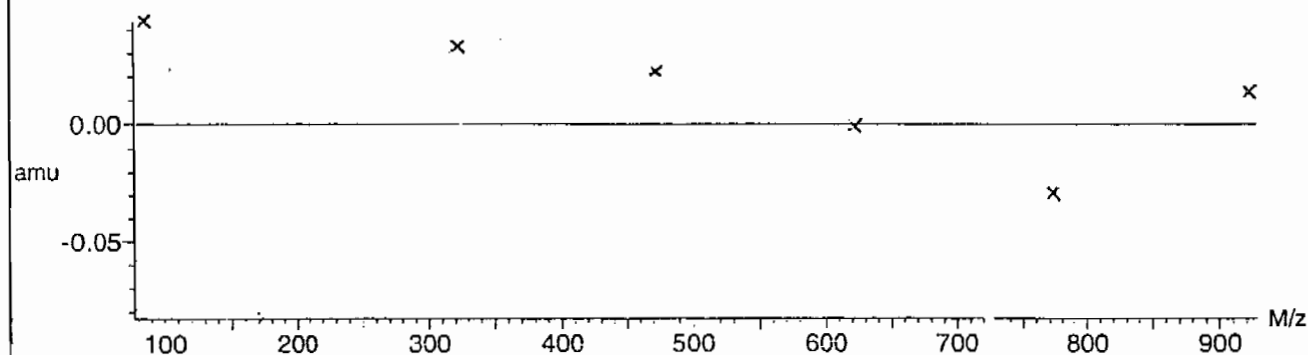


Mass difference (Raw - Ref mass)



Residuals

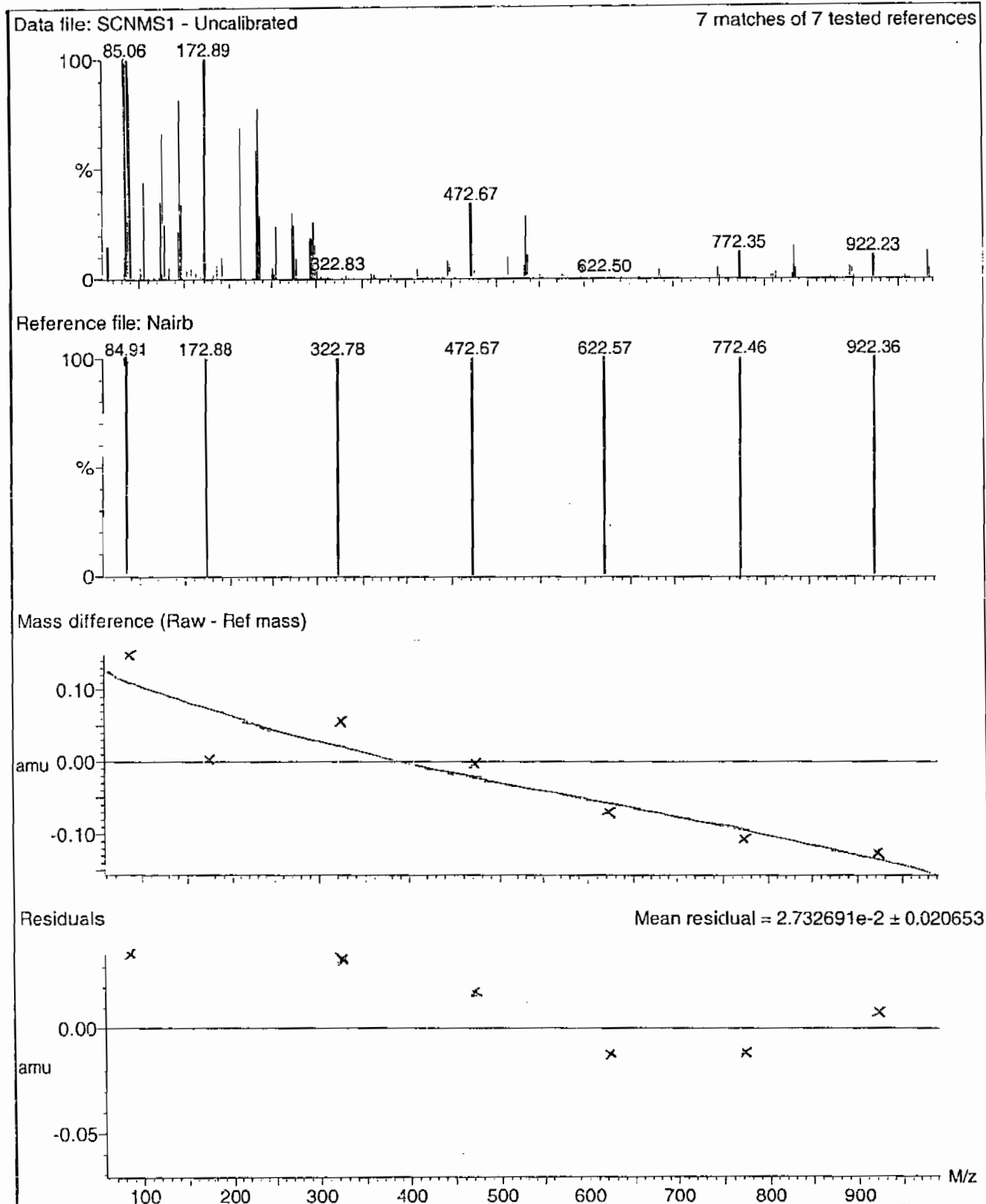
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:20:09 2008



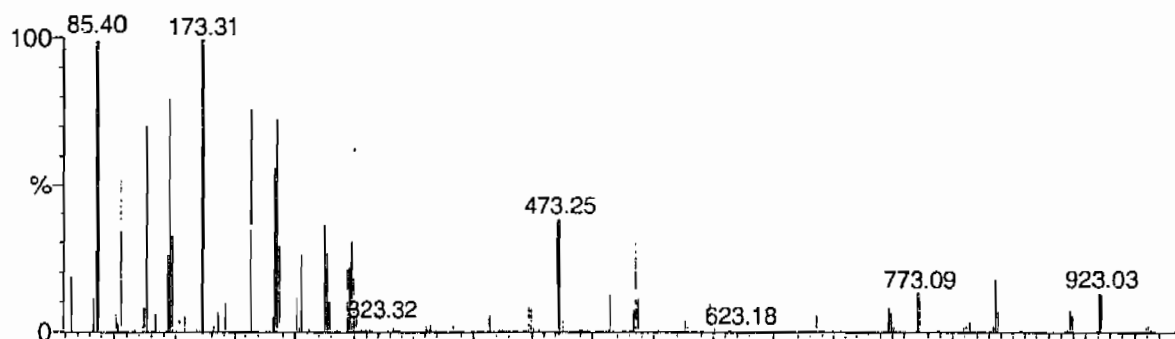
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

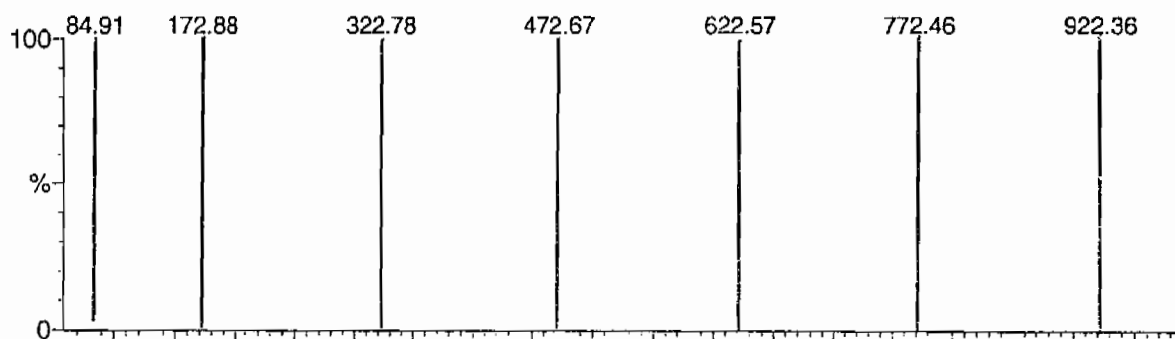
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

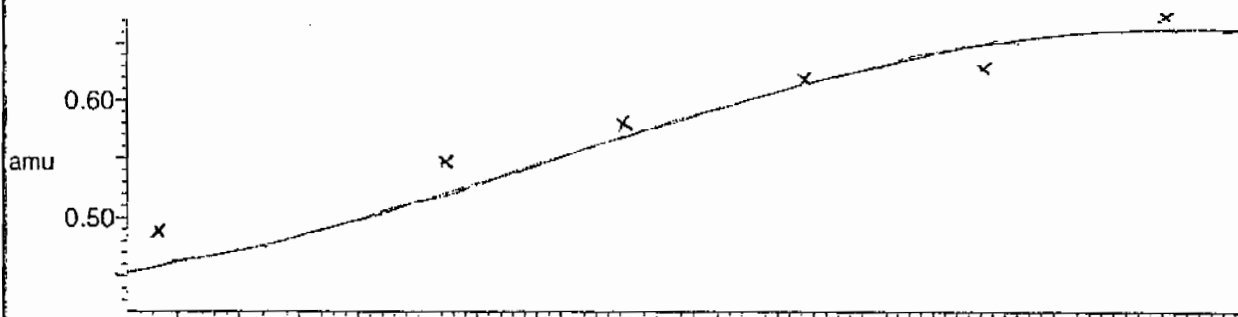
7 matches of 7 tested references



Reference file: Nairb

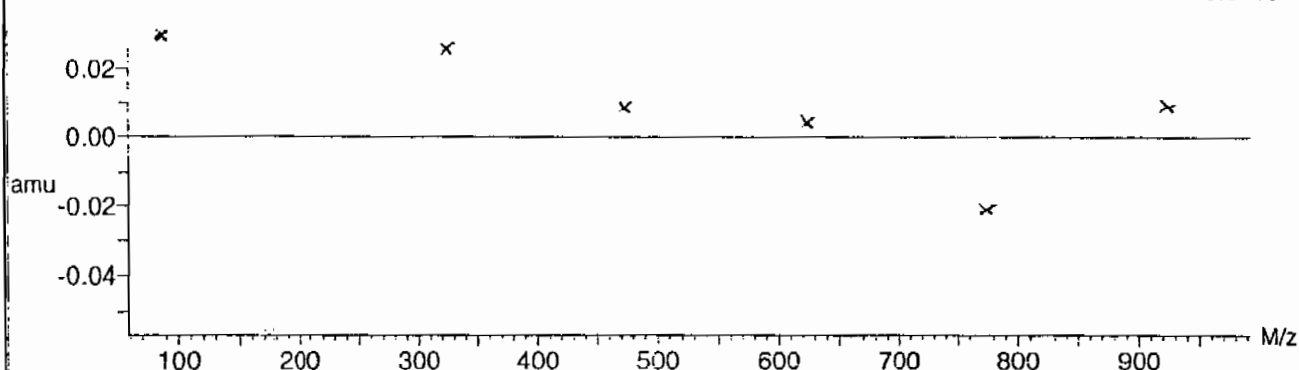


Mass difference (Raw - Ref mass)



Residuals

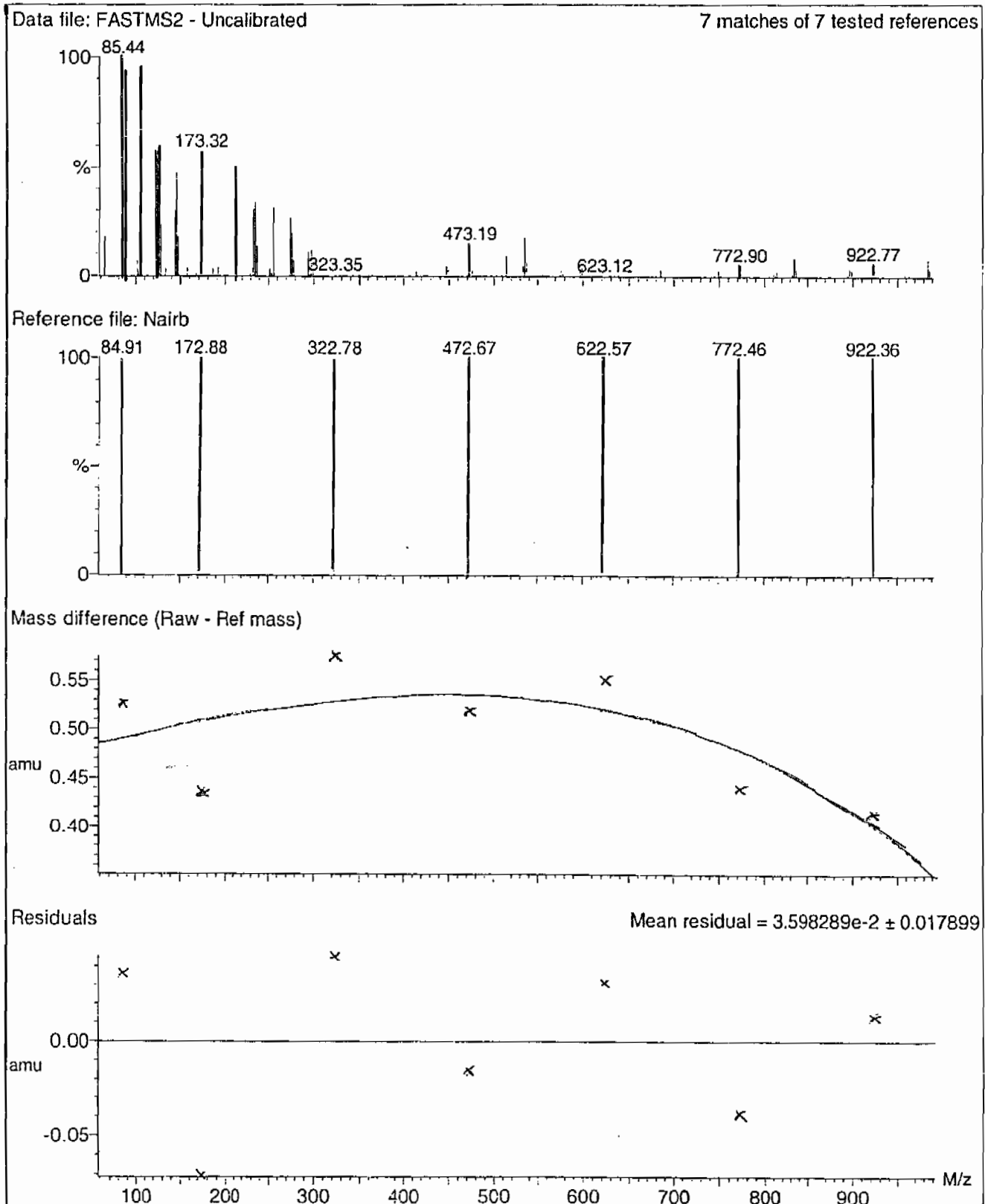
Mean residual = $2.224580 \times 10^{-2} \pm 0.016544$



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:23:51 2008



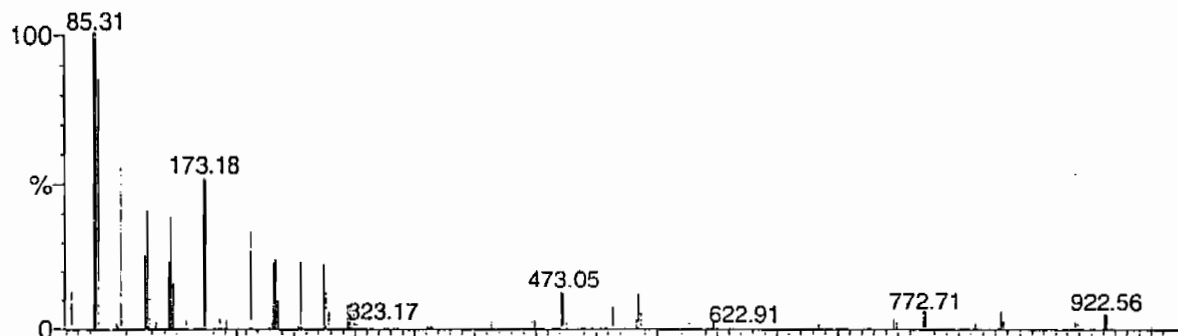
Calibration Report - MS2 Scanning

Page 1 of 1

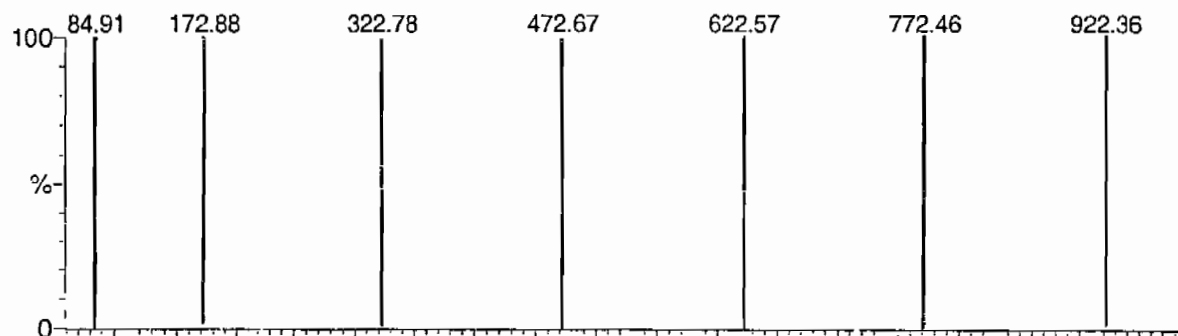
Printed: Tue Jan 08 12:22:56 2008

Data file: SCNMS2 - Uncalibrated

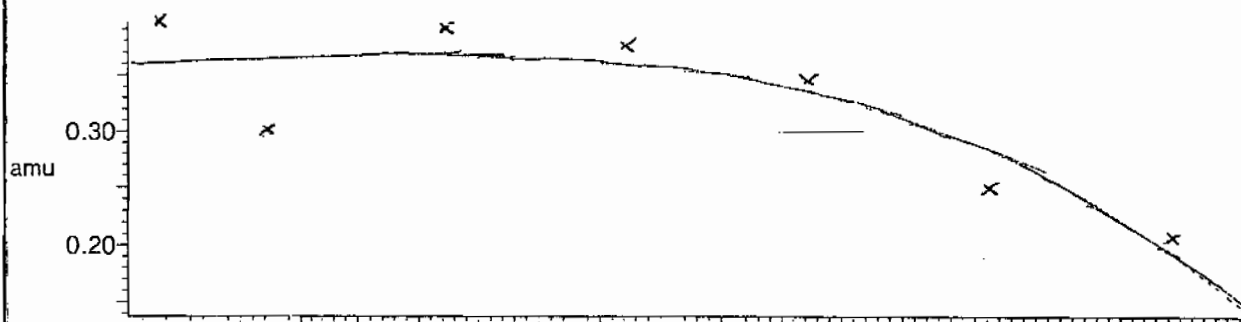
7 matches of 7 tested references



Reference file: Nairb

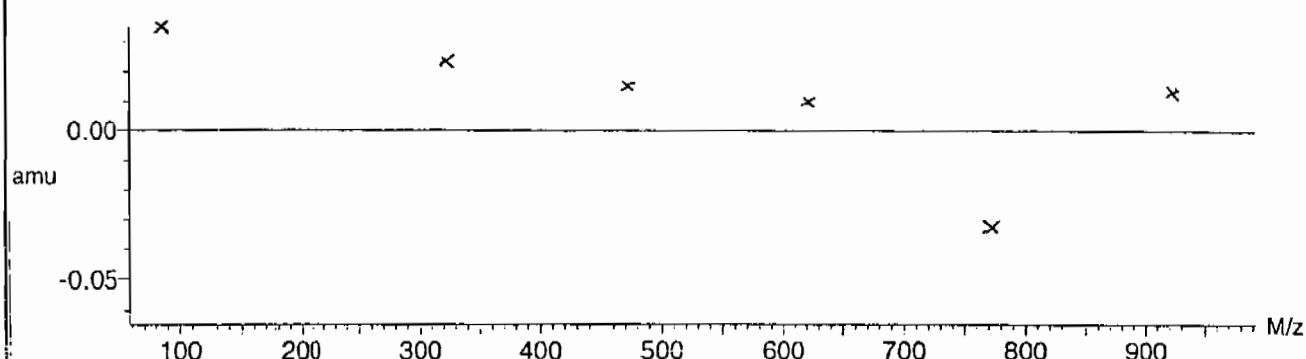


Mass difference (Raw - Ref mass)



Residuals

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



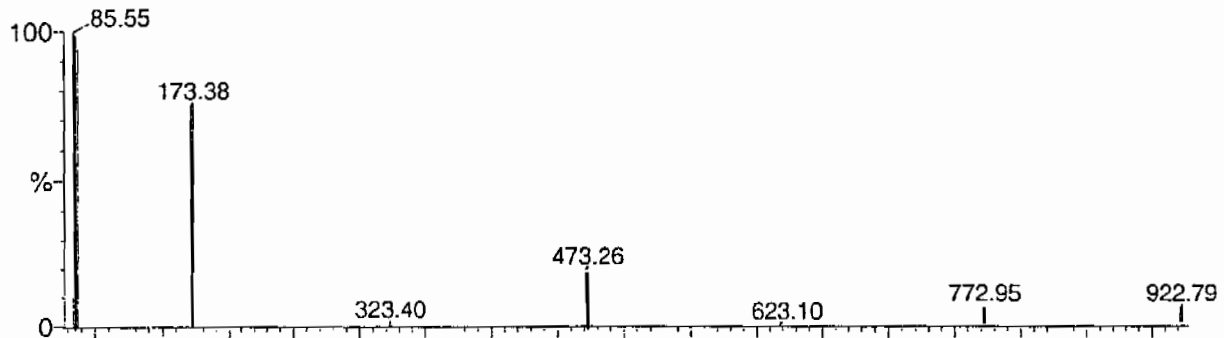
Calibration Report - MS2 Static

Page 1 of 1

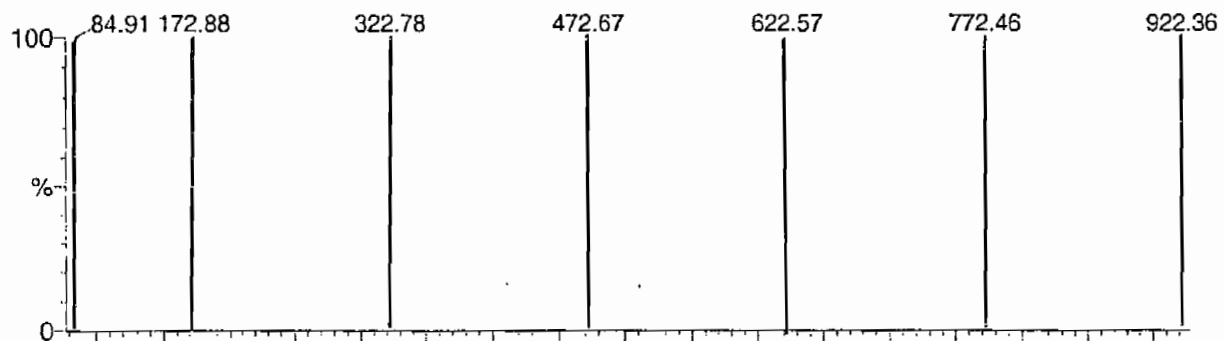
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

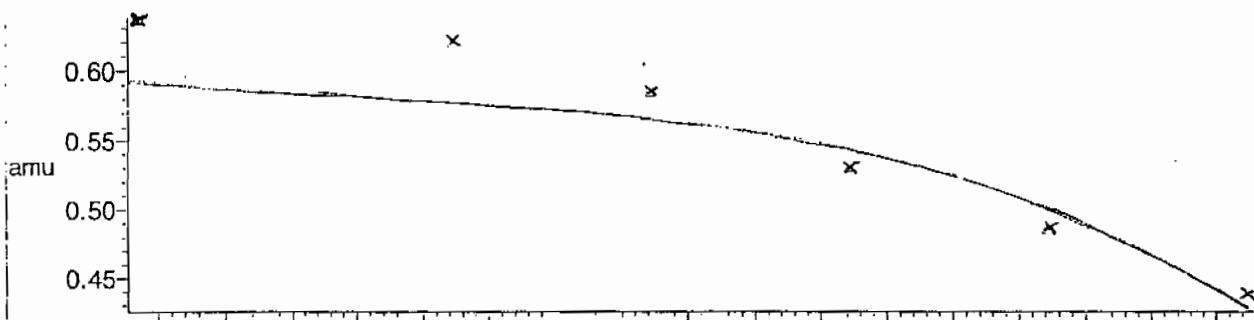
7 matches of 7 tested references



Reference file: Nairb

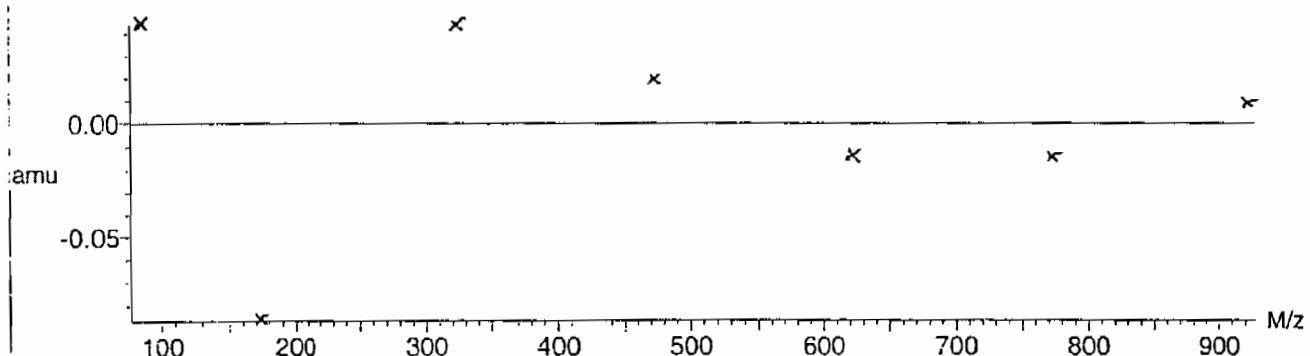


Mass difference (Raw - Ref mass)



Residuals

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



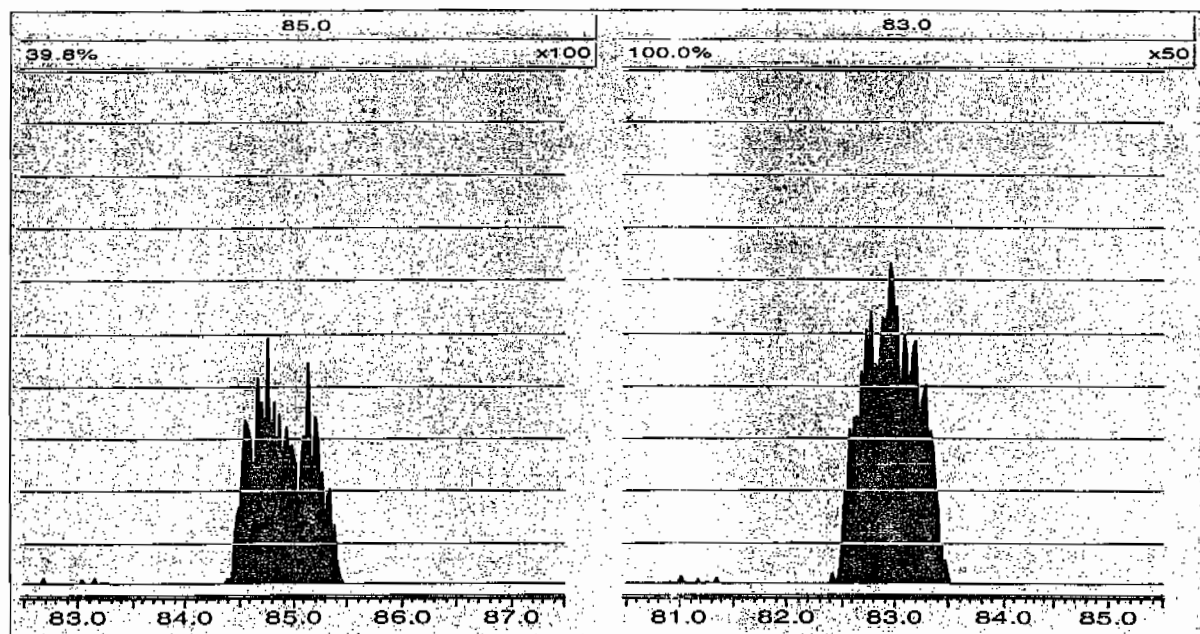
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Tuesday, March 02, 2010 10:10:11 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1759

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	per0302006a	02-MAR-10	20869.1				
Lower Area Limit			10434.55				
Upper Area Limit			41738.2				
1202058256	per0302046a	03-MAR-10 01:35	19628	3.26	3.2715	1.004	
1202058257	per0302047a	03-MAR-10 01:44	21050.5	3.25	3.25918	1.003	
1202058262	per0302048a	03-MAR-10 01:53	21652	3.2	3.22187	1.007	
246871001	per0302061a	03-MAR-10 03:44	20067.4	3.23	3.2716	1.013	

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: 959703

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-8380

Date Received: 11-FEB-10

GEL Job No (SDG): 10-1759

GEL Sample ID: 246871001

Date Filtered: 02-MAR-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	03-MAR-10 03:44	per0302061a
	Perchlorate Isotope Ratio						1	03-MAR-10 03:44	per0302061a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	03-MAR-10 03:44	per0302061a
	Perchlorate-O(18)			0.485	ug/L		1	03-MAR-10 03:44	per0302061a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302061a

Date: 03-Mar-2010

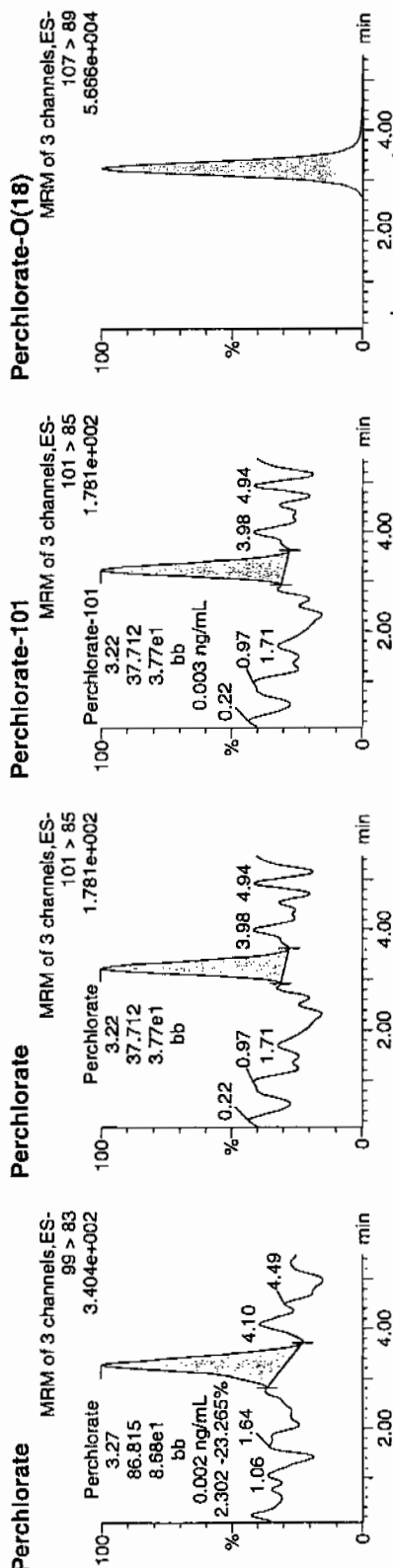
Time: 03:44:53

ID: 246871001

Vial: 2:3.A

LANC | 959704 | L202 | 11 |

03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246871001	Perchlorate	99 > 83	3.27	86.815	86.815	bb			0.0018			16.358	2.30
246871001	Perchlorate-101	101 > 85	3.22	37.712	37.712	bb			0.0025			11.114	
246871001	Perchlorate-O(18)	107 > 89	3.23	20067.441	20067.441	bb			0.4854	97.09	-2.91	5427.7	

STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1759

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 02-MAR-10

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

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

Parname Perchlorate

Coefficient of Determination:

Calibration Curve: 47275.02

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

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

GEL Job No.(SDG): 10-1759Lab Name: General Engineering LaboratoriesLab Code: GELInstrument ID: LCMSMS Date Analyzed: 02-MAR-10HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

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

Parname Perchlorate-101

Coefficient of Determination:

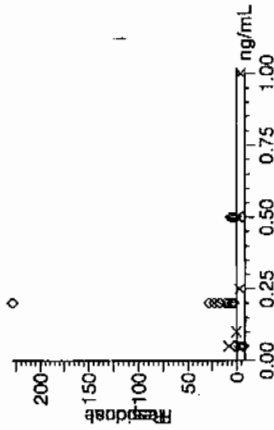
Calibration Curve: 14962.94Response Type: External StandardCurve Type: RF

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

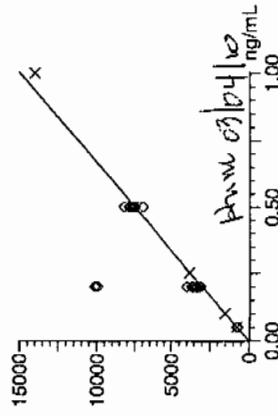
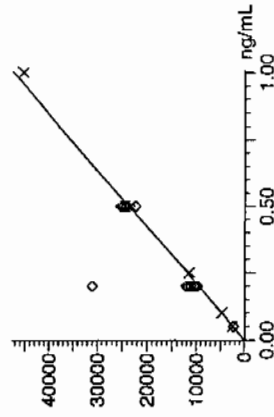
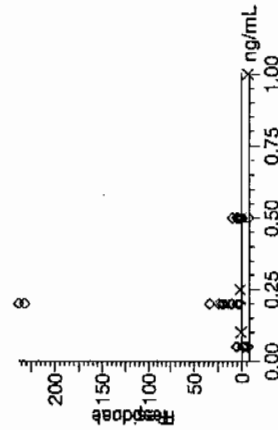
Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per030310a.mdb 03 Mar 2010 08:37:44
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030210a.cdb 03 Mar 2010 11:30:20

Compound name: Perchlorate
Response Factor: 47275
RRF SD: 2481.24, % Relative SD: 5.24853
Response type: External Std, Area
Curve type: RF ✓



Compound name: Perchlorate-101
Response Factor: 14962.9
RRF SD: 535.272, % Relative SD: 3.57732
Response type: External Std, Area
Curve type: RF ✓



03-03-10

03/04/10

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
 Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

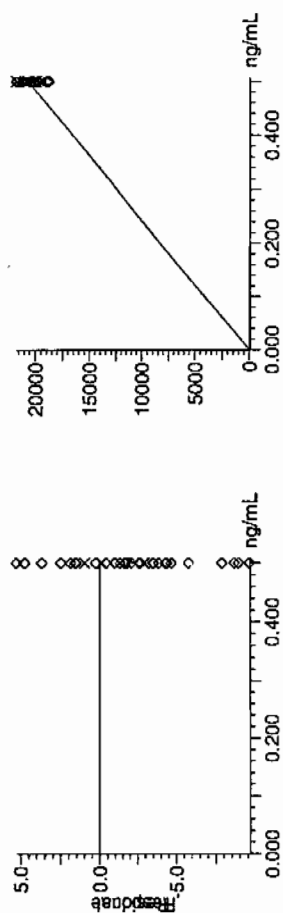
Compound name: Perchlorate-O(18)

Response Factor: 41339.9

RRF SD: 1355.58, % Relative SD: 3.2791

Response type: External Std, Area

Curve type: RF



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1752

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.53	105.07	02-MAR-10 20:18	per0302009a
Perchlorate Isotope Ratio		3.28		02-MAR-10 20:18	per0302009a
Perchlorate-101	.5	.51	101.23	02-MAR-10 20:18	per0302009a

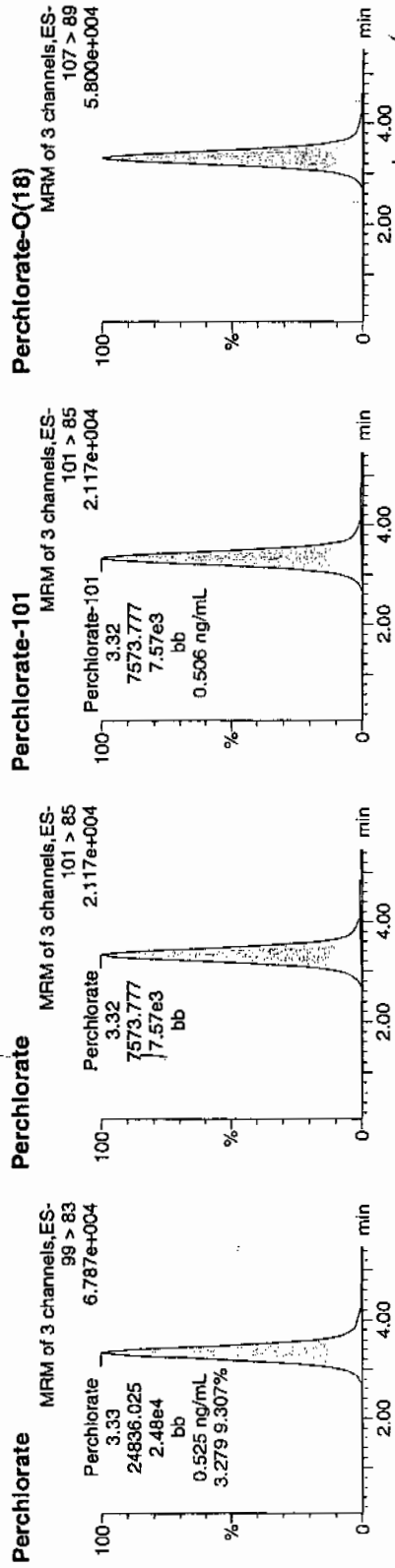
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302009a
Date: 02-Mar-2010
Time: 20:18:36
ID: WCL100227-06ICV
Vial: 1:2,A

Pure
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06ICV	Perchlorate	99 > 83	3.33	24836.025	24836.025	bb			0.5254	105.07	5.07	6944.7...	3.28
WCL100227-06ICV	Perchlorate-101	101 > 85	3.32	7573.777	7573.777	bb			0.5062	101.23	1.23	493.887	
WCL100227-06ICV	Perchlorate-O(18)	107 > 89	3.32	20722.873	20722.873	bb			0.5013	100.26	0.26	1599.5...	

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1759

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.51	101.48	02-MAR-10 22:01	per0302021a
Perchlorate Isotope Ratio		3.08		02-MAR-10 22:01	per0302021a
Perchlorate-101	.5	.52	104.12	02-MAR-10 22:01	per0302021a
Perchlorate	.5	.51	102.33	02-MAR-10 23:35	per0302032a
Perchlorate Isotope Ratio		3.17		02-MAR-10 23:35	per0302032a
Perchlorate-101	.5	.51	102	02-MAR-10 23:35	per0302032a
Perchlorate	.5	.53	106.95	03-MAR-10 01:09	per0302043a
Perchlorate Isotope Ratio		3.08		03-MAR-10 01:09	per0302043a
Perchlorate-101	.5	.55	109.69	03-MAR-10 01:09	per0302043a
Perchlorate	.5	.52	104.6	03-MAR-10 02:53	per0302055a
Perchlorate Isotope Ratio		3.23		03-MAR-10 02:53	per0302055a
Perchlorate-101	.5	.51	102.21	03-MAR-10 02:53	per0302055a
Perchlorate	.5	.52	104.28	03-MAR-10 04:27	per0302066a

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1759

Lab Code: GEL

Reporting Units: µg/L

Perchlorate Isotope Ratio		3.12		03-MAR-10 04:27	per0302066a
Perchlorate-101	.5	.53	105.61	03-MAR-10 04:27	per0302066a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302021a

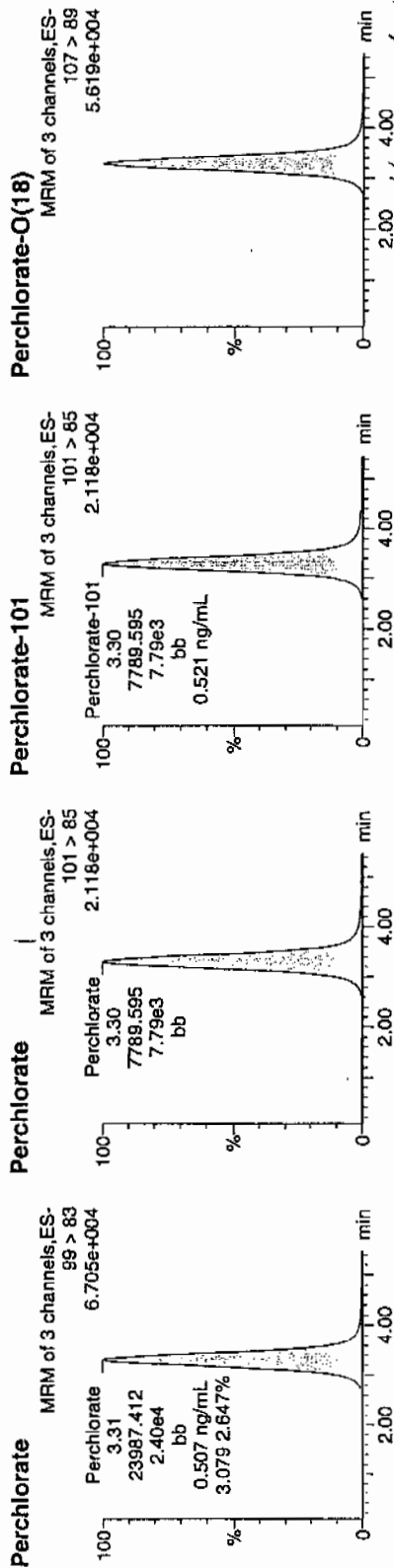
Date: 02-Mar-2010

Time: 22:01:21

ID: WCL100227-06CCV

Vial: 1:2,A

Per
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.31	23987.412	23987.412	bb			0.5074	101.48	1.48	3092.6...	3.08
WCL100227-06CCV	Perchlorate-101	101 > 85	3.30	7789.595	7789.595	bb			0.5206	104.12	4.12	2628.2...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.30	20111.354	20111.354	bb			0.4865	97.30	-2.70	2211.9...	

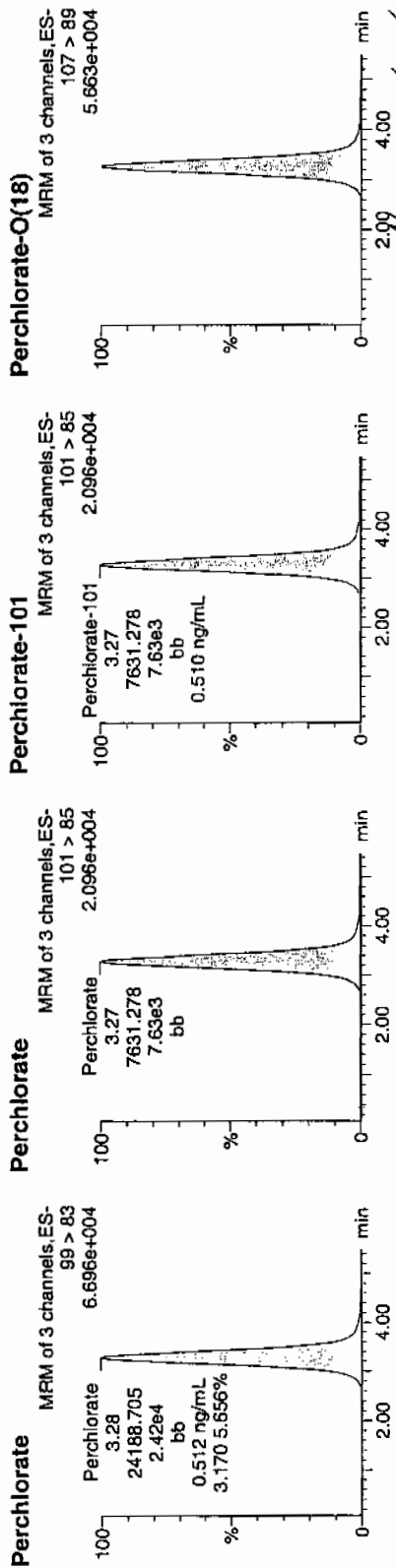
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302032a
Date: 02-Mar-2010
Time: 23:35:42
ID: WCL100227-06CCV
Vial: 1:2,A

Per
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.28	24188.705	24188.705	bb			0.5117	102.33	2.33	2081.0...	3.17
WCL100227-06CCV	Perchlorate-101	101 > 85	3.27	7631.278	7631.278	bb			0.5100	102.00	2.00	1556.0...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.26	20318.123	20318.123	bb			0.4915	98.30	-1.70	3259.1...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qid

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302043a

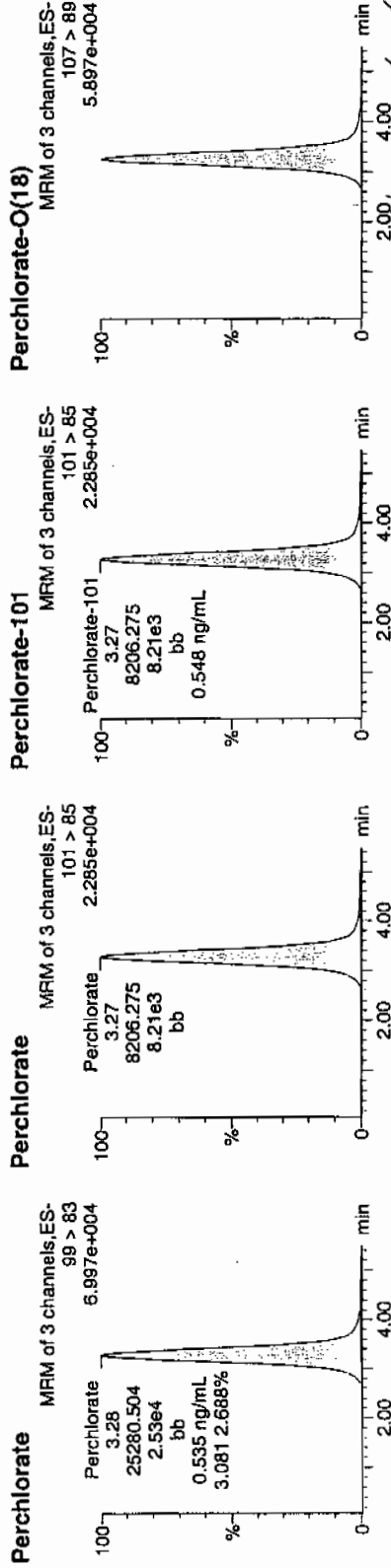
Date: 03-Mar-2010

Time: 01:09:59

ID: WCL100227-06CCV

Vial: 1:2,A

Pass
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	IS/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.28	25280.504	25280.504	bb			0.5348	106.95	6.95	6291.7...	3.08
WCL100227-06CCV	Perchlorate-101	101 > 85	3.27	8206.275	8206.275	bb			0.5484	109.69	9.69	619.329	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.26	21172.732	21172.732	bb			0.5122	102.43	2.43	2143.8...	

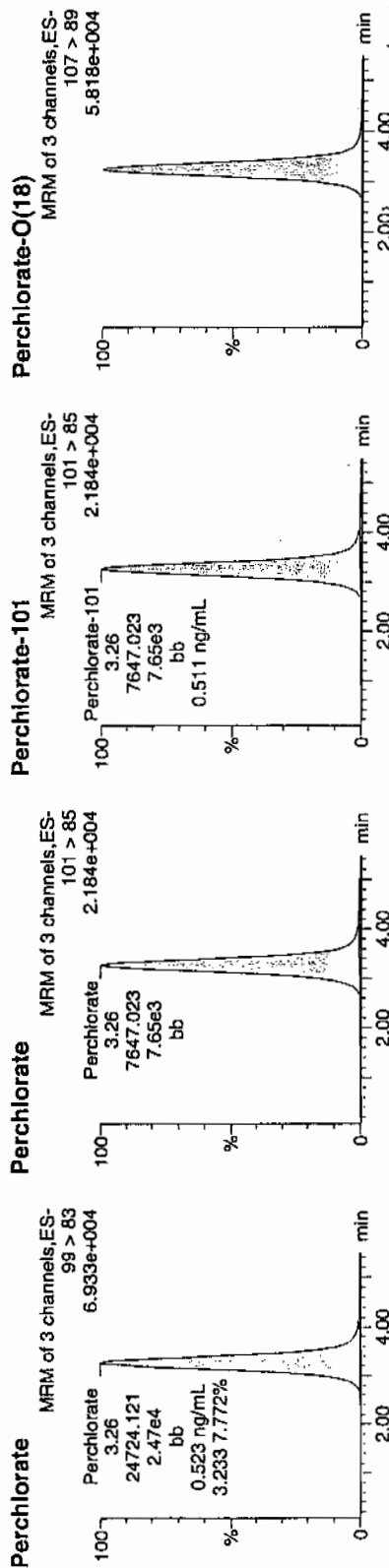
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302055a
Date: 03-Mar-2010
Time: 02:53:10
ID: WCL100227-06CCV
Vial: 1:2,A

*per
03-03-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Int Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.26	24724.121	24724.121	bb			0.5230	104.60	4.60	8008.6...	3.23
WCL100227-06CCV	Perchlorate-101	101 > 85	3.26	7647.023	7647.023	bb			0.5111	102.21	2.21	1442.5...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.25	20394.801	20394.801	bb			0.4933	98.67	-1.33	943.650	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time

Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302066a

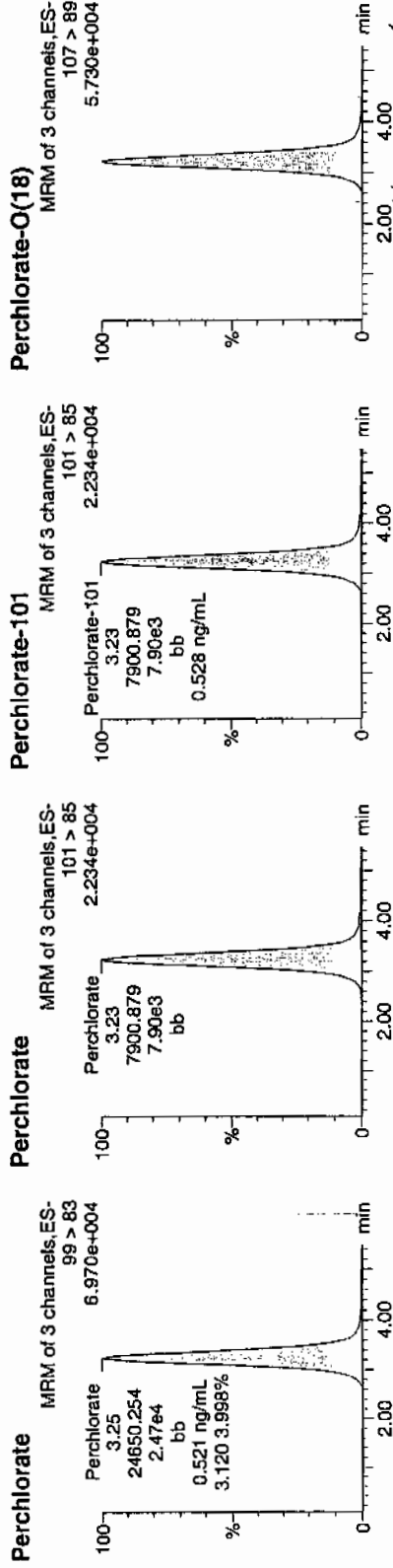
Date: 03-Mar-2010

Time: 04:27:35

ID: WCL100227-06CCV

Vial: 1:2,A

Per
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.25	24650.254	24650.254	bb			0.5214	104.28	4.28	3773.9...	3.12
WCL100227-06CCV	Perchlorate-101	101 > 85	3.23	7900.879	7900.879	bb			0.5280	105.61	5.61	523.556	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.23	20334.051	20334.051	bb			0.4919	98.37	-1.63	3632.5...	

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1752

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	101.22	02-MAR-10 20:35	per0302011a
Perchlorate Isotope Ratio		3.24		02-MAR-10 20:35	per0302011a
Perchlorate-101	.05	.05	98.76	02-MAR-10 20:35	per0302011a
Perchlorate	.05	.05	92.01	02-MAR-10 22:18	per0302023a
Perchlorate Isotope Ratio		2.9		02-MAR-10 22:18	per0302023a
Perchlorate-101	.05	.05	100.13	02-MAR-10 22:18	per0302023a
Perchlorate	.05	.05	103.15	02-MAR-10 23:52	per0302034a
Perchlorate Isotope Ratio		3.34		02-MAR-10 23:52	per0302034a
Perchlorate-101	.05	.05	97.56	02-MAR-10 23:52	per0302034a
Perchlorate	.05	.05	96.56	03-MAR-10 01:27	per0302045a
Perchlorate Isotope Ratio		2.88		03-MAR-10 01:27	per0302045a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1759

Lab Code: GEL

Reporting Units: ug/L

Perchlorate-101	.05	.05	105.83	03-MAR-10 01:27	per0302045a
Perchlorate	.05	.05	98.34	03-MAR-10 03:10	per0302057a
Perchlorate Isotope Ratio		3.17		03-MAR-10 03:10	per0302057a
Perchlorate-101	.05	.05	97.96	03-MAR-10 03:10	per0302057a
Perchlorate	.05	.05	92.68	03-MAR-10 04:45	per0302068a
Perchlorate Isotope Ratio		3.03		03-MAR-10 04:45	per0302068a
Perchlorate-101	.05	.05	96.57	03-MAR-10 04:45	per0302068a

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302011a

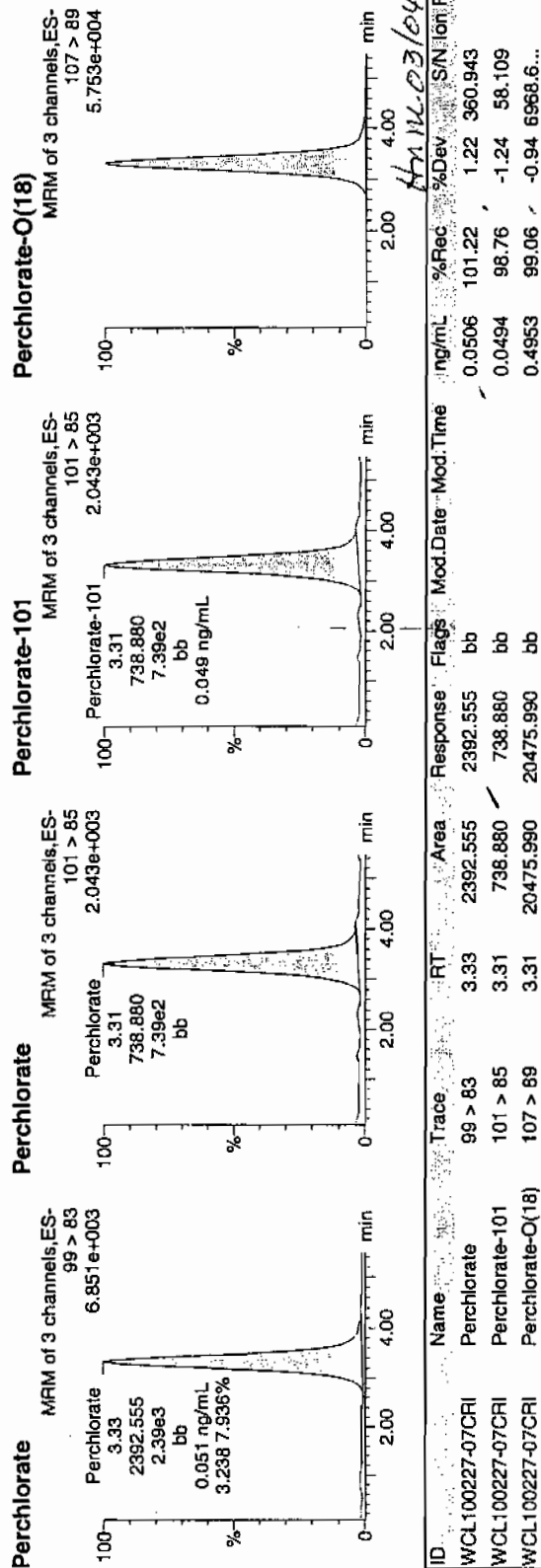
Date: 02-Mar-2010

Time: 20:35:41

ID: WCL100227-07CRI

Vial: 1:2,B

03-03-10



MIN 03/04/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302023a

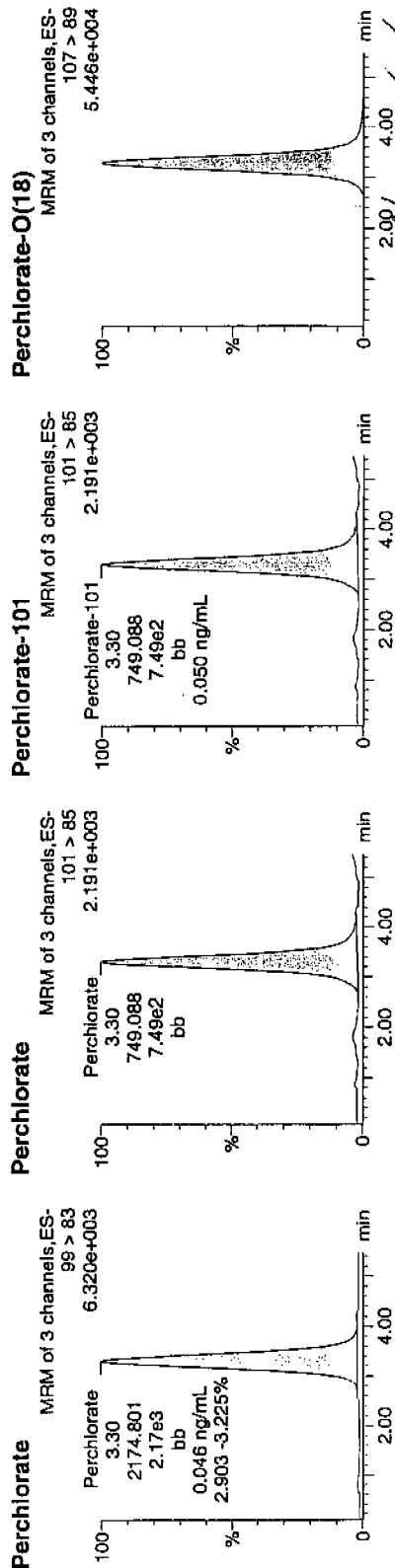
Date: 02-Mar-2010

Time: 22:18:34

ID: WCL100227-07CRI

Vial: 1:2,B

Pure
0.050 ng/mL



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.30	2174.801	2174.801	bb			0.0460	92.01	-7.99	131.967	2.90
WCL100227-07CRI	Perchlorate-101	101 > 85	3.30	749.088	749.088	bb			0.0501	100.13	0.13	422.280	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.28	19759.566	19759.566	bb			0.4780	95.60	-4.40	1176.9...	

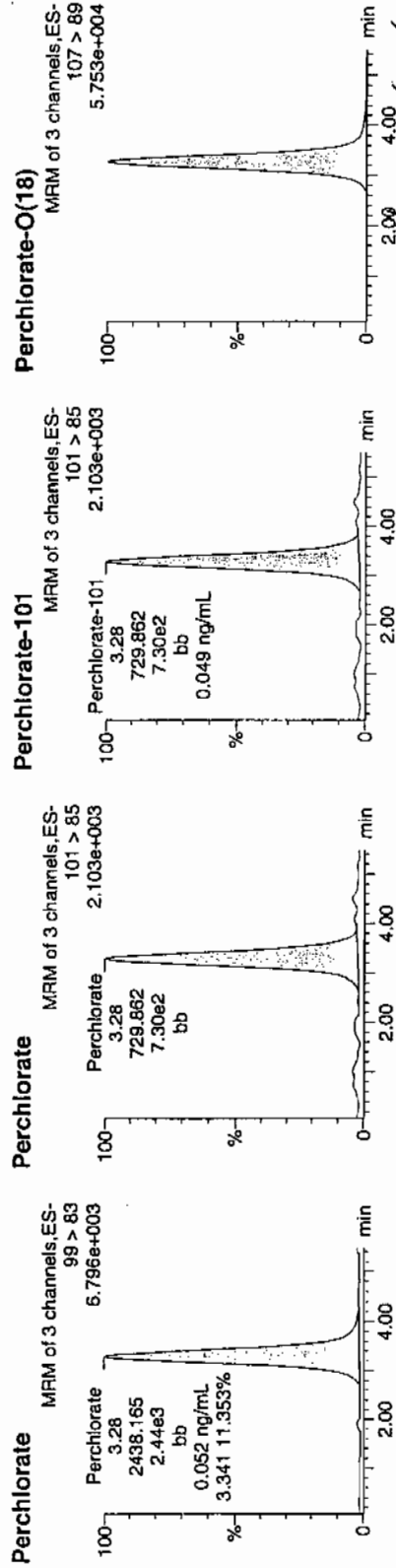
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302034a
Date: 02-Mar-2010
Time: 23:52:47
ID: WCL100227-07CRI
Vial: 1:2,B

*Rep
WCL
03-03-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.28	2438.165	2438.165	bb			0.0516	103.15	3.15	340.964	3.34
WCL100227-07CRI	Perchlorate-101	101 > 85	3.28	729.862	729.862	bb			0.0488	97.56	-2.44	191.841	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.27	20457.936	20457.936	bb			0.4949	98.97	-1.03	5383.4...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
 Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

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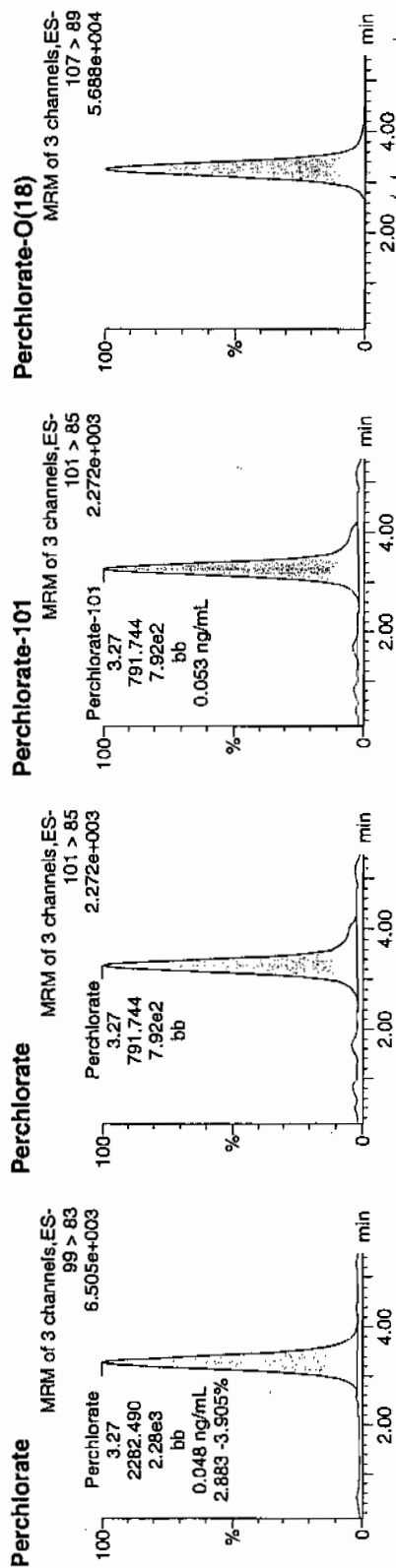
Date: 03-Mar-2010

Time: 01:27:19

ID: WCL100227-07CRI

Vial: 1;2,B

Pure
 6m2
 03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.27	2282.490	2282.490	bb			0.0483	96.56	-3.44	169.558	2.88
WCL100227-07CRI	Perchlorate-101	101 > 85	3.27	791.744	791.744	bb			0.0529	105.83	5.83	68.274	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.26	20309.963	20309.963	bb			0.4913	98.26	-1.74	694.300	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qid

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

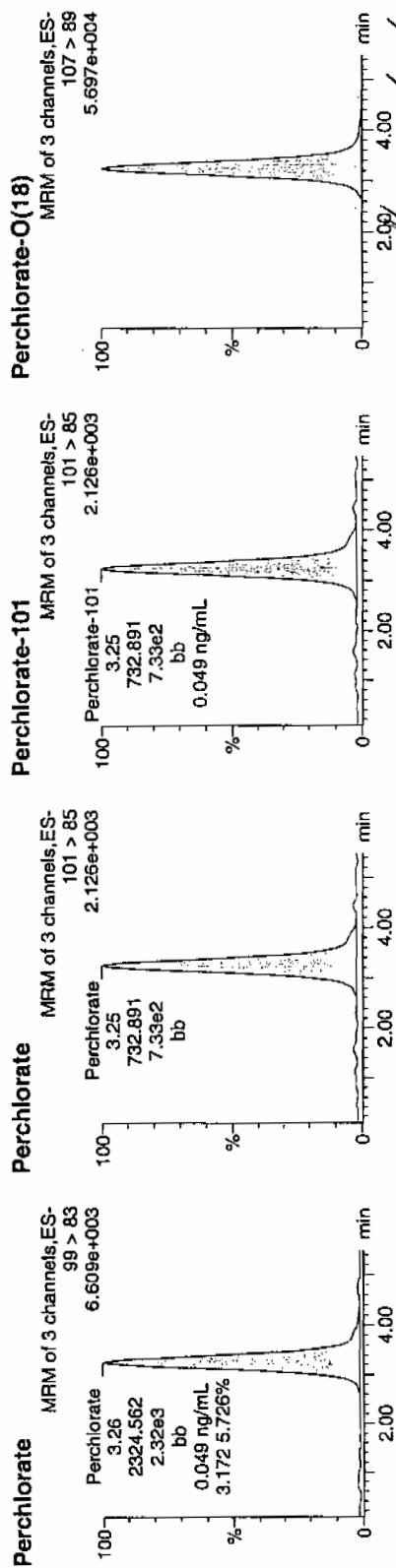
Name: per0302057a

Date: 03-Mar-2010

Time: 03:10:29

ID: WCL100227-07CRI

Vial: 1:2,B



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.26	2324.562	2324.562	bb			0.0492	98.34	-1.86	781.615	3.17
WCL100227-07CRI	Perchlorate-101	101 > 85	3.25	732.891	732.891	bb			0.0490	97.96	-2.04	63.687	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.25	20135.375	20135.375	bb			0.4871	97.41	-2.59	1451.5...	

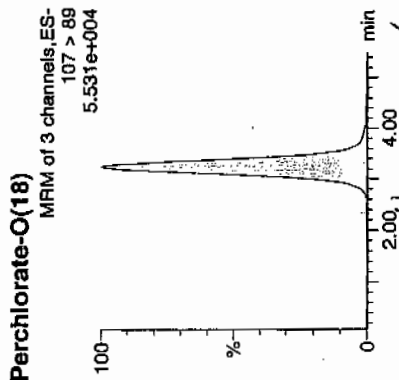
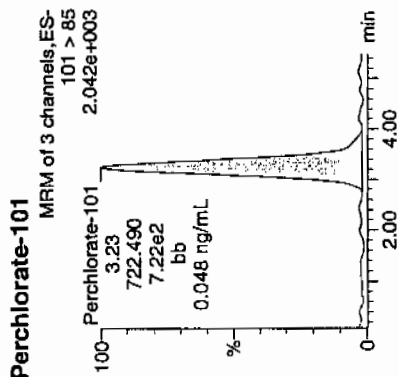
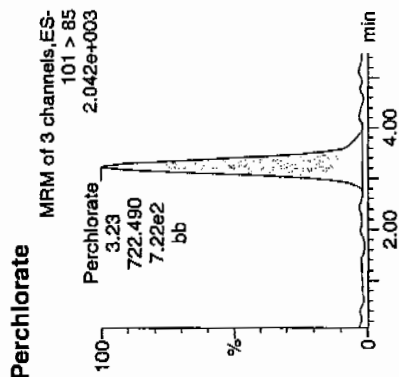
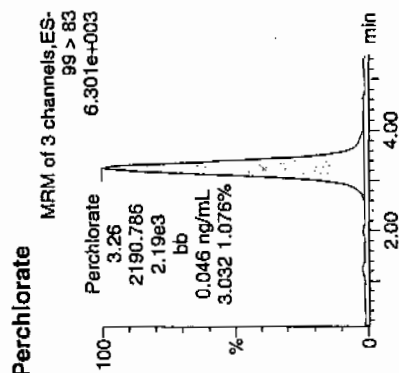
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302068a
Date: 03-Mar-2010
Time: 04:45:01
ID: WCL100227-07CRI
Vial: 1:2,B

Per
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.26	2190.786	2190.786	bb			0.0463	92.68	-7.32	121.827	3.03
WCL100227-07CRI	Perchlorate-101	101 > 85	3.23	722.490	722.490	bb			0.0483	96.57	-3.43	261.092	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.23	19786.176	19786.176	bb			0.4786	95.72	-4.28	5949.0...	

Ann 03/04/10

QUALITY CONTROL

Perchlorate Analysis Data Sheet

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

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: GROUND WATER
 Extraction Batch ID: 959703
 Extraction Type: Filter/DAI

Client Sample No. MB
 Date Received: 02-MAR-10
 GEL Job No (SDG): 10-1759
 GEL Sample ID: 1202058256
 Date Filtered: 02-MAR-10
 Injection Volume (uL): 20

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

%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	03-MAR-10 01:35	per0302046a
	Perchlorate Isotope Ratio						1	03-MAR-10 01:35	per0302046a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	03-MAR-10 01:35	per0302046a
	Perchlorate-O(18)			0.475	ug/L		1	03-MAR-10 01:35	per0302046a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

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

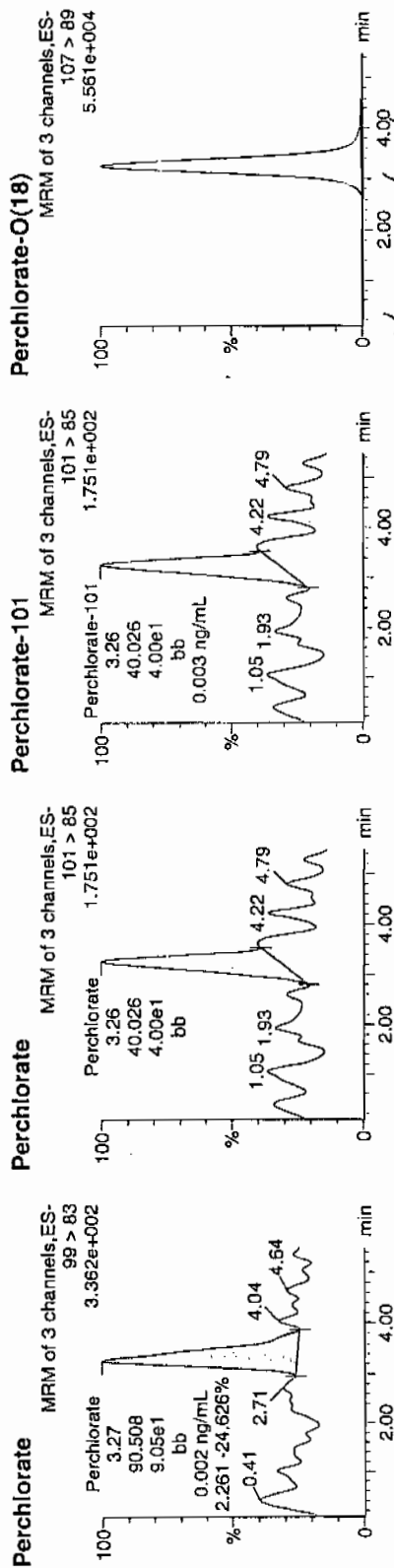
Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302046a
Date: 03-Mar-2010
Time: 01:35:53
ID: 1202058256
Vial: 2:1,A

03-03-10

1202058256 | 954704 | L22 | MO | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202058256	Perchlorate	99 > 83	3.27	90.508	90.508	bb			0.0019			29.803	2.26
1202058256	Perchlorate-101	101 > 85	3.26	40.026	40.026	bb			0.0027			6.439	
1202058256	Perchlorate-O(18)	107 > 89	3.26	19628.008	19628.008	bb			0.4748	94.96	-5.04	2775.5...	

Perchlorate Analysis Data Sheet

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

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: GROUND WATER

Extraction Batch ID: 959703

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

LCS

Date Received: 02-MAR-10

GEL Job No (SDG): 10-1759

GEL Sample ID: 1202058257

Date Filtered: 02-MAR-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.211	ug/L		1	03-MAR-10 01:44	per0302047a
	Perchlorate Isotope Ratio			3.03			1	03-MAR-10 01:44	per0302047a
14797-73-0	Perchlorate-101	.05	.2	0.220	ug/L		1	03-MAR-10 01:44	per0302047a
	Perchlorate-O(18)			0.509	ug/L		1	03-MAR-10 01:44	per0302047a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302047a

Date: 03-Mar-2010

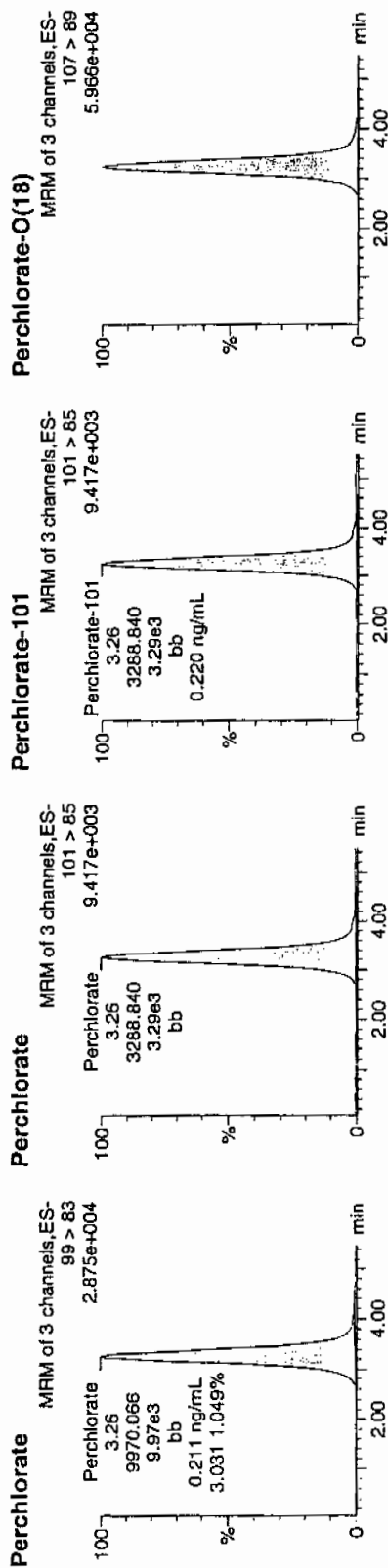
Time: 01:44:44

ID: 1202058257

Vial: 2:1,B

03-03-10

Law | 954704 | L22 | L25 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202058257	Perchlorate	99 > 83	3.26	9970.066	9970.066	bb			0.2109	105.45	5.45	1551.3...	3.03
1202058257	Perchlorate-101	101 > 85	3.26	3288.840	3288.840	bb			0.2198	109.90	9.90	776.757	
1202058257	Perchlorate-O(18)	107 > 89	3.25	21050.506	21050.506	bb			0.5092	101.84	1.84	1823.3...	

$$\frac{9970.066}{47275} = 0.2109$$

47275
03/04/10

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: 959703 Verified by: _____ Lab SOP: GL-OA-E-067 REV# 6
 Analyst: Charles Wilson Instrument: MicroMass Quattro Ultima
 Method: SW846 6850 Modified

Sample ID	Run Date	Initial Volume (mL)	Final Volume (mL)	Prepped Factor (mL/mL)
1202058256 MB	02-MAR-2010 11:25:00	10	10	1
1202058257 LCS	02-MAR-2010 11:25:00	10	10	1
246574002 - 2	02-MAR-2010 11:25:00	10	10	1
246598002 - 2	02-MAR-2010 11:25:00	10	10	1
246690002 - 2	02-MAR-2010 11:25:00	10	10	1
1202058258 - 2 MS (246690002)	02-MAR-2010 11:25:00	10	10	1
1202058259 - 2 MSD (246690002)	02-MAR-2010 11:25:00	10	10	1
246690003 - 2	02-MAR-2010 11:25:00	10	10	1
246853001 - 2	02-MAR-2010 11:25:00	10	10	1
246860001 - 2	02-MAR-2010 11:25:00	10	10	1
246862001 - 2	02-MAR-2010 11:25:00	10	10	1
246871001 - 2	02-MAR-2010 11:25:00	10	10	1
246877001 - 2	02-MAR-2010 11:25:00	10	10	1
246877004 - 2	02-MAR-2010 11:25:00	10	10	1
246882001 - 2	02-MAR-2010 11:25:00	10	10	1
246882002 - 2	02-MAR-2010 11:25:00	10	10	1
246883001 - 2	02-MAR-2010 11:25:00	10	10	1
1202058260 - 2 MS (246883001)	02-MAR-2010 11:25:00	10	10	1
1202058261 - 2 MSD (246883001)	02-MAR-2010 11:25:00	10	10	1
246883002 - 2	02-MAR-2010 11:25:00	10	10	1
246883003 - 2	02-MAR-2010 11:25:00	10	10	1
246883004 - 2	02-MAR-2010 11:25:00	10	10	1
246886002 - 2	02-MAR-2010 11:25:00	10	10	1
246886004 - 2	02-MAR-2010 11:25:00	10	10	1
1202058263 LCS	02-MAR-2010 11:25:00	10	10	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
ICS	1202058262	10 ug/L ICV/CCV Second Source	UCL100210-02.2	.2	mL	desalting cartridges used: 100209-1-Ba & 100217-1-H
LCS	1202058257	10 ug/L ICV/CCV Second Source	UCL100210-02.2	.2	mL	
MS	1202058258	10 ug/L ICV/CCV Second Source	UCL100210-02.2	.2	mL	
MS	1202058260	10 ug/L ICV/CCV Second Source	UCL100210-02.2	.2	mL	
MSD	1202058259	10 ug/L ICV/CCV Second Source	UCL100210-02.2	.2	mL	
MSD	1202058261	10 ug/L ICV/CCV Second Source	UCL100210-02.2	.2	mL	
RGNT	All	500 ppm Carbonate, Bicarbonate, Chloride, Sulfate	1267890	10	mL	
RGNT	All	O2SI HPLC Grade Water	1271949	10	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/02/10
Extr. Injection Volume: 20ul
Sequence Number: per030210a
Initial Calibration Date: 03/02/10

Method: EPA 6850-Modified
Int. Std.: UCL100126-01
Mobile Phase Lot#: 1269535, 1271949
Standard-Samp Reagent Lot#: 1271949

Reviewed BY: *thm*
Date: *03/04/10*
SOP: GL-OA-E-067 Rev.6
Alt Check Std. ID: WCL100227-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0302001a	IPB001	CWW	3/2/2010 19:10			1		USE	B
per0302002a	IPB001	CWW	3/2/2010 19:18			1		USE	B
per0302003a	WCLICAL-01	CWW	3/2/2010 19:27			1		USE	I
per0302004a	WCLICAL-02	CWW	3/2/2010 19:35			1		USE	I
per0302005a	WCLICAL-03	CWW	3/2/2010 19:44			1		USE	I
per0302006a	WCLICAL-04	CWW	3/2/2010 19:53			1		USE	I
per0302007a	WCLICAL-05	CWW	3/2/2010 20:01			1		USE	I
per0302008a	IPB002	CWW	3/2/2010 20:10			1		USE	B
per0302009a	WCLICV	CWW	3/2/2010 20:18			1		USE	C
per0302010a	IPB003	CWW	3/2/2010 20:27			1		USE	B
per0302011a	WCLCRI	CWW	3/2/2010 20:35			1		USE	C
per0302012a	1202042225	CWW	3/2/2010 20:44	952820	VARIOUS	1	LANL	USE	S
per0302013a	1202042226	CWW	3/2/2010 20:52	952820	VARIOUS	1	LANL	USE	S
per0302014a	1202042229	CWW	3/2/2010 21:01	952820	VARIOUS	1	LANL	USE	S
per0302015a	246325001	CWW	3/2/2010 21:10	952820	10-1603	1	LANL	USE	S
per0302016a	246325002	CWW	3/2/2010 21:18	952820	10-1603	1	LANL	USE	S
per0302017a	246325003	CWW	3/2/2010 21:27	952820	10-1603	1	LANL	USE	S
per0302018a	246325004	CWW	3/2/2010 21:35	952820	10-1603	1	LANL	USE	S
per0302019a	246325005	CWW	3/2/2010 21:44	952820	10-1603	1	LANL	USE	S
per0302020a	246325006	CWW	3/2/2010 21:52	952820	10-1603	1	LANL	USE	S
per0302021a	WCLCCV	CWW	3/2/2010 22:01			1		USE	C
per0302022a	IPB004	CWW	3/2/2010 22:09			1		USE	B
per0302023a	WCLCRI	CWW	3/2/2010 22:18			1		USE	C
per0302024a	246437001	CWW	3/2/2010 22:27	952820	10-1621-1	1	LANL	USE	S
per0302025a	1202042227	CWW	3/2/2010 22:35	952820	10-1621-1	1	LANL	USE	S
per0302026a	1202042228	CWW	3/2/2010 22:44	952820	10-1621-1	1	LANL	USE	S
per0302027a	246437002	CWW	3/2/2010 22:52	952820	10-1621-1	1	LANL	USE	S
per0302028a	246437003	CWW	3/2/2010 23:01	952820	10-1621-1	1	LANL	USE	S
per0302029a	246437004	CWW	3/2/2010 23:10	952820	10-1621-1	1	LANL	USE	S

per0302030a	246437005	CWW	3/2/2010 23:18	952820	10-1621-1	1	LANL	USE	S
per0302031a	246437006	CWW	3/2/2010 23:27	952820	10-1621-1	1	LANL	USE	S
per0302032a	WCLCCV	CWW	3/2/2010 23:35			1		USE	C
per0302033a	IPB005	CWW	3/2/2010 23:44			1		USE	B
per0302034a	WCLCRI	CWW	3/2/2010 23:52			1		USE	C
per0302035a	246437007	CWW	3/3/2010 0:01	952820	10-1621-1	1	LANL	USE	S
per0302036a	246437008	CWW	3/3/2010 0:09	952820	10-1621-1	1	LANL	USE	S
per0302037a	246437009	CWW	3/3/2010 0:18	952820	10-1621-1	1	LANL	USE	S
per0302038a	246437010	CWW	3/3/2010 0:27	952820	10-1621-1	1	LANL	USE	S
per0302039a	246437011	CWW	3/3/2010 0:35	952820	10-1621-1	1	LANL	USE	S
per0302040a	246437012	CWW	3/3/2010 0:44	952820	10-1621-1	1	LANL	USE	S
per0302041a	246437013	CWW	3/3/2010 0:52	952820	10-1621-1	1	LANL	USE	S
per0302042a	246437014	CWW	3/3/2010 1:01	952820	10-1621-1	1	LANL	USE	S
per0302043a	WCLCCV	CWW	3/3/2010 1:09			1		USE	C
per0302044a	IPB006	CWW	3/3/2010 1:18			1		USE	B
per0302045a	WCLCRI	CWW	3/3/2010 1:27			1		USE	C
per0302046a	1202058256	CWW	3/3/2010 1:35	959704	VARIOUS	1	LANL	USE	S
per0302047a	1202058257	CWW	3/3/2010 1:44	959704	VARIOUS	1	LANL	USE	S
per0302048a	1202058262	CWW	3/3/2010 1:53	959704	VARIOUS	1	LANL	USE	S
per0302049a	246574002	CWW	3/3/2010 2:01	959704	10-1679	2	LANL	USE	S
per0302050a	246598002	CWW	3/3/2010 2:10	959704	10-1696	2	LANL	USE	S
per0302051a	246690002	CWW	3/3/2010 2:18	959704	10-1722	1	LANL	USE	S
per0302052a	1202058258	CWW	3/3/2010 2:27	959704	10-1722	1	LANL	USE	S
per0302053a	1202058259	CWW	3/3/2010 2:36	959704	10-1722	1	LANL	USE	S
per0302054a	246690003	CWW	3/3/2010 2:44	959704	10-1722	1	LANL	USE	S
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per0302056a	IPB007	CWW	3/3/2010 3:01			1		USE	B
per0302057a	WCLCRI	CWW	3/3/2010 3:10			1		USE	C
per0302058a	246853001	CWW	3/3/2010 3:19	959704	10-1753	1	LANL	USE	S
per0302059a	246860001	CWW	3/3/2010 3:27	959704	10-1756	1	LANL	USE	S
per0302060a	246862001	CWW	3/3/2010 3:36	959704	10-1780	1	LANL	USE	S
per0302061a	246871001	CWW	3/3/2010 3:44	959704	10-1759	1	LANL	USE	S
per0302062a	246877001	CWW	3/3/2010 3:53	959704	10-1774	1	LANL	USE	S
per0302063a	246877004	CWW	3/3/2010 4:01	959704	10-1774	2	LANL	USE	S
per0302064a	246882001	CWW	3/3/2010 4:10	959704	10-1770	1	LANL	USE	S
per0302065a	246882002	CWW	3/3/2010 4:19	959704	10-1770	1	LANL	USE	S
per0302066a	WCLCCV	CWW	3/3/2010 4:27			1		USE	C

per0302067a	IPB008	CWW	3/3/2010 4:36	1		USE
per0302068a	WCLCRI	CWW	3/3/2010 4:45	1		USE
per0302069a	246883001	CWW	3/3/2010 4:53	1	LANL	USE
per0302070a	1202058260	CWW	3/3/2010 5:02	1	LANL	USE
per0302071a	1202058261	CWW	3/3/2010 5:10	1	LANL	USE
per0302072a	246883002	CWW	3/3/2010 5:19	1	LANL	USE
per0302073a	246883003	CWW	3/3/2010 5:28	1	LANL	USE
per0302074a	246883004	CWW	3/3/2010 5:36	1	LANL	USE
per0302075a	246886002	CWW	3/3/2010 5:45	1	LANL	USE
per0302076a	246886004	CWW	3/3/2010 5:53	1	LANL	USE
per0302077a	WCLCCV	CWW	3/3/2010 6:02	1		USE
per0302078a	IPB009	CWW	3/3/2010 6:11	1		USE
per0302079a	WCLCRI	CWW	3/3/2010 6:19	1		USE
per0302080a	1202054199	CWW	3/3/2010 6:28	1	LANL	USE
per0302081a	1202054200	CWW	3/3/2010 6:37	1	LANL	USE
per0302082a	1202054203	CWW	3/3/2010 6:45	1	LANL	USE
per0302083a	247347001	CWW	3/3/2010 6:54	1	LANL	USE
per0302084a	247347002	CWW	3/3/2010 7:02	1	LANL	USE
per0302085a	1202054201	CWW	3/3/2010 7:11	1	LANL	USE
per0302086a	1202054202	CWW	3/3/2010 7:19	1	LANL	USE
per0302087a	247347003	CWW	3/3/2010 7:28	1	LANL	USE
per0302088a	247347004	CWW	3/3/2010 7:37	1	LANL	USE
per0302089a	WCLCCV	CWW	3/3/2010 7:45	1		USE
per0302090a	IPB010	CWW	3/3/2010 7:54	1		USE
per0302091a	WCLCRI	CWW	3/3/2010 8:02	1		USE
per0302092a	247347005	CWW	3/3/2010 8:11	1	LANL	USE
per0302093a	247347006	CWW	3/3/2010 8:20	1	LANL	USE
per0302094a	247347007	CWW	3/3/2010 8:28	1	LANL	USE
per0302095a	247347008	CWW	3/3/2010 8:37	1	LANL	USE
per0302096a	247359001	CWW	3/3/2010 8:45	1	LANL	USE
per0302097a	247359002	CWW	3/3/2010 8:54	1	LANL	USE
per0302098a	247359003	CWW	3/3/2010 9:03	1	LANL	USE
per0302099a	247359004	CWW	3/3/2010 9:11	1	LANL	USE
per0302100a	WCLCCV	CWW	3/3/2010 9:20	1		USE
per0302101a	IPB011	CWW	3/3/2010 9:29	1		USE
per0302102a	WCLCRI	CWW	3/3/2010 9:37	1		USE
per0302103a	247463001	CWW	3/3/2010 9:46	1	LANL	USE

per0302104a	247463002	CWW	3/3/2010 9:55	957929	10-1941	1	LANL	USE	S
per0302105a	247463003	CWW	3/3/2010 10:03	957929	10-1941	1	LANL	USE	S
per0302106a	247463004	CWW	3/3/2010 10:12	957929	10-1941	1	LANL	USE	S
per0302107a	247463005	CWW	3/3/2010 10:20	957929	10-1941	1	LANL	USE	S
per0302108a	247463006	CWW	3/3/2010 10:29	957929	10-1941	1	LANL	USE	S
per0302109a	247784002	CWW	3/3/2010 10:37	957929	10-1979	1	LANL	USE	S
per0302110a	247855002	CWW	3/3/2010 10:46	957929	10-1978	1	LANL	USE	S
per0302111a	WCLCCV	CWW	3/3/2010 10:54			1		USE	C
per0302112a	IPB012	CWW	3/3/2010 11:03			1		USE	B
per0302113a	WCLCRI	CWW	3/3/2010 11:12			1		USE	C

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302070a

Date: 03-Mar-2010

Time: 05:02:24

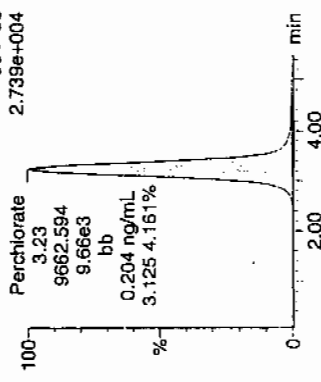
ID: 1202058260

Vial: 2:4.A

LOW 1957704 | 22 | MS | 11
03-03-10

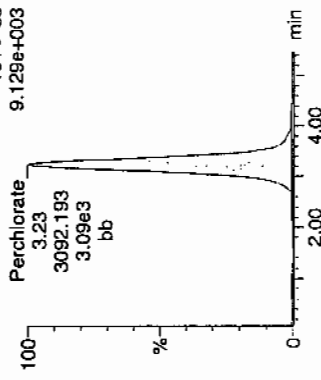
Perchlorate

MRM of 3 channels, ES-
99 > 83



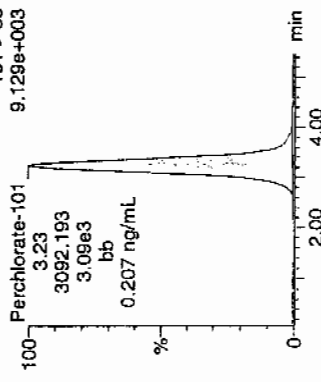
Perchlorate

MRM of 3 channels, ES-
101 > 85



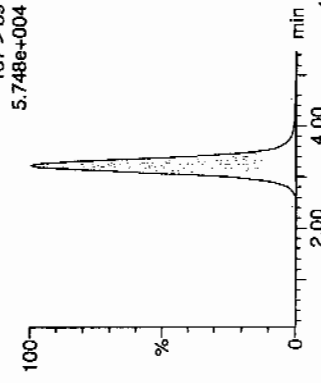
Perchlorate-101

MRM of 3 channels, ES-
101 > 85



Perchlorate-O(18)

MRM of 3 channels, ES-
107 > 89



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202058260	Perchlorate	99 > 83	3.23	9662.594	9662.594	bb			0.2044	102.20	2.20	1113.3...	3.12
1202058260	Perchlorate-101	101 > 85	3.23	3092.193	3092.193	bb			0.2067	103.33	3.33	1174.1...	
1202058260	Perchlorate-O(18)	107 > 89	3.22	20240.430	20240.430	bb			0.4896	97.92	-2.08	5031.4...	

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

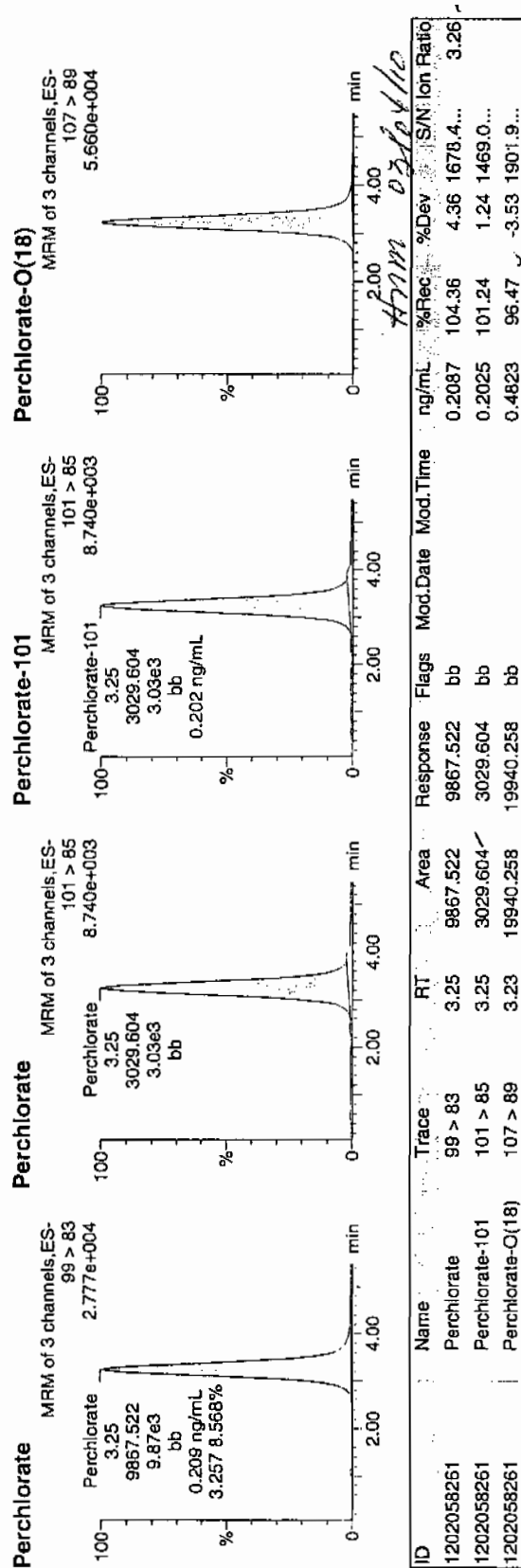
Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302071a
Date: 03-Mar-2010
Time: 05:10:57
ID: 1202058261
Vial: 2:4,B

03-03-10

1202058261 | 954704 | 1202058261 | 11



Isotope Ratio Criteria

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

2.31-3.85

Tune Criteria

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

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-1759-1**

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: 953005

Prep Batch Number: 953004

Sample Analysis

Sample ID	Client ID
246872001	RE15-10-8366
246872002	RE15-10-8367
246872003	RE15-10-8364
246872004	RE15-10-8365
246872005	RE15-10-8368
246872006	RE15-10-8340
246872007	RE15-10-8341
246872008	RE15-10-8376
1202042700	Interference Check Sample (ICS)
1202042696	Method Blank (MB)
1202042697	Laboratory Control Sample (LCS)
1202042698	246861002(RE16-10-3205) Matrix Spike (MS)
1202042699	246861002(RE16-10-3205) 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.

10-1759-1-PERLCMS

Page 1 of 4

CCV Requirements

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

CCB Requirements

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

CCV Requirements

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

Low Level Standard (CRI) Requirements

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

Quality Control (QC) Information**Method Blank (MB) Statement**

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

Interference Check Sample (ICS)

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Client sample 246861002 (RE16-10-3205) from SDG 10-1756-1 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: Heber M. Mauer Date: 03/05/10

SAMPLE DATA SUMMARY

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 953004
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-8366
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872001
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 %Solids: 82

Concentrated Extract Volume: 20.0

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	02-MAR-10 01:04	per0301087a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:04	per0301087a
14797-73-0	Perchlorate-101	.61	2.44	0.610	ug/kg	U	1	02-MAR-10 01:04	per0301087a
	Perchlorate-O(18)			5.73	ug/kg		1	02-MAR-10 01:04	per0301087a

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

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

Perchlorate Analysis Data Sheet

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Lab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSMethod: SW846 6850 ModifiedMatrix: SOILExtraction Batch ID: 953004Extraction Type: Solid PrepSample Volume/Weight: 2.00 gConcentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8367Date Received: 11-FEB-10GEL Job No (SDG): 10-1759-1GEL Sample ID: 246872002Date Filtered: 24-FEB-10Injection Volume (uL): 20%Solids: 81

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.62	2.48	0.620	ug/kg	U	1	02-MAR-10 01:13	per0301088a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:13	per0301088a
14797-73-0	Perchlorate-101	.62	2.48	0.620	ug/kg	U	1	02-MAR-10 01:13	per0301088a
	Perchlorate-Q(18)			6.15	ug/kg		1	02-MAR-10 01:13	per0301088a

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

*Concentration =

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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8364
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872003
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 77

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.651	2.6	0.651	ug/kg	U	1	02-MAR-10 01:21	per0301089a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:21	per0301089a
14797-73-0	Perchlorate-101	.651	2.6	0.651	ug/kg	U	1	02-MAR-10 01:21	per0301089a
	Perchlorate-O(18)			6.63	ug/kg		1	02-MAR-10 01:21	per0301089a

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

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

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: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8365
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872004
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 83

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.602	2.41	0.602	ug/kg	U	1	02-MAR-10 01:30	per0301090a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:30	per0301090a
14797-73-0	Perchlorate-101	.602	2.41	0.602	ug/kg	U	1	02-MAR-10 01:30	per0301090a
	Perchlorate-O(18)			5.91	ug/kg		1	02-MAR-10 01:30	per0301090a

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

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

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: 953004

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8368

Date Received: 11-FEB-10

GEL Job No (SDG): 10-1759-1

GEL Sample ID: 246872005

Date Filtered: 24-FEB-10

Injection Volume (uL): 20

%Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.663	2.65	0.663	ug/kg	U	1	02-MAR-10 01:38	per0301091a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:38	per0301091a
14797-73-0	Perchlorate-101	.663	2.65	0.663	ug/kg	U	1	02-MAR-10 01:38	per0301091a
	Perchlorate-O(18)			6.42	ug/kg		1	02-MAR-10 01:38	per0301091a

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

*Concentration =

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 953004

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8340

Date Received: 11-FEB-10

GEL Job No (SDG): 10-1759-1

GEL Sample ID: 246872006

Date Filtered: 24-FEB-10

Injection Volume (uL): 20

% Solids: 76

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 01:47	per0301092a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:47	per0301092a
14797-73-0	Perchlorate-101	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 01:47	per0301092a
	Perchlorate-O(18)			6.48	ug/kg		1	02-MAR-10 01:47	per0301092a

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

*Concentration =

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

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: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8341
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872007
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 22.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.541	2.16	0.541	ug/kg	U	1	02-MAR-10 02:21	per0301096a
	Perchlorate Isotope Ratio						1	02-MAR-10 02:21	per0301096a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	02-MAR-10 02:21	per0301096a
	Perchlorate-O(18)			4.90	ug/kg		1	02-MAR-10 02:21	per0301096a

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 953004

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8376

Date Received: 11-FEB-10

GEL Job No (SDG): 10-1759-1

GEL Sample ID: 246872008

Date Filtered: 24-FEB-10

Injection Volume (uL): 20

%Solids: 76

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 02:30	per0301097a
	Perchlorate Isotope Ratio						1	02-MAR-10 02:30	per0301097a
14797-73-0	Perchlorate-101	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 02:30	per0301097a
	Perchlorate-O(18)			6.11	ug/kg		1	02-MAR-10 02:30	per0301097a

[^] 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 quantification of Perchlorate.

*Concentration =

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

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL GEL Job No. (SDG): 10-1759-1

Extract Batch Code: 953004 Date Filtered: 24-FEB-10

Matrix: SOIL Sample ID: 1202042697

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.37	ug/kg	119		70 - 130
Perchlorate Isotope Ratio		3.03				-
Perchlorate-101	2.00	2.35	ug/kg	118		70 - 130
Perchlorate-O(18)		5.03	ug/kg			-

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

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1759-1

Extract Batch Code: 953004

Date Filtered: 24-FEB-10

Matrix: SOIL

Sample ID: 1202042700

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.22	ug/kg	111		70 - 130
Perchlorate Isotope Ratio		3.25				
Perchlorate-101	2.00	2.06	ug/kg	103		70 - 130
Perchlorate-O(18)		4.85	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

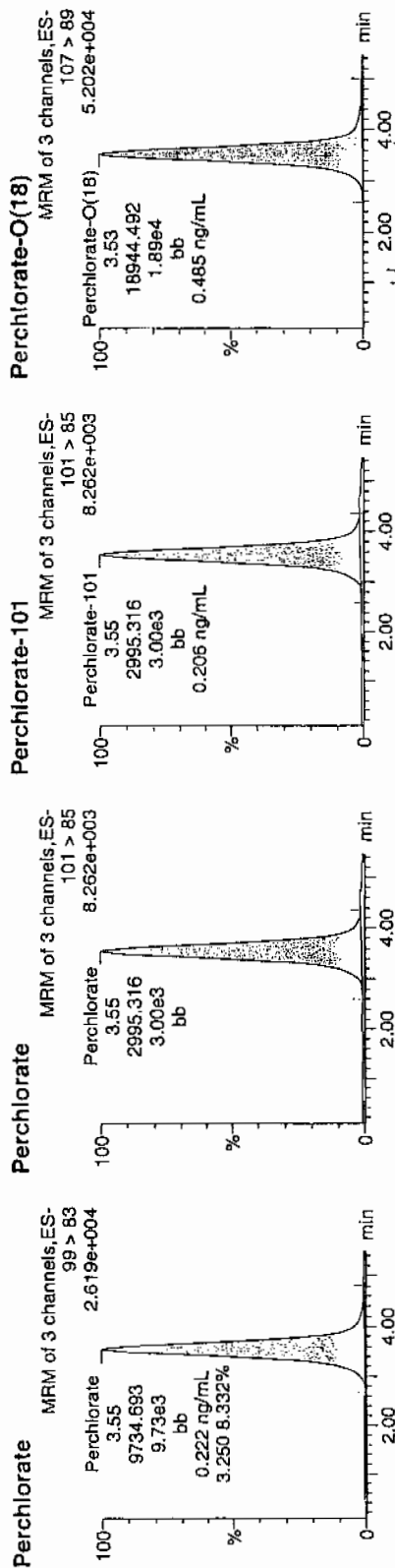
Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301072a
Date: 01-Mar-2010
Time: 22:55:57
ID: 1202042700
Vial: 2:5,E

03-57-10

LANC 953005 | 5070 | 113 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202042700	Perchlorate	99 > 83	3.55	9734.693	9734.693	bb			0.2225	111.24	11.24	1024.8...	3.25
1202042700	Perchlorate-101	101 > 85	3.55	2995.316	2995.316	bb			0.2057	102.83	2.83	1626.0...	
1202042700	Perchlorate-O(18)	107 > 89	3.53	18944.492	18944.492	bb			0.4847	96.95	-3.05	4285.6...	

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

Extract Batch Code: 953004

GEL MS/PS ID: 1202042698

GEL MSD/PSD ID: 1202042699

GEL Job No (SDG): 10-1759-1

Date Extracted: 24-FEB-10

Client ID: RE16-10-3205

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.45	0.191	ug/kg	2.80	107		2.91	111		3.97		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.28			3.1			0			-
Perchlorate-101	2.45	0.174	ug/kg	2.57	97.7		2.82	108		9.49		30	75 - 125
Perchlorate-O(18)	0	6.18	ug/kg	5.88			6.23			5.81			-

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

Comments:

Perchlorate Initial Calibration Blank

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Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1759-1

Lab Code: GEL

Reporting Units: ug/kg

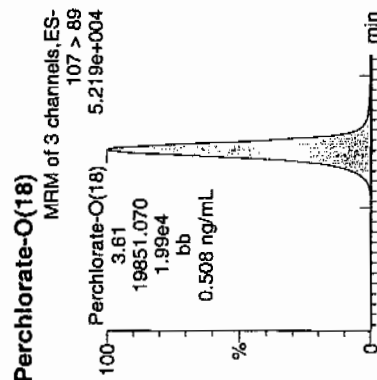
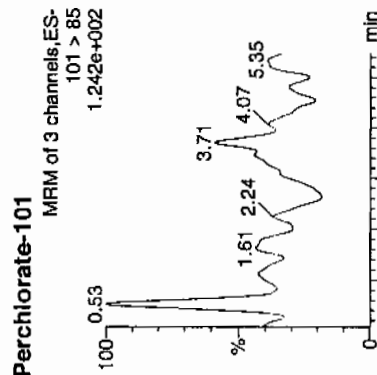
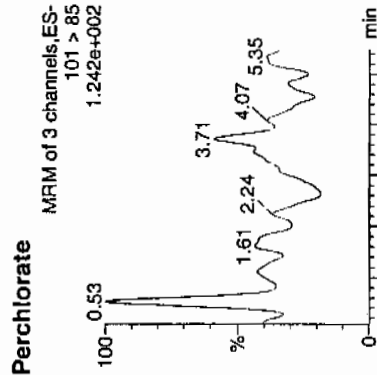
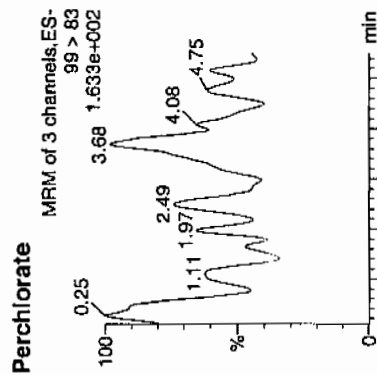
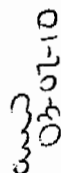
Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	01-MAR-10	per0301001a	IPB001
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301001a	IPB001
Perchlorate	0.00	0	NA	01-MAR-10	per0301002a	IPB001
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301002a	IPB001

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per030110a.mdb 02 Mar 2010 08:52:20
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030110a.cdb 02 Mar 2010 08:52:38

Name: per0301001a
Date: 01-Mar-2010
Time: 12:47:16
ID: IPB001
Vial: 1:1,A



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	3.61	19951.070	19951.070	bb			0.5079	101.59	1.59	3254.6	

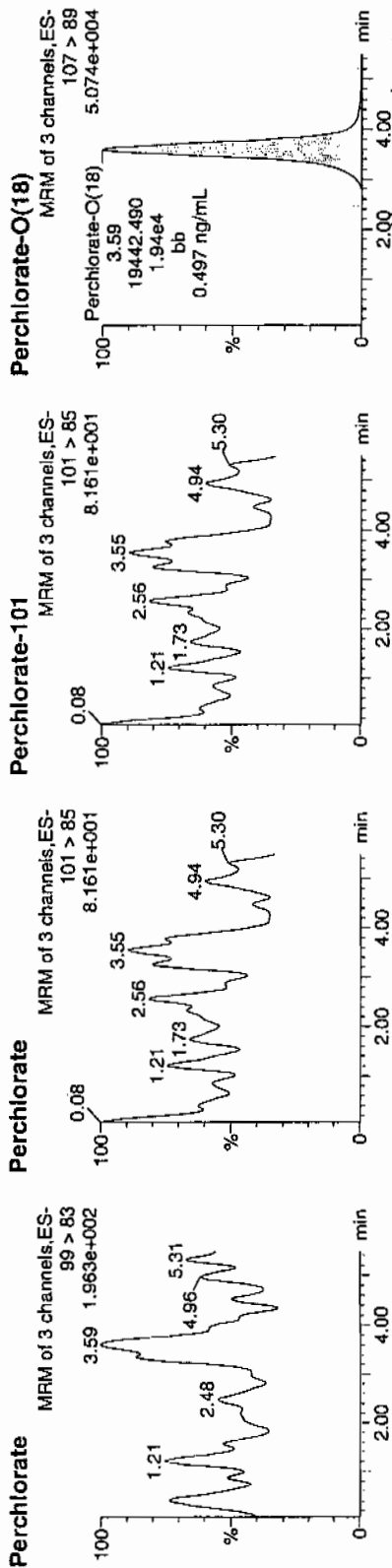
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301002a
Date: 01-Mar-2010
Time: 12:55:59
ID: IPB001
Vial: 1:1,A

Handwritten: 03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	3.59	19442.490	19442.490	bb			0.4975	99.50	-0.50	1858.7...	

Perchlorate Continuing Calibration Blank

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GEL Job No.(SDG): 10-1759-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	01-MAR-10	per0301008a	IPB002
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301008a	IPB002
Perchlorate	0.00	0	NA	01-MAR-10	per0301010a	IPB003
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301010a	IPB003
Perchlorate	0.00	0	NA	01-MAR-10	per0301020a	IPB004
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301020a	IPB004
Perchlorate	0.00	0	NA	01-MAR-10	per0301030a	IPB005
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301030a	IPB005
Perchlorate	0.00	0	NA	01-MAR-10	per0301035a	IPB006
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301035a	IPB006
Perchlorate	0.00	0	NA	01-MAR-10	per0301042a	IPB007
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301042a	IPB007
Perchlorate	0.00	0	NA	01-MAR-10	per0301055a	IPB008

P perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-1759-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301055a	IPB008
Perchlorate	0.00	0	NA	01-MAR-10	per0301068a	IPB009
Perchlorate-101	0.00	0	NA	01-MAR-10	per0301068a	IPB009
Perchlorate	0.00	0	NA	02-MAR-10	per0301081a	IPB010
Perchlorate-101	0.00	0	NA	02-MAR-10	per0301081a	IPB010
Perchlorate	0.00	0	NA	02-MAR-10	per0301094a	IPB011
Perchlorate-101	0.00	0	NA	02-MAR-10	per0301094a	IPB011
Perchlorate	0.00	0	NA	02-MAR-10	per0301098a	IPB012
Perchlorate-101	0.00	0	NA	02-MAR-10	per0301098a	IPB012
Perchlorate	0.00	0	NA	02-MAR-10	per0301107a	IPB013
Perchlorate-101	0.00	0	NA	02-MAR-10	per0301107a	IPB013

Quantify Sample Report MassLynx 4.0 SP4

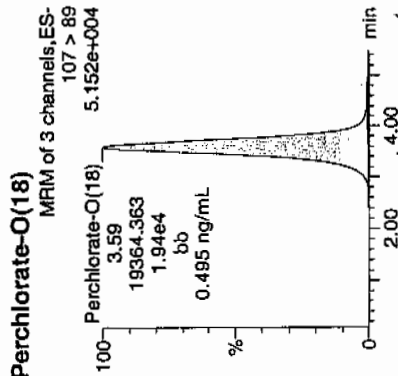
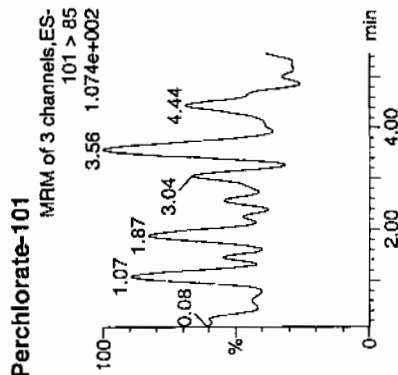
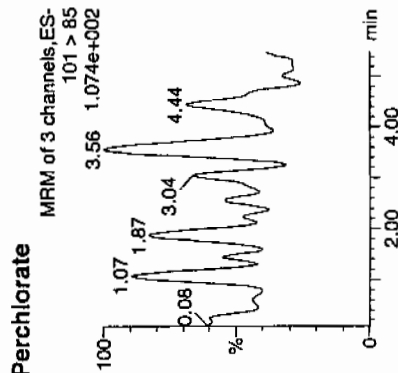
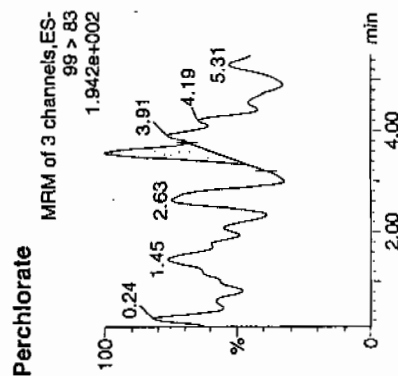
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
 Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301008a
 Date: 01-Mar-2010
 Time: 13:47:06
 ID: IPB002
 Vial: 1:1,A

03-07-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83	3.57	19.671	19.671	bb			0.0004			5.810	0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	3.59	19364.363	19364.363	bb			0.4955	99.10	-0.90	2583.8...	

4/11/03/03/02

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time

Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

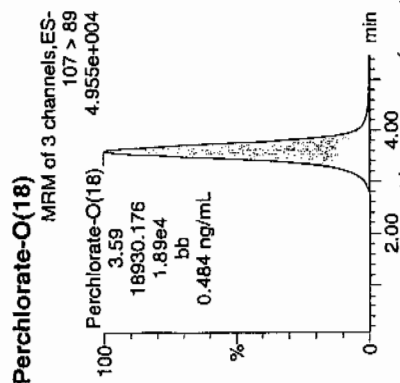
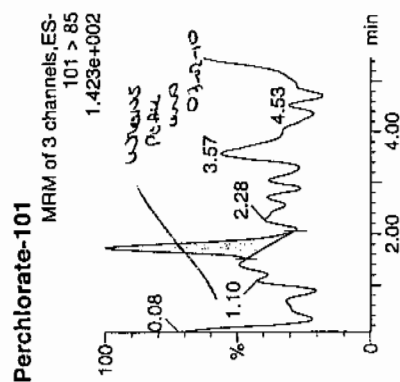
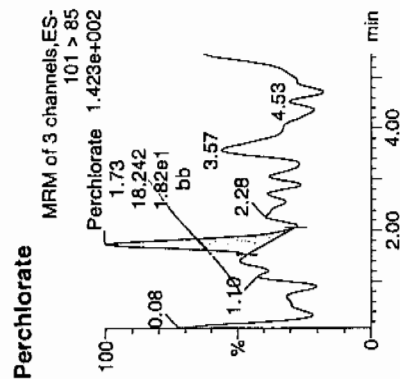
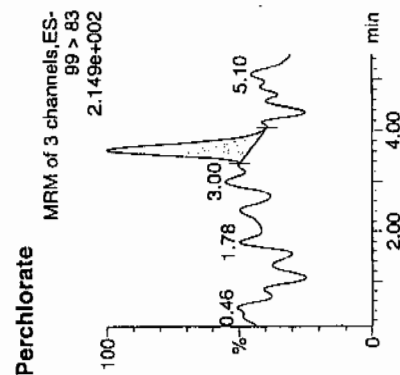
Name: per0301010a

Date: 01-Mar-2010

Time: 14:04:26

ID: IPB003

Vial: 1:1.A



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83	3.63	32.539	32.539	bb			0.0007			9.481	1.78
IPB003	Perchlorate-101	101 > 85	1.73	18.242	18.242	bb			0.0013			11.792	
IPB003	Perchlorate-Q(18)	107 > 89	3.59	18930.176	18930.176	bb			0.4844	95.88	-3.12	730.850	

%Dev	S/N	Ion Ratio
9.481	1.78	5994
11.792		60500

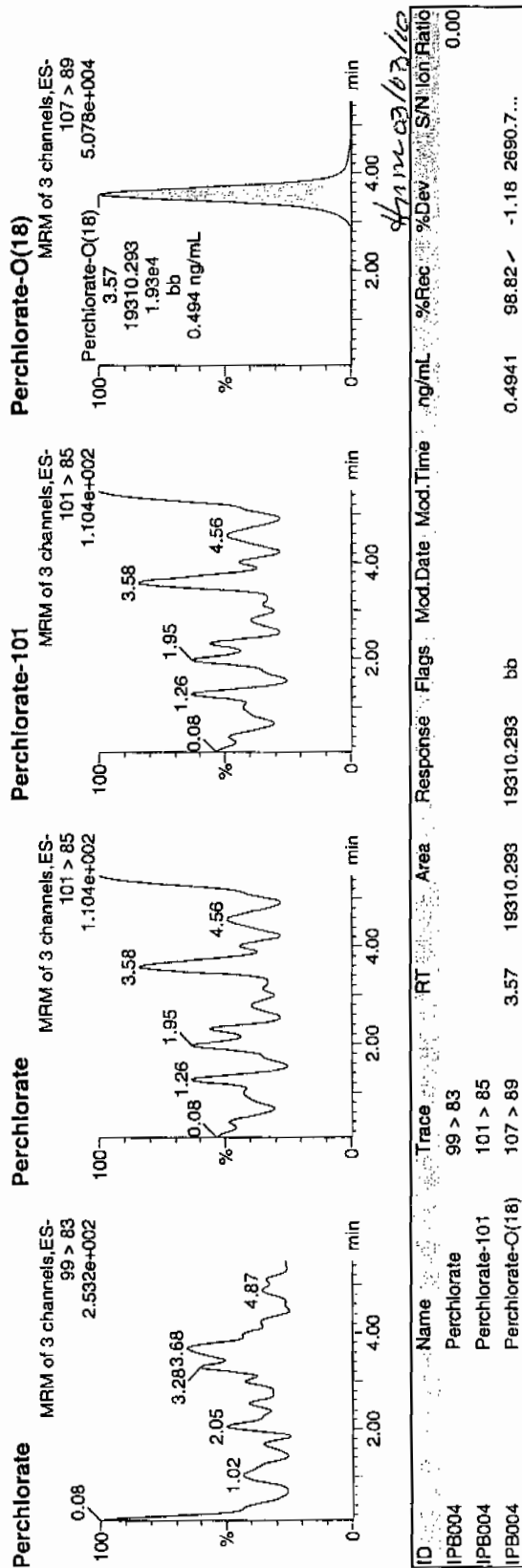
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301020a
Date: 01-Mar-2010
Time: 15:29:50
ID: IPB004
Vial: 1:1,A

0307-10



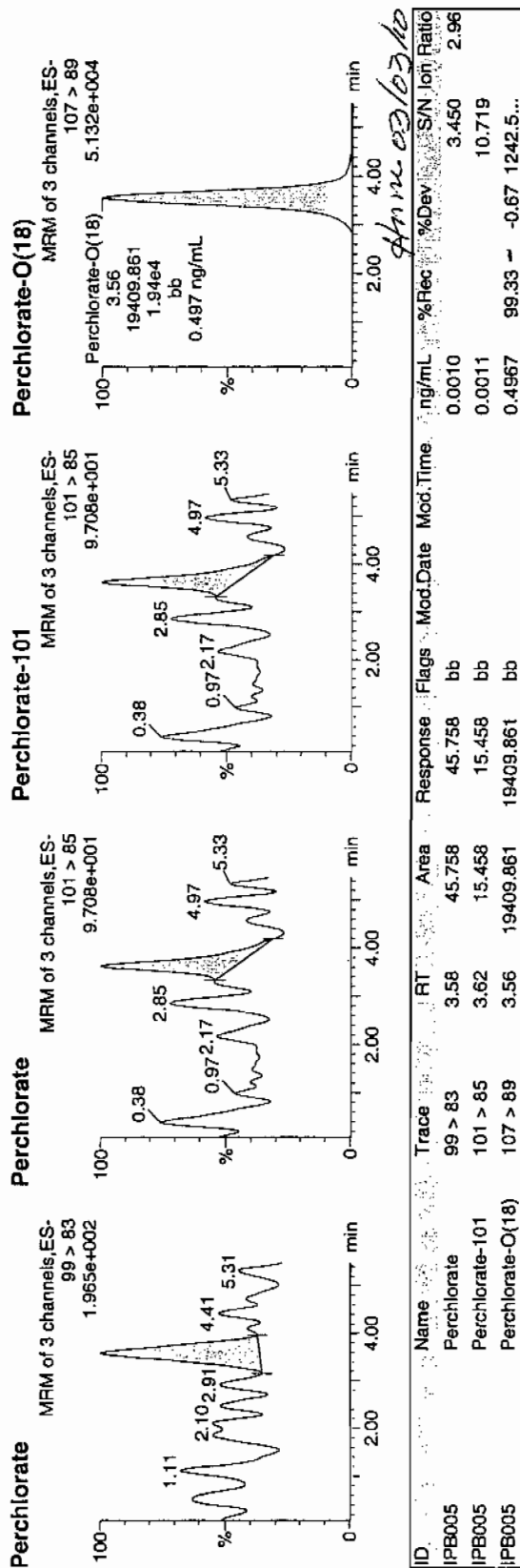
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301030a
Date: 01-Mar-2010
Time: 16:55:24
ID: IPB005
Vial: 1:1,A

03-07-10



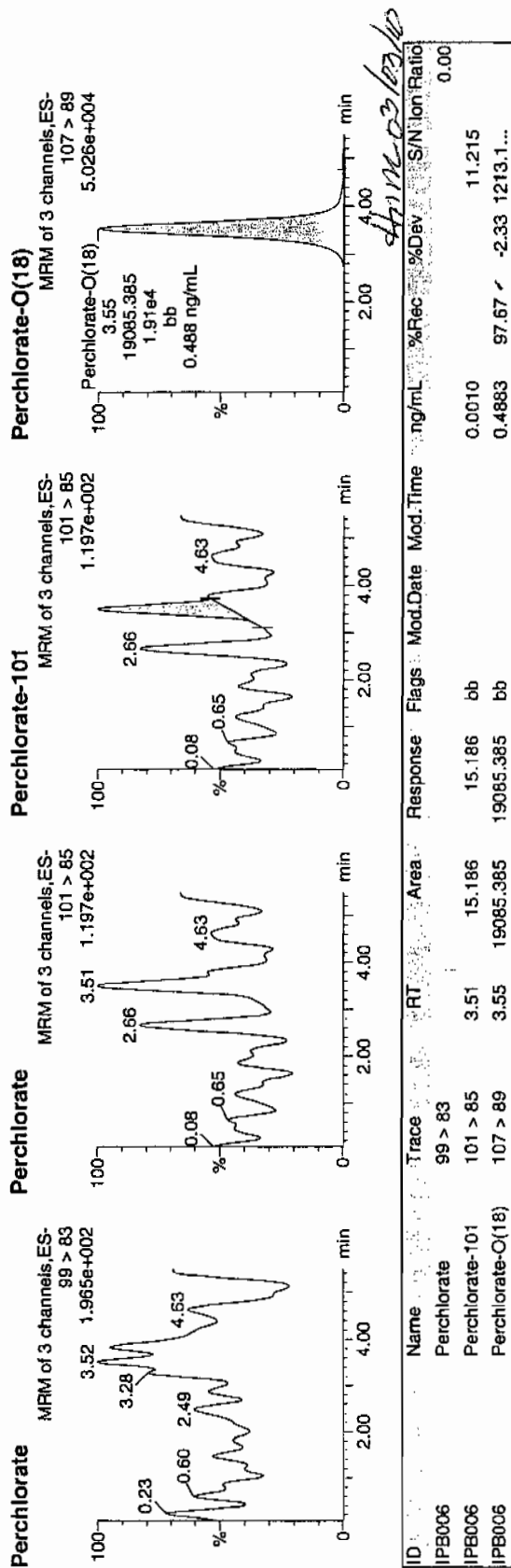
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301035a
Date: 01-Mar-2010
Time: 17:38:34
ID: IPB006
Vial: 1:1,A

03-07-10



Quantify Sample Report MassLynx 4.0 SP4

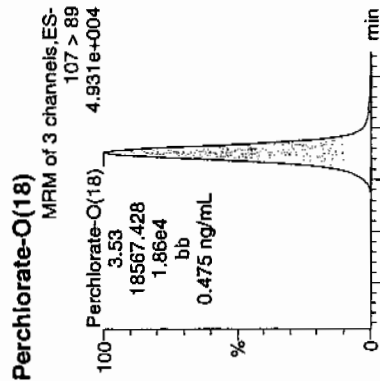
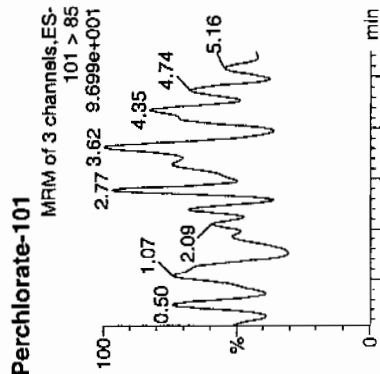
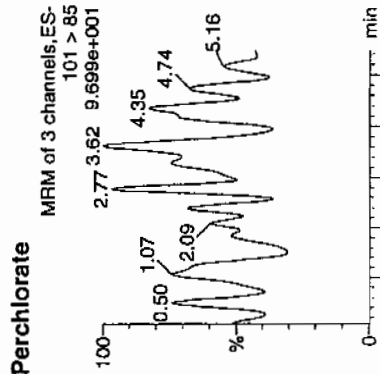
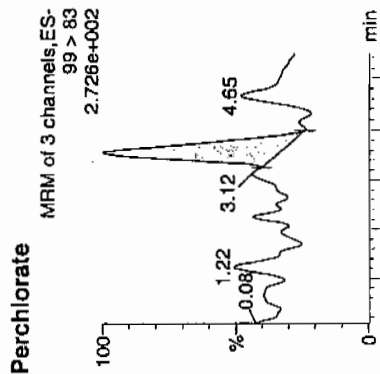
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

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 Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301042a
 Date: 01-Mar-2010
 Time: 18:38:50
 ID: IPB007
 Vial: 1:1,A

03-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83	3.56	64,215	64,215	bb			0.0015			13.175	0.00
IPB007	Perchlorate-101	101 > 85											
IPB007	Perchlorate-O(18)	107 > 89	3.53	18567.428	18567.428	bb			0.4751	95.02	-4.98	4258.7...	

4/11/10 03/10/10

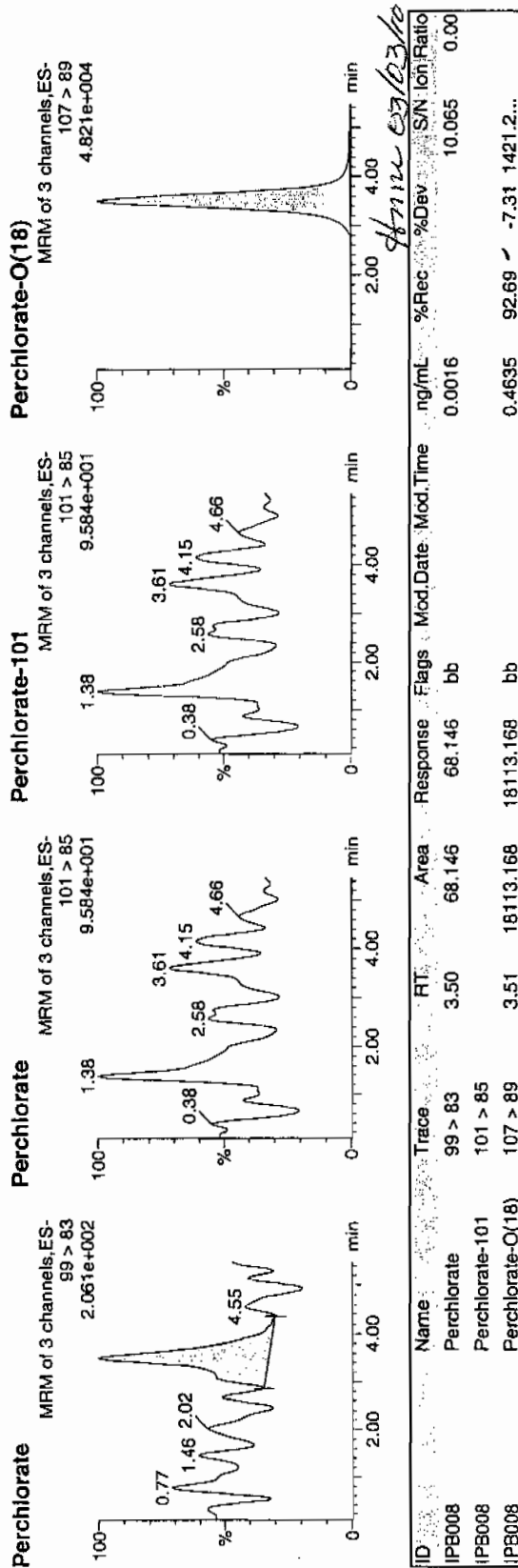
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301055a
Date: 01-Mar-2010
Time: 20:30:13
ID: IPB008
Vial: 1:1,A

03-07-10



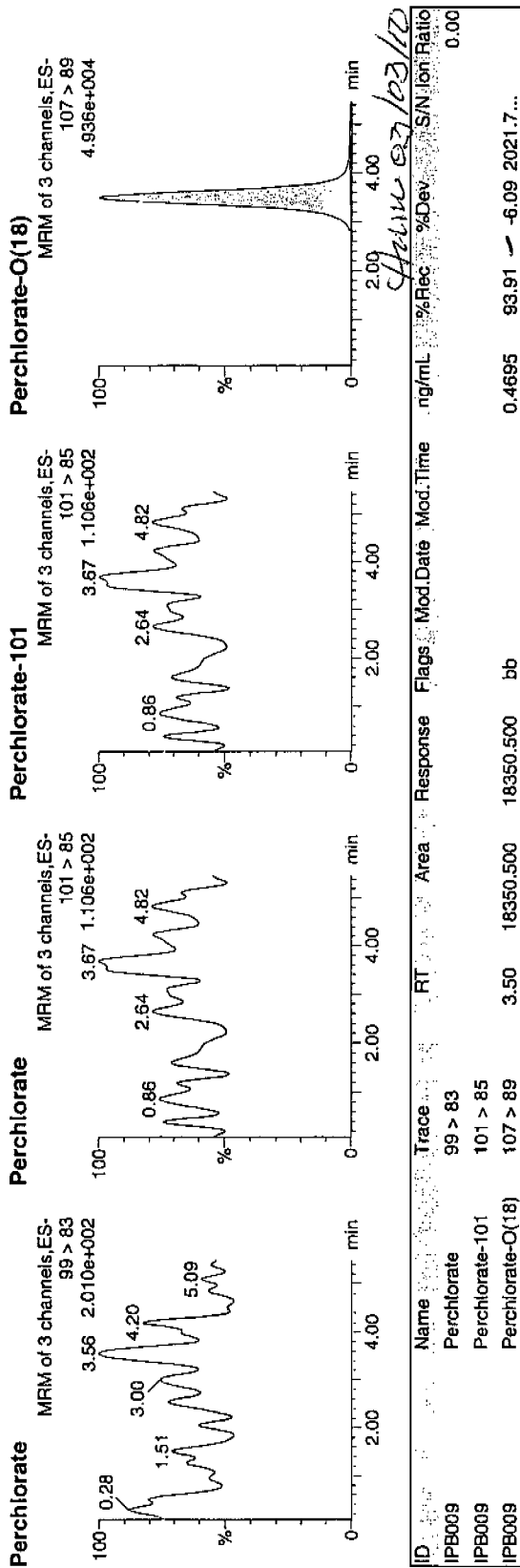
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The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301068a
Date: 01-Mar-2010
Time: 22:21:37
ID: IPB009
Vial: 1:1,A

03-02-10



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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301081a

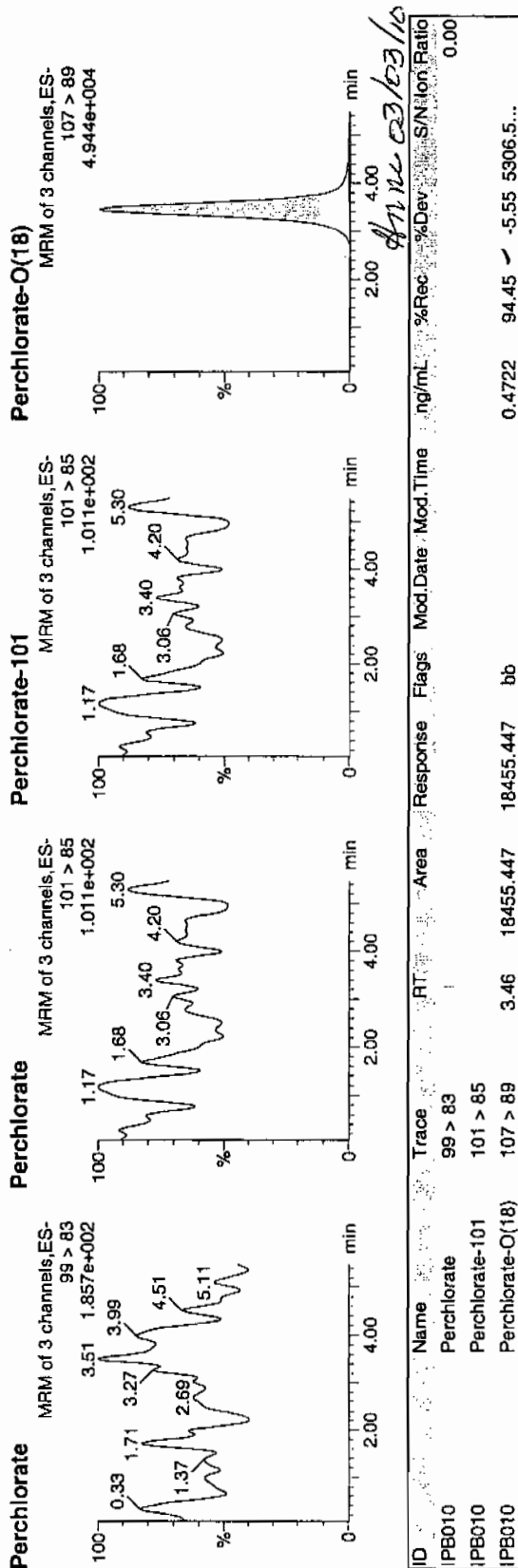
Date: 02-Mar-2010

Time: 00:13:07

ID: IPB010

Vial: 1:1,A

03-02-10



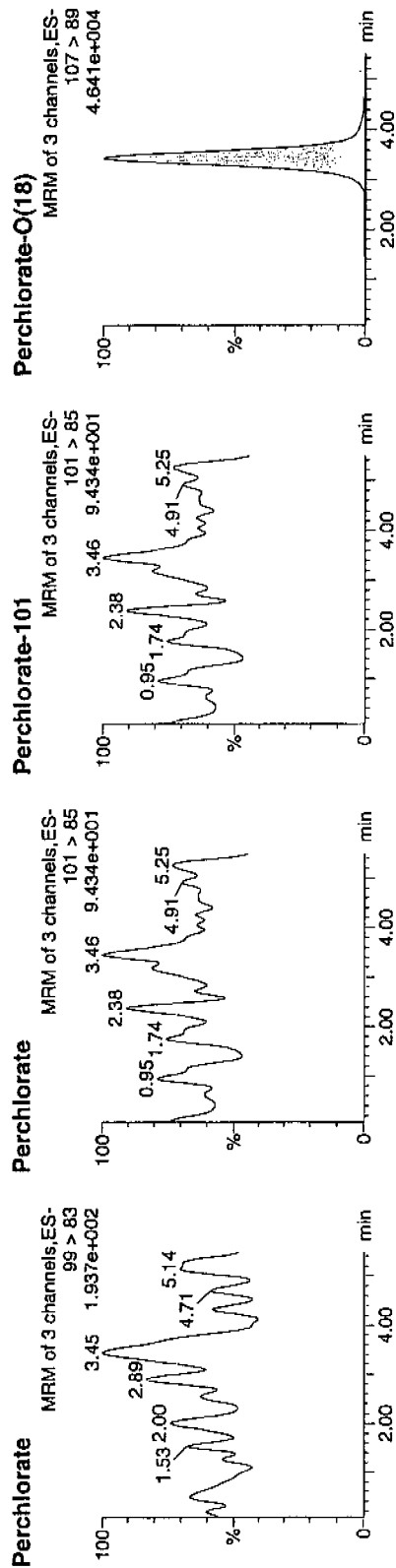
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301094a
Date: 02-Mar-2010
Time: 02:04:50
ID: IPB011
Vial: 1:1,A

03-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB011	Perchlorate	99 > 83											0.00
IPB011	Perchlorate-101	101 > 85											
IPB011	Perchlorate-O(18)	107 > 89	3.43	17432.324	17432.324	bb			0.4461	89.21	-10.79	2108.5...	

Quantify Sample Report MassLynx 4.0 SP4

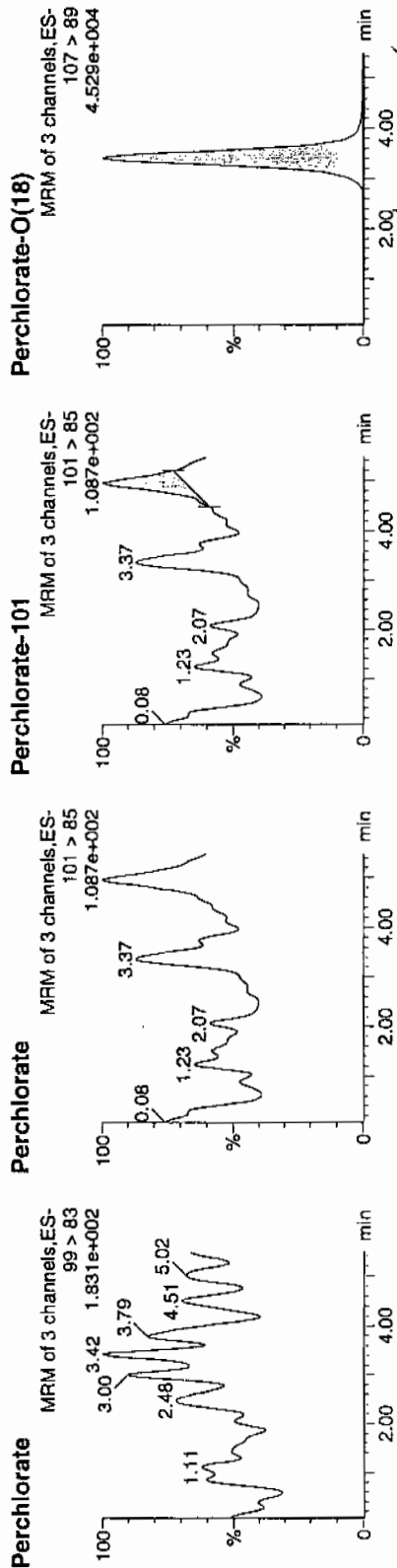
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
 Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301098a
 Date: 02-Mar-2010
 Time: 02:39:12
 ID: IPB012
 Vial: 1:1,A

63-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB012	Perchlorate	99 > 83	4.96	9.993	9.993	bb			0.0007	86.14	-13.86	5321.7...	0.00
IPB012	Perchlorate-101	101 > 85	3.42	16832.818	16832.818	bb			0.4307				
IPB012	Perchlorate-O(18)	107 > 89											

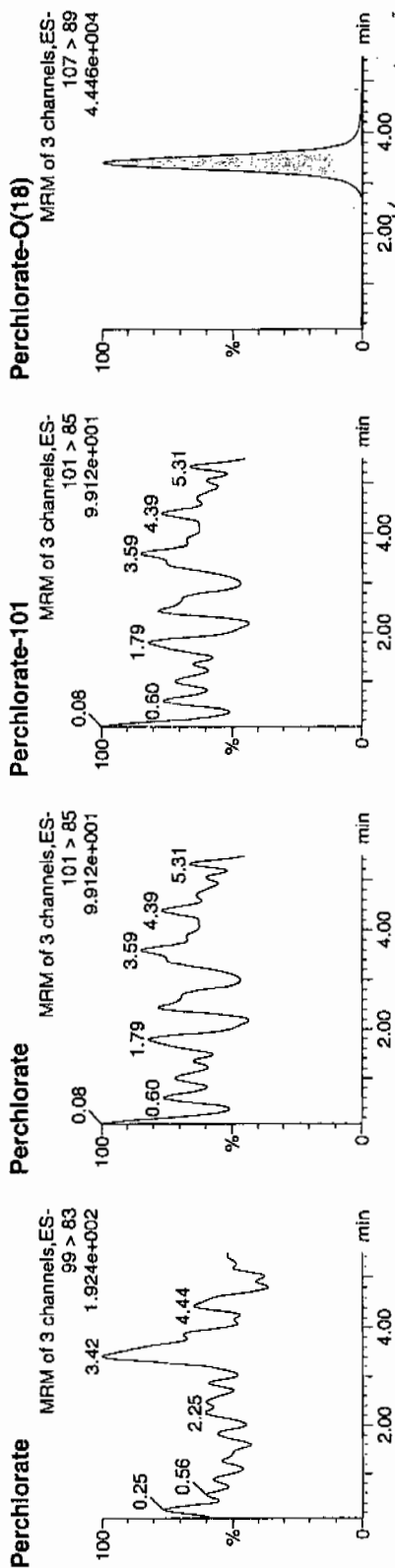
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301107a
Date: 02-Mar-2010
Time: 03:56:35
ID: IPB013
Vial: 1:1,A

02-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB013	Perchlorate	99 > 83											0.00
IPB013	Perchlorate-101	101 > 85											
IPB013	Perchlorate-O(18)	107 > 89	3.41	16362.706	16362.706	bb			0.4187	83.74	-16.26	2847.4...	

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
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QUARTO ULTIMA: nairb 01-08-08.cal

Calibration Report - MS1 Static

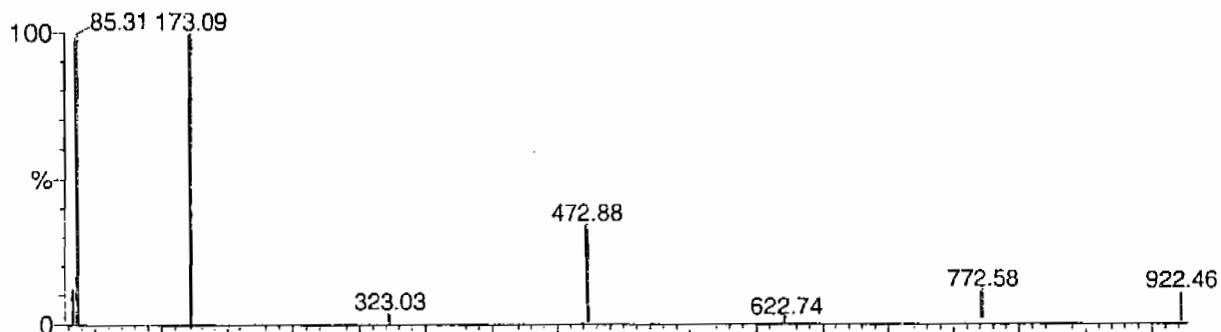
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

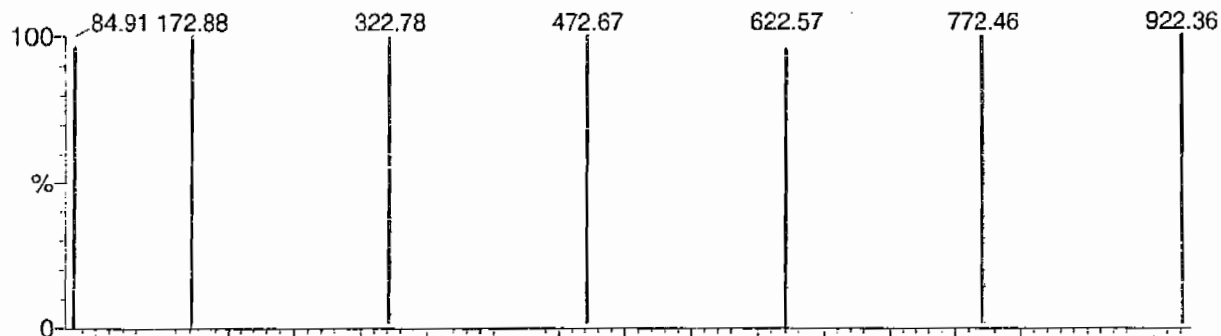
PEAKS HIGHLIGHTED BY CALIB 01-08-08

Data file: STATMS1 - Uncalibrated

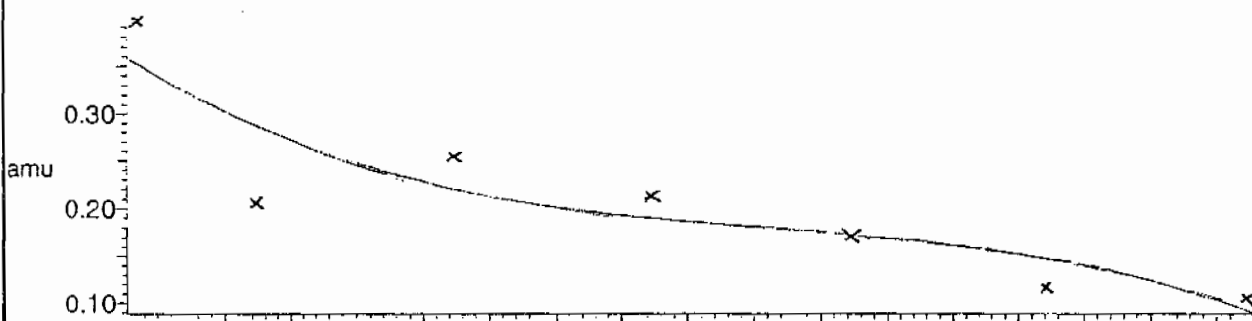
7 matches of 7 tested references



Reference file: Nairb

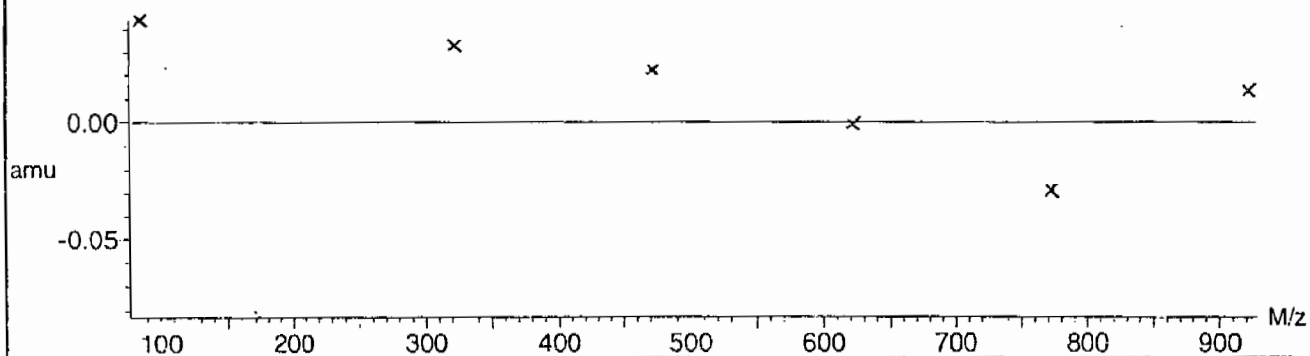


Mass difference (Raw - Ref mass)



Residuals

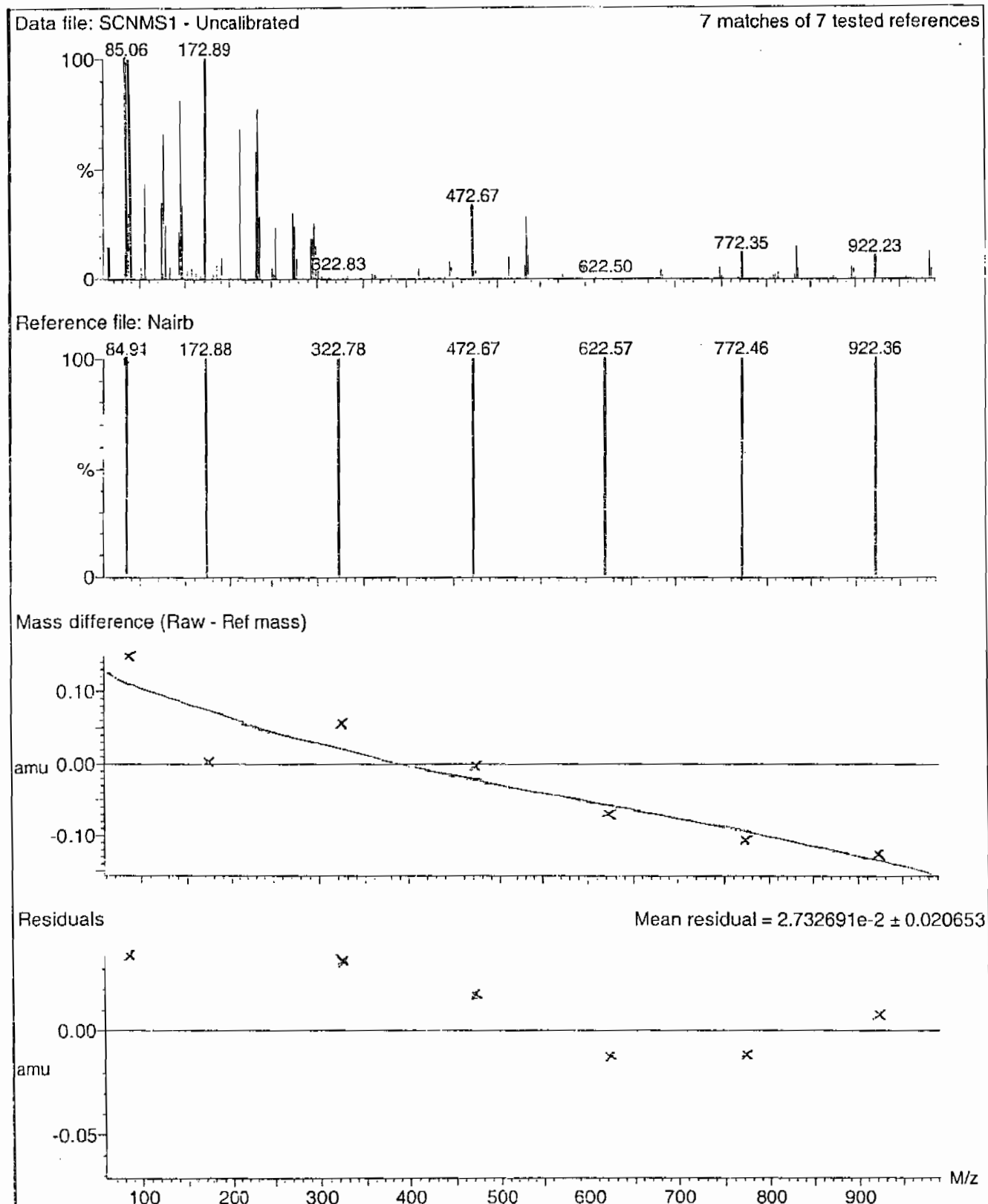
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

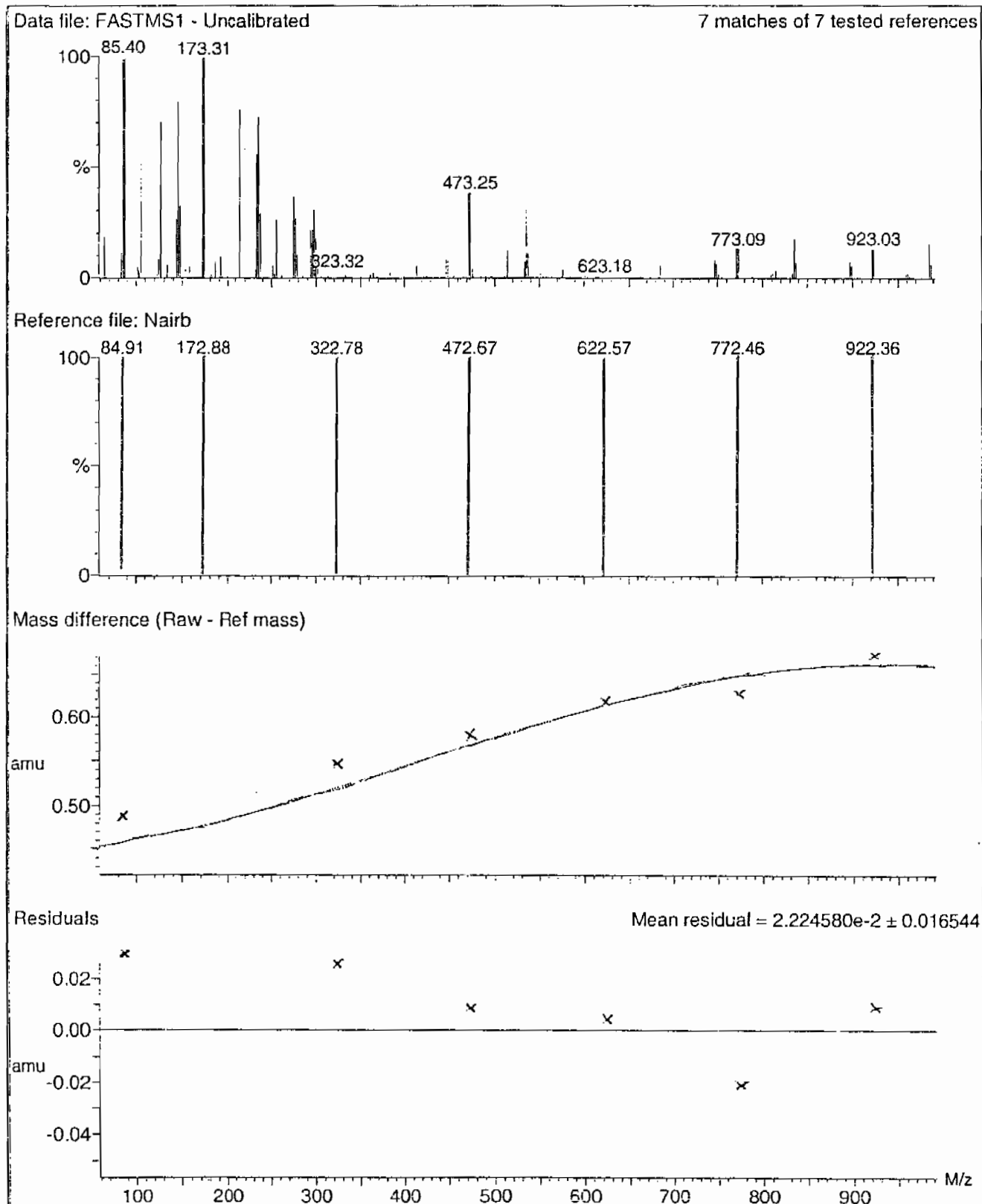
Printed: Tue Jan 08 12:20:09 2008



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

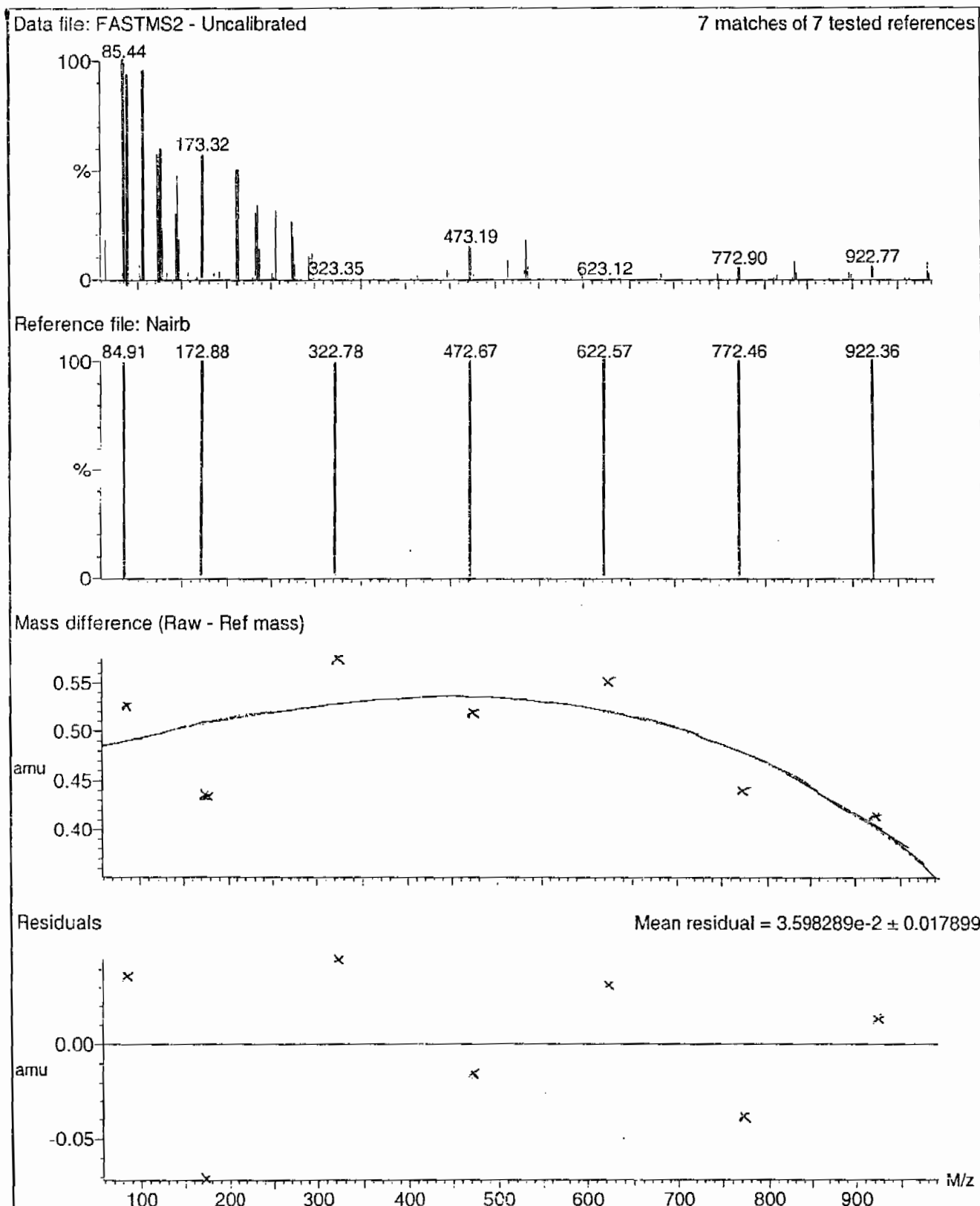
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Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

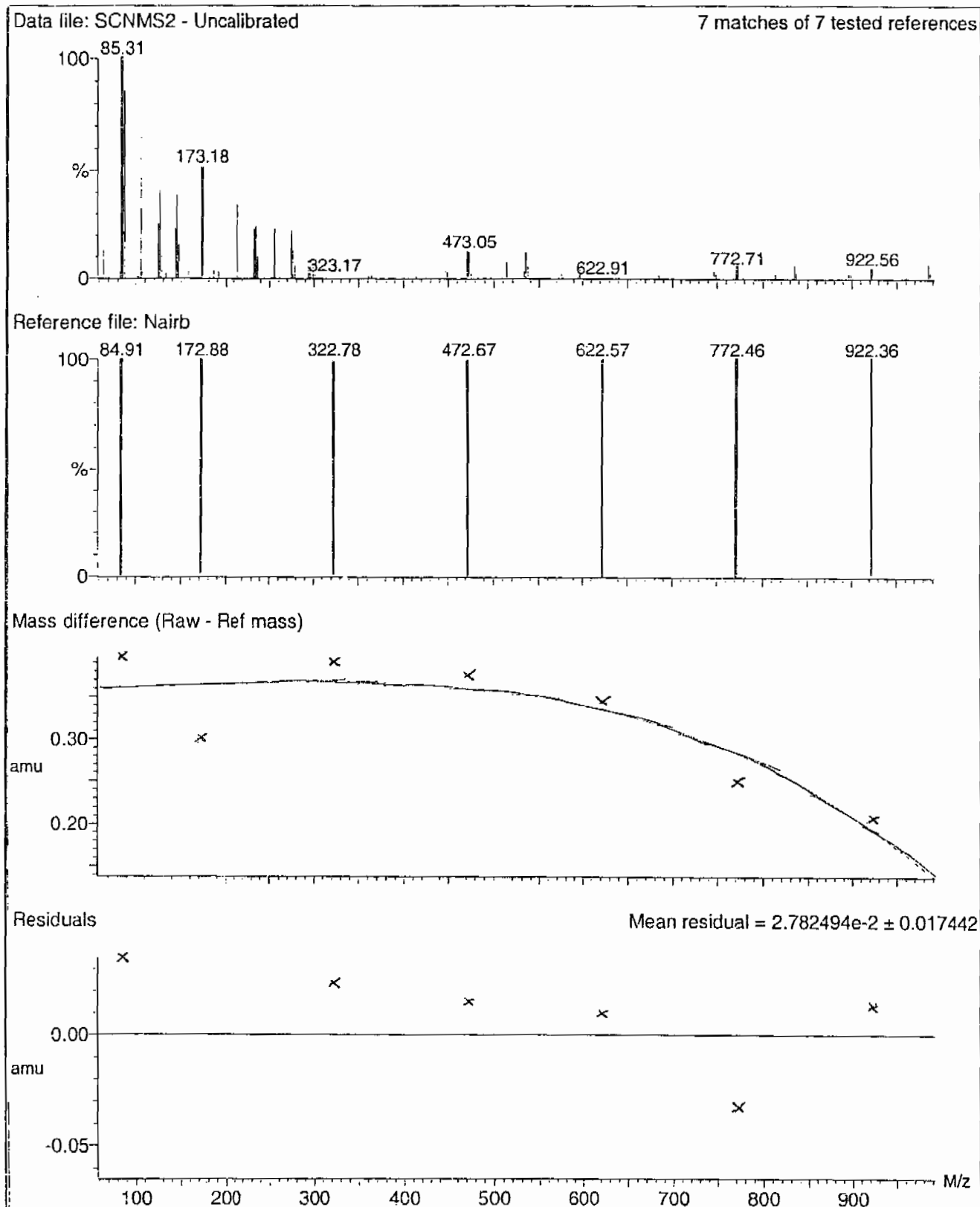
Printed: Tue Jan 08 12:23:51 2008



Calibration Report - MS2 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008



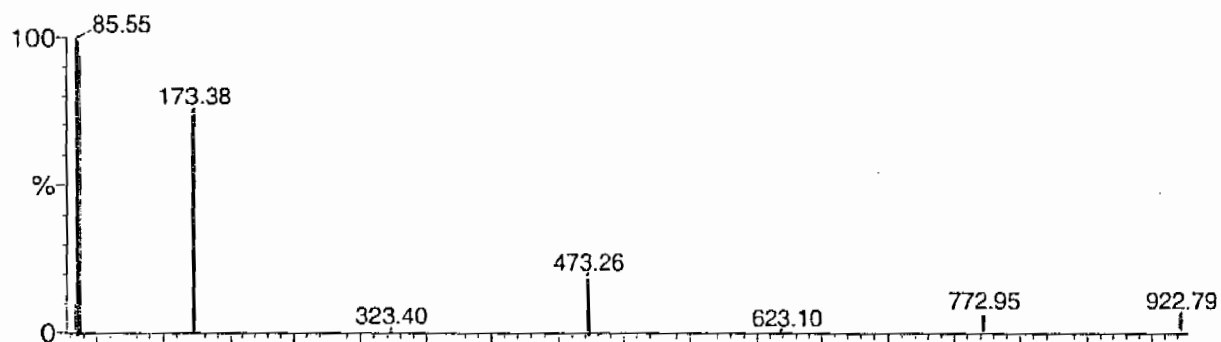
Calibration Report - MS2 Static

Page 1 of 1

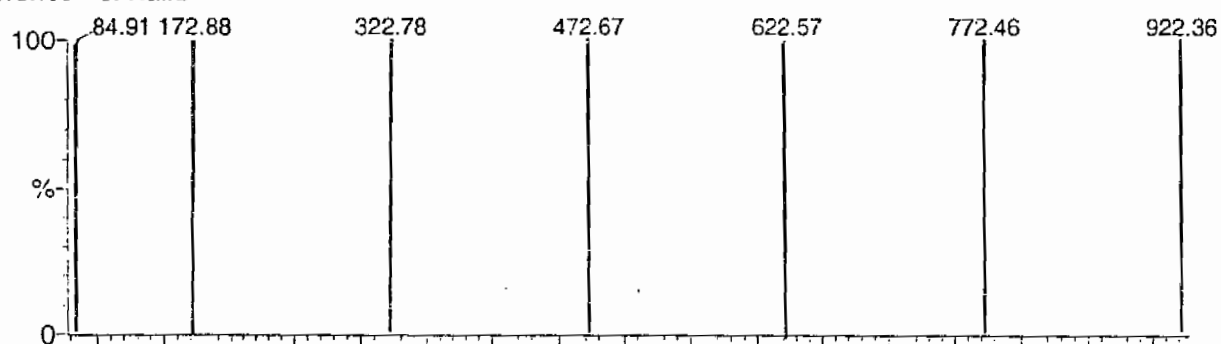
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

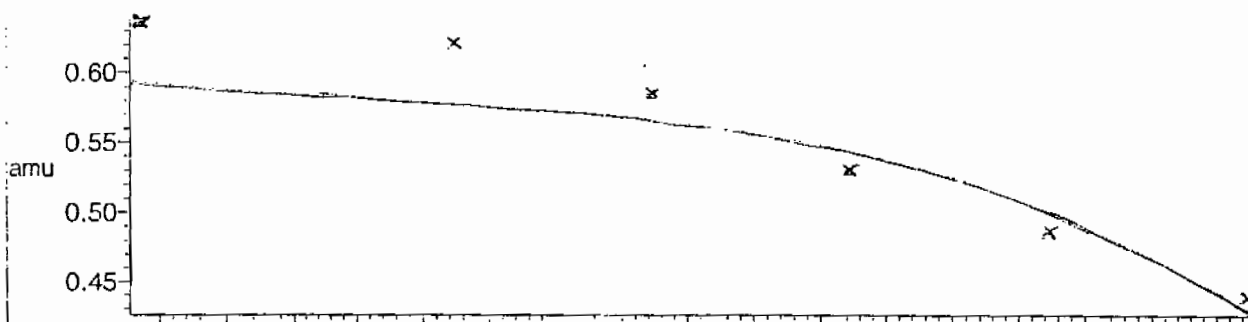
7 matches of 7 tested references



Reference file: Nairb

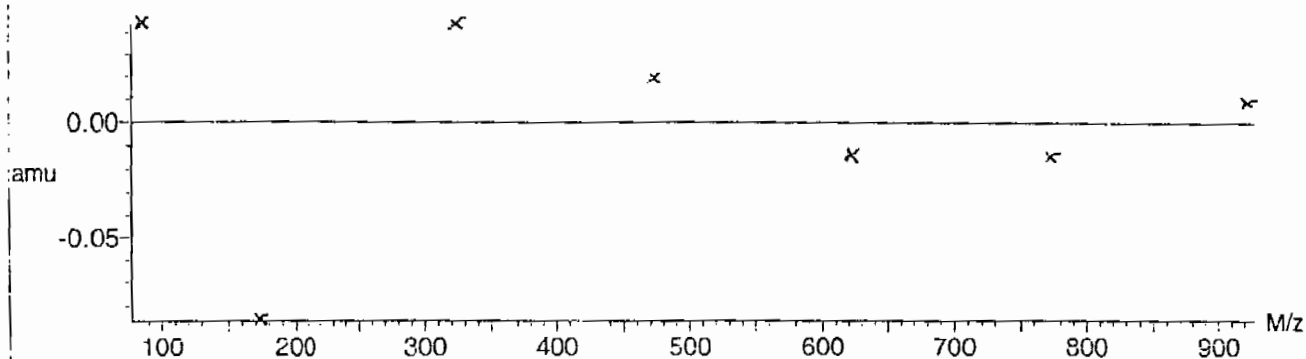


Mass difference (Raw - Ref mass)



Residuals

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



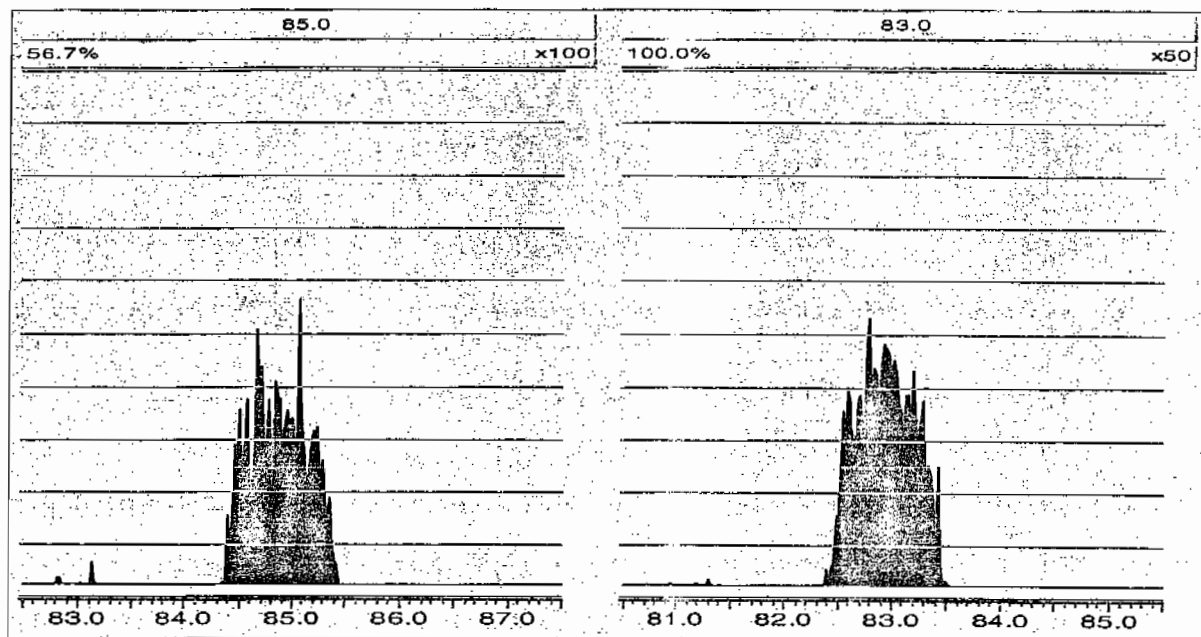
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Monday, March 01, 2010 09:44:20 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

GEL Job No.(SDG): 10-1759-1

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	per0301006a	01-MAR-10	19759.7				
Lower Area Limit			9879.85				
Upper Area Limit			39519.4				
1202042696	per0301070a	01-MAR-10 22:38	19541.5	3.5	3.545	1.013	
1202042697	per0301071a	01-MAR-10 22:47	19640	3.5	3.5078	1.002	
1202042700	per0301072a	01-MAR-10 22:55	18944.5	3.53	3.545	1.004	
246872001	per0301087a	02-MAR-10 01:04	18355.5	3.45	3.4705	1.006	
246872002	per0301088a	02-MAR-10 01:13	19400.4	3.45	3.45798	1.002	
246872003	per0301089a	02-MAR-10 01:21	19896.7	3.43	3.44555	1.005	
246872004	per0301090a	02-MAR-10 01:30	19197.7	3.43	3.45803	1.008	
246872005	per0301091a	02-MAR-10 01:38	18915.4	3.43	3.44555	1.005	

Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-1759-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0301006a	01-MAR-10	19759.7				
Lower Area Limit			9879.85				
Upper Area Limit			39519.4				
246872006	per0301092a	02-MAR-10 01:47	19209	3.43	3.44553	1.005	
246872007	per0301096a	02-MAR-10 02:21	17717.9	3.43	3.4455	1.005	
246872008	per0301097a	02-MAR-10 02:30	18094.1	3.43	3.44553	1.005	

SAMPLE DATA

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 953004

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8366

Date Received: 11-FEB-10

GEL Job No (SDG): 10-1759-1

GEL Sample ID: 246872001

Date Filtered: 24-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	02-MAR-10 01:04	per0301087a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:04	per0301087a
14797-73-0	Perchlorate-101	.61	2.44	0.610	ug/kg	U	1	02-MAR-10 01:04	per0301087a
	Perchlorate-O(18)			5.73	ug/kg		1	02-MAR-10 01:04	per0301087a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

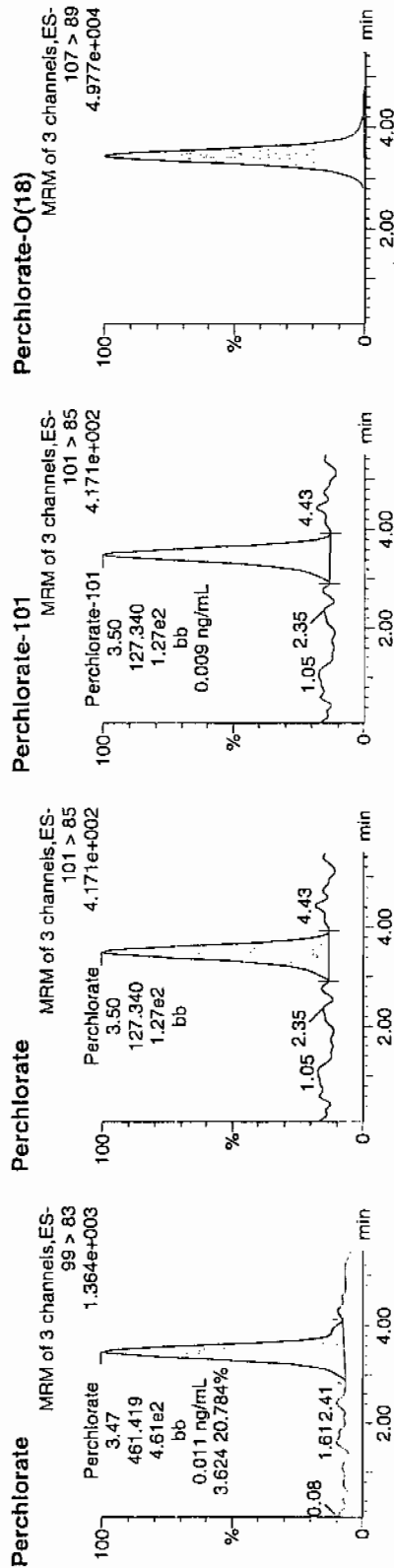
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Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301087a
Date: 02-Mar-2010
Time: 01:04:40
ID: 246872001
Vial: 2:7,E

03-02-10

LANU | 953005 | 5000 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246872001	Perchlorate	99 > 83	3.47	461.419	461.419	bb			0.0105			130.963	3.62
246872001	Perchlorate-101	101 > 85	3.50	127.340	127.340	bb			0.0087			60.854	
246872001	Perchlorate-O(18)	107 > 89	3.45	18355.549	18355.549	bb			0.4697	93.93	-6.07	2072.9...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 953004

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8367

Date Received: 11-FEB-10

GEL Job No (SDG): 10-1759-1

GEL Sample ID: 246872002

Date Filtered: 24-FEB-10

Injection Volume (uL): 20

% Solids: 81

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.62	2.48	0.620	ug/kg	U	1	02-MAR-10 01:13	per0301088a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:13	per0301088a
14797-73-0	Perchlorate-101	.62	2.48	0.620	ug/kg	U	1	02-MAR-10 01:13	per0301088a
	Perchlorate-O(18)			6.15	ug/kg		1	02-MAR-10 01:13	per0301088a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301088a

Date: 02-Mar-2010

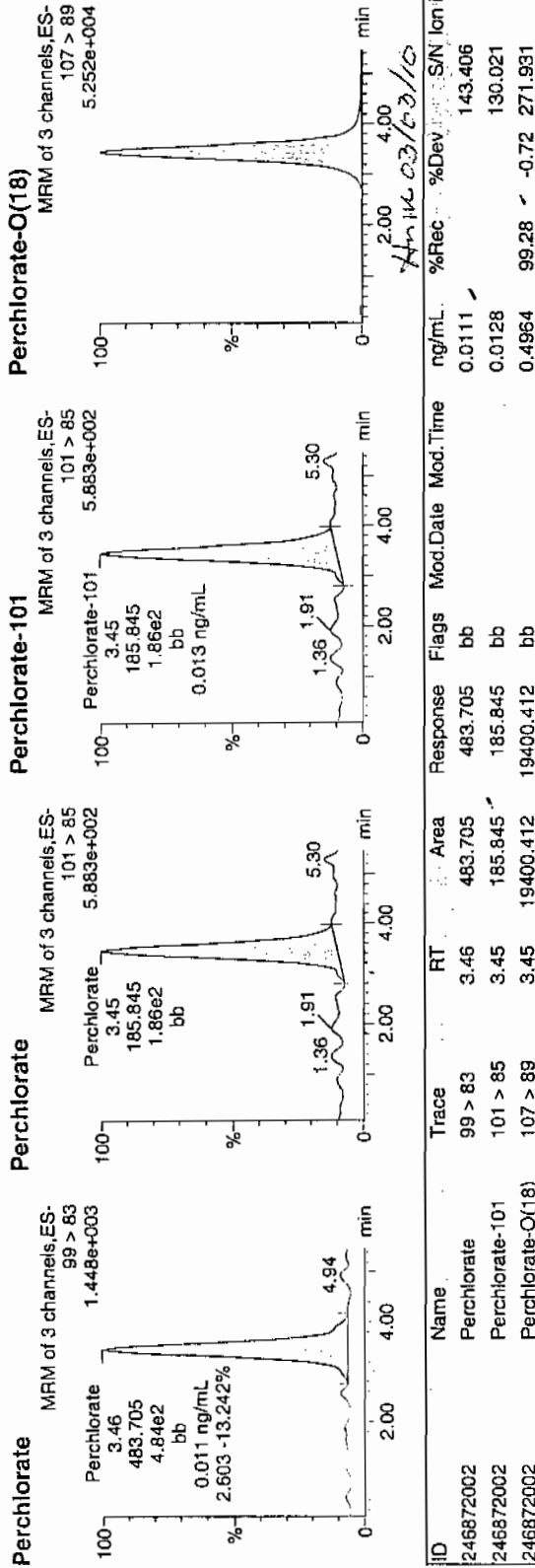
Time: 01:13:13

ID: 246872002

Vial: 2:7,F

6-23-02-10

1953005 | 5000 | 11



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: 953004

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8364

Date Received: 11-FEB-10

GEL Job No (SDG): 10-1759-1

GEL Sample ID: 246872003

Date Filtered: 24-FEB-10

Injection Volume (uL): 20

%Solids: 77

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.651	2.6	0.651	ug/kg	U	1	02-MAR-10 01:21	per0301089a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:21	per0301089a
14797-73-0	Perchlorate-101	.651	2.6	0.651	ug/kg	U	1	02-MAR-10 01:21	per0301089a
	Perchlorate-O(18)			6.63	ug/kg		1	02-MAR-10 01:21	per0301089a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301089a

Date: 02-Mar-2010

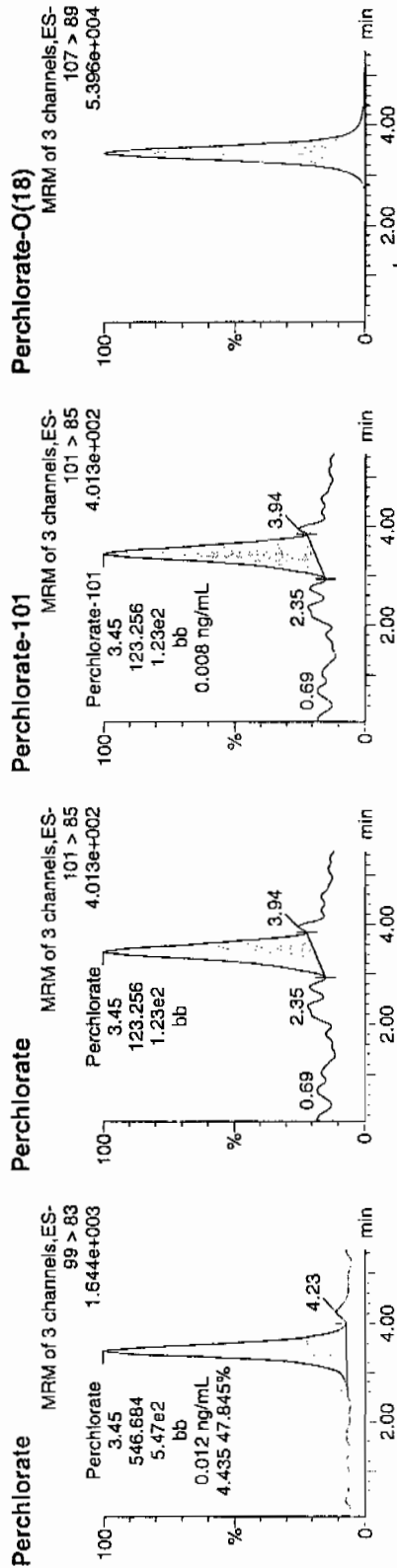
Time: 01:21:46

ID: 246872003

Vial: 2:8,A

603
03-02-10

1953005 | 5020 | 1 |



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246872003	Perchlorate	99 > 83	3.45	546.684	546.684	bb			0.0125			62.582	4.44
246872003	Perchlorate-101	101 > 85	3.45	123.256	123.256	bb			0.0085			39.555	
246872003	Perchlorate-O(18)	107 > 89	3.43	19896.748	19896.748	bb			0.5091	101.82	- 1.82	1361.6...	

6034
603500

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSMethod: SW846 6850 ModifiedMatrix: SOILExtraction Batch ID: 953004Extraction Type: Solid PrepSample Volume/Weight: 2.00 gConcentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8365Date Received: 11-FEB-10GEL Job No (SDG): 10-1759-1GEL Sample ID: 246872004Date Filtered: 24-FEB-10Injection Volume (uL): 20%Solids: 83

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.602	2.41	0.602	ug/kg	U	1	02-MAR-10 01:30	per0301090a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:30	per0301090a
14797-73-0	Perchlorate-101	.602	2.41	0.602	ug/kg	U	1	02-MAR-10 01:30	per0301090a
	Perchlorate-O(18)			5.91	ug/kg		1	02-MAR-10 01:30	per0301090a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301090a

Date: 02-Mar-2010

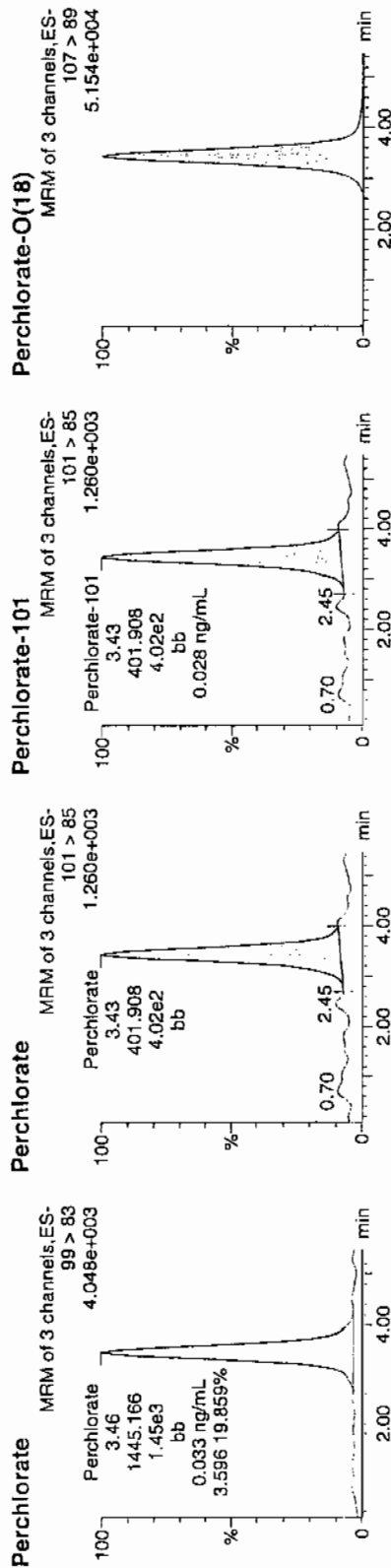
Time: 01:30:21

ID: 246872004

Vial: 2:8,B

14920 | 953005 | 50020 | 11

03-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246872004	Perchlorate	99 > 83	3.46	1445.166	1445.166	bb			0.0330			161.305	3.60
246872004	Perchlorate-101	101 > 85	3.43	401.908	401.908	bb			0.0276			72.447	
246872004	Perchlorate-O(18)	107 > 89	3.43	19197.748	19197.748	bb			0.4912	98.24	-1.76	1867.4...	

4/11/10 03/03/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8368
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872005
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.663	2.65	0.663	ug/kg	U	1	02-MAR-10 01:38	per0301091a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:38	per0301091a
14797-73-0	Perchlorate-101	.663	2.65	0.663	ug/kg	U	1	02-MAR-10 01:38	per0301091a
	Perchlorate-O(18)			6.42	ug/kg		1	02-MAR-10 01:38	per0301091a

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

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301091a

Date: 02-Mar-2010

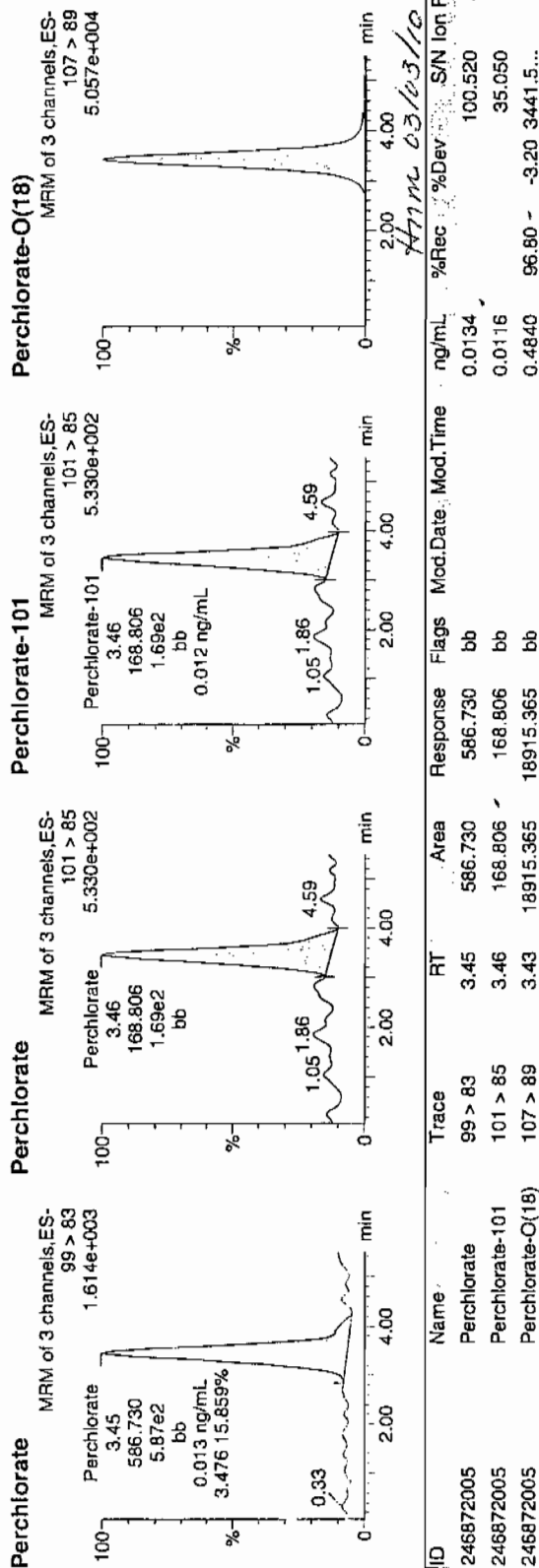
Time: 01:38:55

ID: 246872005

Vial: 2:8,C

1922-1953005 | 3070 | 11

03-02-10



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: 253004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-8340
 Date Received: 11-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 246872006
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 76

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 01:47	per0301092a
	Perchlorate Isotope Ratio						1	02-MAR-10 01:47	per0301092a
14797-73-0	Perchlorate-101	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 01:47	per0301092a
	Perchlorate-O(18)			6.48	ug/kg		1	02-MAR-10 01:47	per0301092a

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

*Concentration =

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

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

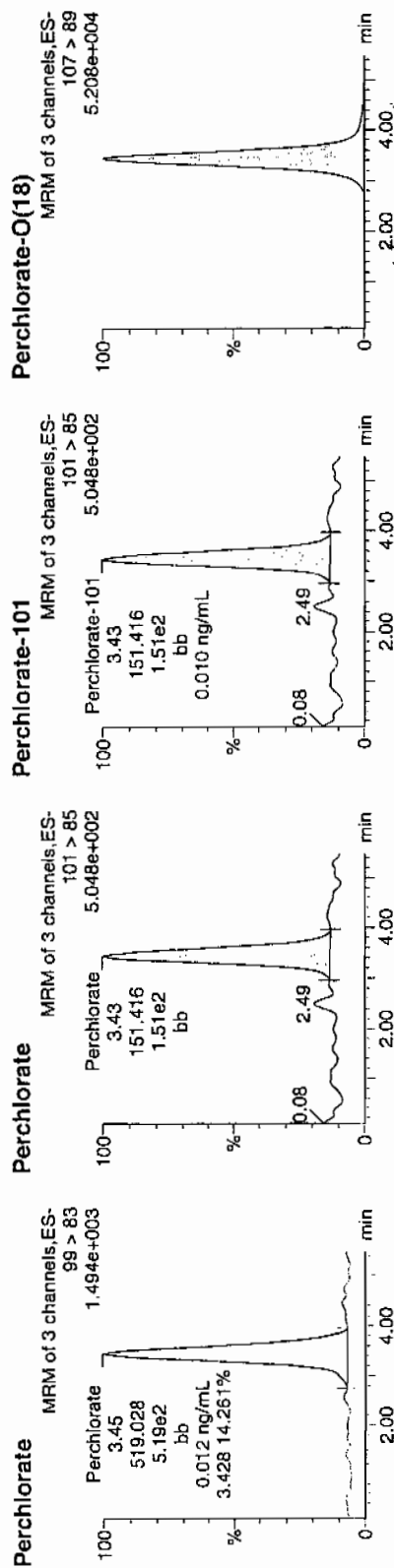
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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301092a
Date: 02-Mar-2010
Time: 01:47:29
ID: 246872006
Vial: 2:8,D

03-02-10

1420 | 953005 | 30130 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246872006	Perchlorate	99 > 83	3.45	519.028	519.028	bb			0.0119			47.557	3.43
246872006	Perchlorate-101	101 > 85	3.43	151.416	151.416	bb			0.0104			12.237	
246872006	Perchlorate-O(18)	107 > 89	3.43	19209.008	19209.008	bb			0.4915	98.30	-1.70	3716.7...	

Perchlorate Analysis Data Sheet

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Lab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSMethod: SW846 6850 ModifiedMatrix: SOILExtraction Batch ID: 953004Extraction Type: Solid PrepSample Volume/Weight: 2.00 gConcentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8341Date Received: 11-FEB-10GEL Job No (SDG): 10-1759-1GEL Sample ID: 246872007Date Filtered: 24-FEB-10Injection Volume (uL): 20%Solids: 92.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.541	2.16	0.541	ug/kg	U	1	02-MAR-10 02:21	per0301096a
	Perchlorate Isotope Ratio						1	02-MAR-10 02:21	per0301096a
14797-73-0	Perchlorate-101	.541	2.16	0.541	ug/kg	U	1	02-MAR-10 02:21	per0301096a
	Perchlorate-O(18)			4.90	ug/kg		1	02-MAR-10 02:21	per0301096a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

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

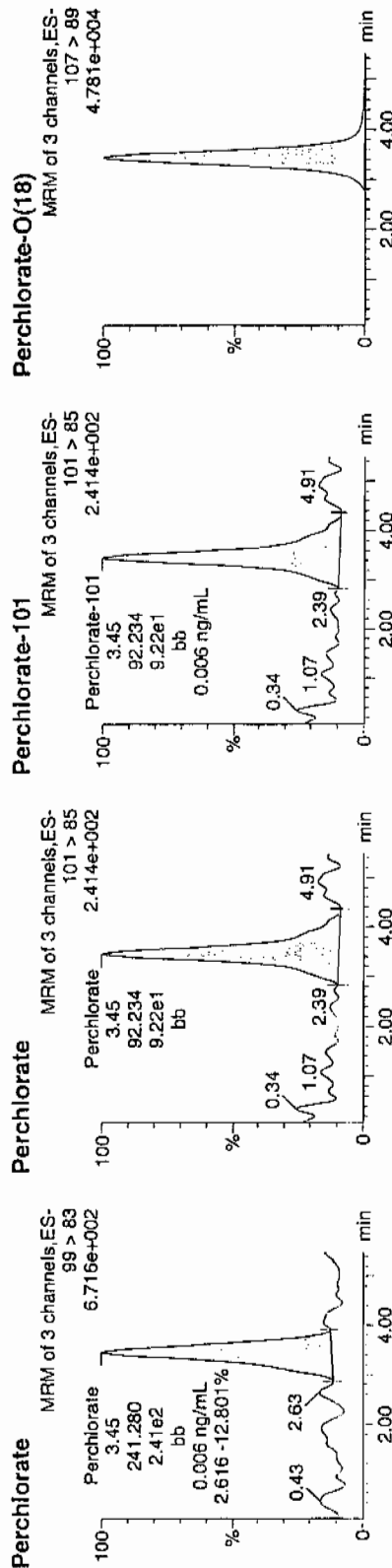
Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301096a
Date: 02-Mar-2010
Time: 02:21:54
ID: 246872007
Vial: 2:8,E

620
03-02-10

192005 | 3000 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246872007	Perchlorate	99 > 83	3.45	241.280	241.280	bb			0.0055	40.786	2.62		
246872007	Perchlorate-101	101 > 85	3.45	92.234	92.234	bb			0.0063	51.378			
246872007	Perchlorate-O(18)	107 > 89	3.43	17717.881	17717.881	bb			0.4534	90.67	-9.33	2650.6...	

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: 953004

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8376

Date Received: 11-FEB-10

GEL Job No (SDG): 10-1759-1

GEL Sample ID: 246872008

Date Filtered: 24-FEB-10

Injection Volume (uL): 20

%Solids: 76

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 02:30	per0301097a
	Perchlorate Isotope Ratio						1	02-MAR-10 02:30	per0301097a
14797-73-0	Perchlorate-101	.659	2.64	0.659	ug/kg	U	1	02-MAR-10 02:30	per0301097a
	Perchlorate-O(18)			6.11	ug/kg		1	02-MAR-10 02:30	per0301097a

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

*Concentration =

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

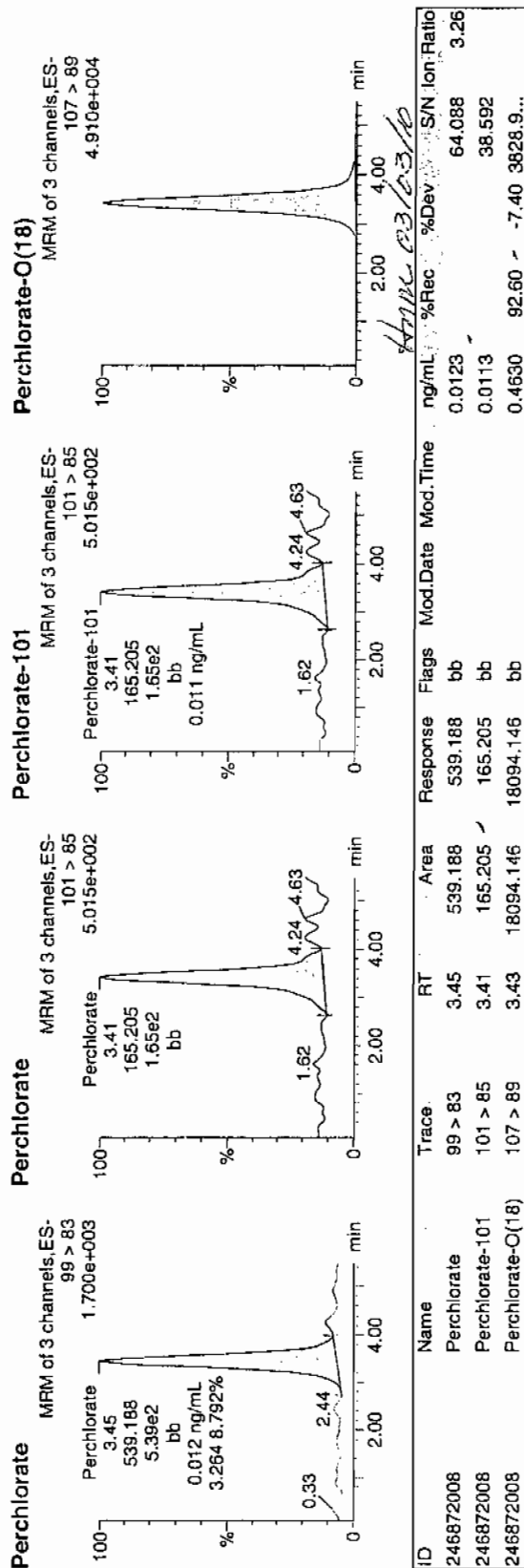
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301097a
Date: 02-Mar-2010
Time: 02:30:39
ID: 246872008
Vial: 2:8,F

6603
03-02-10
LAW 1953005 / 3020 / 11



STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-1759-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 01-MAR-10

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

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

Paramname Perchlorate

Coefficient of Determination:

Calibration Curve: 43756.34

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-1759-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 01-MAR-10

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

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

Parmname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 14564.22

Response Type: External Standard

Curve Type: RF

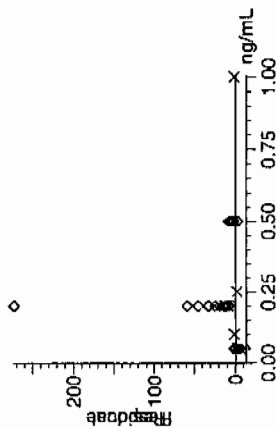
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qid

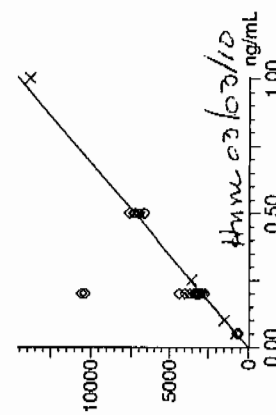
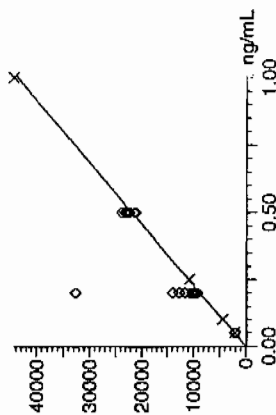
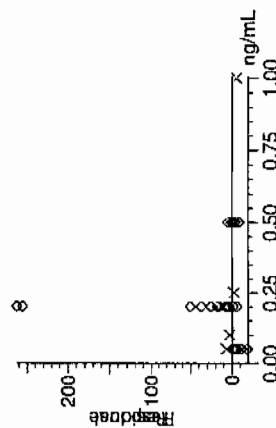
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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

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Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030110a.cdb 02 Mar 2010 08:52:38

Compound name: Perchlorate
Response Factor: 43756.3
RRF SD: 769.757, % Relative SD: 1.75919 ✓
Response type: External Std, Area
Curve type: RF ✓



Compound name: Perchlorate-101
Response Factor: 14564.2
RRF SD: 704.149, % Relative SD: 4.83479 ✓
Response type: External Std, Area
Curve type: RF ✓



03-02-10

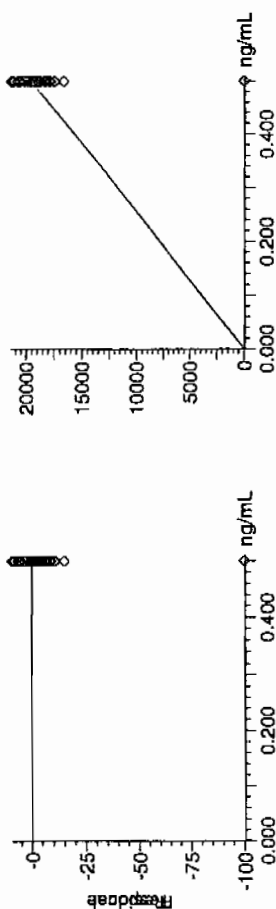
03-02-10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Compound name: Perchlorate-O⁻(18)
Response Factor: 39081.4
RRF SD: 496.592, % Relative SD: 1.27066 ✓
Response type: External Std, Area
Curve type: RF -



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1759-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.53	105.35	01-MAR-10 13:55	per0301009a
Perchlorate Isotope Ratio		3.12		01-MAR-10 13:55	per0301009a
Perchlorate-101	.5	.51	101.51	01-MAR-10 13:55	per0301009a

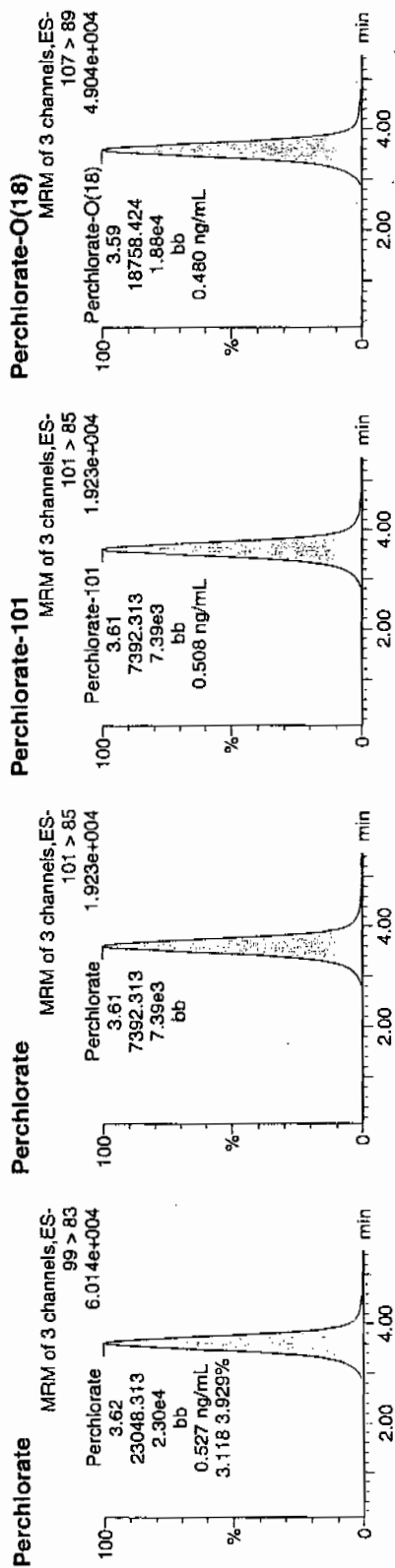
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301009a
Date: 01-Mar-2010
Time: 13:55:47
ID: WCL100227-06ICV
Vial: 1:2,A

Pump
and
03-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06ICV	Perchlorate	99 > 83	3.62	23048.313	23048.313	bb			0.5267	105.35	5.35	285.800	3.12
WCL100227-06ICV	Perchlorate-101	101 > 85	3.61	7392.313	7392.313	bb			0.5076	101.51	1.51	581.722	
WCL100227-06ICV	Perchlorate-O(18)	107 > 89	3.59	18758.424	18758.424	bb			0.4800	96.00	-4.00	5381.0...	

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1759-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.54	108.86	01-MAR-10 15:21	per0301019a
Perchlorate Isotope Ratio		3.34		01-MAR-10 15:21	per0301019a
Perchlorate-101	.5	.49	97.78	01-MAR-10 15:21	per0301019a
Perchlorate	.5	.53	106.46	01-MAR-10 16:46	per0301029a
Perchlorate Isotope Ratio		3.05		01-MAR-10 16:46	per0301029a
Perchlorate-101	.5	.52	104.92	01-MAR-10 16:46	per0301029a
Perchlorate	.5	.53	105.15	01-MAR-10 18:30	per0301041a
Perchlorate Isotope Ratio		3.26		01-MAR-10 18:30	per0301041a
Perchlorate-101	.5	.49	97.01	01-MAR-10 18:30	per0301041a
Perchlorate	.5	.51	101.35	01-MAR-10 20:21	per0301054a
Perchlorate Isotope Ratio		3.19		01-MAR-10 20:21	per0301054a
Perchlorate-101	.5	.48	95.6	01-MAR-10 20:21	per0301054a
Perchlorate	.5	.51	102.4	01-MAR-10 22:12	per0301067a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1759-1

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		3.18		01-MAR-10 22:12	per0301067a
Perchlorate-101	.5	.48	96.82	01-MAR-10 22:12	per0301067a
Perchlorate	.5	.52	103.19	02-MAR-10 00:04	per0301080a
Perchlorate Isotope Ratio		3.11		02-MAR-10 00:04	per0301080a
Perchlorate-101	.5	.5	99.79	02-MAR-10 00:04	per0301080a
Perchlorate	.5	.49	98.22	02-MAR-10 01:56	per0301093a
Perchlorate Isotope Ratio		3.21		02-MAR-10 01:56	per0301093a
Perchlorate-101	.5	.46	92.02	02-MAR-10 01:56	per0301093a
Perchlorate	.5	.48	96.44	02-MAR-10 03:47	per0301106a
Perchlorate Isotope Ratio		3.17		02-MAR-10 03:47	per0301106a
Perchlorate-101	.5	.46	91.32	02-MAR-10 03:47	per0301106a

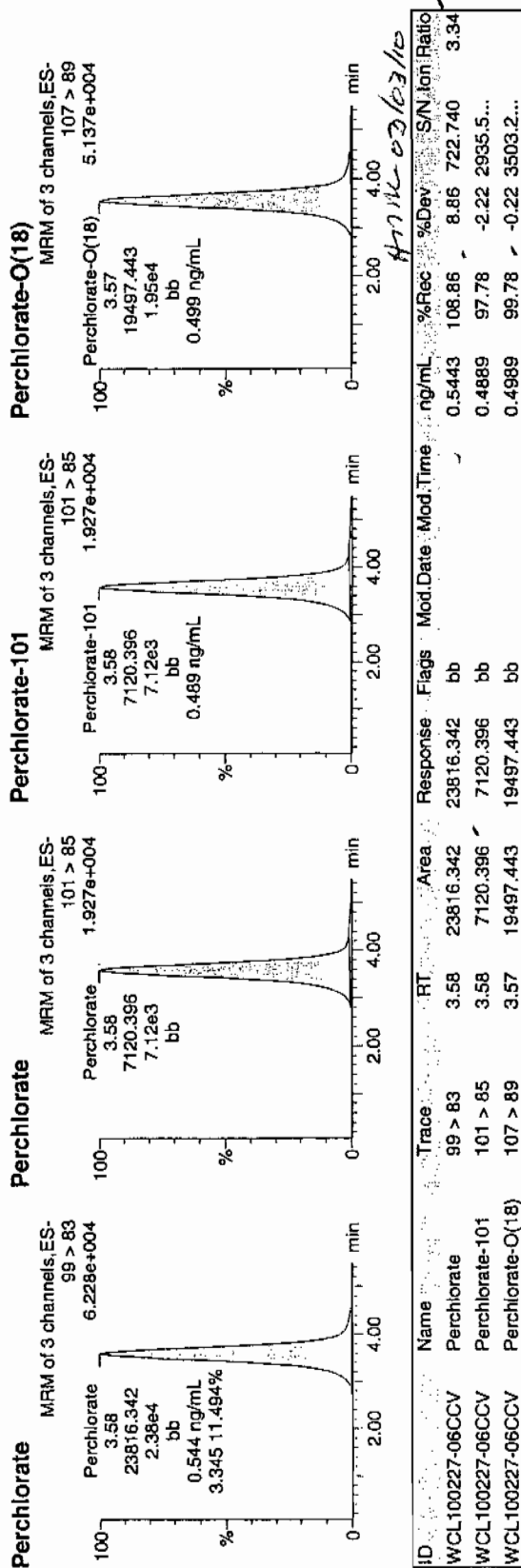
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qtd

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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301019a
Date: 01-Mar-2010
Time: 15:21:16
ID: WCL100227-06CCV
Vial: 1:2,A

*Run
03-02-10*



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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

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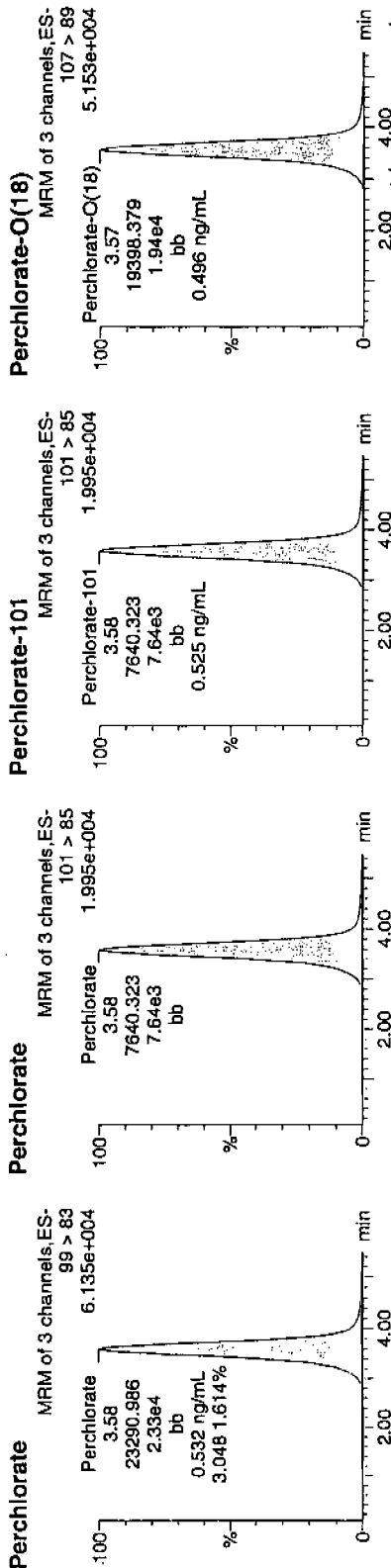
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Time: 16:46:52

ID: WCL100227-06CCV

Vial: 1:2,A

Per
and
03-07-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.58	23290.986	23290.986	bb			0.5323	106.46	6.46	2562.1...	3.05
WCL100227-06CCV	Perchlorate-101	101 > 85	3.58	7640.323	7640.323	bb			0.5246	104.92	4.92	927.645	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.57	19398.379	19398.379	bb			0.4964	99.27	-0.73	10118...	

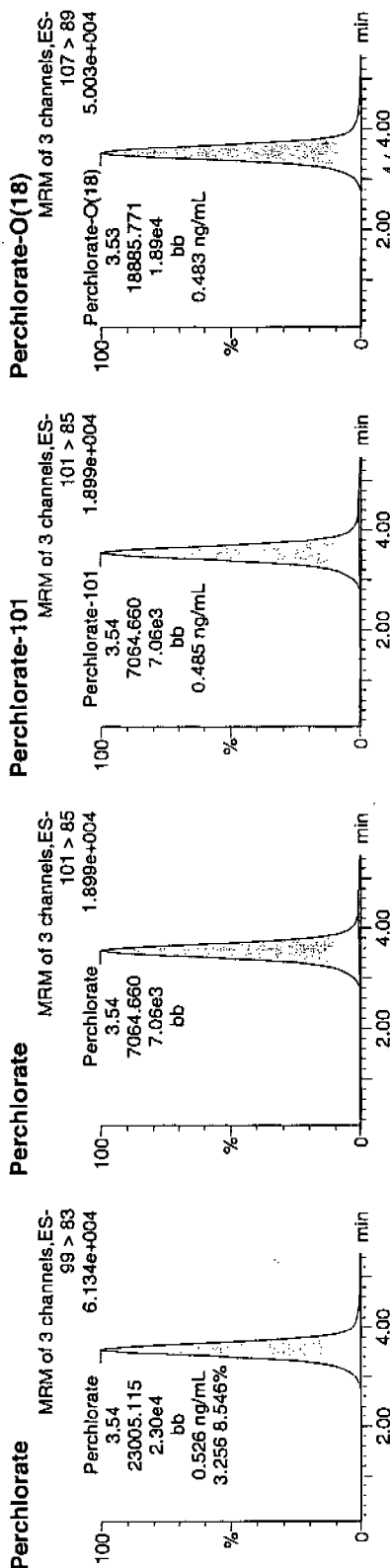
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301041a
Date: 01-Mar-2010
Time: 18:30:04
ID: WCL100227-06CCV
Vial: 1:2,A

Pure
WCL
03-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.54	23005.115	23005.115	bb			0.5258	105.15	5.15	1878.6...	3.26
WCL100227-06CCV	Perchlorate-101	101 > 85	3.54	7064.660	7064.660	bb			0.4851	97.01	-2.99	1637.0...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.53	18885.771	18885.771	bb			0.4832	96.65	-3.35	1409.8...	

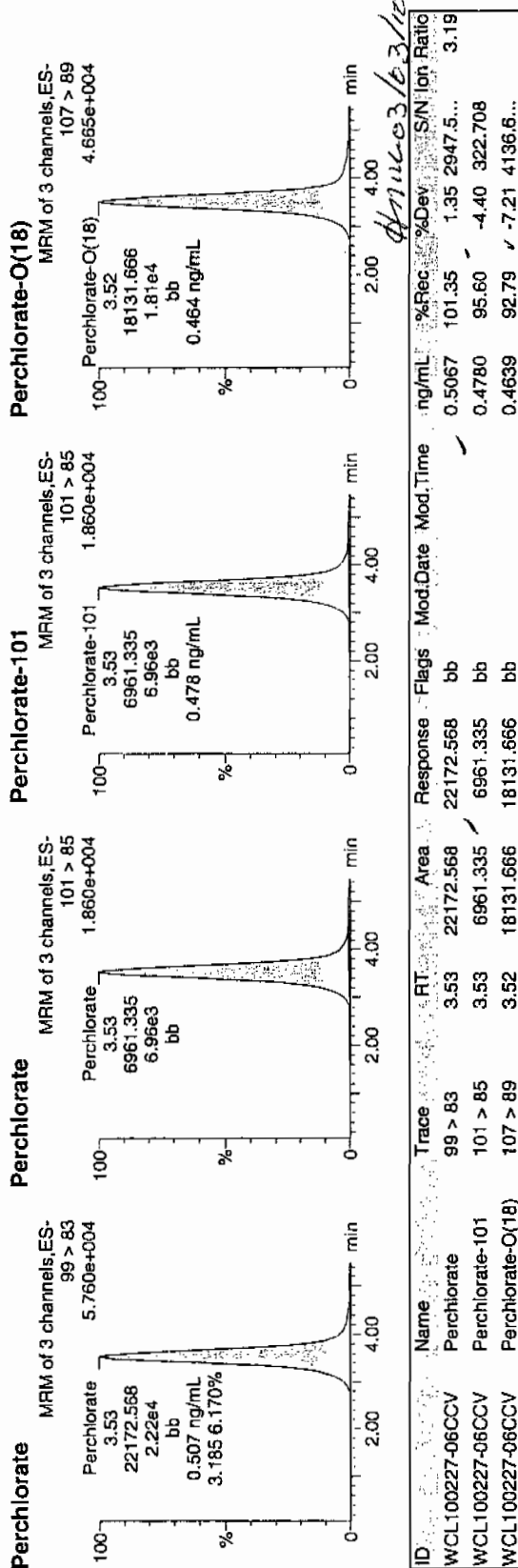
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301054a
Date: 01-Mar-2010
Time: 20:21:26
ID: WCL100227-06CCV
Vial: 1:2,A

*Per
and
03-02-10*



4/11/03/63/10

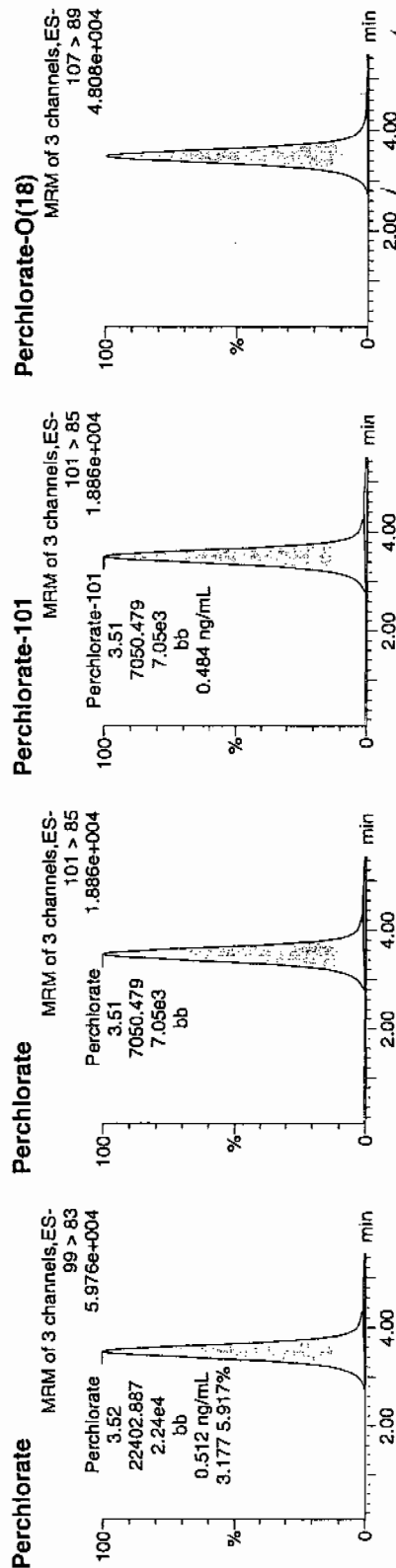
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301067a
Date: 01-Mar-2010
Time: 22:12:51
ID: WCL100227-06CCV
Vial: 1:2,A

Per
and
03-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.52	22402.887	22402.887	bb			0.5120	102.40	2.40	2594.7...	3.18
WCL100227-06CCV	Perchlorate-101	101 > 85	3.51	7050.479	7050.479	bb			0.4841	96.82	-3.18	1575.3...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.50	17936.785	17936.785	bb			0.4590	91.79	-8.21	4010.2...	

Am 03/02/10

Quantify Sample Report MassLynx 4.0 SP4

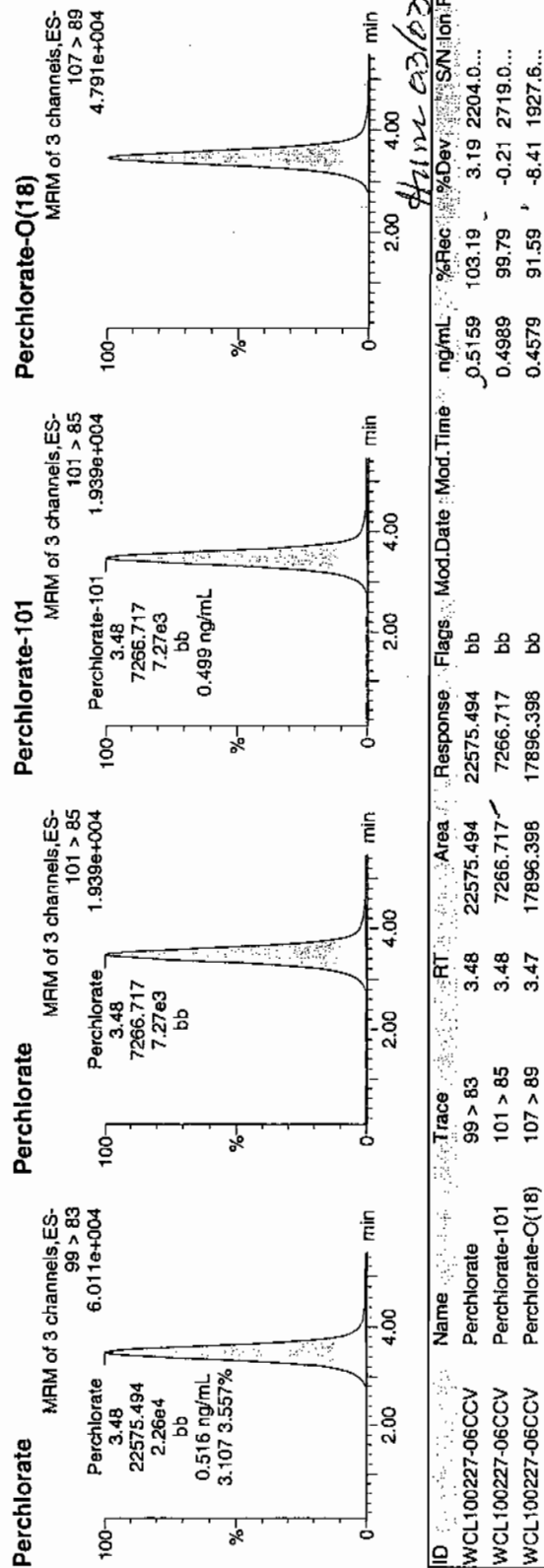
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301080a
Date: 02-Mar-2010
Time: 00:04:20
ID: WCL100227-06CCV
Vial: 1:2,A

Pure
03-02-10



4.791e+004

1.939e+004

1.939e+004

6.011e+004

99 > 83

101 > 85

107 > 89

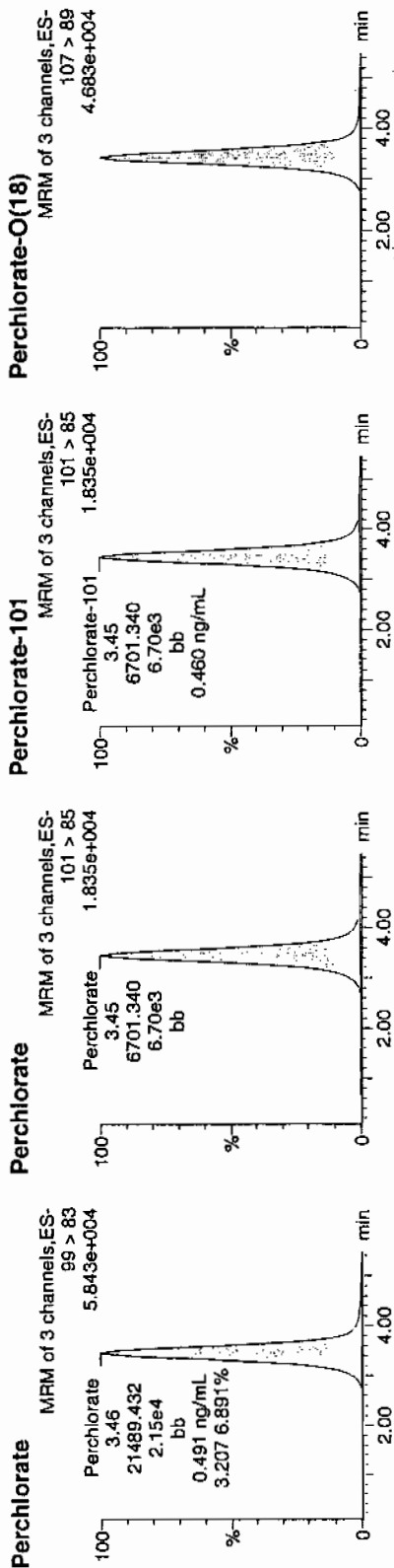
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\P perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301093a
Date: 02-Mar-2010
Time: 01:56:03
ID: WCL100227-06CCV
Vial: 1:2,A

*Per
and
03-02-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	IonRatio
WCL100227-06CCV	Perchlorate	99 > 83	3.46	21489.432	21489.432	bb			0.4911	98.22	-1.78	1165.7...	3.21
WCL100227-06CCV	Perchlorate-101	101 > 85	3.45	6701.340	6701.340	bb			0.4601	92.02	-7.98	2131.2...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.43	17389.604	17389.604	bb			0.4450	88.99	-11.01	2294.8...	

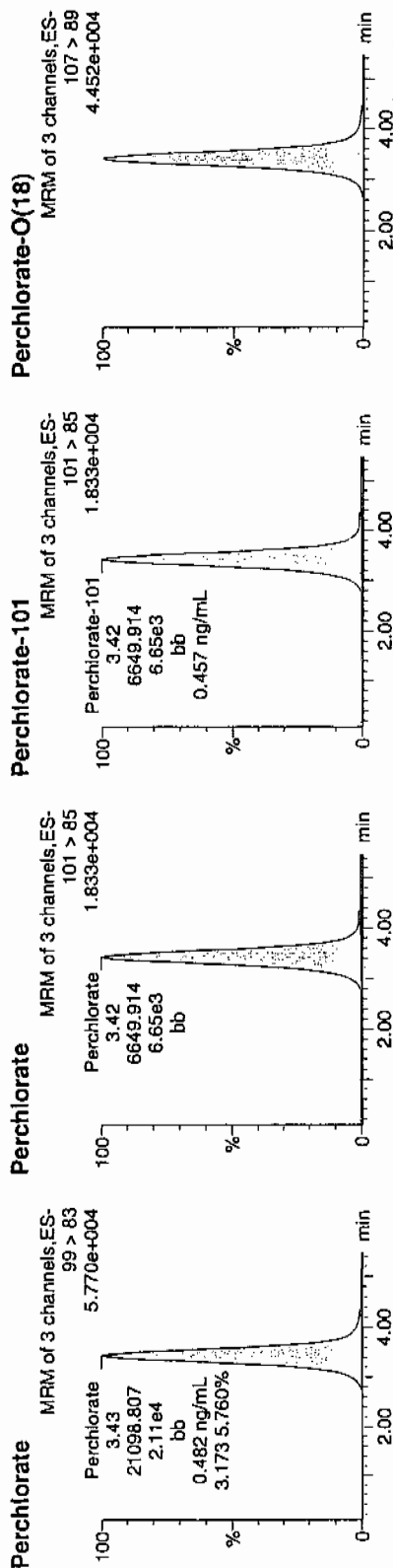
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301106a
Date: 02-Mar-2010
Time: 03:47:50
ID: WCL100227-06CCV
Vial: 1:2,A

*Run
and
03-02-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.43	21098.807	21098.807	bb			0.4822	96.44	-3.56	982.579	3.17
WCL100227-06CCV	Perchlorate-101	101 > 85	3.42	6649.914	6649.914	bb			0.4566	91.32	-8.68	370.292	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.41	16618.670	16618.670	bb			0.4252	85.05	-14.95	820.393	

Form 3

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1759-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	99.46	01-MAR-10 14:12	per0301011a
Perchlorate Isotope Ratio		3.01		01-MAR-10 14:12	per0301011a
Perchlorate-101	.05	.05	99.12	01-MAR-10 14:12	per0301011a
Perchlorate	.05	.05	99.36	01-MAR-10 15:38	per0301021a
Perchlorate Isotope Ratio		3.21		01-MAR-10 15:38	per0301021a
Perchlorate-101	.05	.05	92.98	01-MAR-10 15:38	per0301021a
Perchlorate	.05	.05	101.16	01-MAR-10 17:04	per0301031a
Perchlorate Isotope Ratio		3.17		01-MAR-10 17:04	per0301031a
Perchlorate-101	.05	.05	95.99	01-MAR-10 17:04	per0301031a
Perchlorate	.05	.05	96.24	01-MAR-10 18:47	per0301043a
Perchlorate Isotope Ratio		3.26		01-MAR-10 18:47	per0301043a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1759-1

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.04	88.6	01-MAR-10 18:47	per0301043a
Perchlorate	.05	.05	96.12	01-MAR-10 20:38	per0301056a
Perchlorate Isotope Ratio		3.2		01-MAR-10 20:38	per0301056a
Perchlorate-101	.05	.05	90.1	01-MAR-10 20:38	per0301056a
Perchlorate	.05	.05	94.34	01-MAR-10 22:30	per0301069a
Perchlorate Isotope Ratio		2.9		01-MAR-10 22:30	per0301069a
Perchlorate-101	.05	.05	97.68	01-MAR-10 22:30	per0301069a
Perchlorate	.05	.05	102.56	02-MAR-10 00:21	per0301082a
Perchlorate Isotope Ratio		3.11		02-MAR-10 00:21	per0301082a
Perchlorate-101	.05	.05	98.97	02-MAR-10 00:21	per0301082a
Perchlorate	.05	.05	93.81	02-MAR-10 02:13	per0301095a

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1759-1

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		3		02-MAR-10 02:13	per0301095a
Perchlorate-101	.05	.05	94.03	02-MAR-10 02:13	per0301095a
Perchlorate	.05	.04	87.45	02-MAR-10 04:05	per0301108a
Perchlorate Isotope Ratio		3.21		02-MAR-10 04:05	per0301108a
Perchlorate-101	.05	.04	81.87	02-MAR-10 04:05	per0301108a

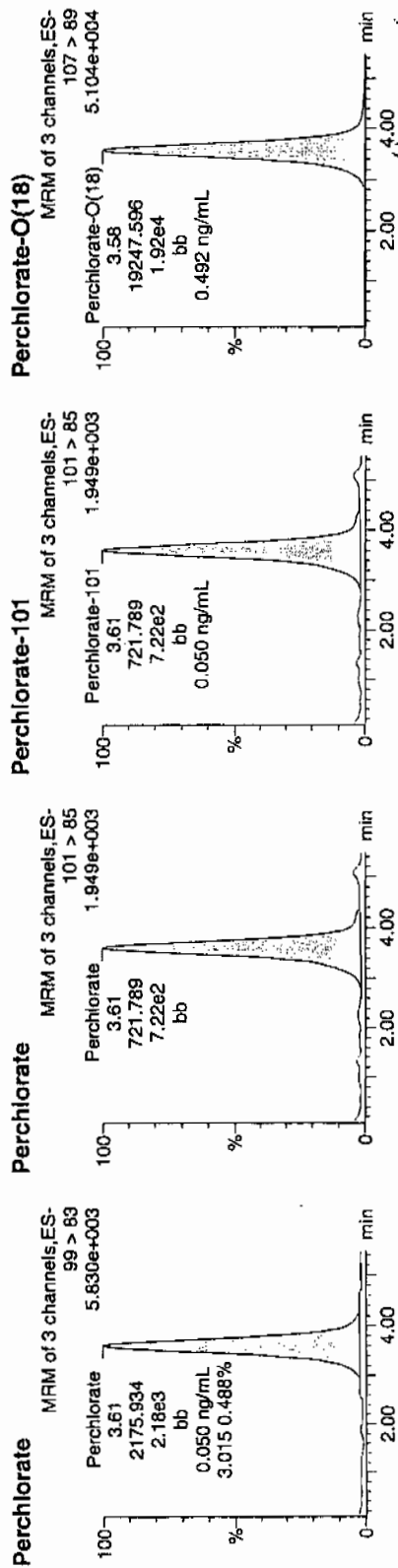
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301011a
Date: 01-Mar-2010
Time: 14:12:58
ID: WCL100227-07CRI
Vial: 1:2,B

Run
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.61	2175.934	2175.934	bb			0.0497	99.46	-0.54	242.908	3.01
WCL100227-07CRI	Perchlorate-101	101 > 85	3.61	721.789	721.789	bb			0.0496	99.12	-0.88	145.259	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.58	19247.596	19247.596	bb			0.4925	98.50	-1.50	5397.8...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301021a

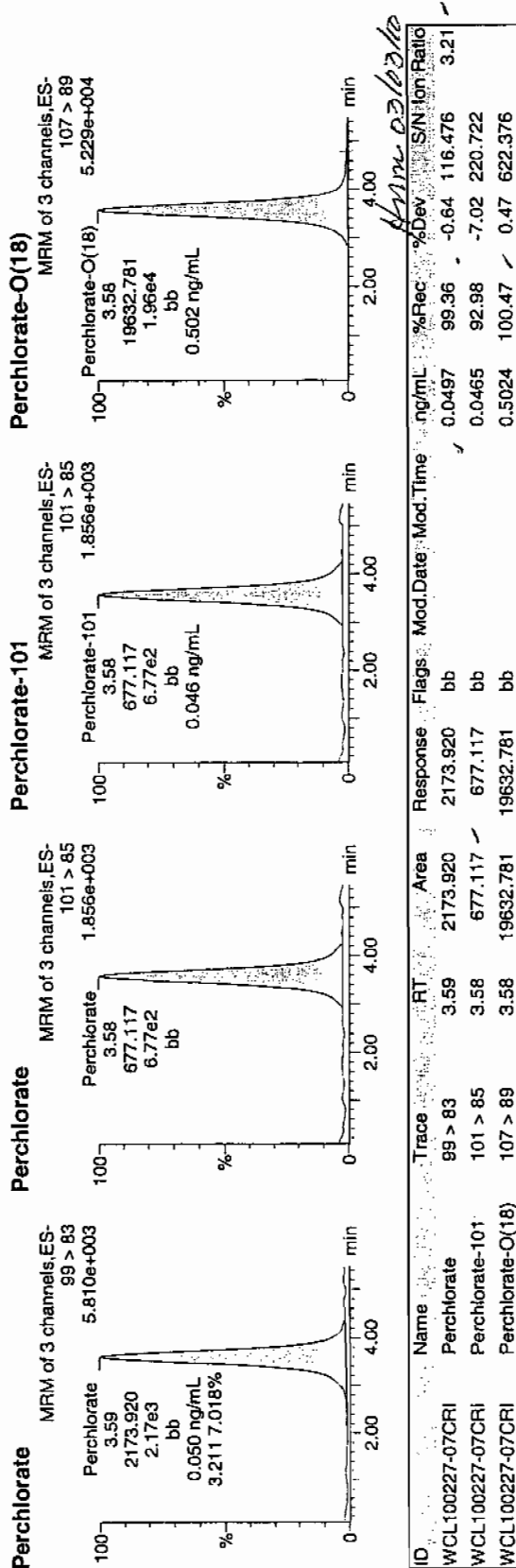
Date: 01-Mar-2010

Time: 15:38:29

ID: WCL100227-07CRI

Vial: 1:2,B

*Per
WCL
03-a-10*



Quantify Sample Report MassLynx 4.0 SP4

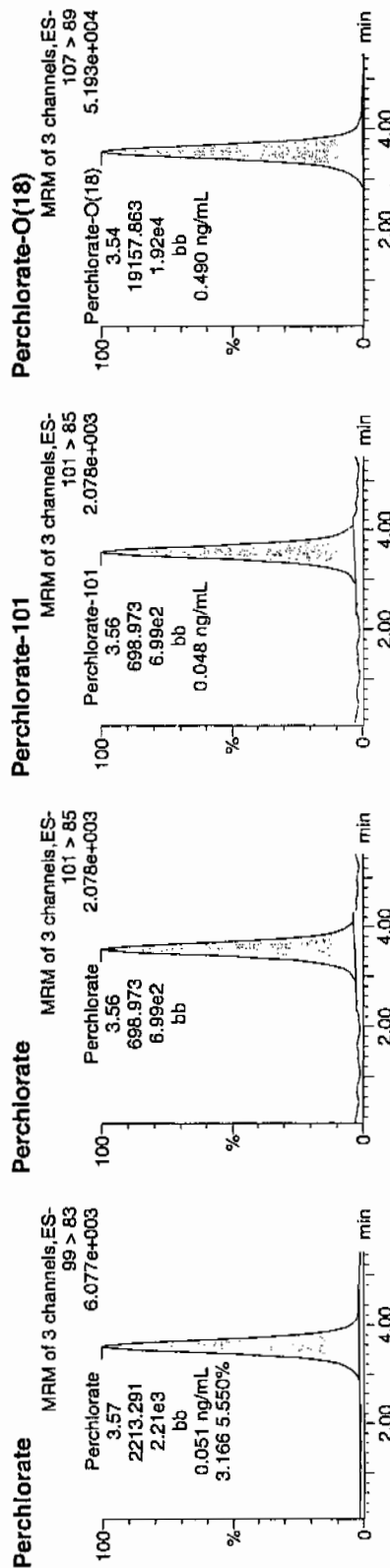
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
 Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301031a
 Date: 01-Mar-2010
 Time: 17:04:11
 ID: WCL100227-07CRI
 Vial: 1:2,B

Per
and 03-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.57	2213.291	2213.291	bb			0.0506	101.16	1.16	529.756	3.17
WCL100227-07CRI	Perchlorate-101	101 > 85	3.56	698.973	698.973	bb			0.0480	95.99	-4.01	73.196	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.54	19157.863	19157.863	bb			0.4902	98.04	-1.96	906.699	

Area 236312

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301043a

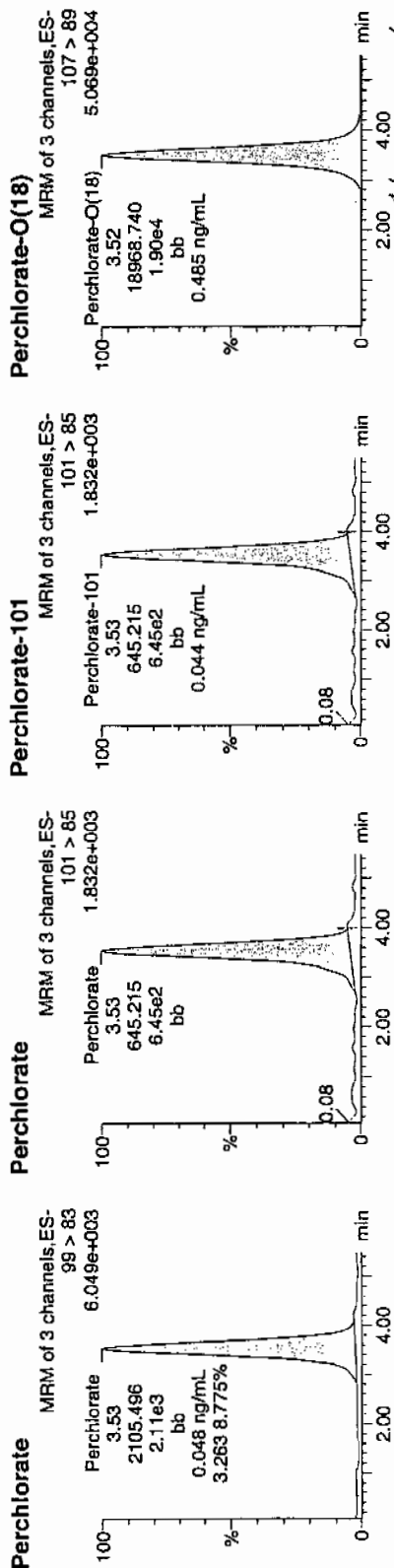
Date: 01-Mar-2010

Time: 18:47:22

ID: WCL100227-07CRI

Vial: 1:2,B

Per
03-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.53	2105.496	2105.496	bb			0.0481	96.24	-3.76	827.986	3.26
WCL100227-07CRI	Perchlorate-101	101 > 85	3.53	645.215	645.215	bb			0.0443	88.60	-11.40	257.268	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.52	18968.740	18968.740	bb			0.4854	97.07	-2.93	1758.6...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
 Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301056a

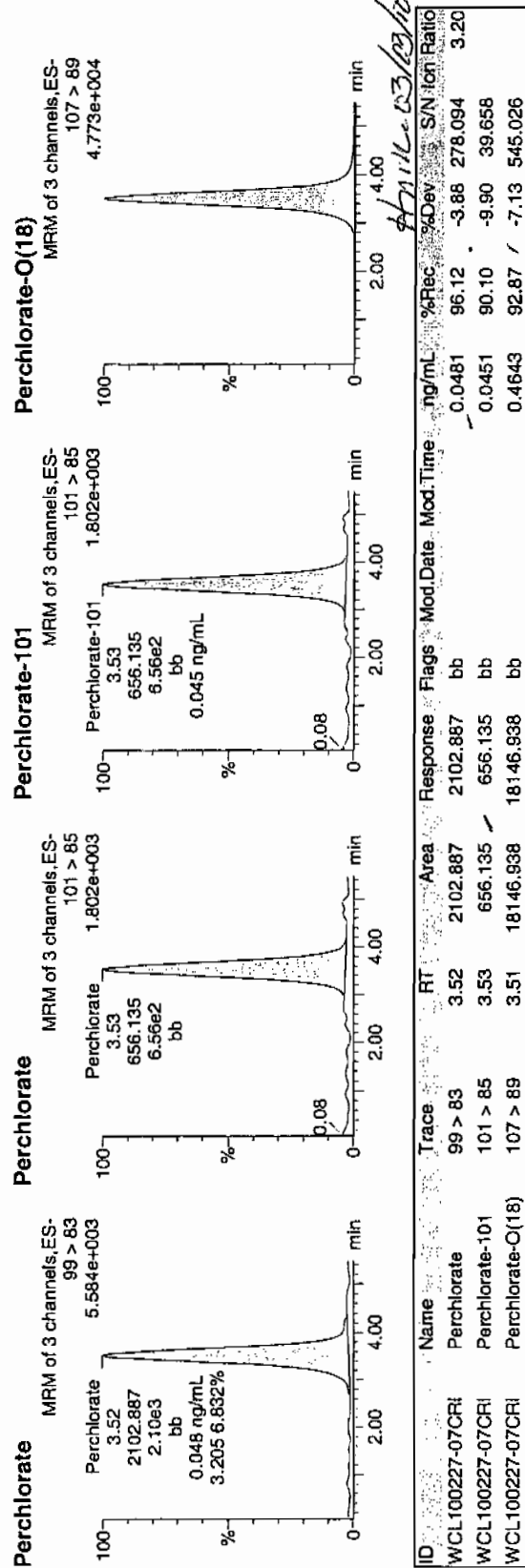
Date: 01-Mar-2010

Time: 20:38:45

ID: WCL100227-07CRI

Vial: 1:2,B

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 03-02-10



Quantify Sample Report MassLynx 4.0 SP4

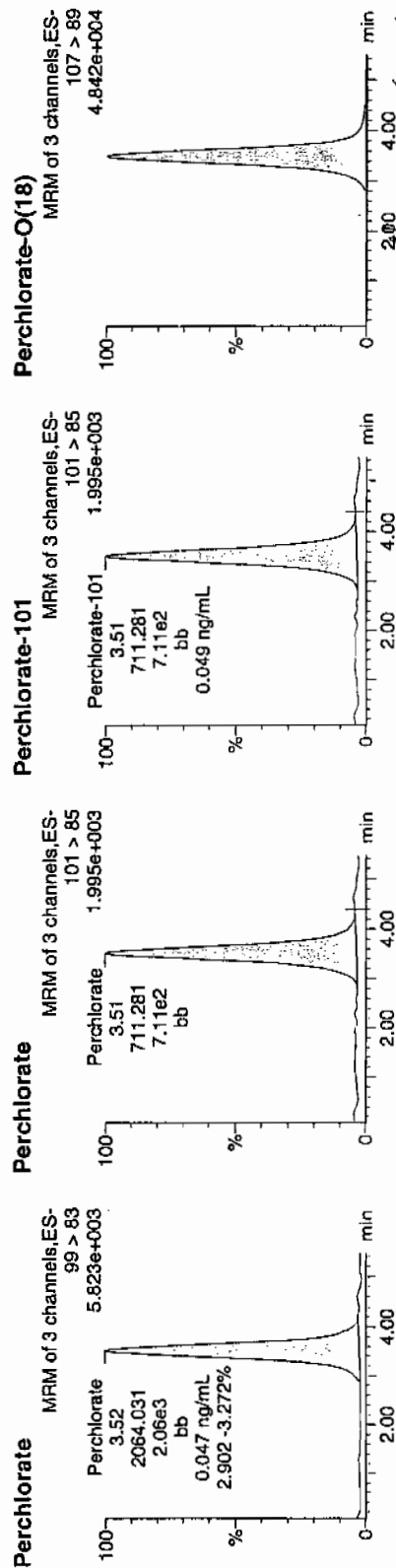
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301069a
Date: 01-Mar-2010
Time: 22:30:09
ID: WCL100227-07CRI
Vial: 1:2,B

Perchlorate



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.52	2064.031	2064.031	bb			0.0472	94.34	-5.66	405.117	2.90
WCL100227-07CRI	Perchlorate-101	101 > 85	3.51	711.281	711.281	bb			0.0488	97.66	-2.32	94.678	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.50	18314.125	18314.125	bb			0.4586	93.72	-6.28	4727.9...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301082a

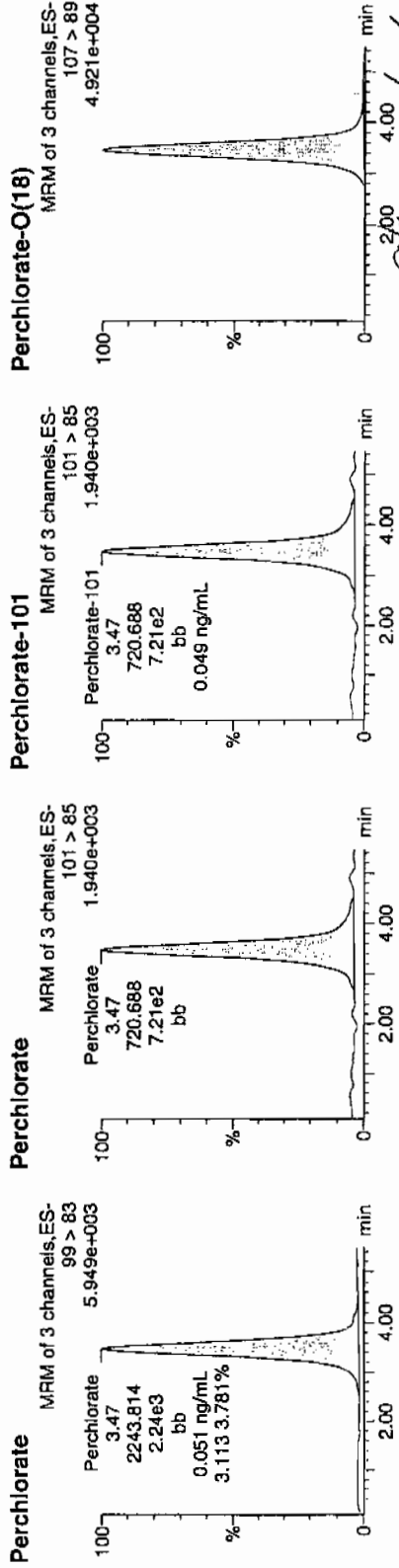
Date: 02-Mar-2010

Time: 00:21:39

ID: WCL100227-07CRI

Vial: 1:2,B

*Per
WCL
030110*



ID	Name	Trace	RT	Area	Response	Flags	Mod. Date	Mod. Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.47	2243.814	2243.814	bb			0.0513	102.56	2.56	229.350	3.11
WCL100227-07CRI	Perchlorate-101	101 > 85	3.47	720.688	720.688	bb			0.0495	98.97	-1.03	20.062	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.46	18354.885	18354.885	bb			0.4697	93.93	-6.07	3600.4...	

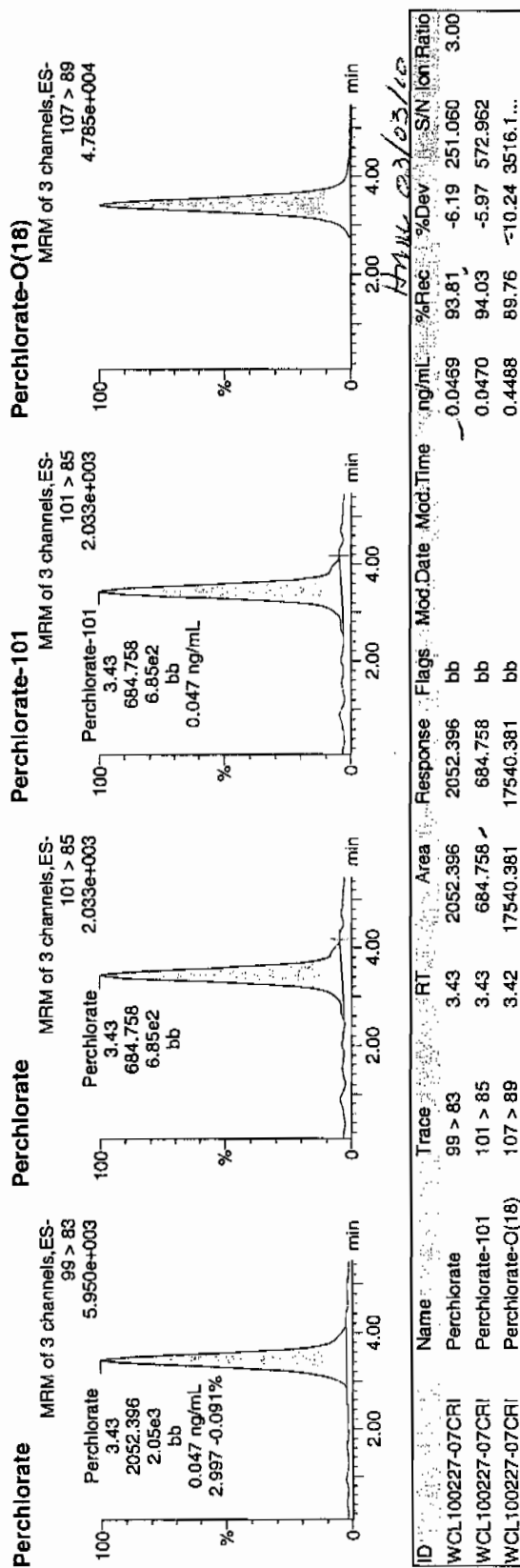
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

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Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301095a
Date: 02-Mar-2010
Time: 02:13:22
ID: WCL100227-07CRI
Vial: 1:2,B

Per
03-02-10



Quantify Sample Report MassLynx 4.0 SP4

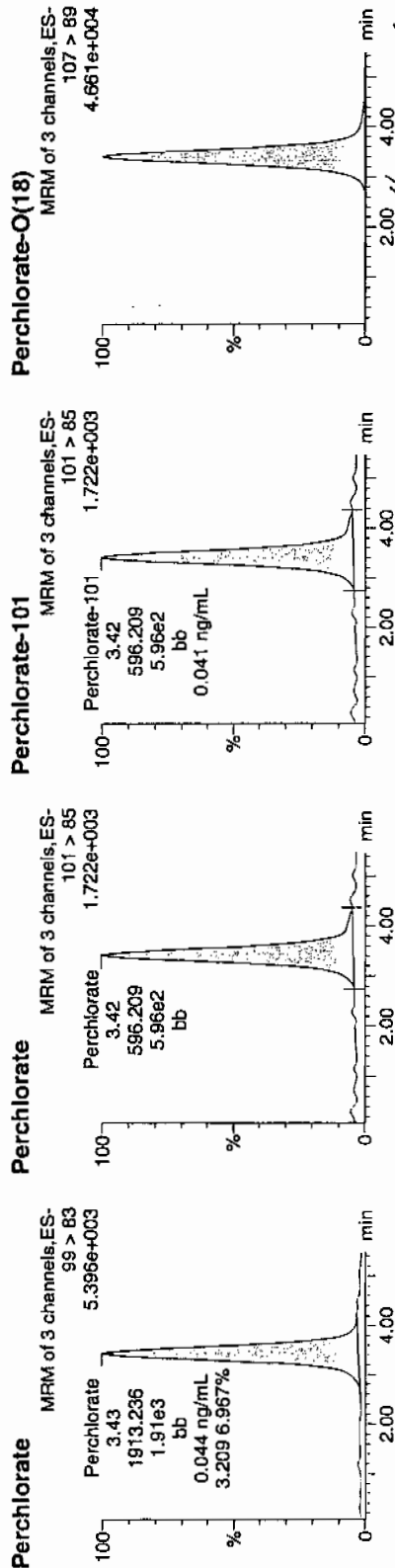
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

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 Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301108a
 Date: 02-Mar-2010
 Time: 04:05:07
 ID: WCL100227-07CRI
 Vial: 1:2,B

Per
and
3-2-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Ret	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.43	1913.236	1913.236	bb			0.0437	87.45	-12.55	518.963	3.21
WCL100227-07CRI	Perchlorate-101	101 > 85	3.42	596.209	596.209	bb			0.0409	81.87	-18.13	160.700	
WCL100227-07CRI	Perchlorate-Q(18)	107 > 89	3.41	17387.477	17387.477	bb			0.4449	88.98	-11.02	3405.9...	

QUALITY CONTROL

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 953004
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. MB
 Date Received: 24-FEB-10
 GEL Job No (SDG): 10-1759-1
 GEL Sample ID: 1202042696
 Date Filtered: 24-FEB-10
 Injection Volume (uL): 20
 %Solids: 100

CAS No.	Analyte ^A	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	01-MAR-10 22:38	per0301070a
	Perchlorate Isotope Ratio						1	01-MAR-10 22:38	per0301070a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	01-MAR-10 22:38	per0301070a
	Perchlorate-O(18)			5.00	ug/kg		1	01-MAR-10 22:38	per0301070a

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

*Concentration =

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

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

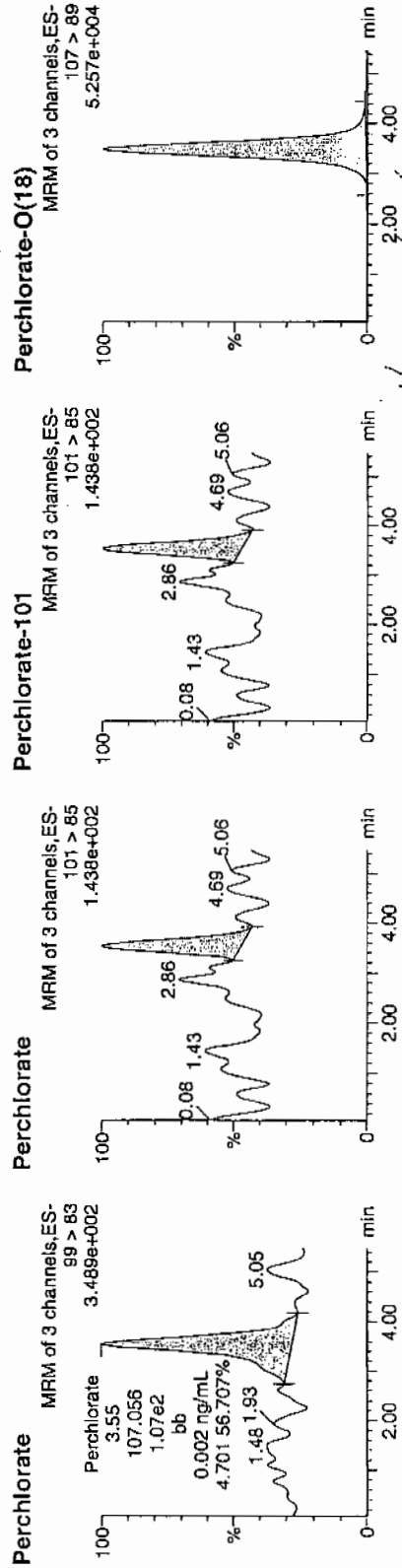
Page 70 of 134

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301070a
Date: 01-Mar-2010
Time: 22:38:41
ID: 1202042696
Vial: 2:5.C

LANC | 953005 | 3000 | 103 | 11 |
03-02-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202042696	Perchlorate	99 > 83	3.55	107.056	107.056	bb			0.0024			7.210	4.70
1202042696	Perchlorate-101	101 > 85	3.53	22.772	22.772	bb			0.0016			21.010	
1202042696	Perchlorate-O(18)	107 > 89	3.50	19541.510	19541.510	bb			0.5000	100.00	0.00	3836.7...	

0.0024
0.0016
0.5000

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 953004

Extraction Type: Solid Prep

Client Sample No.

LCS

Date Received: 24-FEB-10

GEL Job No (SDG): 10-1759-1

GEL Sample ID: 1202042697

Date Filtered: 24-FEB-10

Injection Volume (uL): 20

%Solids: 100

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	2.37	ug/kg		1	01-MAR-10 22:47	per0301071a
	Perchlorate Isotope Ratio			3.03			1	01-MAR-10 22:47	per0301071a
14797-73-0	Perchlorate-101	.5	2	2.35	ug/kg		1	01-MAR-10 22:47	per0301071a
	Perchlorate-O(18)			5.03	ug/kg		1	01-MAR-10 22:47	per0301071a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301071a

Date: 01-Mar-2010

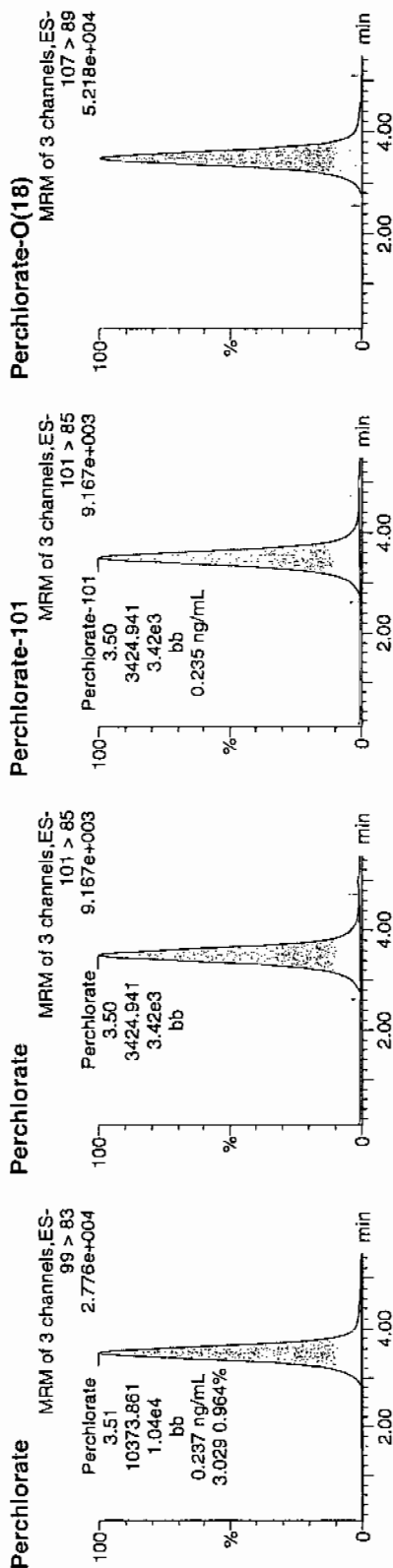
Time: 22:47:24

ID: 1202042697

Vial: 2:5,D

622
03-02-10

1202042697 | 30000 | 4.5 | 1 |



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202042697	Perchlorate	99 > 83	3.51	10373.861	10373.861	bb			0.2371	118.54	18.54	2568.3...	3.03
1202042697	Perchlorate-101	101 > 85	3.50	3424.941	3424.941	bb			0.2352	117.58	17.58	204.760	
1202042697	Perchlorate-O(18)	107 > 89	3.50	19640.018	19640.018	bb			0.5025	100.51	0.51	1396.0...	

$$\frac{10373.861}{13756.3} = 0.2371$$

4/11/10
03/03/10

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: 953004 Verified by: Lab SOP: GL-OA-E-067 REV# 6
 Analyst: Jareth Shirley Instrument: MicroMass Quattro Ultima
 Method: SW846 6850 Modified

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)	Spike Amt	Units	Serial Number	Comments:
1202042696 MS	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	Desalting cartridges used: B10003 K0402 & B1000510812
1202042697 LC	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246861001	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246861002	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
1202042698 MS (246861002)	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
1202042699 MS (246861002)	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246861003	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246861004	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246861005	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246861006	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246861007	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246861008	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246861009	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246872001	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246872002	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246872003	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246872004	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246872005	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246872006	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246872007	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
246872008	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	
1202042700 LC	24-FEB-2010 13:40:00	2	20	10	4	mL	UCL100210-02.1	

Type Sample Id Description

LC 1202042700 10 ug/L ICV/CV Second Source
 LC 1202042697 10 ug/L ICV/CV Second Source
 MS 1202042698 10 ug/L ICV/CV Second Source
 MS 1202042699 10 ug/L ICV/CV Second Source

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/01/10
 Extr. Injection Volume: 20uL
 Sequence Number: per030110a
 Initial Calibration Date: 03/01/10

Method: EPA 6850-Modified
 Int. Std.: UCL100126-01
 Mobile Phase Lot#: 1269535, 1261217
 Standard-Samp Reagent Lot#: 1261217

Reviewed BY: *hmc*
 Date: 03/03/10
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100227-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0301001a	IPB001	CWW	3/1/2010 12:47			1		USE	B
per0301002a	IPB001	CWW	3/1/2010 12:55			1		USE	B
per0301003a	WCLICAL-01	CWW	3/1/2010 13:04			1		USE	I
per0301004a	WCLICAL-02	CWW	3/1/2010 13:13			1		USE	I
per0301005a	WCLICAL-03	CWW	3/1/2010 13:21			1		USE	I
per0301006a	WCLICAL-04	CWW	3/1/2010 13:30			1		USE	I
per0301007a	WCLICAL-05	CWW	3/1/2010 13:38			1		USE	I
per0301008a	IPB002	CWW	3/1/2010 13:47			1		USE	B
per0301009a	WCLICV	CWW	3/1/2010 13:55			1		USE	C
per0301010a	IPB003	CWW	3/1/2010 14:04			1		USE	B
per0301011a	WCLCRI	CWW	3/1/2010 14:12			1		USE	C
per0301012a	1202057198	CWW	3/1/2010 14:21	959224	IDOC-KW-L	1	QCQA	USE	S
per0301013a	1202057199	CWW	3/1/2010 14:30	959224	IDOC-KW-L	1	QCQA	USE	S
per0301014a	1202057200	CWW	3/1/2010 14:38	959224	IDOC-KW-L	1	QCQA	USE	S
per0301015a	1202057201	CWW	3/1/2010 14:47	959224	IDOC-KW-L	1	QCQA	USE	S
per0301016a	1202057202	CWW	3/1/2010 14:55	959224	IDOC-KW-L	1	QCQA	USE	S
per0301017a	1202057203	CWW	3/1/2010 15:04	959224	IDOC-KW-L	1	QCQA	USE	S
per0301018a	248193001	CWW	3/1/2010 15:12	959224	IDOC-KW-L	1	QCQA	USE	S
per0301019a	WCLCCV	CWW	3/1/2010 15:21			1		USE	C
per0301020a	IPB004	CWW	3/1/2010 15:29			1		USE	B
per0301021a	WCLCRI	CWW	3/1/2010 15:38			1		USE	C
per0301022a	1202057204	CWW	3/1/2010 15:47	959227	IDOC-KW-S	1	QCQA	USE	S
per0301023a	1202057326	CWW	3/1/2010 15:55	959227	IDOC-KW-S	1	QCQA	USE	S
per0301024a	1202057327	CWW	3/1/2010 16:04	959227	IDOC-KW-S	1	QCQA	USE	S
per0301025a	1202057328	CWW	3/1/2010 16:12	959227	IDOC-KW-S	1	QCQA	USE	S
per0301026a	1202057329	CWW	3/1/2010 16:21	959227	IDOC-KW-S	1	QCQA	USE	S
per0301027a	1202057330	CWW	3/1/2010 16:29	959227	IDOC-KW-S	1	QCQA	USE	S
per0301028a	248195001	CWW	3/1/2010 16:38	959227	IDOC-KW-S	1	QCQA	USE	S
per0301029a	WCLCCV	CWW	3/1/2010 16:46			1		USE	C

per0301030a	IPB005	CWW	3/1/2010 16:55				1	USE	B
per0301031a	WCLCRI	CWW	3/1/2010 17:04				1	USE	C
per0301032a	246336007	CWW	3/1/2010 17:12	952425	10-1568-1		1	LANL	S
per0301033a	246336008	CWW	3/1/2010 17:21	952425	10-1568-1		1	LANL	S
per0301034a	246336009	CWW	3/1/2010 17:30	952425	10-1568-1		1	LANL	S
per0301035a	IPB006	CWW	3/1/2010 17:38				1	USE	B
per0301036a	1202042706	CWW	3/1/2010 17:47	953012	VARIOUS		1	LANL	S
per0301037a	1202042707	CWW	3/1/2010 17:55	953012	VARIOUS		1	LANL	S
per0301038a	1202042712	CWW	3/1/2010 18:04	953012	VARIOUS		1	LANL	S
per0301039a	246574002	CWW	3/1/2010 18:13	953012	10-1679		1	LANL	S
per0301040a	246598002	CWW	3/1/2010 18:21	953012	10-1696		1	LANL	S
per0301041a	WCLCCV	CWW	3/1/2010 18:30				1	USE	C
per0301042a	IPB007	CWW	3/1/2010 18:38				1	USE	B
per0301043a	WCLCRI	CWW	3/1/2010 18:47				1	USE	C
per0301044a	246690002	CWW	3/1/2010 18:55	953012	10-1722		1	LANL	S
per0301045a	1202042708	CWW	3/1/2010 19:04	953012	10-1722		1	LANL	S
per0301046a	1202042709	CWW	3/1/2010 19:13	953012	10-1722		1	LANL	S
per0301047a	246690003	CWW	3/1/2010 19:21	953012	10-1722		1	LANL	S
per0301048a	246853001	CWW	3/1/2010 19:30	953012	10-1753		1	LANL	S
per0301049a	246860001	CWW	3/1/2010 19:38	953012	10-1756		1	LANL	S
per0301050a	246862001	CWW	3/1/2010 19:47	953012	10-1780		1	LANL	S
per0301051a	246871001	CWW	3/1/2010 19:55	953012	10-1759		1	LANL	S
per0301052a	246877001	CWW	3/1/2010 20:04	953012	10-1774		1	LANL	S
per0301053a	246877004	CWW	3/1/2010 20:12	953012	10-1774		1	LANL	S
per0301054a	WCLCCV	CWW	3/1/2010 20:21				1	USE	C
per0301055a	IPB008	CWW	3/1/2010 20:30				1	USE	B
per0301056a	WCLCRI	CWW	3/1/2010 20:38				1	USE	C
per0301057a	246882001	CWW	3/1/2010 20:47	953012	10-1770		1	LANL	S
per0301058a	246882002	CWW	3/1/2010 20:56	953012	10-1770		1	LANL	S
per0301059a	246883001	CWW	3/1/2010 21:04	953012	10-1767-1		1	LANL	S
per0301060a	1202042710	CWW	3/1/2010 21:13	953012	10-1767-1		1	LANL	S
per0301061a	1202042711	CWW	3/1/2010 21:21	953012	10-1767-1		1	LANL	S
per0301062a	246883002	CWW	3/1/2010 21:30	953012	10-1767-1		1	LANL	S
per0301063a	246883003	CWW	3/1/2010 21:38	953012	10-1767-1		1	LANL	S
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per0301065a	246886002	CWW	3/1/2010 21:55	953012	10-1777		1	LANL	S
per0301066a	246886004	CWW	3/1/2010 22:04	953012	10-1777		1	LANL	S

per0301067a	WCLCCV	CWW	3/1/2010 22:12				1		USE	C
per0301068a	IPB009	CWW	3/1/2010 22:21				1		USE	B
per0301069a	WCLCRI	CWW	3/1/2010 22:30				1		USE	C
per0301070a	1202042696	CWW	3/1/2010 22:38	VARIOUS	953005		1	LANL	USE	S
per0301071a	1202042697	CWW	3/1/2010 22:47	VARIOUS	953005		1	LANL	USE	S
per0301072a	1202042700	CWW	3/1/2010 22:55	VARIOUS	953005		1	LANL	USE	S
per0301073a	246861001	CWW	3/1/2010 23:04	10-1756-1	953005		1	LANL	USE	S
per0301074a	246861002	CWW	3/1/2010 23:13	10-1756-1	953005		1	LANL	USE	S
per0301075a	1202042698	CWW	3/1/2010 23:21	10-1756-1	953005		1	LANL	USE	S
per0301076a	1202042699	CWW	3/1/2010 23:30	10-1756-1	953005		1	LANL	USE	S
per0301077a	246861003	CWW	3/1/2010 23:38	10-1756-1	953005		1	LANL	USE	S
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per0301079a	246861005	CWW	3/1/2010 23:55	10-1756-1	953005		1	LANL	USE	S
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per0301081a	IPB010	CWW	3/2/2010 0:13				1		USE	B
per0301082a	WCLCRI	CWW	3/2/2010 0:21				1		USE	C
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per0301095a	WCLCRI	CWW	3/2/2010 2:13				1		USE	C
per0301096a	246872007	CWW	3/2/2010 2:21	10-1759-1	953005		1	LANL	USE	S
per0301097a	246872008	CWW	3/2/2010 2:30	10-1759-1	953005		1	LANL	USE	S
per0301098a	IPB012	CWW	3/2/2010 2:39				1		USE	B
per0301099a	1202052905	CWW	3/2/2010 2:47	VARIOUS	957439		1	LANL	USE	S
per0301100a	1202052906	CWW	3/2/2010 2:56	VARIOUS	957439		1	LANL	USE	S
per0301101a	1202052909	CWW	3/2/2010 3:05	VARIOUS	957439		1	LANL	USE	S
per0301102a	247434001	CWW	3/2/2010 3:13	10-1929	957439		1	LANL	USE	S
per0301103a	247437006	CWW	3/2/2010 3:22	10-1931	957439		1	LANL	USE	S

per0301104a	247438001	CWW	3/2/2010 3:30	957439	10-1932	1	LANL	USE	S
per0301105a	247441001	CWW	3/2/2010 3:39	957439	10-1934	1	LANL	USE	S
per0301106a	WCLCCV	CWW	3/2/2010 3:47			1		USE	C
per0301107a	IPB013	CWW	3/2/2010 3:56			1		USE	B
per0301108a	WCLCRl	CWW	3/2/2010 4:05			1		USE	C
per0301109a	247443004	CWW	3/2/2010 4:13	957439	10-1935	1	LANL	USE	S
per0301110a	247449001	CWW	3/2/2010 4:22	957439	10-1936	1	LANL	USE	S
per0301111a	247548001	CWW	3/2/2010 4:30	957439	10-1965-1	1	LANL	USE	S
per0301112a	247548002	CWW	3/2/2010 4:39	957439	10-1965-1	1	LANL	USE	S
per0301113a	247559001	CWW	3/2/2010 4:47	957439	10-1954-1	1	LANL	USE	S
per0301114a	247560001	CWW	3/2/2010 4:56	957439	10-1951	1	LANL	USE	S
per0301115a	247567001	CWW	3/2/2010 5:05	957439	10-1957-1	1	LANL	USE	S
per0301116a	247771001	CWW	3/2/2010 5:13	957439	10-1973-1	1	LANL	USE	S
per0301117a	247780001	CWW	3/2/2010 5:22	957439	10-1976	1	LANL	USE	S
per0301118a	247793001	CWW	3/2/2010 5:30	957439	10-1983	1	LANL	USE	S
per0301119a	WCLCCV	CWW	3/2/2010 5:39			1		USE	C
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per0301121a	WCLCRl	CWW	3/2/2010 5:56			1		USE	C
per0301122a	247807001	CWW	3/2/2010 6:04	957439	10-1991-1	1	LANL	USE	S
per0301123a	1202052907	CWW	3/2/2010 6:13	957439	10-1991-1	1	LANL	USE	S
per0301124a	1202052908	CWW	3/2/2010 6:22	957439	10-1991-1	1	LANL	USE	S
per0301125a	247807002	CWW	3/2/2010 6:30	957439	10-1991-1	1	LANL	USE	S
per0301126a	247807003	CWW	3/2/2010 6:39	957439	10-1991-1	1	LANL	USE	S
per0301127a	247807004	CWW	3/2/2010 6:47	957439	10-1991-1	1	LANL	USE	S
per0301128a	IPB015	CWW	3/2/2010 6:56			1		USE	B
per0301129a	1202042707	CWW	3/2/2010 7:07	953012	VARIOUS	1	LANL	DUSE	S
per0301130a	246598002	CWW	3/2/2010 7:16	953012	10-1696	2	LANL	USE	S
per0301131a	UCL100226-01.1	CWW	3/2/2010 7:24	Screen		1	GEL	USE	S
per0301132a	WCLCCV	CWW	3/2/2010 7:33			1		USE	C
per0301133a	IPB016	CWW	3/2/2010 7:42			1		USE	B
per0301134a	WCLCRl	CWW	3/2/2010 7:50			1		USE	C

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

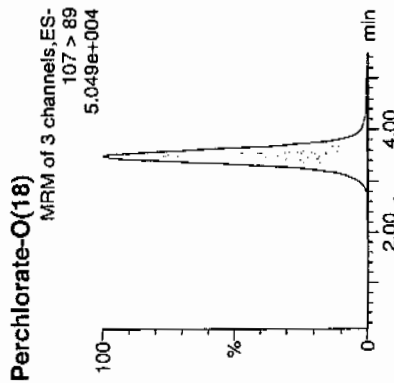
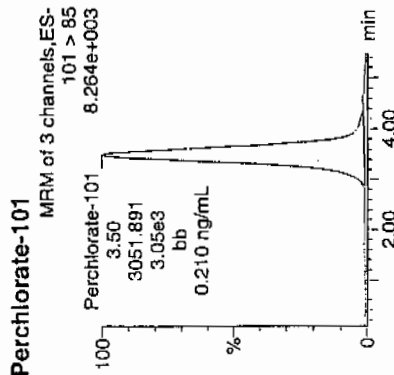
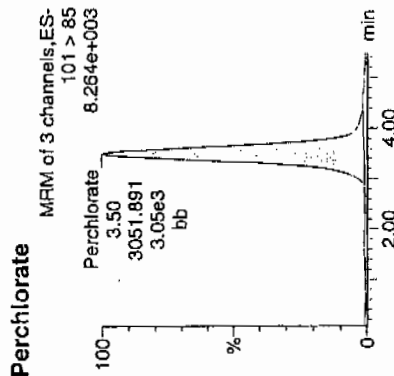
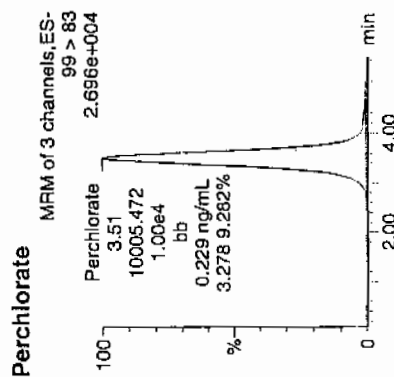
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Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301075a
Date: 01-Mar-2010
Time: 23:21:35
ID: 1202042698
Vial: 2:6,B

6000
03-02-10

1202042698 | 2002 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202042698	Perchlorate	99 > 83	3.51	10005.472	10005.472	bb			0.2287	114.33	14.33	1834.1...	3.28
1202042698	Perchlorate-101	101 > 85	3.50	3051.891	3051.891	bb			0.2095	104.77	4.77	546.906	
1202042698	Perchlorate-O(18)	107 > 89	3.48	18764.109	18764.109	bb			0.4801	96.03	-3.97	3452.2...	

Handwritten: 03/03/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per030110a.qld

Last Altered: Tuesday, March 02, 2010 8:52:39 AM Eastern Standard Time
Printed: Tuesday, March 02, 2010 9:12:14 AM Eastern Standard Time

Name: per0301076a

Date: 01-Mar-2010

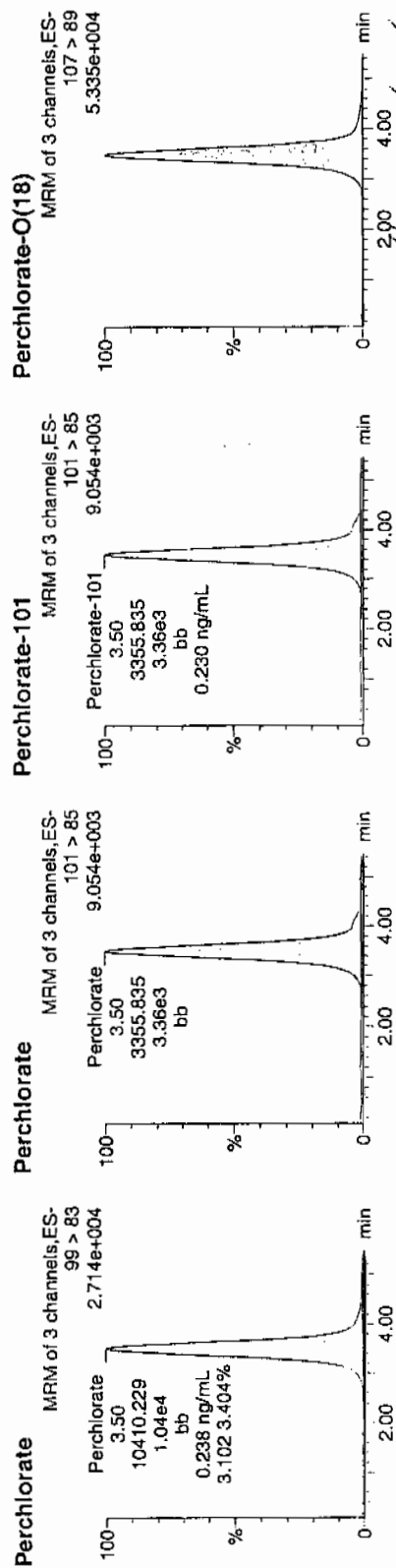
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ID: 1202042699

Vial: 2:6,C

623
03-02-10

1202042699 | 150 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202042699	Perchlorate	99 > 83	3.50	10410.229	10410.229	bb			0.2379	118.96	18.96	2632.9...	3.10
1202042699	Perchlorate-101	101 > 85	3.50	3355.835	3355.835	bb			0.2304	115.21	15.21	641.974	
1202042699	Perchlorate-O(18)	107 > 89	3.48	19887.482	19887.482	bb			0.5089	101.77	1.77	946.134	

Isotope Ratio Criteria

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

2.31-3.85

Tune Criteria

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

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1759**

Sample Analysis

Sample ID	Client ID
246871001	RE15-10-8380
1202042566	Method Blank (MB) ICP
1202042567	Laboratory Control Sample (LCS)
1202042570	246882001(RE46-10-12762L) Serial Dilution (SD)
1202042568	246882001(RE46-10-12762D) Sample Duplicate (DUP)
1202042569	246882001(RE46-10-12762S) Matrix Spike (MS)
1202042571	Method Blank (MB) ICP-MS
1202042572	Laboratory Control Sample (LCS)
1202042575	246882001(RE46-10-12762L) Serial Dilution (SD)
1202042573	246882001(RE46-10-12762D) Sample Duplicate (DUP)
1202042574	246882001(RE46-10-12762S) Matrix Spike (MS)
1202051937	Method Blank (MB) CVAA
1202051938	Laboratory Control Sample (LCS)
1202051941	247098001(RE46-10-13032L) Serial Dilution (SD)
1202051939	247098001(RE46-10-13032D) Sample Duplicate (DUP)
1202051940	247098001(RE46-10-13032S) Matrix Spike (MS)

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

Method/Analysis Information

Analytical Batch: 952949, 952951 and 956996

Prep Batch : 952948, 952950 and 956994

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

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits with the exceptions of iron and 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 for all applicable analytes with the exception of thallium; however, all sample results were less than the MDL.

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: 246882001 (RE46-10-12762) and 247098001 (RE46-10-13032).

Matrix Spike (MS) Recovery Statement

The percent recoveries (%R) obtained from the MS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. All applicable elements met the acceptance criteria.

Duplicate Relative Percent Difference (RPD) Statement

The RPD obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is 5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control of +/-RL is used to evaluate the DUP results. All applicable analytes met these requirements.

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations that are 25X the IDL/MDL for CVAA, 50X the IDL/MDL for ICP, and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. All applicable analytes met the acceptance criteria of less than 10% difference (%D).

Technical Information**Holding Time Specifications**

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

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG did not require dilutions.

Preparation Information

The samples in this SDG were prepared exactly according to the cited SOP.

Miscellaneous Information**Electronic Packaging Comment**

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

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

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Kristen Pearson Date: 3/11/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246871001

BASIS: As Received

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8380

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7440-70-2	Calcium	76.6	ug/L	J	50	200	200	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-50-8	Copper	4.7	ug/L	J	3	10	10	1	P	HSC	03/10/10 11:17	030910-2	952949
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/10/10 11:17	030910-2	952949
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	03/07/10 09:55	100306-3	952951
7439-95-4	Magnesium	153	ug/L	J	85	300	300	1	P	HSC	03/10/10 11:17	030910-2	952949
7439-96-5	Manganese	1.42	ug/L	J	1	5	5	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/25/10 11:50	022510W1-9	956996
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-09-7	Potassium	229	ug/L		50	150	150	1	P	HSC	03/10/10 11:17	030910-2	952949
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-23-5	Sodium	247	ug/L	J	100	300	300	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	BAJ	03/07/10 07:16	100306-4	952951
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	03/07/10 10:30	100306-8	952951
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	03/10/10 11:17	030910-2	952949
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/05/10 04:15	030410-1	952949

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952949	952948	SW846 3005A	50	mL	50	mL	02/22/10	AXG2
952951	952950	SW846 3005A	50	mL	50	mL	02/22/10	AXG2
956996	956994	SW846 7470A Prep	20	mL	20	mL	02/24/10	TXB3

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.12	ug/L	5	ug/L	102.5	90.0 – 110.0	AV	25-FEB-10 11:07	022510W1-9
	Zinc	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	04-MAR-10 15:39	030410-1
	Antimony	51.7	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	07-MAR-10 03:37	100306-4
	Beryllium	53.5	ug/L	50	ug/L	106.9	90.0 – 110.0	MS	07-MAR-10 03:37	100306-4
	Cadmium	52.4	ug/L	50	ug/L	104.8	90.0 – 110.0	MS	07-MAR-10 03:37	100306-4
	Manganese	53.6	ug/L	50	ug/L	107.3	90.0 – 110.0	MS	07-MAR-10 03:37	100306-4
	Thallium	53.5	ug/L	50	ug/L	106.9	90.0 – 110.0	MS	07-MAR-10 03:37	100306-4
	Lead	51	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	07-MAR-10 09:03	100306-3
	Uranium	53.9	ug/L	50	ug/L	107.9	90.0 – 110.0	MS	07-MAR-10 09:12	100306-8
	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Arsenic	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Barium	523	ug/L	500	ug/L	104.6	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Calcium	5230	ug/L	5000	ug/L	104.5	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Chromium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Cobalt	529	ug/L	500	ug/L	105.8	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Copper	520	ug/L	500	ug/L	103.9	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Iron	5280	ug/L	5000	ug/L	105.5	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Magnesium	5460	ug/L	5000	ug/L	109.2	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Nickel	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Potassium	2570	ug/L	2500	ug/L	102.9	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Selenium	2650	ug/L	2500	ug/L	106.2	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Silver	266	ug/L	250	ug/L	106.3	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Sodium	2480	ug/L	2500	ug/L	99.1	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
	Vanadium	525	ug/L	500	ug/L	105.1	90.0 – 110.0	P	09-MAR-10 14:54	030910-2
CCV01										
	Mercury	4.94	ug/L	5	ug/L	98.7	80.0 – 120.0	AV	25-FEB-10 11:13	022510W1-9
	Zinc	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	04-MAR-10 16:39	030410-1
	Antimony	45.9	ug/L	50	ug/L	91.7	90.0 – 110.0	MS	07-MAR-10 04:03	100306-4
	Beryllium	46.9	ug/L	50	ug/L	93.8	90.0 – 110.0	MS	07-MAR-10 04:03	100306-4
	Cadmium	45.3	ug/L	50	ug/L	90.6	90.0 – 110.0	MS	07-MAR-10 04:03	100306-4

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Manganese	47.4	ug/L	50	ug/L	94.7	90.0 - 110.0	MS	07-MAR-10 04:03	100306-4
	Thallium	46.1	ug/L	50	ug/L	92.2	90.0 - 110.0	MS	07-MAR-10 04:03	100306-4
	Lead	52.2	ug/L	50	ug/L	104.3	90.0 - 110.0	MS	07-MAR-10 09:12	100306-3
	Uranium	54.5	ug/L	50	ug/L	109.1	90.0 - 110.0	MS	07-MAR-10 09:20	100306-8
	Aluminum	5100	ug/L	5000	ug/L	102.1	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Arsenic	522	ug/L	500	ug/L	104.4	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Barium	496	ug/L	500	ug/L	99.3	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Calcium	5040	ug/L	5000	ug/L	100.7	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Chromium	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Cobalt	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Copper	493	ug/L	500	ug/L	98.5	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Iron	5230	ug/L	5000	ug/L	104.6	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Magnesium	5250	ug/L	5000	ug/L	105	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Nickel	504	ug/L	500	ug/L	100.9	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Potassium	5330	ug/L	5000	ug/L	106.6	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Selenium	517	ug/L	500	ug/L	103.3	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Silver	498	ug/L	500	ug/L	99.7	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Sodium	10800	ug/L	10000	ug/L	108.5	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
	Vanadium	501	ug/L	500	ug/L	100.2	90.0 - 110.0	P	09-MAR-10 15:42	030910-2
CCV02										
	Mercury	5.03	ug/L	5	ug/L	100.6	80.0 - 120.0	AV	25-FEB-10 11:37	022510W1-9
	Zinc	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	04-MAR-10 17:00	030410-1
	Antimony	49.5	ug/L	50	ug/L	99.1	90.0 - 110.0	MS	07-MAR-10 04:46	100306-4
	Beryllium	50.3	ug/L	50	ug/L	100.5	90.0 - 110.0	MS	07-MAR-10 04:46	100306-4
	Cadmium	49.4	ug/L	50	ug/L	98.8	90.0 - 110.0	MS	07-MAR-10 04:46	100306-4
	Manganese	51	ug/L	50	ug/L	102	90.0 - 110.0	MS	07-MAR-10 04:46	100306-4
	Thallium	50.1	ug/L	50	ug/L	100.2	90.0 - 110.0	MS	07-MAR-10 04:46	100306-4
	Lead	51	ug/L	50	ug/L	102	90.0 - 110.0	MS	07-MAR-10 09:28	100306-3
	Uranium	54.6	ug/L	50	ug/L	109.2	90.0 - 110.0	MS	07-MAR-10 09:36	100306-8
	Aluminum	4960	ug/L	5000	ug/L	99.3	90.0 - 110.0	P	09-MAR-10 15:58	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Arsenic	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Barium	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Calcium	5100	ug/L	5000	ug/L	102.1	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Chromium	496	ug/L	500	ug/L	99.3	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Cobalt	507	ug/L	500	ug/L	101.3	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Copper	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Iron	5130	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Magnesium	5230	ug/L	5000	ug/L	104.6	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Nickel	504	ug/L	500	ug/L	100.9	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Potassium	5140	ug/L	5000	ug/L	102.8	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Selenium	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Silver	498	ug/L	500	ug/L	99.7	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Sodium	9970	ug/L	10000	ug/L	99.7	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
	Vanadium	502	ug/L	500	ug/L	100.3	90.0 - 110.0	P	09-MAR-10 15:58	030910-2
CCV03										
	Mercury	5.3	ug/L	5	ug/L	106.1	80.0 - 120.0	AV	25-FEB-10 12:00	022510W1-9
	Zinc	490	ug/L	500	ug/L	97.9	90.0 - 110.0	P	04-MAR-10 18:00	030410-1
	Antimony	51.7	ug/L	50	ug/L	103.3	90.0 - 110.0	MS	07-MAR-10 05:39	100306-4
	Beryllium	53.5	ug/L	50	ug/L	107	90.0 - 110.0	MS	07-MAR-10 05:39	100306-4
	Cadmium	51.4	ug/L	50	ug/L	102.8	90.0 - 110.0	MS	07-MAR-10 05:39	100306-4
	Manganese	52.9	ug/L	50	ug/L	105.7	90.0 - 110.0	MS	07-MAR-10 05:39	100306-4
	Thallium	47.3	ug/L	50	ug/L	94.5	90.0 - 110.0	MS	07-MAR-10 05:39	100306-4
	Lead	50.9	ug/L	50	ug/L	101.8	90.0 - 110.0	MS	07-MAR-10 09:46	100306-3
	Uranium	54.2	ug/L	50	ug/L	108.3	90.0 - 110.0	MS	07-MAR-10 09:51	100306-8
	Aluminum	5030	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	09-MAR-10 16:20	030910-2
	Arsenic	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	09-MAR-10 16:20	030910-2
	Barium	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	09-MAR-10 16:20	030910-2
	Calcium	5090	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	09-MAR-10 16:20	030910-2
	Chromium	500	ug/L	500	ug/L	100	90.0 - 110.0	P	09-MAR-10 16:20	030910-2
	Cobalt	510	ug/L	500	ug/L	102	90.0 - 110.0	P	09-MAR-10 16:20	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Copper	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	09-MAR-10 16:20	030910-2
	Iron	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	09-MAR-10 16:20	030910-2
	Magnesium	5160	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	09-MAR-10 16:20	030910-2
	Nickel	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	09-MAR-10 16:20	030910-2
	Potassium	4990	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	09-MAR-10 16:20	030910-2
	Selenium	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	09-MAR-10 16:20	030910-2
	Silver	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	09-MAR-10 16:20	030910-2
	Sodium	10400	ug/L	10000	ug/L	103.7	90.0 – 110.0	P	09-MAR-10 16:20	030910-2
	Vanadium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	09-MAR-10 16:20	030910-2
CCV04										
	Mercury	5.03	ug/L	5	ug/L	100.7	80.0 – 120.0	AV	25-FEB-10 12:24	022510W1-9
	Zinc	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	04-MAR-10 18:29	030410-1
	Antimony	47.1	ug/L	50	ug/L	94.2	90.0 – 110.0	MS	07-MAR-10 06:33	100306-4
	Beryllium	48.2	ug/L	50	ug/L	96.4	90.0 – 110.0	MS	07-MAR-10 06:33	100306-4
	Cadmium	46.8	ug/L	50	ug/L	93.6	90.0 – 110.0	MS	07-MAR-10 06:33	100306-4
	Manganese	48.2	ug/L	50	ug/L	96.4	90.0 – 110.0	MS	07-MAR-10 06:33	100306-4
	Thallium	46.1	ug/L	50	ug/L	92.2	90.0 – 110.0	MS	07-MAR-10 06:33	100306-4
	Uranium	48.4	ug/L	50	ug/L	96.7	90.0 – 110.0	MS	07-MAR-10 10:03	100306-8
	Lead	51	ug/L	50	ug/L	102	90.0 – 110.0	MS	07-MAR-10 10:04	100306-3
	Aluminum	4960	ug/L	5000	ug/L	99.2	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Arsenic	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Barium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Calcium	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Chromium	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Cobalt	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Copper	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Iron	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Magnesium	5250	ug/L	5000	ug/L	105.1	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Nickel	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Potassium	4990	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	09-MAR-10 17:24	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Selenium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Silver	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Sodium	9950	ug/L	10000	ug/L	99.5	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
	Vanadium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	09-MAR-10 17:24	030910-2
CCV05										
	Mercury	5.08	ug/L	5	ug/L	101.7	80.0 – 120.0	AV	25-FEB-10 12:48	022510W1-9
	Zinc	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	04-MAR-10 19:43	030410-1
	Antimony	51.8	ug/L	50	ug/L	103.6	90.0 – 110.0	MS	07-MAR-10 07:27	100306-4
	Beryllium	53.6	ug/L	50	ug/L	107.1	90.0 – 110.0	MS	07-MAR-10 07:27	100306-4
	Cadmium	50.9	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	07-MAR-10 07:27	100306-4
	Manganese	53.1	ug/L	50	ug/L	106.2	90.0 – 110.0	MS	07-MAR-10 07:27	100306-4
	Thallium	50	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	07-MAR-10 07:27	100306-4
	Uranium	53	ug/L	50	ug/L	105.9	90.0 – 110.0	MS	07-MAR-10 10:22	100306-8
	Aluminum	4850	ug/L	5000	ug/L	97	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Arsenic	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Barium	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Calcium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Chromium	495	ug/L	500	ug/L	99	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Cobalt	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Copper	490	ug/L	500	ug/L	98	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Iron	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Magnesium	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Nickel	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Potassium	4950	ug/L	5000	ug/L	99	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Selenium	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Silver	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Sodium	9690	ug/L	10000	ug/L	96.9	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
	Vanadium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	09-MAR-10 17:45	030910-2
CCV06										
	Zinc	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	04-MAR-10 20:45	030410-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Uranium	54.6	ug/L	50	ug/L	109.3	90.0 - 110.0	MS	07-MAR-10 10:38	100306-8
	Aluminum	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Arsenic	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Barium	498	ug/L	500	ug/L	99.7	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Calcium	5090	ug/L	5000	ug/L	101.7	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Chromium	499	ug/L	500	ug/L	99.7	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Copper	495	ug/L	500	ug/L	99	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Iron	5300	ug/L	5000	ug/L	105.9	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Magnesium	5280	ug/L	5000	ug/L	105.6	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Nickel	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Potassium	4920	ug/L	5000	ug/L	98.4	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Selenium	516	ug/L	500	ug/L	103.2	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Silver	501	ug/L	500	ug/L	100.3	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Sodium	11200	ug/L	10000	ug/L	111.6	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
	Vanadium	503	ug/L	500	ug/L	100.7	90.0 - 110.0	P	09-MAR-10 19:10	030910-2
CCV07										
	Zinc	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	04-MAR-10 21:48	030410-1
	Aluminum	5120	ug/L	5000	ug/L	102.3	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Arsenic	505	ug/L	500	ug/L	101	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Barium	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Calcium	5150	ug/L	5000	ug/L	102.9	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Chromium	506	ug/L	500	ug/L	101.1	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Cobalt	516	ug/L	500	ug/L	103.1	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Copper	501	ug/L	500	ug/L	100.2	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Iron	5240	ug/L	5000	ug/L	104.8	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Magnesium	5370	ug/L	5000	ug/L	107.5	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Nickel	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Potassium	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	09-MAR-10 20:21	030910-2
	Selenium	525	ug/L	500	ug/L	105.1	90.0 - 110.0	P	09-MAR-10 20:21	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV08	Silver	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	09-MAR-10 20:21	030910-2
	Sodium	10600	ug/L	10000	ug/L	106.1	90.0 – 110.0	P	09-MAR-10 20:21	030910-2
	Vanadium	510	ug/L	500	ug/L	102	90.0 – 110.0	P	09-MAR-10 20:21	030910-2
	Zinc	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	04-MAR-10 22:43	030410-1
	Aluminum	4850	ug/L	5000	ug/L	96.9	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Arsenic	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Barium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Calcium	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Chromium	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Cobalt	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Copper	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Iron	5000	ug/L	5000	ug/L	100.1	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Magnesium	5120	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Nickel	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Potassium	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Selenium	510	ug/L	500	ug/L	102	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Silver	500	ug/L	500	ug/L	100	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Sodium	9550	ug/L	10000	ug/L	95.5	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
	Vanadium	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	09-MAR-10 21:24	030910-2
CCV09	Zinc	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	04-MAR-10 23:44	030410-1
	Aluminum	4990	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Arsenic	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Barium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Calcium	5260	ug/L	5000	ug/L	105.2	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Chromium	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Cobalt	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Copper	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Iron	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	09-MAR-10 22:27	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Magnesium	5360	ug/L	5000	ug/L	107.2	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Nickel	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Potassium	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Selenium	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Silver	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Sodium	9710	ug/L	10000	ug/L	97.2	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
	Vanadium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	09-MAR-10 22:27	030910-2
CCV10										
	Zinc	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	05-MAR-10 00:47	030410-1
	Aluminum	5000	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Arsenic	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Barium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Calcium	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Chromium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Cobalt	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Copper	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Magnesium	5230	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Nickel	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Selenium	524	ug/L	500	ug/L	104.7	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Silver	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Sodium	9820	ug/L	10000	ug/L	98.2	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
	Vanadium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	09-MAR-10 23:16	030910-2
CCV11										
	Zinc	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	05-MAR-10 01:29	030410-1
	Aluminum	5200	ug/L	5000	ug/L	104	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Arsenic	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Barium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Calcium	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	10-MAR-10 00:27	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Chromium	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Cobalt	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Copper	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Iron	5330	ug/L	5000	ug/L	106.6	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Magnesium	5560	ug/L	5000	ug/L	111.3	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Nickel	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Potassium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Selenium	514	ug/L	500	ug/L	102.7	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Silver	500	ug/L	500	ug/L	100	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Sodium	10500	ug/L	10000	ug/L	104.7	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
	Vanadium	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	10-MAR-10 00:27	030910-2
CCV12	Zinc	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	05-MAR-10 02:31	030410-1
	Aluminum	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Arsenic	505	ug/L	500	ug/L	101	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Barium	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Calcium	5270	ug/L	5000	ug/L	105.4	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Chromium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Cobalt	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Copper	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Iron	5320	ug/L	5000	ug/L	106.4	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Nickel	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Potassium	5080	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Selenium	520	ug/L	500	ug/L	104	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Silver	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Sodium	10100	ug/L	10000	ug/L	100.9	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
	Vanadium	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	10-MAR-10 01:31	030910-2
CCV13	Zinc	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	05-MAR-10 03:41	030410-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Aluminum	4920	ug/L	5000	ug/L	98.4	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Arsenic	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Barium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Calcium	5220	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Chromium	510	ug/L	500	ug/L	102	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Cobalt	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Copper	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Iron	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Nickel	519	ug/L	500	ug/L	103.7	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Potassium	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Selenium	531	ug/L	500	ug/L	106.3	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Silver	515	ug/L	500	ug/L	103	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Sodium	9600	ug/L	10000	ug/L	96	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
	Vanadium	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	10-MAR-10 02:35	030910-2
CCV14	Zinc	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	05-MAR-10 04:49	030410-1
	Aluminum	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Arsenic	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Barium	530	ug/L	500	ug/L	105.9	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Calcium	5400	ug/L	5000	ug/L	108	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Chromium	529	ug/L	500	ug/L	105.8	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Cobalt	539	ug/L	500	ug/L	107.8	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Copper	532	ug/L	500	ug/L	106.4	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Iron	5430	ug/L	5000	ug/L	108.7	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Magnesium	5480	ug/L	5000	ug/L	109.6	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Nickel	536	ug/L	500	ug/L	107.2	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Potassium	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Selenium	542	ug/L	500	ug/L	108.4	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Silver	534	ug/L	500	ug/L	106.8	90.0 – 110.0	P	10-MAR-10 03:54	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV15	Sodium	10000	ug/L	10000	ug/L	100.3	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Vanadium	536	ug/L	500	ug/L	107.2	90.0 – 110.0	P	10-MAR-10 03:54	030910-2
	Aluminum	5130	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Arsenic	516	ug/L	500	ug/L	103.1	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Barium	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Calcium	5260	ug/L	5000	ug/L	105.2	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Chromium	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Cobalt	525	ug/L	500	ug/L	105.1	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Copper	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Iron	5350	ug/L	5000	ug/L	107	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Magnesium	5550	ug/L	5000	ug/L	111.1	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Nickel	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Potassium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Selenium	533	ug/L	500	ug/L	106.7	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Silver	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Sodium	10300	ug/L	10000	ug/L	102.8	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
	Vanadium	524	ug/L	500	ug/L	104.7	90.0 – 110.0	P	10-MAR-10 05:06	030910-2
CCV16	Aluminum	4720	ug/L	5000	ug/L	94.3	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Arsenic	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Barium	493	ug/L	500	ug/L	98.5	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Calcium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Chromium	493	ug/L	500	ug/L	98.5	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Cobalt	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Copper	493	ug/L	500	ug/L	98.5	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Iron	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Magnesium	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Nickel	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Potassium	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	10-MAR-10 06:31	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Selenium	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Silver	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Sodium	9220	ug/L	10000	ug/L	92.2	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
	Vanadium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	10-MAR-10 06:31	030910-2
CCV17										
	Aluminum	4950	ug/L	5000	ug/L	99	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Arsenic	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Barium	510	ug/L	500	ug/L	102	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Calcium	5100	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Chromium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Cobalt	519	ug/L	500	ug/L	103.7	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Copper	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Iron	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Magnesium	5240	ug/L	5000	ug/L	104.9	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Nickel	518	ug/L	500	ug/L	103.7	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Potassium	4990	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Selenium	531	ug/L	500	ug/L	106.3	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Silver	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Sodium	9800	ug/L	10000	ug/L	98	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
	Vanadium	517	ug/L	500	ug/L	103.3	90.0 – 110.0	P	10-MAR-10 07:55	030910-2
CCV18										
	Aluminum	5030	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Arsenic	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Barium	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Calcium	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Chromium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Cobalt	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Copper	495	ug/L	500	ug/L	99	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	10-MAR-10 08:51	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Nickel	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Potassium	4960	ug/L	5000	ug/L	99.3	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Selenium	519	ug/L	500	ug/L	103.9	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Silver	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Sodium	10400	ug/L	10000	ug/L	103.5	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
	Vanadium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	10-MAR-10 08:51	030910-2
CCV19										
	Aluminum	4990	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Arsenic	505	ug/L	500	ug/L	101	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Barium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Calcium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Chromium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Cobalt	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Copper	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Iron	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Magnesium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Nickel	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Potassium	4930	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Selenium	525	ug/L	500	ug/L	104.9	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Silver	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Sodium	10200	ug/L	10000	ug/L	101.9	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
	Vanadium	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	10-MAR-10 09:55	030910-2
CCV20										
	Aluminum	4950	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Arsenic	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Barium	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Calcium	5010	ug/L	5000	ug/L	100.1	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Chromium	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Cobalt	505	ug/L	500	ug/L	101	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Copper	495	ug/L	500	ug/L	99	90.0 – 110.0	P	10-MAR-10 10:38	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Iron	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Magnesium	5050	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Nickel	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Potassium	4880	ug/L	5000	ug/L	97.6	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Selenium	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Silver	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Sodium	10100	ug/L	10000	ug/L	101.1	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
	Vanadium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	10-MAR-10 10:38	030910-2
CCV21	Aluminum	4980	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Arsenic	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Barium	495	ug/L	500	ug/L	99	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Calcium	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Chromium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Cobalt	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Copper	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Iron	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Magnesium	5080	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Nickel	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Potassium	4910	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Selenium	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Silver	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Sodium	10200	ug/L	10000	ug/L	101.9	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
	Vanadium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	10-MAR-10 11:38	030910-2
CCV22	Aluminum	4980	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Arsenic	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Barium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Calcium	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Chromium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	10-MAR-10 12:43	030910-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cobalt	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Copper	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Iron	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Magnesium	5100	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Nickel	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Potassium	4840	ug/L	5000	ug/L	96.7	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Selenium	519	ug/L	500	ug/L	103.9	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Silver	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Sodium	10400	ug/L	10000	ug/L	103.6	90.0 – 110.0	P	10-MAR-10 12:43	030910-2
	Vanadium	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	10-MAR-10 12:43	030910-2

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS4,ICPMS5,MER536,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.257	ug/L	.2	ug/L	128.7	70.0 – 130.0	AV	25-FEB-10 11:11	022510W1-9
	Manganese	5.75	ug/L	5	ug/L	114.9	70.0 – 130.0	MS	07-MAR-10 03:47	100306-4
	Thallium	1.27	ug/L	1	ug/L	127.1	70.0 – 130.0	MS	07-MAR-10 03:47	100306-4
	Antimony	3.06	ug/L	3	ug/L	102	70.0 – 130.0	MS	07-MAR-10 03:47	100306-4
	Cadmium	1.08	ug/L	1	ug/L	108.1	70.0 – 130.0	MS	07-MAR-10 03:47	100306-4
	Beryllium	.562	ug/L	.5	ug/L	112.4	70.0 – 130.0	MS	07-MAR-10 03:47	100306-4
	Lead	2.57	ug/L	2	ug/L	128.3	70.0 – 130.0	MS	07-MAR-10 09:06	100306-3
	Uranium	.244	ug/L	.2	ug/L	122	70.0 – 130.0	MS	07-MAR-10 09:15	100306-8
PQL01										
	Zinc	9.17	ug/L	10	ug/L	91.7	70.0 – 130.0	P	04-MAR-10 15:53	030410-1
	Aluminum	187	ug/L	200	ug/L	93.7	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Iron	69.3	ug/L	100	ug/L	69.3	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Magnesium	418	ug/L	300	ug/L	139.2	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Nickel	5.27	ug/L	5	ug/L	105.4	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Potassium	129	ug/L	150	ug/L	85.8	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Silver	5.01	ug/L	5	ug/L	100.1	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Sodium	305	ug/L	300	ug/L	101.7	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Arsenic	24.2	ug/L	30	ug/L	80.6	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Barium	5.17	ug/L	5	ug/L	103.4	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Chromium	5.1	ug/L	5	ug/L	102.1	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Cobalt	5.25	ug/L	5	ug/L	105.1	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Copper	10.1	ug/L	10	ug/L	101.2	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Vanadium	5.38	ug/L	5	ug/L	107.7	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Calcium	193	ug/L	200	ug/L	96.6	70.0 – 130.0	P	09-MAR-10 15:08	030910-2
	Selenium	35.1	ug/L	30	ug/L	116.9	70.0 – 130.0	P	09-MAR-10 15:08	030910-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	25-FEB-10 11:09	022510W1-9
	Zinc	3.76	+/-10	J	3.3	10.0	LIQ	P	04-MAR-10 15:46	030410-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	07-MAR-10 03:42	100306-4
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	07-MAR-10 03:42	100306-4
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	07-MAR-10 03:42	100306-4
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	07-MAR-10 03:42	100306-4
	Thallium	0.326	+/-1	J	0.3	1.0	LIQ	MS	07-MAR-10 03:42	100306-4
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	07-MAR-10 09:05	100306-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	07-MAR-10 09:13	100306-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 15:01	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 15:01	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:01	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 15:01	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:01	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:01	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 15:01	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 15:01	030910-2
	Magnesium	200.44	+/-300	J	85.0	300	LIQ	P	09-MAR-10 15:01	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	09-MAR-10 15:01	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	09-MAR-10 15:01	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 15:01	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:01	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 15:01	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:01	030910-2
CCB01	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	25-FEB-10 11:15	022510W1-9
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	04-MAR-10 16:46	030410-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	07-MAR-10 04:09	100306-4
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	07-MAR-10 04:09	100306-4
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	07-MAR-10 04:09	100306-4
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	07-MAR-10 04:09	100306-4

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	07-MAR-10 04:09	100306-4
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	07-MAR-10 09:14	100306-3
	Uranium	0.05	+/- .2	U	0.05	0.2	LIQ	MS	07-MAR-10 09:22	100306-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 15:49	030910-2
	Arsenic	8.38	+/-30	J	5.0	30.0	LIQ	P	09-MAR-10 15:49	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:49	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 15:49	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:49	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:49	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 15:49	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 15:49	030910-2
	Magnesium	243.89	+/-300	J	85.0	300	LIQ	P	09-MAR-10 15:49	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	09-MAR-10 15:49	030910-2
	Potassium	193.36	+/-150		50.0	150	LIQ	P	09-MAR-10 15:49	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 15:49	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:49	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 15:49	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 15:49	030910-2
CCB02										
	Mercury	0.066	+/- .2	U	0.066	0.2	LIQ	AV	25-FEB-10 11:39	022510W1-9
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	04-MAR-10 17:07	030410-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	07-MAR-10 04:52	100306-4
	Beryllium	0.1	+/- .5	U	0.1	0.5	LIQ	MS	07-MAR-10 04:52	100306-4
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	07-MAR-10 04:52	100306-4
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	07-MAR-10 04:52	100306-4
	Thallium	0.516	+/-1	J	0.3	1.0	LIQ	MS	07-MAR-10 04:52	100306-4
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	07-MAR-10 09:29	100306-3
	Uranium	0.05	+/- .2	U	0.05	0.2	LIQ	MS	07-MAR-10 09:38	100306-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 16:05	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 16:05	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:05	030910-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 16:05	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:05	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:05	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 16:05	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 16:05	030910-2
	Magnesium	191	+/-300	J	85.0	300	LIQ	P	09-MAR-10 16:05	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	09-MAR-10 16:05	030910-2
	Potassium	77.86	+/-150	J	50.0	150	LIQ	P	09-MAR-10 16:05	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 16:05	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:05	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 16:05	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:05	030910-2
CCB03	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	25-FEB-10 12:02	022510W1-9
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	04-MAR-10 18:07	030410-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	07-MAR-10 05:45	100306-4
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	07-MAR-10 05:45	100306-4
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	07-MAR-10 05:45	100306-4
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	07-MAR-10 05:45	100306-4
	Thallium	1.78	+/-1		0.3	1.0	LIQ	MS	07-MAR-10 05:45	100306-4
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	07-MAR-10 09:48	100306-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	07-MAR-10 09:53	100306-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 16:27	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 16:27	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:27	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 16:27	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:27	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:27	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 16:27	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 16:27	030910-2
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	09-MAR-10 16:27	030910-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	09-MAR-10 16:27	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	09-MAR-10 16:27	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 16:27	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:27	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 16:27	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 16:27	030910-2
CCB04										
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	25-FEB-10 12:26	022510W1-9
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	04-MAR-10 18:36	030410-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	07-MAR-10 06:38	100306-4
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	07-MAR-10 06:38	100306-4
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	07-MAR-10 06:38	100306-4
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	07-MAR-10 06:38	100306-4
	Thallium	1.04	+/-1		0.3	1.0	LIQ	MS	07-MAR-10 06:38	100306-4
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	07-MAR-10 10:05	100306-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	07-MAR-10 10:06	100306-3
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 17:31	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 17:31	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:31	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 17:31	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:31	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:31	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 17:31	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 17:31	030910-2
	Magnesium	276.09	+/-300	J	85.0	300	LIQ	P	09-MAR-10 17:31	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	09-MAR-10 17:31	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	09-MAR-10 17:31	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 17:31	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:31	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 17:31	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:31	030910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB05	Mercury	0.066	+/- .2	U	0.066	0.2	LIQ	AV	25-FEB-10 12:50	022510W1-9
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	04-MAR-10 19:50	030410-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	07-MAR-10 07:33	100306-4
	Beryllium	0.1	+/- .5	U	0.1	0.5	LIQ	MS	07-MAR-10 07:33	100306-4
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	07-MAR-10 07:33	100306-4
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	07-MAR-10 07:33	100306-4
	Thallium	0.581	+/-1	J	0.3	1.0	LIQ	MS	07-MAR-10 07:33	100306-4
	Uranium	0.05	+/- .2	U	0.05	0.2	LIQ	MS	07-MAR-10 10:23	100306-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 17:52	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 17:52	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:52	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 17:52	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:52	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:52	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 17:52	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 17:52	030910-2
	Magnesium	136.5	+/-300	J	85.0	300	LIQ	P	09-MAR-10 17:52	030910-2
	Nickel	1.59	+/-5	J	1.5	5.0	LIQ	P	09-MAR-10 17:52	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	09-MAR-10 17:52	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 17:52	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:52	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 17:52	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 17:52	030910-2
CCB06	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	04-MAR-10 20:52	030410-1
	Uranium	0.05	+/- .2	U	0.05	0.2	LIQ	MS	07-MAR-10 10:40	100306-8
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 19:17	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 19:17	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 19:17	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 19:17	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 19:17	030910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ng/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
CCB07	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 19:17	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 19:17	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 19:17	030910-2
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	09-MAR-10 19:17	030910-2
	Nickel	1.51	+/-5	J	1.5	5.0	LIQ	P	09-MAR-10 19:17	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	09-MAR-10 19:17	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 19:17	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 19:17	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 19:17	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 19:17	030910-2
CCB07	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	04-MAR-10 21:55	030410-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 20:28	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 20:28	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 20:28	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 20:28	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 20:28	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 20:28	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 20:28	030910-2
	Iron	44.21	+/-100	J	30.0	100	LIQ	P	09-MAR-10 20:28	030910-2
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	09-MAR-10 20:28	030910-2
	Nickel	1.63	+/-5	J	1.5	5.0	LIQ	P	09-MAR-10 20:28	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	09-MAR-10 20:28	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 20:28	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 20:28	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 20:28	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 20:28	030910-2
CCB08	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	04-MAR-10 22:49	030410-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 21:31	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 21:31	030910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB09	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 21:31	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 21:31	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 21:31	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 21:31	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 21:31	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 21:31	030910-2
	Magnesium	127.69	+/-300	J	85.0	300	LIQ	P	09-MAR-10 21:31	030910-2
	Nickel	1.6	+/-5	J	1.5	5.0	LIQ	P	09-MAR-10 21:31	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	09-MAR-10 21:31	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 21:31	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 21:31	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 21:31	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 21:31	030910-2
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	04-MAR-10 23:51	030410-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 22:34	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 22:34	030910-2
CCB09	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 22:34	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 22:34	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 22:34	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 22:34	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 22:34	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 22:34	030910-2
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	09-MAR-10 22:34	030910-2
	Nickel	1.55	+/-5	J	1.5	5.0	LIQ	P	09-MAR-10 22:34	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	09-MAR-10 22:34	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 22:34	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 22:34	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 22:34	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 22:34	030910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB10										
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	05-MAR-10 00:54	030410-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	09-MAR-10 23:23	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 23:23	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 23:23	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	09-MAR-10 23:23	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 23:23	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 23:23	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	09-MAR-10 23:23	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	09-MAR-10 23:23	030910-2
	Magnesium	251.92	+/-300	J	85.0	300	LIQ	P	09-MAR-10 23:23	030910-2
	Nickel	1.74	+/-5	J	1.5	5.0	LIQ	P	09-MAR-10 23:23	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	09-MAR-10 23:23	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	09-MAR-10 23:23	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 23:23	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	09-MAR-10 23:23	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	09-MAR-10 23:23	030910-2
CCB11										
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	05-MAR-10 01:36	030410-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 00:34	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 00:34	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 00:34	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 00:34	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 00:34	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 00:34	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 00:34	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 00:34	030910-2
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	10-MAR-10 00:34	030910-2
	Nickel	1.73	+/-5	J	1.5	5.0	LIQ	P	10-MAR-10 00:34	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 00:34	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 00:34	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 00:34	030910-2

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB12	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 00:34	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 00:34	030910-2
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	05-MAR-10 02:38	030410-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 01:38	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 01:38	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 01:38	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 01:38	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 01:38	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 01:38	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 01:38	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 01:38	030910-2
	Magnesium	160.29	+/-300	J	85.0	300	LIQ	P	10-MAR-10 01:38	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 01:38	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 01:38	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 01:38	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 01:38	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 01:38	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 01:38	030910-2
CCB13	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	05-MAR-10 03:48	030410-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 02:42	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 02:42	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 02:42	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 02:42	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 02:42	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 02:42	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 02:42	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 02:42	030910-2
	Magnesium	123.1	+/-300	J	85.0	300	LIQ	P	10-MAR-10 02:42	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 02:42	030910-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB14	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 02:42	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 02:42	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 02:42	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 02:42	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 02:42	030910-2
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	05-MAR-10 04:57	030410-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 04:01	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 04:01	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 04:01	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 04:01	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 04:01	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 04:01	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 04:01	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 04:01	030910-2
	Magnesium	140.13	+/-300	J	85.0	300	LIQ	P	10-MAR-10 04:01	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 04:01	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 04:01	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 04:01	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 04:01	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 04:01	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 04:01	030910-2
CCB15	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 05:13	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 05:13	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 05:13	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 05:13	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 05:13	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 05:13	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 05:13	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 05:13	030910-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Magnesium	152.9	+/-300	J	85.0	300	LIQ	P	10-MAR-10 05:13	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 05:13	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 05:13	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 05:13	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 05:13	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 05:13	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 05:13	030910-2
CCB16	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 06:38	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 06:38	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 06:38	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 06:38	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 06:38	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 06:38	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 06:38	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 06:38	030910-2
	Magnesium	193.33	+/-300	J	85.0	300	LIQ	P	10-MAR-10 06:38	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 06:38	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 06:38	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 06:38	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 06:38	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 06:38	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 06:38	030910-2
CCB17	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 08:02	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 08:02	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:02	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 08:02	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:02	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:02	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 08:02	030910-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ng/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
CCB18	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 08:02	030910-2
	Magnesium	204.1	+/-300	J	85.0	300	LIQ	P	10-MAR-10 08:02	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 08:02	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 08:02	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 08:02	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:02	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 08:02	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:02	030910-2
CCB18	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 08:58	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 08:58	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:58	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 08:58	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:58	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:58	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 08:58	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 08:58	030910-2
	Magnesium	216.7	+/-300	J	85.0	300	LIQ	P	10-MAR-10 08:58	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 08:58	030910-2
	Potassium	68.87	+/-150	J	50.0	150	LIQ	P	10-MAR-10 08:58	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 08:58	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:58	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 08:58	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 08:58	030910-2
CCB19	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 10:02	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 10:02	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:02	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 10:02	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:02	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:02	030910-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 10:02	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 10:02	030910-2
	Magnesium	261.9	+/-300	J	85.0	300	LIQ	P	10-MAR-10 10:02	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 10:02	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 10:02	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 10:02	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:02	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 10:02	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:02	030910-2
CCB20	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 10:45	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 10:45	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:45	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 10:45	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:45	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:45	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 10:45	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 10:45	030910-2
	Magnesium	128.98	+/-300	J	85.0	300	LIQ	P	10-MAR-10 10:45	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 10:45	030910-2
	Potassium	79.39	+/-150	J	50.0	150	LIQ	P	10-MAR-10 10:45	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 10:45	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:45	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 10:45	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 10:45	030910-2
CCB21	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 11:46	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 11:46	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 11:46	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 11:46	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 11:46	030910-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 11:46	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 11:46	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 11:46	030910-2
	Magnesium	136.23	+/-300	J	85.0	300	LIQ	P	10-MAR-10 11:46	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 11:46	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 11:46	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 11:46	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 11:46	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 11:46	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 11:46	030910-2
CCB22	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	10-MAR-10 12:50	030910-2
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 12:50	030910-2
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 12:50	030910-2
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	10-MAR-10 12:50	030910-2
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 12:50	030910-2
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 12:50	030910-2
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	10-MAR-10 12:50	030910-2
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	10-MAR-10 12:50	030910-2
	Magnesium	109.69	+/-300	J	85.0	300	LIQ	P	10-MAR-10 12:50	030910-2
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	10-MAR-10 12:50	030910-2
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	10-MAR-10 12:50	030910-2
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	10-MAR-10 12:50	030910-2
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 12:50	030910-2
	Sodium	100	+/-300	U	100	300	LIQ	P	10-MAR-10 12:50	030910-2
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	10-MAR-10 12:50	030910-2

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-1759

Contract: LANL01004

Matrix: WATER

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M</u>	<u>MDL</u>	<u>RDL</u>
1202042566	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
	Cobalt	1	ug/L	+/-5	U	P	1	5
	Iron	30	ug/L	+/-100	U	P	30	100
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Selenium	5	ug/L	+/-30	U	P	5	30
	Sodium	112	ug/L	+/-300	J	P	100	300
	Zinc	3.3	ug/L	+/-10	U	P	3.3	10
	Vanadium	1	ug/L	+/-5	U	P	1	5
	Silver	1	ug/L	+/-5	U	P	1	5
	Potassium	50	ug/L	+/-150	U	P	50	150
	Magnesium	108	ug/L	+/-300	J	P	85	300
	Copper	3	ug/L	+/-10	U	P	3	10
	Chromium	1	ug/L	+/-5	U	P	1	5
1202042571	Uranium	0.05	ug/L	+/-0.2	U	MS	0.05	0.2
	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
	Thallium	0.3	ug/L	+/-1	U	MS	0.3	1
	Manganese	1	ug/L	+/-5	U	MS	1	5
	Antimony	1	ug/L	+/-3	U	MS	1	3
1202051937	Mercury	0.066	ug/L	+/-0.2	U	AV	0.066	0.2

METALS
-4-
Interference Check Sample

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Zinc	-0.282	ug/L					04-MAR-10 16:00	030410-1
ICSAB01	Zinc	500	ug/L	500	ug/L	100	80.0 - 120.0	04-MAR-10 16:07	030410-1

METALS
-4-
Interference Check Sample

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	521000	ug/L	500000	ug/L	104	80.0 – 120.0	09-MAR-10 15:15	030910-2
	Arsenic	3.31	ug/L					09-MAR-10 15:15	030910-2
	Barium	1.1	ug/L					09-MAR-10 15:15	030910-2
	Calcium	483000	ug/L	500000	ug/L	96.5	80.0 – 120.0	09-MAR-10 15:15	030910-2
	Chromium	-4.63	ug/L					09-MAR-10 15:15	030910-2
	Cobalt	-1.19	ug/L					09-MAR-10 15:15	030910-2
	Copper	4.65	ug/L					09-MAR-10 15:15	030910-2
	Iron	187000	ug/L	200000	ug/L	93.7	80.0 – 120.0	09-MAR-10 15:15	030910-2
	Magnesium	497000	ug/L	500000	ug/L	99.4	80.0 – 120.0	09-MAR-10 15:15	030910-2
	Nickel	4.15	ug/L					09-MAR-10 15:15	030910-2
	Potassium	-68.4	ug/L					09-MAR-10 15:15	030910-2
	Selenium	-0.039	ug/L					09-MAR-10 15:15	030910-2
	Silver	-1.53	ug/L					09-MAR-10 15:15	030910-2
	Sodium	31.3	ug/L					09-MAR-10 15:15	030910-2
	Vanadium	0.133	ug/L					09-MAR-10 15:15	030910-2
ICSAB01									
	Aluminum	528000	ug/L	500000	ug/L	106	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Arsenic	532	ug/L	500	ug/L	106	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Barium	499	ug/L	500	ug/L	99.7	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Calcium	484000	ug/L	500000	ug/L	96.9	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Chromium	482	ug/L	500	ug/L	96.5	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Cobalt	448	ug/L	500	ug/L	89.6	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Copper	563	ug/L	500	ug/L	113	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Iron	189000	ug/L	200000	ug/L	94.4	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Magnesium	500000	ug/L	500000	ug/L	100	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Nickel	450	ug/L	500	ug/L	90	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Potassium	5840	ug/L	5000	ug/L	117	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Selenium	2570	ug/L	2500	ug/L	103	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Silver	276	ug/L	250	ug/L	111	80.0 – 120.0	09-MAR-10 15:22	030910-2

METALS
-4-
Interference Check Sample

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Sodium	5440	ug/L	5000	ug/L	109	80.0 – 120.0	09-MAR-10 15:22	030910-2
	Vanadium	516	ug/L	500	ug/L	103	80.0 – 120.0	09-MAR-10 15:22	030910-2

METALS
-4-
Interference Check Sample

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Lead	0.242	ug/L					07-MAR-10 09:08	100306-3
ICSAB01	Lead	19.6	ug/L	20.19	ug/L	97	80.0 - 120.0	07-MAR-10 09:10	100306-3

METALS
-4-
Interference Check Sample

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Antimony	0.04	ug/L					07-MAR-10 03:53	100306-4
	Beryllium	0.108	ug/L					07-MAR-10 03:53	100306-4
	Cadmium	0.547	ug/L					07-MAR-10 03:53	100306-4
	Manganese	5.96	ug/L					07-MAR-10 03:53	100306-4
	Thallium	-0.029	ug/L					07-MAR-10 03:53	100306-4
ICSAB01									
	Antimony	21.9	ug/L	20	ug/L	109	80.0 - 120.0	07-MAR-10 03:58	100306-4
	Beryllium	19.4	ug/L	20	ug/L	97.1	80.0 - 120.0	07-MAR-10 03:58	100306-4
	Cadmium	20.5	ug/L	20.44	ug/L	100	80.0 - 120.0	07-MAR-10 03:58	100306-4
	Manganese	27.3	ug/L	25.8	ug/L	106	80.0 - 120.0	07-MAR-10 03:58	100306-4
	Thallium	21.1	ug/L	20	ug/L	106	80.0 - 120.0	07-MAR-10 03:58	100306-4

METALS
-4-
Interference Check Sample

SDG No: 10-1759

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	-0.018	ug/L					07-MAR-10 09:17	100306-8
ICSAB01	Uranium	23.0	ug/L	20	ug/L	115	80.0 - 120.0	07-MAR-10 09:18	100306-8

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1759 Client ID RE46-10-12762S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 246882001 Spike ID: 1202042569

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75-125	5220		68	U	5000	104		P
Arsenic	ug/L	75-125	513		5	U	500	103		P
Barium	ug/L	75-125	523		1	U	500	104		P
Calcium	ug/L	75-125	5150		50	U	5000	102		P
Chromium	ug/L	75-125	523		1	U	500	105		P
Cobalt	ug/L	75-125	515		1	U	500	103		P
Copper	ug/L	75-125	532		3	U	500	106		P
Iron	ug/L	75-125	5290		30	U	5000	106		P
Magnesium	ug/L	75-125	5170		119	J	5000	101		P
Nickel	ug/L	75-125	535		1.5	U	500	107		P
Potassium	ug/L	75-125	4970		50	U	5000	99.1		P
Selenium	ug/L	75-125	523		5.03	J	500	104		P
Silver	ug/L	75-125	503		1	U	500	101		P
Sodium	ug/L	75-125	5430		100	U	5000	108		P
Vanadium	ug/L	75-125	535		1	U	500	107		P
Zinc	ug/L	75-125	494		3.3	U	500	98.7		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1759 Client ID RE46-10-12762S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 246882001 Spike ID: 1202042574

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Beryllium	ug/L	75-125	48.5		0.1	U	50	97		MS
Cadmium	ug/L	75-125	10.3		0.11	U	10	103		MS
Lead	ug/L	75-125	39.4		0.5	U	40	98.4		MS
Manganese	ug/L	75-125	50.1		1	U	50	99.1		MS
Thallium	ug/L	75-125	84.5		0.3	U	100	84.3		MS
Uranium	ug/L	75-125	51.6		0.05	U	50	103		MS
Antimony	ug/L	75-125	199		1	U	200	99.6		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1759

Client ID: RE46-10-13032S

Contract: LANL01004

Level: Low

Matrix: WATER

% Solids:

Sample ID: 247098001

Spike ID: 1202051940

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/L	75-125	2.32		0.066	U	2	116		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE46-10-12762D

Sample ID: 246882001

Duplicate ID: 1202042568

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L		68 U		68 U				P
Arsenic	ug/L		5 U		5 U				P
Barium	ug/L		1 U		1 U				P
Calcium	ug/L		50 U		50 U				P
Chromium	ug/L		1 U		1 U				P
Cobalt	ug/L		1 U		1 U				P
Copper	ug/L		3 U		3 U				P
Iron	ug/L		30 U		30 U				P
Magnesium	ug/L	+/-300	119 J		94.3 J		22.8		P
Nickel	ug/L		1.5 U		1.5 U				P
Potassium	ug/L		50 U		50 U				P
Selenium	ug/L		5.03 J		5 U		200		P
Silver	ug/L		1 U		1 U				P
Sodium	ug/L		100 U		100 U				P
Vanadium	ug/L		1 U		1 U				P
Zinc	ug/L		3.3 U		3.3 U				P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE46-10-12762D

Sample ID: 246882001

Duplicate ID: 1202042573

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L		1 U		1 U				MS
Beryllium	ug/L		0.1 U		0.1 U				MS
Cadmium	ug/L		0.11 U		0.11 U				MS
Lead	ug/L		0.5 U		0.5 U				MS
Manganese	ug/L		1 U		1 U				MS
Thallium	ug/L		0.3 U		0.3 U				MS
Uranium	ug/L		0.05 U		0.05 U				MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1759

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE46-10-13032D

Sample ID: 247098001

Duplicate ID: 1202051939

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L		0.066 U		0.066 U				AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1759

Contract: LANL01004

Aqueous LCS Source:OS2I

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202042567								
	Aluminum	ug/L	5000	5140		103	80-120	P
	Arsenic	ug/L	500	504		101	80-120	P
	Barium	ug/L	500	510		102	80-120	P
	Calcium	ug/L	5000	5210		104	80-120	P
	Chromium	ug/L	500	511		102	80-120	P
	Cobalt	ug/L	500	503		101	80-120	P
	Copper	ug/L	500	514		103	80-120	P
	Iron	ug/L	5000	5190		104	80-120	P
	Magnesium	ug/L	5000	5350		107	80-120	P
	Nickel	ug/L	500	521		104	80-120	P
	Potassium	ug/L	5000	5100		102	80-120	P
	Selenium	ug/L	500	533		107	80-120	P
	Silver	ug/L	500	493		98.6	80-120	P
	Sodium	ug/L	5000	5050		101	80-120	P
	Vanadium	ug/L	500	520		104	80-120	P
	Zinc	ug/L	500	494		98.7	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1759

Contract: LANL01004

Aqueous LCS Source: O2si

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202042572								
	Antimony	ug/L	50	54.8		110	80-120	MS
	Beryllium	ug/L	50	51.7		103	80-120	MS
	Cadmium	ug/L	50	51.9		104	80-120	MS
	Lead	ug/L	50	51		102	80-120	MS
	Manganese	ug/L	50	53.2		106	80-120	MS
	Thallium	ug/L	50	42.6		85.3	80-120	MS
	Uranium	ug/L	50	51.8		104	80-120	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1759

Contract: LANL01004

Aqueous LCS Source: GEL

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202051938	Mercury	ug/L	2	2.13		107	80-120	AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1759

Client ID RE46-10-12762L

Contract: LANL01004

Matrix: LIQUID

Level: Low

Sample ID: 246882001

Serial Dilution ID: 1202042570

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Aluminum	68	U	340	U				P
Arsenic	5	U	25	U				P
Barium	1	U	5	U				P
Calcium	50	U	250	U				P
Chromium	1	U	5	U				P
Cobalt	1	U	5	U				P
Copper	3	U	15	U				P
Iron	30	U	150	U				P
Magnesium	119	J	425	U	100			P
Nickel	1.5	U	7.5	U				P
Potassium	50	U	250	U				P
Selenium	5.03	J	25	U	100			P
Silver	1	U	5	U				P
Sodium	100	U	500	U				P
Vanadium	1	U	5	U				P
Zinc	3.3	U	16.5	U				P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1759 Client ID RE46-10-12762L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 246882001 Serial Dilution ID: 1202042575

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Antimony	1	U	5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.11	U	.55	U				MS
Lead	.5	U	2.5	U				MS
Manganese	1	U	5	U				MS
Thallium	.3	U	6.4					MS
Uranium	.05	U	.25	U				MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1759 Client ID RE46-10-13032L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 247098001 Serial Dilution ID: 1202051941

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Mercury	.066	U	.33	U				AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1759

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 952948							
1202042566	MB for batch 952948	MB	W	22-FEB-10	50mL	50mL	
1202042567	LCS for batch 952948	LCS	W	22-FEB-10	50mL	50mL	
1202042569	RE46-10-12762S	MS	W	22-FEB-10	50mL	50mL	
1202042568	RE46-10-12762D	DUP	W	22-FEB-10	50mL	50mL	
246871001	RE15-10-8380	SAMPLE	W	22-FEB-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1759

Method Type: MS

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	952950						
1202042571	MB for batch 952950	MB	W	22-FEB-10	50mL	50mL	
1202042572	LCS for batch 952950	LCS	W	22-FEB-10	50mL	50mL	
1202042574	RE46-10-12762S	MS	W	22-FEB-10	50mL	50mL	
1202042573	RE46-10-12762D	DUP	W	22-FEB-10	50mL	50mL	
246871001	RE15-10-8380	SAMPLE	W	22-FEB-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1759

Method Type: AV

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 956994							
1202051937	MB for batch 956994	MB	W	24-FEB-10	20mL	20mL	
1202051938	LCS for batch 956994	LCS	W	24-FEB-10	20mL	20mL	
1202051940	RE46-10-13032S	MS	W	24-FEB-10	20mL	20mL	
1202051939	RE46-10-13032D	DUP	W	24-FEB-10	20mL	20mL	
246871001	RE15-10-8380	SAMPLE	W	24-FEB-10	20mL	20mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 07-MAR-10

End Date: 07-MAR-10

Client Sdg: 10-1759

Method MS

Data File: 100306-4

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	03:21	X				X	X								X							X			
S10	1	03:26	X				X	X								X							X			
S100	1	03:32	X				X	X								X							X			
ICV01	1	03:37	X				X	X								X							X			
ICB01	1	03:42	X				X	X								X							X			
CRDL01	1	03:47	X				X	X								X							X			
ICSA01	1	03:53	X				X	X								X							X			
ICSAB01	1	03:58	X				X	X								X							X			
CCV01	1	04:03	X				X	X								X							X			
CCB01	1	04:09	X				X	X								X							X			
ZZZZZZ	1	04:14																								
ZZZZZZ	1	04:20																								
ZZZZZZ	1	04:25																								
ZZZZZZ	1	04:30																								
ZZZZZZ	1	04:36																								
ZZZZZZ	5	04:41																								
CCV02	1	04:46	X				X	X								X							X			
CCB02	1	04:52	X				X	X								X							X			
ZZZZZZ	1	04:57																								
ZZZZZZ	1	05:02																								
ZZZZZZ	1	05:08																								
ZZZZZZ	1	05:13																								
ZZZZZZ	1	05:18																								
ZZZZZZ	1	05:23																								
ZZZZZZ	1	05:29																								
ZZZZZZ	5	05:34																								
CCV03	1	05:39	X				X	X								X							X			
CCB03	1	05:45	X				X	X								X							X			
ZZZZZZ	1	05:50																								
1202042572	1	05:55	X				X	X								X							X			
ZZZZZZ	1	06:01																								
ZZZZZZ	1	06:06																								
ZZZZZZ	1	06:11																								
1202042573	1	06:17	X				X	X								X							X			
1202042574	1	06:22	X				X	X								X							X			
1202042575	5	06:28	X				X	X								X							X			
CCV04	1	06:33	X				X	X								X							X			
CCB04	1	06:38	X				X	X								X							X			
ZZZZZZ	1	06:44																								
ZZZZZZ	1	06:49																								

[illegible]

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 07-MAR-10

End Date: 07-MAR-10

Client Sdg: 10-1759

Method MS

Data File: 100306-8

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	09:07																						X		
S10	1	09:09																						X		
S100	1	09:10																						X		
ICV01	1	09:12																						X		
ICB01	1	09:13																						X		
CRDL01	1	09:15																						X		
ICSA01	1	09:17																						X		
ICSAB01	1	09:18																						X		
CCV01	1	09:20																						X		
CCB01	1	09:22																						X		
ZZZZZZ	2	09:24																								
ZZZZZZ	40	09:26																								
ZZZZZZ	2	09:28																								
ZZZZZZ	2	09:29																								
ZZZZZZ	2	09:31																								
ZZZZZZ	2	09:33																								
ZZZZZZ	10	09:35																								
CCV02	1	09:36																						X		
CCB02	1	09:38																						X		
ZZZZZZ	1	09:41																								
ZZZZZZ	1	09:43																								
ZZZZZZ	1	09:44																								
ZZZZZZ	1	09:46																								
ZZZZZZ	1	09:48																								
ZZZZZZ	1	09:49																								
CCV03	1	09:51																						X		
CCB03	1	09:53																						X		
ZZZZZZ	1	09:55																								
ZZZZZZ	1	09:56																								
ZZZZZZ	1	09:58																								
ZZZZZZ	5	10:00																								
ZZZZZZ	1	10:01																								
CCV04	1	10:03																						X		
CCB04	1	10:05																						X		
ZZZZZZ	1	10:08																								
ZZZZZZ	1	10:10																								
ZZZZZZ	1	10:12																								
ZZZZZZ	1	10:13																								
ZZZZZZ	1	10:15																								
ZZZZZZ	1	10:17																								

Analysis Run Log

[illegible]

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 04-MAR-10

End Date: 05-MAR-10

Client Sdg: 10-1759

Method P

Data File: 030410-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	15:07																								X
S0.1	1	15:14																								X
S0.5	1	15:20																								X
SCAL	1	15:27																								X
S10	1	15:34																								
ICV01	1	15:39																								X
ICB01	1	15:46																								X
PQL01	1	15:53																								X
ICSA01	1	16:00																								X
ICSAB01	1	16:07																								X
LR01	1	16:13																								X
LR02	1	16:19																								X
ZZZZZZ	1	16:26																								
ZZZZZZ	1	16:33																								
CCV01	1	16:39																								X
CCB01	1	16:46																								X
LR03	1	16:53																								X
CCV02	1	17:00																								X
CCB02	1	17:07																								X
ZZZZZZ	1	17:19																								
ZZZZZZ	1	17:26																								
ZZZZZZ	1	17:33																								
ZZZZZZ	1	17:40																								
ZZZZZZ	1	17:47																								
ZZZZZZ	5	17:54																								
CCV03	1	18:00																								X
CCB03	1	18:07																								X
CCV04	1	18:29																								X
CCB04	1	18:36																								X
ZZZZZZ	1	18:42																								
ZZZZZZ	1	18:49																								
ZZZZZZ	1	18:55																								
ZZZZZZ	1	19:02																								
ZZZZZZ	1	19:09																								
ZZZZZZ	1	19:16																								
ZZZZZZ	5	19:23																								
ZZZZZZ	1	19:30																								
ZZZZZZ	1	19:37																								
CCV05	1	19:43																								X
CCB05	1	19:50																								X

SW846

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
ZZZZZZ	1	00:33																								
ZZZZZZ	5	00:40																								
CCV10	1	00:47																								X
CCB10	1	00:54																								X
ZZZZZZ	1	01:00																								
ZZZZZZ	1	01:08																								
ZZZZZZ	1	01:14																								
ZZZZZZ	1	01:21																								
CCV11	1	01:29																								X
CCB11	1	01:36																								X
ZZZZZZ	1	01:43																								
ZZZZZZ	1	01:49																								
ZZZZZZ	1	01:56																								
ZZZZZZ	1	02:03																								
ZZZZZZ	1	02:10																								
ZZZZZZ	1	02:17																								
ZZZZZZ	5	02:24																								
CCV12	1	02:31																								X
CCB12	1	02:38																								X
ZZZZZZ	1	02:45																								
ZZZZZZ	1	02:51																								
ZZZZZZ	1	02:58																								
ZZZZZZ	1	03:05																								
ZZZZZZ	1	03:12																								
ZZZZZZ	1	03:20																								
ZZZZZZ	1	03:27																								
ZZZZZZ	1	03:34																								
CCV13	1	03:41																								X
CCB13	1	03:48																								X
1202042566	1	03:55																								X
1202042567	1	04:02																								X
ZZZZZZ	1	04:09																								
246871001	1	04:15																								X
ZZZZZZ	1	04:22																								
1202042568	1	04:29																								X
1202042569	1	04:36																								X
1202042570	5	04:43																								X
CCV14	1	04:49																								X
CCB14	1	04:57																								X

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 09-MAR-10

End Date: 10-MAR-10

Client Sdg: 10-1759

Method P

Data File: 030910-2

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	14:20	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
S0.1	1	14:28			X	X				X	X	X						X	X	X	X				X	
S0.5	1	14:34	X		X	X			X	X	X	X			X			X	X	X	X				X	
SCAL	1	14:41	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
S10	1	14:48	X						X				X		X							X				
ICV01	1	14:54	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ICB01	1	15:01	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
PQL01	1	15:08	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ICSA01	1	15:15	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ICSAB01	1	15:22	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
LR01	1	15:29	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
LR02	1	15:35	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCV01	1	15:42	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB01	1	15:49	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCV02	1	15:58	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB02	1	16:05	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
LR03	1	16:12	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCV03	1	16:20	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB03	1	16:27	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	16:35																								
ZZZZZZ	1	16:43																								
ZZZZZZ	1	16:50																								
ZZZZZZ	1	16:56																								
ZZZZZZ	1	17:03																								
ZZZZZZ	1	17:10																								
ZZZZZZ	5	17:17																								
CCV04	1	17:24	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB04	1	17:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCV05	1	17:45	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB05	1	17:52	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	18:00																								
ZZZZZZ	1	18:07																								
ZZZZZZ	1	18:15																								
ZZZZZZ	1	18:22																								
ZZZZZZ	1	18:29																								
ZZZZZZ	5	18:36																								
ZZZZZZ	10	18:43																								
ZZZZZZ	10	18:50																								
ZZZZZZ	10	18:56																								
ZZZZZZ	50	19:03																								

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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	23:51																								
ZZZZZZ	1	23:59																								
ZZZZZZ	1	00:05																								
ZZZZZZ	5	00:13																								
ZZZZZZ	1	00:19																								
CCV11	1	00:27	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB11	1	00:34	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	00:41																								
ZZZZZZ	1	00:48																								
ZZZZZZ	1	00:55																								
ZZZZZZ	1	01:02																								
ZZZZZZ	1	01:10																								
ZZZZZZ	1	01:17																								
ZZZZZZ	1	01:24																								
CCV12	1	01:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB12	1	01:38	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	01:45																								
ZZZZZZ	1	01:53																								
ZZZZZZ	1	02:00																								
ZZZZZZ	1	02:07																								
ZZZZZZ	1	02:14																								
ZZZZZZ	1	02:21																								
ZZZZZZ	1	02:28																								
CCV13	1	02:35	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB13	1	02:42	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	02:50																								
ZZZZZZ	1	02:57																								
ZZZZZZ	1	03:04																								
ZZZZZZ	1	03:12																								
ZZZZZZ	1	03:19																								
ZZZZZZ	1	03:26																								
ZZZZZZ	5	03:33																								
ZZZZZZ	1	03:40																								
ZZZZZZ	1	03:47																								
CCV14	1	03:54	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB14	1	04:01	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	04:09																								
ZZZZZZ	1	04:16																								
ZZZZZZ	1	04:23																								
ZZZZZZ	1	04:30																								

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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	09:20																								
ZZZZZZ	1	09:27																								
ZZZZZZ	1	09:35																								
ZZZZZZ	1	09:41																								
ZZZZZZ	5	09:48																								
CCV19	1	09:55	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB19	1	10:02	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	10:10																								
ZZZZZZ	1	10:17																								
ZZZZZZ	1	10:24																								
ZZZZZZ	1	10:31																								
CCV20	1	10:38	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB20	1	10:45	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
1202042566	1	10:55	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
1202042567	1	11:03	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	11:10																								
246871001	1	11:17	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	11:23																								
1202042568	1	11:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCV21	1	11:38	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB21	1	11:46	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
1202042569	1	11:53	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
1202042570	5	12:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
ZZZZZZ	1	12:08																								
ZZZZZZ	1	12:14																								
ZZZZZZ	1	12:22																								
ZZZZZZ	1	12:29																								
ZZZZZZ	1	12:36																								
CCV22	1	12:43	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	
CCB22	1	12:50	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: 25-FEB-10

End Date: 25-FEB-10

Client Sdg: 10-1759

Method: AV

Data File: 022510W1-9

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	10:55															X									
S0.2	1	10:57															X									
S0.5	1	10:59															X									
S2.0	1	11:01															X									
S5.0	1	11:03															X									
S10	1	11:05															X									
ICV01	1	11:07															X									
ICB01	1	11:09															X									
CRDL01	1	11:11															X									
CCV01	1	11:13															X									
CCB01	1	11:15															X									
ZZZZZZ	1	11:17																								
ZZZZZZ	1	11:19																								
ZZZZZZ	1	11:21																								
ZZZZZZ	1	11:23																								
ZZZZZZ	1	11:25																								
ZZZZZZ	5	11:27																								
ZZZZZZ	1	11:29																								
ZZZZZZ	1	11:31																								
ZZZZZZ	1	11:33																								
ZZZZZZ	1	11:35																								
CCV02	1	11:37															X									
CCB02	1	11:39															X									
ZZZZZZ	1	11:41																								
ZZZZZZ	1	11:43																								
ZZZZZZ	1	11:45																								
1202051937	1	11:46															X									
1202051938	1	11:48															X									
246871001	1	11:50															X									
ZZZZZZ	1	11:52																								
ZZZZZZ	1	11:54																								
ZZZZZZ	1	11:56																								
ZZZZZZ	1	11:58																								
CCV03	1	12:00															X									
CCB03	1	12:02															X									
ZZZZZZ	1	12:04																								
ZZZZZZ	1	12:06																								
ZZZZZZ	1	12:08																								
ZZZZZZ	1	12:10																								
ZZZZZZ	1	12:12																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time
ZZZZZZ	1	12:14
ZZZZZZ	1	12:16
ZZZZZZ	1	12:18
ZZZZZZ	1	12:20
ZZZZZZ	1	12:22
CCV04	1	12:24
CCB04	1	12:26
ZZZZZZ	1	12:28
I202051939	1	12:30
I202051940	1	12:32
I202051941	5	12:34
ZZZZZZ	1	12:36
ZZZZZZ	1	12:38
ZZZZZZ	1	12:40
ZZZZZZ	1	12:42
ZZZZZZ	1	12:44
ZZZZZZ	1	12:46
CCV05	1	12:48
CCB05	1	12:50

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS4

Start Date: 07-MAR-10

End Date: 07-MAR-10

Client Sdg: 10-1759

Method MS

Data File: 100306-3

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	08:57												X												
S10	1	08:59												X												
S100	1	09:01												X												
ICV01	1	09:03												X												
ICB01	1	09:05												X												
CRDL01	1	09:06												X												
ICSA01	1	09:08												X												
ICSAB01	1	09:10												X												
CCV01	1	09:12												X												
CCB01	1	09:14												X												
ZZZZZZ	1	09:17																								
ZZZZZZ	1	09:19																								
ZZZZZZ	1	09:20																								
ZZZZZZ	1	09:22																								
ZZZZZZ	1	09:24																								
ZZZZZZ	5	09:26																								
CCV02	1	09:28												X												
CCB02	1	09:29												X												
ZZZZZZ	1	09:31																								
ZZZZZZ	1	09:33																								
ZZZZZZ	1	09:35																								
ZZZZZZ	1	09:37																								
ZZZZZZ	1	09:39																								
ZZZZZZ	1	09:40																								
ZZZZZZ	1	09:42																								
ZZZZZZ	5	09:44																								
CCV03	1	09:46												X												
CCB03	1	09:48												X												
1202042571	1	09:50												X												
1202042572	1	09:52												X												
ZZZZZZ	1	09:53																								
246871001	1	09:55												X												
ZZZZZZ	1	09:57																								
1202042573	1	09:59												X												
1202042574	1	10:01												X												
1202042575	5	10:03												X												
CCV04	1	10:04												X												
CCB04	1	10:06												X												

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1759

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum		15.0	30
	Antimony		1.0	3
	Arsenic		1.6	5
	Barium		0.6	2
	Beryllium		0.1	.5
	Cadmium		0.11	1
	Calcium		65.0	200
	Chromium		2.0	10
	Cobalt		0.1	1
	Copper		0.33	1
	Iron		33.0	100
	Lead		0.5	2
	Magnesium		5.2	15
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		1.0	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.05	.2
	Vanadium		3.0	10
	Zinc		3.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1759

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

		<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY	<u>Analyte</u>			
LIQUID	Mercury		0.066	.2

METALS

-10-

Instrument Detection Limits

SDG NO. 10-1759

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.0	10
	Arsenic	188.979	5.0	30
	Barium	233.527	1.0	5
	Beryllium	313.107	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	50.0	200
	Chromium	267.716	1.0	5
	Cobalt	228.616	1.0	5
	Copper	324.752	3.0	10
	Iron	238.204	30.0	100
	Lead	220.353	3.3	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	50.0	150
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	100	300
	Thallium	190.801	5.0	20
	Uranium	409.014	10.0	50
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No:

10-1759

Contract: LANI.01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.02697	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.48147	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.21356	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05186	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.18741	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	2.85580	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.44491	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-29.9151	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.57616
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.60374	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	198.62
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	4.37985	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.36147	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	2.23785	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.36818	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.35273

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1759**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Iron	Lead	Magnesium	Manganese	Molybdenum
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	48.4946
Antimony	206.836	-0.02515	0.00000	0.00000	0.00000	-20.5057
Arsenic	188.979	-0.23424	0.00000	0.00000	0.00000	2.41902
Barium	233.527	-0.03042	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.16240	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.10329	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01944	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01444	0.00000	0.00000	0.00000	-2.33100
Copper	324.752	-0.05293	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09554	0.00000	0.00000	0.00000	-2.48774
Magnesium	279.077	1.04597	0.00000	0.00000	0.00000	-10.4683
Manganese	257.61	-0.09877	0.00000	0.04089	0.00000	0.00000
Molybdenum	202.031	-0.07763	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80543	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.39429	1.18725
Selenium	196.026	-3.27508	0.00000	0.00000	0.00000	-3.07287
Silica	251.611	0.00000	0.00000	0.00000	0.00000	27.2377
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	12.3082
Silver	328.068	-0.32385	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-4.77918	0.00000
Tin	189.927	-0.01682	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.08168	0.00000	0.00000
Uranium	409.014	0.11400	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.14564	0.00000	-0.01931	0.00000	-14.1293
Zinc	213.857	0.09701	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No:

10-1759Contract: LANL01004Instrument: OPTIMA3Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Potassium	Selenium	Silica
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-0.84443	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.63547	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	6.37026	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1759**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Silicon	Silver	Strontium	Sulfur	Thallium
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Tin	Titanium	Uranium	Vanadium	Zinc
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-15.4932	3.30431	0.00000	-2.81282	0.00000
Arsenic	188.979	0.00000	-8.66313	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-2.20293	0.00000
Beryllium	313.107	0.00000	-2.27027	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	-0.19473	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.39645	-1.41250	0.00000
Cobalt	228.616	0.00000	2.09497	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.55360	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-9.37529	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.81635	-4.04400	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-8.29801	0.00000	1.88584	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.43915	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	1.05947	-1.91382	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-1759

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
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
Arsenic	1000	1000	ug/L	01-FEB-10
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-1759

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA3

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
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. 10-1759

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS4

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

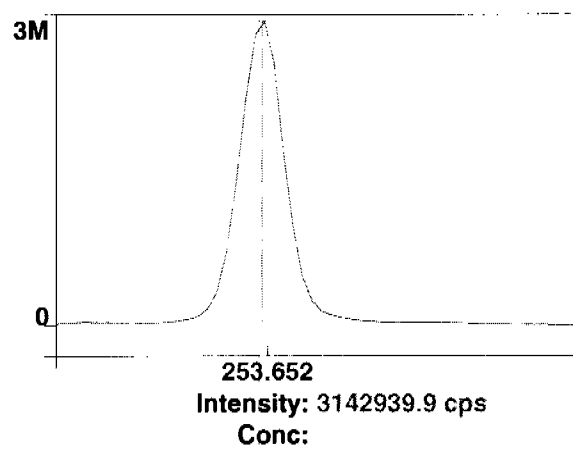
Raw Data

Method: Hg_ReAlign
Result: 031010

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

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Analysis Begun

Start Time: 3/4/2010 15:07:28

Plasma On Time: 3/1/2010 06:57:40

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\030410.sif

Batch ID:

Results Data Set: 030410

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/4/2010 15:07:28

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4785.5	4785.5	101 %	15:09:21
1	Y RADIAL	5067.3	5067.3	100.5 %	15:09:21
1	Al 396.153Radial†	-81.7	-81.0	[0.00] ug/L	15:09:41
1	Ca 317.933Radial†	19.4	19.3	[0.00] ug/L	15:09:41
1	Fe 238.204 Radial†	8.2	8.2	[0.00] ug/L	15:09:41
1	K 766.490 Radial†	2382.3	2363.6	[0.00] ug/L	15:09:21
1	Mg 279.077 IEC†	1.9	1.9	[0.00] ug/L	15:09:41
1	Na 589.592 Radial†	-732.2	-726.4	[0.00] ug/L	15:09:21
1	Sr 421.552†	18.4	18.3	[0.00] ug/L	15:09:21
1	Sc 361.383	794914.9	794914.9	100.52 %	15:10:37
1	Y 371.029	710822.7	710822.7	100.54 %	15:10:37
1	Ag 328.068†	183.0	182.1	[0.00] ug/L	15:10:37
1	As 188.979†	-31.2	-31.1	[0.00] ug/L	15:10:57
1	B 249.677†	-215.6	-214.5	[0.00] ug/L	15:10:57
1	Ba 233.527†	-5.4	-5.4	[0.00] ug/L	15:10:57
1	Be 313.107†	-9356.1	-9307.8	[0.00] ug/L	15:10:37
1	Cd 226.502†	-184.6	-183.7	[0.00] ug/L	15:10:57
1	Co 228.616†	-64.0	-63.7	[0.00] ug/L	15:10:57
1	Cr 267.716†	48.4	48.1	[0.00] ug/L	15:10:57
1	Cu 324.752†	7759.8	7719.7	[0.00] ug/L	15:10:37
1	Mn 257.610†	442.5	440.2	[0.00] ug/L	15:10:57
1	Mo 202.031†	15.0	14.9	[0.00] ug/L	15:10:57
1	Ni 231.604†	78.5	78.1	[0.00] ug/L	15:10:57
1	P 214.914†	194.1	193.1	[0.00] ug/L	15:10:57
1	Pb 220.353†	-64.5	-64.1	[0.00] ug/L	15:10:57
1	S 181.975 Axial†	41.6	41.4	[0.00] ug/L	15:10:57
1	Sb 206.836†	37.4	37.2	[0.00] ug/L	15:10:57
1	Se 196.026†	-18.7	-18.6	[0.00] ug/L	15:10:57
1	Si 251.611†	543.4	540.6	[0.00] ug/L	15:10:57
1	Sn 189.927†	17.2	17.2	[0.00] ug/L	15:10:57
1	Ti 334.940†	-1320.5	-1313.7	[0.00] ug/L	15:10:37
1	Tl 190.801†	-35.6	-35.5	[0.00] ug/L	15:10:57
1	U 409.014†	-2310.3	-2298.4	[0.00] ug/L	15:10:37
1	V 292.402†	-1642.6	-1634.2	[0.00] ug/L	15:10:37
1	Zn 213.857†	795.0	790.9	[0.00] ug/L	15:10:57
1	SiO2†	554.2	551.4	[0.00] ug/L	15:11:53
2	Sc Radial	4727.6	4727.6	99.6 %	15:09:46
2	Y RADIAL	5028.3	5028.3	99.77 %	15:09:46
2	Al 396.153Radial†	-82.3	-82.7	[0.00] ug/L	15:10:06
2	Ca 317.933Radial†	17.6	17.6	[0.00] ug/L	15:10:06
2	Fe 238.204 Radial†	7.6	7.6	[0.00] ug/L	15:10:06
2	K 766.490 Radial†	2318.0	2328.0	[0.00] ug/L	15:09:46
2	Mg 279.077 IEC†	2.0	2.0	[0.00] ug/L	15:10:06
2	Na 589.592 Radial†	-708.6	-711.6	[0.00] ug/L	15:09:46
2	Sr 421.552†	35.0	35.2	[0.00] ug/L	15:09:46
2	Sc 361.383	784944.9	784944.9	99.258 %	15:11:03
2	Y 371.029	701682.2	701682.2	99.249 %	15:11:03

2	Ag 328.068†	200.2	201.7	[0.00]	ug/L	15:11:03
2	As 188.979†	-22.4	-22.6	[0.00]	ug/L	15:11:23
2	B 249.677†	-221.5	-223.2	[0.00]	ug/L	15:11:23
2	Ba 233.527†	6.4	6.5	[0.00]	ug/L	15:11:23
2	Be 313.107†	-9321.1	-9390.8	[0.00]	ug/L	15:11:03
2	Cd 226.502†	-183.9	-185.3	[0.00]	ug/L	15:11:23
2	Co 228.616†	-67.6	-68.1	[0.00]	ug/L	15:11:23
2	Cr 267.716†	61.7	62.1	[0.00]	ug/L	15:11:23
2	Cu 324.752†	7613.4	7670.3	[0.00]	ug/L	15:11:03
2	Mn 257.610†	436.0	439.3	[0.00]	ug/L	15:11:23
2	Mo 202.031†	9.8	9.8	[0.00]	ug/L	15:11:23
2	Ni 231.604†	73.7	74.3	[0.00]	ug/L	15:11:23
2	P 214.914†	203.2	204.7	[0.00]	ug/L	15:11:23
2	Pb 220.353†	-54.0	-54.4	[0.00]	ug/L	15:11:23
2	S 181.975 Axial†	37.7	38.0	[0.00]	ug/L	15:11:23
2	Sb 206.836†	28.8	29.0	[0.00]	ug/L	15:11:23
2	Se 196.026†	-25.6	-25.8	[0.00]	ug/L	15:11:23
2	Si 251.611†	556.0	560.1	[0.00]	ug/L	15:11:23
2	Sn 189.927†	17.0	17.1	[0.00]	ug/L	15:11:23
2	Ti 334.940†	-1376.0	-1386.3	[0.00]	ug/L	15:11:03
2	Tl 190.801†	-26.8	-27.0	[0.00]	ug/L	15:11:23
2	U 409.014†	-2344.5	-2362.0	[0.00]	ug/L	15:11:03
2	V 292.402†	-1705.0	-1717.8	[0.00]	ug/L	15:11:03
2	Zn 213.857†	796.3	802.3	[0.00]	ug/L	15:11:23
2	SiO2†	561.8	566.0	[0.00]	ug/L	15:11:59
3	Sc Radial	4730.6	4730.6	99.6	%	15:10:11
3	Y RADIAL	5024.9	5024.9	99.70	%	15:10:11
3	Al 396.153Radial†	-83.4	-83.7	[0.00]	ug/L	15:10:31
3	Ca 317.933Radial†	17.8	17.9	[0.00]	ug/L	15:10:31
3	Fe 238.204 Radial†	6.0	6.0	[0.00]	ug/L	15:10:31
3	K 766.490 Radial†	2220.6	2228.7	[0.00]	ug/L	15:10:11
3	Mg 279.077 IEC†	2.5	2.5	[0.00]	ug/L	15:10:31
3	Na 589.592 Radial†	-770.3	-773.2	[0.00]	ug/L	15:10:11
3	Sr 421.552†	3.3	3.3	[0.00]	ug/L	15:10:11
3	Sc 361.383	792576.5	792576.5	100.22	%	15:11:28
3	Y 371.029	708466.0	708466.0	100.21	%	15:11:28
3	Ag 328.068†	145.9	145.6	[0.00]	ug/L	15:11:28
3	As 188.979†	-32.3	-32.2	[0.00]	ug/L	15:11:48
3	B 249.677†	-235.6	-235.1	[0.00]	ug/L	15:11:48
3	Ba 233.527†	-13.2	-13.2	[0.00]	ug/L	15:11:48
3	Be 313.107†	-9319.7	-9298.9	[0.00]	ug/L	15:11:28
3	Cd 226.502†	-179.3	-178.9	[0.00]	ug/L	15:11:48
3	Co 228.616†	-61.4	-61.3	[0.00]	ug/L	15:11:48
3	Cr 267.716†	73.6	73.4	[0.00]	ug/L	15:11:48
3	Cu 324.752†	7798.6	7781.2	[0.00]	ug/L	15:11:28
3	Mn 257.610†	412.8	411.9	[0.00]	ug/L	15:11:48
3	Mo 202.031†	11.2	11.2	[0.00]	ug/L	15:11:48
3	Ni 231.604†	89.3	89.1	[0.00]	ug/L	15:11:48
3	P 214.914†	199.1	198.7	[0.00]	ug/L	15:11:48
3	Pb 220.353†	-54.1	-54.0	[0.00]	ug/L	15:11:48
3	S 181.975 Axial†	43.8	43.7	[0.00]	ug/L	15:11:48
3	Sb 206.836†	32.5	32.4	[0.00]	ug/L	15:11:48
3	Se 196.026†	-12.5	-12.4	[0.00]	ug/L	15:11:48
3	Si 251.611†	553.9	552.7	[0.00]	ug/L	15:11:48
3	Sn 189.927†	4.9	4.9	[0.00]	ug/L	15:11:48
3	Ti 334.940†	-1307.2	-1304.3	[0.00]	ug/L	15:11:28
3	Tl 190.801†	-44.7	-44.6	[0.00]	ug/L	15:11:48
3	U 409.014†	-2450.9	-2445.4	[0.00]	ug/L	15:11:28
3	V 292.402†	-1629.6	-1626.0	[0.00]	ug/L	15:11:28
3	Zn 213.857†	800.5	798.7	[0.00]	ug/L	15:11:48
3	SiO2†	564.8	563.6	[0.00]	ug/L	15:12:04

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	790812.1	5213.91	0.66%	100.00 %
Sc Radial	4747.9	32.63	0.69%	100 %
Y 371.029	706990.3	4745.59	0.67%	100.00 %
Y RADIAL	5040.2	23.54	0.47%	100.0 %
Ag 328.068†	176.5	28.47	16.14%	[0.00] ug/L

Al 396.153Radial†	-82.5	1.36	1.64%	[0.00]	ug/L
As 188.979†	-28.6	5.26	18.39%	[0.00]	ug/L
B 249.677†	-224.2	10.33	4.61%	[0.00]	ug/L
Ba 233.527†	-4.0	9.90	246.06%	[0.00]	ug/L
Be 313.107†	-9332.5	50.65	0.54%	[0.00]	ug/L
Ca 317.933Radial†	18.3	0.88	4.83%	[0.00]	ug/L
Cd 226.502†	-182.6	3.33	1.82%	[0.00]	ug/L
Co 228.616†	-64.4	3.45	5.36%	[0.00]	ug/L
Cr 267.716†	61.2	12.68	20.71%	[0.00]	ug/L
Cu 324.752†	7723.7	55.58	0.72%	[0.00]	ug/L
Fe 238.204 Radial†	7.3	1.11	15.25%	[0.00]	ug/L
K 766.490 Radial†	2306.7	69.88	3.03%	[0.00]	ug/L
Mg 279.077 IEC†	2.1	0.33	15.77%	[0.00]	ug/L
Mn 257.610†	430.5	16.10	3.74%	[0.00]	ug/L
Mo 202.031†	12.0	2.62	21.91%	[0.00]	ug/L
Na 589.592 Radial†	-737.1	32.13	4.36%	[0.00]	ug/L
Ni 231.604†	80.5	7.72	9.59%	[0.00]	ug/L
P 214.914†	198.8	5.81	2.92%	[0.00]	ug/L
Pb 220.353†	-57.5	5.74	9.98%	[0.00]	ug/L
S 181.975 Axial†	41.0	2.87	6.98%	[0.00]	ug/L
Sb 206.836†	32.9	4.11	12.52%	[0.00]	ug/L
Se 196.026†	-19.0	6.70	35.30%	[0.00]	ug/L
Si 251.611†	551.2	9.84	1.79%	[0.00]	ug/L
Sn 189.927†	13.1	7.07	54.07%	[0.00]	ug/L
Sr 421.552†	18.9	15.93	84.12%	[0.00]	ug/L
Ti 334.940†	-1334.8	44.86	3.36%	[0.00]	ug/L
Tl 190.801†	-35.7	8.81	24.67%	[0.00]	ug/L
U 409.014†	-2368.6	73.74	3.11%	[0.00]	ug/L
V 292.402†	-1659.3	50.80	3.06%	[0.00]	ug/L
Zn 213.857†	797.3	5.81	0.73%	[0.00]	ug/L
SiO2†	560.3	7.85	1.40%	[0.00]	ug/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 3/4/2010 15:14:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Analysis Time
1	Sc Radial	4948.5	4948.5	104 %	15:16:11
1	Y RADIAL	5223.1	5223.1	103.6 %	15:16:11
1	K 766.490 Radial†	7760.9	5139.5	[1000] ug/L	15:16:06
1	Sr 421.552†	14799.9	14181.0	[100] ug/L	15:16:11
1	Sc 361.383	801354.8	801354.8	101.33 %	15:16:38
1	Y 371.029	716064.4	716064.4	101.28 %	15:16:38
1	Ag 328.068†	20191.1	19749.0	[100] ug/L	15:16:38
1	As 188.979†	211.6	237.5	[100] ug/L	15:16:58
1	B 249.677†	3661.0	3837.1	[100] ug/L	15:16:38
1	Ba 233.527†	8758.0	8646.8	[100] ug/L	15:16:38
1	Be 313.107†	248724.8	254785.0	[100] ug/L	15:16:38
1	Cd 226.502†	7252.7	7339.9	[100] ug/L	15:16:38
1	Co 228.616†	3377.9	3397.8	[100] ug/L	15:16:58
1	Cr 267.716†	7728.7	7565.8	[100] ug/L	15:16:38
1	Cu 324.752†	34635.7	26456.3	[100] ug/L	15:16:38
1	Mn 257.610†	66439.8	65135.2	[100] ug/L	15:16:38
1	Mo 202.031†	1139.4	1112.4	[100] ug/L	15:16:58
1	Ni 231.604†	3323.6	3199.4	[100] ug/L	15:16:58
1	P 214.914†	1124.6	910.9	[500] ug/L	15:16:58
1	Pb 220.353†	574.2	624.2	[100] ug/L	15:16:58
1	S 181.975 Axial†	208.7	164.9	[200] ug/L	15:16:58
1	Sb 206.836†	285.8	249.2	[100] ug/L	15:16:58
1	Se 196.026†	154.2	171.1	[100] ug/L	15:16:58
1	Si 251.611†	14884.2	14137.3	[500] ug/L	15:16:38
1	Sn 189.927†	446.1	427.1	[100] ug/L	15:16:58
1	Ti 334.940†	50394.7	51066.5	[100] ug/L	15:16:38
1	Tl 190.801†	184.4	217.6	[100] ug/L	15:16:58
1	U 409.014†	573.2	2934.2	[100] ug/L	15:16:38
1	V 292.402†	11162.5	12675.0	[100] ug/L	15:16:38
1	Zn 213.857†	10832.0	9892.2	[100] ug/L	15:16:38
1	SiO2†	15080.4	14321.7	[1069.5] ug/L	15:17:55
2	Sc Radial	4773.8	4773.8	101 %	15:16:21
2	Y RADIAL	5045.6	5045.6	100.1 %	15:16:21
2	K 766.490 Radial†	7828.2	5479.0	[1000] ug/L	15:16:16
2	Sr 421.552†	14333.5	14236.9	[100] ug/L	15:16:21
2	Sc 361.383	798968.2	798968.2	101.03 %	15:17:04
2	Y 371.029	715568.3	715568.3	101.21 %	15:17:04
2	Ag 328.068†	20234.0	19851.0	[100] ug/L	15:17:04
2	As 188.979†	200.4	226.9	[100] ug/L	15:17:24
2	B 249.677†	3655.1	3842.0	[100] ug/L	15:17:04
2	Ba 233.527†	8741.0	8655.8	[100] ug/L	15:17:04
2	Be 313.107†	249215.6	256004.0	[100] ug/L	15:17:04
2	Cd 226.502†	7256.6	7365.1	[100] ug/L	15:17:04
2	Co 228.616†	3344.9	3375.2	[100] ug/L	15:17:24
2	Cr 267.716†	7694.5	7554.8	[100] ug/L	15:17:04
2	Cu 324.752†	34609.3	26532.3	[100] ug/L	15:17:04
2	Mn 257.610†	66349.9	65242.1	[100] ug/L	15:17:04
2	Mo 202.031†	1144.4	1120.7	[100] ug/L	15:17:24
2	Ni 231.604†	3323.7	3209.3	[100] ug/L	15:17:24
2	P 214.914†	1115.2	904.9	[500] ug/L	15:17:24
2	Pb 220.353†	572.4	624.0	[100] ug/L	15:17:24
2	S 181.975 Axial†	200.7	157.6	[200] ug/L	15:17:24
2	Sb 206.836†	284.4	248.6	[100] ug/L	15:17:24
2	Se 196.026†	141.6	159.2	[100] ug/L	15:17:24
2	Si 251.611†	14915.2	14211.8	[500] ug/L	15:17:04
2	Sn 189.927†	453.4	435.7	[100] ug/L	15:17:24
2	Ti 334.940†	50421.9	51242.0	[100] ug/L	15:17:04
2	Tl 190.801†	173.3	207.2	[100] ug/L	15:17:24
2	U 409.014†	654.0	3015.9	[100] ug/L	15:17:04

2	V 292.402†	11304.6	12848.5	[100]	ug/L	15:17:04
2	Zn 213.857†	10795.9	9888.4	[100]	ug/L	15:17:04
2	SiO2†	15092.7	14378.3	[1069.5]	ug/L	15:18:00
3	Sc Radial	4928.1	4928.1	104	%	15:16:31
3	Y RADIAL	5178.4	5178.4	102.7	%	15:16:31
3	K 766.490 Radial†	7705.2	5116.6	[1000]	ug/L	15:16:26
3	Sr 421.552†	14827.2	14266.0	[100]	ug/L	15:16:31
3	Sc 361.383	798486.4	798486.4	100.97	%	15:17:29
3	Y 371.029	714648.5	714648.5	101.08	%	15:17:29
3	Ag 328.068†	20141.6	19771.6	[100]	ug/L	15:17:29
3	As 188.979†	204.9	231.5	[100]	ug/L	15:17:49
3	B 249.677†	3651.1	3840.2	[100]	ug/L	15:17:29
3	Ba 233.527†	8751.4	8671.4	[100]	ug/L	15:17:29
3	Be 313.107†	249161.4	256099.2	[100]	ug/L	15:17:29
3	Cd 226.502†	7259.2	7372.1	[100]	ug/L	15:17:29
3	Co 228.616†	3340.9	3373.1	[100]	ug/L	15:17:49
3	Cr 267.716†	7708.1	7572.8	[100]	ug/L	15:17:29
3	Cu 324.752†	34642.6	26585.9	[100]	ug/L	15:17:29
3	Mn 257.610†	66432.0	65363.1	[100]	ug/L	15:17:29
3	Mo 202.031†	1143.3	1120.3	[100]	ug/L	15:17:49
3	Ni 231.604†	3319.3	3206.9	[100]	ug/L	15:17:49
3	P 214.914†	1131.9	922.1	[500]	ug/L	15:17:49
3	Pb 220.353†	581.7	633.6	[100]	ug/L	15:17:49
3	S 181.975 Axial†	209.5	166.5	[200]	ug/L	15:17:49
3	Sb 206.836†	290.3	254.7	[100]	ug/L	15:17:49
3	Se 196.026†	145.1	162.7	[100]	ug/L	15:17:49
3	Si 251.611†	14885.2	14190.9	[500]	ug/L	15:17:29
3	Sn 189.927†	453.4	436.0	[100]	ug/L	15:17:49
3	Ti 334.940†	50460.6	51310.4	[100]	ug/L	15:17:29
3	Tl 190.801†	187.7	221.6	[100]	ug/L	15:17:49
3	U 409.014†	574.3	2937.4	[100]	ug/L	15:17:29
3	V 292.402†	11375.2	12925.2	[100]	ug/L	15:17:29
3	Zn 213.857†	10803.8	9902.7	[100]	ug/L	15:17:29
3	SiO2†	15108.0	14402.4	[1069.5]	ug/L	15:18:05

Mean Data: S0.1

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	799603.1	1535.97	0.19%	101.11	%
Sc Radial	4883.5	95.56	1.96%	103	%
Y 371.029	715427.1	718.44	0.10%	101.19	%
Y RADIAL	5149.0	92.35	1.79%	102.2	%
Ag 328.068†	19790.5	53.57	0.27%	[100]	ug/L
As 188.979†	232.0	5.28	2.27%	[100]	ug/L
B 249.677†	3839.8	2.48	0.06%	[100]	ug/L
Ba 233.527†	8658.0	12.40	0.14%	[100]	ug/L
Be 313.107†	255629.4	732.80	0.29%	[100]	ug/L
Cd 226.502†	7359.0	16.96	0.23%	[100]	ug/L
Co 228.616†	3382.0	13.71	0.41%	[100]	ug/L
Cr 267.716†	7564.5	9.09	0.12%	[100]	ug/L
Cu 324.752†	26524.8	65.13	0.25%	[100]	ug/L
K 766.490 Radial†	5245.1	202.96	3.87%	[1000]	ug/L
Mn 257.610†	65246.8	114.00	0.17%	[100]	ug/L
Mo 202.031†	1117.8	4.67	0.42%	[100]	ug/L
Ni 231.604†	3205.2	5.17	0.16%	[100]	ug/L
P 214.914†	912.7	8.73	0.96%	[500]	ug/L
Pb 220.353†	627.3	5.47	0.87%	[100]	ug/L
S 181.975 Axial†	163.0	4.71	2.89%	[200]	ug/L
Sb 206.836†	250.8	3.35	1.34%	[100]	ug/L
Se 196.026†	164.3	6.15	3.74%	[100]	ug/L
Si 251.611†	14180.0	38.43	0.27%	[500]	ug/L
Sn 189.927†	432.9	5.03	1.16%	[100]	ug/L
Sr 421.552†	14227.9	43.21	0.30%	[100]	ug/L
Ti 334.940†	51206.3	125.84	0.25%	[100]	ug/L
Tl 190.801†	215.5	7.42	3.44%	[100]	ug/L
U 409.014†	2962.5	46.27	1.56%	[100]	ug/L
V 292.402†	12816.2	128.18	1.00%	[100]	ug/L
Zn 213.857†	9894.4	7.42	0.07%	[100]	ug/L
SiO2†	14367.5	41.43	0.29%	[1069.5]	ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 3/4/2010 15:20:15
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4849.0	4849.0	102 %	15:22:07
1	Y RADIAL	5109.0	5109.0	101.4 %	15:22:07
1	Al 396.153Radial†	5276.7	5249.1	[5000] ug/L	15:22:07
1	Ca 317.933Radial†	2783.4	2707.1	[5000] ug/L	15:22:27
1	K 766.490 Radial†	28980.6	26069.7	[5000] ug/L	15:22:07
1	Mg 279.077 IEC†	132.3	127.4	[5000] ug/L	15:22:27
1	Sr 421.552†	71086.3	69585.2	[500] ug/L	15:22:07
1	Sc 361.383	820318.3	820318.3	103.73 %	15:23:25
1	Y 371.029	725094.8	725094.8	102.56 %	15:23:25
1	Ag 328.068†	99789.0	96023.2	[500] ug/L	15:23:30
1	As 188.979†	1129.1	1117.1	[500] ug/L	15:23:50
1	B 249.677†	19766.4	19279.7	[500] ug/L	15:23:30
1	Ba 233.527†	43270.0	41717.6	[500] ug/L	15:23:30
1	Be 313.107†	1280230.4	1243514.1	[500] ug/L	15:23:25
1	Cd 226.502†	36509.7	35379.1	[500] ug/L	15:23:30
1	Co 228.616†	16736.8	16199.2	[500] ug/L	15:23:50
1	Cr 267.716†	37807.3	36386.1	[500] ug/L	15:23:30
1	Cu 324.752†	143071.0	130201.1	[500] ug/L	15:23:30
1	Mn 257.610†	320389.2	308434.6	[500] ug/L	15:23:30
1	Mo 202.031†	5572.4	5360.0	[500] ug/L	15:23:50
1	Ni 231.604†	16483.4	15810.0	[500] ug/L	15:23:30
1	P 214.914†	4814.3	4442.3	[2500] ug/L	15:23:50
1	Pb 220.353†	3106.6	3052.4	[500] ug/L	15:23:50
1	S 181.975 Axial†	847.6	776.1	[1000] ug/L	15:23:50
1	Sb 206.836†	1283.4	1204.4	[500] ug/L	15:23:50
1	Se 196.026†	829.9	819.1	[500] ug/L	15:23:50
1	Si 251.611†	70482.9	67396.5	[2500] ug/L	15:23:30
1	Sn 189.927†	2189.6	2097.8	[500] ug/L	15:23:50
1	Ti 334.940†	250900.0	243210.1	[500] ug/L	15:23:30
1	Tl 190.801†	1065.9	1063.3	[500] ug/L	15:23:50
1	U 409.014†	12831.8	14738.9	[500] ug/L	15:23:30
1	V 292.402†	62935.4	62331.0	[500] ug/L	15:23:30
1	Zn 213.857†	47644.3	45133.3	[500] ug/L	15:23:30
1	SiO2†	71600.8	68465.1	[5347.5] ug/L	15:24:57
2	Sc Radial	4877.8	4877.8	103 %	15:22:32
2	Y RADIAL	5155.5	5155.5	102.3 %	15:22:32
2	Al 396.153Radial†	5348.6	5288.7	[5000] ug/L	15:22:32
2	Ca 317.933Radial†	2811.8	2718.7	[5000] ug/L	15:22:53
2	K 766.490 Radial†	29238.2	26152.9	[5000] ug/L	15:22:32
2	Mg 279.077 IEC†	133.5	127.9	[5000] ug/L	15:22:53
2	Sr 421.552†	71976.4	70041.0	[500] ug/L	15:22:32
2	Sc 361.383	812177.7	812177.7	102.70 %	15:23:55
2	Y 371.029	718049.2	718049.2	101.56 %	15:23:55
2	Ag 328.068†	100132.8	97322.2	[500] ug/L	15:24:01
2	As 188.979†	1124.4	1123.5	[500] ug/L	15:24:21
2	B 249.677†	19792.3	19495.9	[500] ug/L	15:24:01
2	Ba 233.527†	43432.4	42293.8	[500] ug/L	15:24:01
2	Be 313.107†	1274021.4	1249838.8	[500] ug/L	15:23:55
2	Cd 226.502†	36621.9	35841.1	[500] ug/L	15:24:01
2	Co 228.616†	16689.9	16315.2	[500] ug/L	15:24:21
2	Cr 267.716†	37911.4	36852.9	[500] ug/L	15:24:01
2	Cu 324.752†	143549.8	132049.8	[500] ug/L	15:24:01
2	Mn 257.610†	321431.9	312545.7	[500] ug/L	15:24:01
2	Mo 202.031†	5548.7	5390.8	[500] ug/L	15:24:21
2	Ni 231.604†	16480.8	15966.7	[500] ug/L	15:24:01
2	P 214.914†	4806.2	4480.9	[2500] ug/L	15:24:21
2	Pb 220.353†	3112.1	3087.7	[500] ug/L	15:24:21
2	S 181.975 Axial†	839.6	776.5	[1000] ug/L	15:24:21
2	Sb 206.836†	1289.8	1223.0	[500] ug/L	15:24:21

2	Se 196.026†	827.4	824.6	[500]	ug/L	15:24:21
2	Si 251.611†	70771.6	68358.7	[2500]	ug/L	15:24:01
2	Sn 189.927†	2192.6	2121.8	[500]	ug/L	15:24:21
2	Ti 334.940†	251908.2	246616.1	[500]	ug/L	15:24:01
2	Tl 190.801†	1072.8	1080.3	[500]	ug/L	15:24:21
2	U 409.014†	12839.0	14869.9	[500]	ug/L	15:24:01
2	V 292.402†	63166.5	63164.1	[500]	ug/L	15:24:01
2	Zn 213.857†	47760.9	45707.2	[500]	ug/L	15:24:01
2	SiO2†	70619.8	68201.7	[5347.5]	ug/L	15:25:02
3	Sc Radial	4712.0	4712.0	99.2	%	15:22:58
3	Y RADIAL	4980.9	4980.9	98.82	%	15:22:58
3	Al 396.153Radial†	5182.9	5304.9	[5000]	ug/L	15:22:58
3	Ca 317.933Radial†	2796.7	2799.7	[5000]	ug/L	15:23:18
3	K 766.490 Radial†	28488.0	26398.2	[5000]	ug/L	15:22:58
3	Mg 279.077 IEC†	131.6	130.5	[5000]	ug/L	15:23:18
3	Sr 421.552†	69509.5	70019.8	[500]	ug/L	15:22:58
3	Sc 361.383	814622.7	814622.7	103.01	%	15:24:26
3	Y 371.029	720960.3	720960.3	101.98	%	15:24:26
3	Ag 328.068†	100566.0	97450.1	[500]	ug/L	15:24:31
3	As 188.979†	1131.0	1126.6	[500]	ug/L	15:24:51
3	B 249.677†	19950.9	19592.0	[500]	ug/L	15:24:31
3	Ba 233.527†	43690.6	42417.5	[500]	ug/L	15:24:31
3	Be 313.107†	1285523.8	1257281.6	[500]	ug/L	15:24:26
3	Cd 226.502†	36862.2	35967.4	[500]	ug/L	15:24:31
3	Co 228.616†	16749.6	16324.4	[500]	ug/L	15:24:51
3	Cr 267.716†	38150.1	36973.8	[500]	ug/L	15:24:31
3	Cu 324.752†	144280.1	132339.2	[500]	ug/L	15:24:31
3	Mn 257.610†	323026.8	313154.6	[500]	ug/L	15:24:31
3	Mo 202.031†	5548.7	5374.5	[500]	ug/L	15:24:51
3	Ni 231.604†	16637.0	16070.3	[500]	ug/L	15:24:31
3	P 214.914†	4810.1	4470.7	[2500]	ug/L	15:24:51
3	Pb 220.353†	3102.4	3069.2	[500]	ug/L	15:24:51
3	S 181.975 Axial†	857.5	791.4	[1000]	ug/L	15:24:51
3	Sb 206.836†	1295.5	1224.8	[500]	ug/L	15:24:51
3	Se 196.026†	824.7	819.6	[500]	ug/L	15:24:51
3	Si 251.611†	71230.7	68597.6	[2500]	ug/L	15:24:31
3	Sn 189.927†	2194.6	2117.4	[500]	ug/L	15:24:51
3	Ti 334.940†	253015.1	246954.5	[500]	ug/L	15:24:31
3	Tl 190.801†	1064.2	1068.8	[500]	ug/L	15:24:51
3	U 409.014†	12773.6	14768.8	[500]	ug/L	15:24:31
3	V 292.402†	63522.1	63324.7	[500]	ug/L	15:24:31
3	Zn 213.857†	48054.0	45852.2	[500]	ug/L	15:24:31
3	SiO2†	69899.7	67296.3	[5347.5]	ug/L	15:25:07

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	815706.2	4177.04	0.51%	103.15 %
Sc Radial	4812.9	88.57	1.84%	101 %
Y 371.029	721368.1	3540.44	0.49%	102.03 %
Y RADIAL	5081.8	90.40	1.78%	100.8 %
Ag 328.068†	96931.8	789.50	0.81%	[500] ug/L
Al 396.153Radial†	5280.9	28.66	0.54%	[5000] ug/L
As 188.979†	1122.4	4.82	0.43%	[500] ug/L
B 249.677†	19455.9	159.97	0.82%	[500] ug/L
Ba 233.527†	42143.0	373.54	0.89%	[500] ug/L
Be 313.107†	1250211.5	6891.33	0.55%	[500] ug/L
Ca 317.933Radial†	2741.8	50.45	1.84%	[5000] ug/L
Cd 226.502†	35729.2	309.70	0.87%	[500] ug/L
Co 228.616†	16279.6	69.79	0.43%	[500] ug/L
Cr 267.716†	36737.6	310.32	0.84%	[500] ug/L
Cu 324.752†	131530.0	1159.92	0.88%	[500] ug/L
K 766.490 Radial†	26206.9	170.79	0.65%	[5000] ug/L
Mg 279.077 IEC†	128.6	1.67	1.30%	[5000] ug/L
Mn 257.610†	311378.3	2567.43	0.82%	[500] ug/L
Mo 202.031†	5375.1	15.39	0.29%	[500] ug/L
Ni 231.604†	15949.0	131.02	0.82%	[500] ug/L
P 214.914†	4464.6	19.99	0.45%	[2500] ug/L
Pb 220.353†	3069.8	17.68	0.58%	[500] ug/L
S 181.975 Axial†	781.3	8.72	1.12%	[1000] ug/L

Sb 206.836†	1217.4	11.31	0.93%	[500] ug/L
Se 196.026†	821.1	3.08	0.37%	[500] ug/L
Si 251.611†	68117.6	635.78	0.93%	[2500] ug/L
Sn 189.927†	2112.3	12.78	0.61%	[500] ug/L
Sr 421.552†	69882.0	257.25	0.37%	[500] ug/L
Ti 334.940†	245593.6	2071.08	0.84%	[500] ug/L
Tl 190.801†	1070.8	8.67	0.81%	[500] ug/L
U 409.014†	14792.5	68.63	0.46%	[500] ug/L
V 292.402†	62939.9	533.42	0.85%	[500] ug/L
Zn 213.857†	45564.2	380.16	0.83%	[500] ug/L
SiO2†	67987.7	613.08	0.90%	[5347.5] ug/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 3/4/2010 15:27:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4739.9	4739.9	99.8 %	15:29:11
1	Y RADIAL	5016.1	5016.1	99.52 %	15:29:11
1	Al 396.153Radial†	10691.0	10791.6	[10000] ug/L	15:29:11
1	Ca 317.933Radial†	5687.0	5678.3	[10000] ug/L	15:29:11
1	Fe 238.204 Radial†	1002.3	996.7	[10000] ug/L	15:29:31
1	K 766.490 Radial†	55555.7	53342.9	[10000] ug/L	15:29:11
1	Mg 279.077 IEC†	266.3	264.7	[10000] ug/L	15:29:31
1	Na 589.592 Radial†	30851.5	31640.7	[10000] ug/L	15:29:11
1	Sr 421.552†	140807.2	141026.3	[1000] ug/L	15:29:11
1	Sc 361.383	799716.8	799716.8	101.13 %	15:30:34
1	Y 371.029	708177.6	708177.6	100.17 %	15:30:34
1	Ag 328.068†	202874.9	200439.4	[1000] ug/L	15:30:34
1	As 188.979†	2290.7	2293.8	[1000] ug/L	15:30:54
1	B 249.677†	40803.3	40573.2	[1000] ug/L	15:30:34
1	Ba 233.527†	87756.3	86783.2	[1000] ug/L	15:30:34
1	Be 313.107†	2602800.3	2583150.9	[1000] ug/L	15:30:29
1	Cd 226.502†	73767.9	73129.1	[1000] ug/L	15:30:34
1	Co 228.616†	34029.7	33715.1	[1000] ug/L	15:30:54
1	Cr 267.716†	76344.5	75433.2	[1000] ug/L	15:30:34
1	Cu 324.752†	284385.4	273495.0	[1000] ug/L	15:30:34
1	Mn 257.610†	648174.7	640526.8	[1000] ug/L	15:30:34
1	Mo 202.031†	11238.8	11101.7	[1000] ug/L	15:30:54
1	Ni 231.604†	32941.4	32494.1	[1000] ug/L	15:30:34
1	P 214.914†	9532.9	9227.9	[5000] ug/L	15:30:54
1	Pb 220.353†	6307.2	6294.5	[1000] ug/L	15:30:54
1	S 181.975 Axial†	1670.7	1611.0	[2000] ug/L	15:30:54
1	Sb 206.836†	2638.8	2576.5	[1000] ug/L	15:30:54
1	Se 196.026†	1679.5	1679.8	[1000] ug/L	15:30:54
1	Si 251.611†	143581.0	141431.1	[5000] ug/L	15:30:34
1	Sn 189.927†	4461.7	4398.9	[1000] ug/L	15:30:54
1	Ti 334.940†	512952.9	508576.0	[1000] ug/L	15:30:34
1	Tl 190.801†	2194.0	2205.3	[1000] ug/L	15:30:54
1	U 409.014†	28316.0	30369.4	[1000] ug/L	15:30:34
1	V 292.402†	129347.3	129566.4	[1000] ug/L	15:30:34
1	Zn 213.857†	95397.2	93537.6	[1000] ug/L	15:30:34
1	SiO2†	142193.6	140050.0	[10695] ug/L	15:32:02
2	Sc Radial	4823.4	4823.4	102 %	15:29:36
2	Y RADIAL	5103.2	5103.2	101.3 %	15:29:36
2	Al 396.153Radial†	10844.9	10757.6	[10000] ug/L	15:29:36
2	Ca 317.933Radial†	5749.3	5641.1	[10000] ug/L	15:29:36
2	Fe 238.204 Radial†	982.1	959.5	[10000] ug/L	15:29:56
2	K 766.490 Radial†	56046.1	52862.2	[10000] ug/L	15:29:36
2	Mg 279.077 IEC†	268.0	261.7	[10000] ug/L	15:29:56
2	Na 589.592 Radial†	31186.9	31435.9	[10000] ug/L	15:29:36
2	Sr 421.552†	142459.3	140210.7	[1000] ug/L	15:29:36
2	Sc 361.383	801099.3	801099.3	101.30 %	15:31:05
2	Y 371.029	710073.3	710073.3	100.44 %	15:31:05
2	Ag 328.068†	203282.7	200495.8	[1000] ug/L	15:31:05
2	As 188.979†	2316.3	2315.1	[1000] ug/L	15:31:25
2	B 249.677†	40841.7	40541.5	[1000] ug/L	15:31:05
2	Ba 233.527†	87883.0	86758.5	[1000] ug/L	15:31:05
2	Be 313.107†	2591301.0	2567357.7	[1000] ug/L	15:31:00
2	Cd 226.502†	73744.6	72980.2	[1000] ug/L	15:31:05
2	Co 228.616†	34186.6	33811.9	[1000] ug/L	15:31:25
2	Cr 267.716†	76376.9	75334.9	[1000] ug/L	15:31:05
2	Cu 324.752†	285102.2	273717.3	[1000] ug/L	15:31:05
2	Mn 257.610†	648547.4	639788.8	[1000] ug/L	15:31:05
2	Mo 202.031†	11279.0	11122.2	[1000] ug/L	15:31:25
2	Ni 231.604†	33069.3	32564.2	[1000] ug/L	15:31:05

2	P 214.914†	9609.6	9287.3	[5000]	ug/L	15:31:25
2	Pb 220.353†	6373.6	6349.2	[1000]	ug/L	15:31:25
2	S 181.975 Axial†	1685.3	1622.6	[2000]	ug/L	15:31:25
2	Sb 206.836†	2636.6	2569.9	[1000]	ug/L	15:31:25
2	Se 196.026†	1694.2	1691.4	[1000]	ug/L	15:31:25
2	Si 251.611†	143729.9	141333.0	[5000]	ug/L	15:31:05
2	Sn 189.927†	4467.6	4397.1	[1000]	ug/L	15:31:25
2	Ti 334.940†	513687.5	508425.8	[1000]	ug/L	15:31:05
2	Tl 190.801†	2211.5	2218.8	[1000]	ug/L	15:31:25
2	U 409.014†	28341.1	30345.8	[1000]	ug/L	15:31:05
2	V 292.402†	129428.8	129426.1	[1000]	ug/L	15:31:05
2	Zn 213.857†	95487.1	93463.6	[1000]	ug/L	15:31:05
2	SiO2†	142415.9	140026.8	[10695]	ug/L	15:32:07
3	Sc Radial	4808.8	4808.8	101	%	15:30:01
3	Y RADIAL	5071.1	5071.1	100.6	%	15:30:01
3	Al 396.153Radial†	10809.6	10755.2	[10000]	ug/L	15:30:01
3	Ca 317.933Radial†	5734.7	5643.8	[10000]	ug/L	15:30:01
3	Fe 238.204 Radial†	978.8	959.1	[10000]	ug/L	15:30:21
3	K 766.490 Radial†	56106.1	53089.0	[10000]	ug/L	15:30:01
3	Mg 279.077 IEC†	268.0	262.5	[10000]	ug/L	15:30:21
3	Na 589.592 Radial†	31004.9	31349.3	[10000]	ug/L	15:30:01
3	Sr 421.552†	141951.5	140135.2	[1000]	ug/L	15:30:01
3	Sc 361.383	791236.8	791236.8	100.05	%	15:31:36
3	Y 371.029	700602.8	700602.8	99.097	%	15:31:36
3	Ag 328.068†	200548.0	200263.9	[1000]	ug/L	15:31:36
3	As 188.979†	2306.3	2333.6	[1000]	ug/L	15:31:56
3	B 249.677†	40347.8	40550.4	[1000]	ug/L	15:31:36
3	Ba 233.527†	86647.9	86605.4	[1000]	ug/L	15:31:36
3	Be 313.107†	2551200.0	2559163.0	[1000]	ug/L	15:31:31
3	Cd 226.502†	72914.6	73058.1	[1000]	ug/L	15:31:36
3	Co 228.616†	34043.4	34089.5	[1000]	ug/L	15:31:56
3	Cr 267.716†	75436.3	75334.6	[1000]	ug/L	15:31:36
3	Cu 324.752†	280240.3	272366.1	[1000]	ug/L	15:31:36
3	Mn 257.610†	639829.0	639055.1	[1000]	ug/L	15:31:36
3	Mo 202.031†	11205.9	11187.9	[1000]	ug/L	15:31:56
3	Ni 231.604†	32591.9	32493.9	[1000]	ug/L	15:31:36
3	P 214.914†	9558.1	9354.1	[5000]	ug/L	15:31:56
3	Pb 220.353†	6322.2	6376.3	[1000]	ug/L	15:31:56
3	S 181.975 Axial†	1673.4	1631.4	[2000]	ug/L	15:31:56
3	Sb 206.836†	2628.5	2594.2	[1000]	ug/L	15:31:56
3	Se 196.026†	1696.5	1714.6	[1000]	ug/L	15:31:56
3	Si 251.611†	141386.6	140759.5	[5000]	ug/L	15:31:36
3	Sn 189.927†	4461.0	4445.5	[1000]	ug/L	15:31:56
3	Ti 334.940†	506203.3	507266.3	[1000]	ug/L	15:31:36
3	Tl 190.801†	2208.6	2243.1	[1000]	ug/L	15:31:56
3	U 409.014†	27853.0	30206.7	[1000]	ug/L	15:31:36
3	V 292.402†	127933.6	129524.3	[1000]	ug/L	15:31:36
3	Zn 213.857†	94319.7	93471.8	[1000]	ug/L	15:31:36
3	SiO2†	142569.9	141933.0	[10695]	ug/L	15:32:12

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	797351.0	5339.94	0.67%	100.83 %
Sc Radial	4790.7	44.60	0.93%	101 %
Y 371.029	706284.6	5010.98	0.71%	99.900 %
Y RADIAL	5063.5	44.03	0.87%	100.5 %
Ag 328.068†	200399.7	120.96	0.06%	[1000] ug/L
Al 396.153Radial†	10768.1	20.32	0.19%	[10000] ug/L
As 188.979†	2314.2	19.92	0.86%	[1000] ug/L
B 249.677†	40555.0	16.35	0.04%	[1000] ug/L
Ba 233.527†	86715.7	96.32	0.11%	[1000] ug/L
Be 313.107†	2569890.5	12192.90	0.47%	[1000] ug/L
Ca 317.933Radial†	5654.4	20.78	0.37%	[10000] ug/L
Cd 226.502†	73055.8	74.47	0.10%	[1000] ug/L
Co 228.616†	33872.2	194.31	0.57%	[1000] ug/L
Cr 267.716†	75367.6	56.81	0.08%	[1000] ug/L
Cu 324.752†	273192.8	724.55	0.27%	[1000] ug/L
Fe 238.204 Radial†	971.8	21.62	2.22%	[10000] ug/L
K 766.490 Radial†	53098.0	240.49	0.45%	[10000] ug/L

Mg 279.077 IEC†	262.9	1.55	0.59%	[10000]	ug/L
Mn 257.610†	639790.2	735.86	0.12%	[1000]	ug/L
Mo 202.031†	11137.3	45.02	0.40%	[1000]	ug/L
Na 589.592 Radial†	31475.3	149.63	0.48%	[10000]	ug/L
Ni 231.604†	32517.4	40.50	0.12%	[1000]	ug/L
P 214.914†	9289.8	63.15	0.68%	[5000]	ug/L
Pb 220.353†	6340.0	41.68	0.66%	[1000]	ug/L
S 181.975 Axial†	1621.7	10.25	0.63%	[2000]	ug/L
Sb 206.836†	2580.2	12.55	0.49%	[1000]	ug/L
Se 196.026†	1695.3	17.70	1.04%	[1000]	ug/L
Si 251.611†	141174.5	362.75	0.26%	[5000]	ug/L
Sn 189.927†	4413.9	27.44	0.62%	[1000]	ug/L
Sr 421.552†	140457.4	494.14	0.35%	[1000]	ug/L
Ti 334.940†	508089.4	716.76	0.14%	[1000]	ug/L
Tl 190.801†	2222.4	19.18	0.86%	[1000]	ug/L
U 409.014†	30307.3	87.93	0.29%	[1000]	ug/L
V 292.402†	129505.6	71.98	0.06%	[1000]	ug/L
Zn 213.857†	93491.0	40.59	0.04%	[1000]	ug/L
SiO2†	140669.9	1093.92	0.78%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/4/2010 15:34:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	4666.0	4666.0	98.3 %		15:36:37
1	Y RADIAL	4898.2	4898.2	97.18 %		15:36:37
1	Al 396.153Radial†	53344.3	54363.2	[50000] ug/L		15:36:17
1	Ca 317.933Radial†	27318.0	27779.2	[50000] ug/L		15:36:17
1	Fe 238.204 Radial†	1884.5	1910.3	[20000] ug/L		15:36:37
1	Mg 279.077 IEC†	1240.1	1259.8	[50000] ug/L		15:36:37
1	Na 589.592 Radial†	64042.5	65903.7	[20000] ug/L		15:36:17
1	Sc 361.383	784347.7	784347.7	99.183 %		15:37:34
1	Y 371.029	689761.2	689761.2	97.563 %		15:37:34
2	Sc Radial	4632.9	4632.9	97.6 %		15:37:02
2	Y RADIAL	4879.9	4879.9	96.82 %		15:37:02
2	Al 396.153Radial†	53410.5	54818.4	[50000] ug/L		15:36:42
2	Ca 317.933Radial†	27354.7	28015.3	[50000] ug/L		15:36:42
2	Fe 238.204 Radial†	1895.1	1934.8	[20000] ug/L		15:37:02
2	Mg 279.077 IEC†	1241.8	1270.5	[50000] ug/L		15:37:02
2	Na 589.592 Radial†	64329.2	66662.6	[20000] ug/L		15:36:42
2	Sc 361.383	781601.7	781601.7	98.835 %		15:37:40
2	Y 371.029	687663.7	687663.7	97.266 %		15:37:40
3	Sc Radial	4657.1	4657.1	98.1 %		15:37:27
3	Y RADIAL	4875.0	4875.0	96.72 %		15:37:27
3	Al 396.153Radial†	53651.6	54780.2	[50000] ug/L		15:37:07
3	Ca 317.933Radial†	27484.3	28001.9	[50000] ug/L		15:37:07
3	Fe 238.204 Radial†	1893.9	1923.6	[20000] ug/L		15:37:27
3	Mg 279.077 IEC†	1248.0	1270.2	[50000] ug/L		15:37:27
3	Na 589.592 Radial†	64699.2	66697.7	[20000] ug/L		15:37:07
3	Sc 361.383	791424.5	791424.5	100.08 %		15:37:45
3	Y 371.029	696608.7	696608.7	98.532 %		15:37:45

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	785791.3	5068.03	0.64%	99.365 %	
Sc Radial	4652.0	17.11	0.37%	98.0 %	
Y 371.029	691344.5	4677.97	0.68%	97.787 %	
Y RADIAL	4884.4	12.24	0.25%	96.91 %	
Al 396.153Radial†	54653.9	252.49	0.46%	[50000] ug/L	
Ca 317.933Radial†	27932.2	132.60	0.47%	[50000] ug/L	
Fe 238.204 Radial†	1922.9	12.30	0.64%	[20000] ug/L	
Mg 279.077 IEC†	1266.8	6.14	0.48%	[50000] ug/L	
Na 589.592 Radial†	66421.3	448.61	0.68%	[20000] ug/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	199.1	0.00000	0.999914	
Al 396.153Radial	3	Lin Thru 0	0.0	1.092	0.00000	0.999991	
As 188.979	3	Lin Thru 0	0.0	2.300	0.00000	0.999927	
B 249.677	3	Lin Thru 0	0.0	40.21	0.00000	0.999859	
Ba 233.527	3	Lin Thru 0	0.0	86.23	0.00000	0.999937	
Be 313.107	3	Lin Thru 0	0.0	2556	0.00000	0.999941	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5588	0.00000	0.999996	
Cd 226.502	3	Lin Thru 0	0.0	72.74	0.00000	0.999961	
Co 228.616	3	Lin Thru 0	0.0	33.61	0.00000	0.999879	
Cr 267.716	3	Lin Thru 0	0.0	74.99	0.00000	0.999949	
Cu 324.752	3	Lin Thru 0	0.0	271.1	0.00000	0.999887	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0964	0.00000	0.999991	
K 766.490 Radial	3	Lin Thru 0	0.0	5.296	0.00000	0.999986	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0254	0.00000	0.999973
Mn 257.610	3	Lin Thru 0	0.0	636.5	0.00000	0.999941
Mo 202.031	3	Lin Thru 0	0.0	11.06	0.00000	0.999902
Na 589.592 Radia	2	Lin Thru 0	0.0	3.286	0.00000	0.999777
Ni 231.604	3	Lin Thru 0	0.0	32.39	0.00000	0.999971
P 214.914	3	Lin Thru 0	0.0	1.843	0.00000	0.999878
Pb 220.353	3	Lin Thru 0	0.0	6.300	0.00000	0.999920
S 181.975 Axial	3	Lin Thru 0	0.0	0.8050	0.00000	0.999893
Sb 206.836	3	Lin Thru 0	0.0	2.551	0.00000	0.999741
Se 196.026	3	Lin Thru 0	0.0	1.684	0.00000	0.999919
Si 251.611	3	Lin Thru 0	0.0	28.04	0.00000	0.999901
Sn 189.927	3	Lin Thru 0	0.0	4.376	0.00000	0.999851
Sr 421.552	3	Lin Thru 0	0.0	140.3	0.00000	0.999997
Ti 334.940	3	Lin Thru 0	0.0	504.8	0.00000	0.999910
Tl 190.801	3	Lin Thru 0	0.0	2.206	0.00000	0.999891
U 409.014	3	Lin Thru 0	0.0	30.16	0.00000	0.999953
V 292.402	3	Lin Thru 0	0.0	128.8	0.00000	0.999937
Zn 213.857	3	Lin Thru 0	0.0	93.07	0.00000	0.999933
SiO2	3	Lin Thru 0	0.0	13.07	0.00000	0.999907

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/4/2010 15:39:57

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	4988.2	4988.2	105 %		15:41:50
1	Y RADIAL	5287.0	5287.0	104.9 %		15:41:50
1	Al 396.153Radial†	5469.9	5288.9	4817.6 ug/L	4817.6 ppb	15:41:50
1	Ca 317.933Radial†	2870.4	2713.8	4856.5 ug/L	4856.5 ppb	15:42:10
1	Fe 238.204 Radial†	513.0	481.0	5007.3 ug/L	5007.3 ppb	15:42:10
1	K 766.490 Radial†	15992.1	12914.9	2435.4 ug/L	2435.4 ppb	15:41:50
1	Mg 279.077 IEC†	138.0	129.2	5093.3 ug/L	5093.3 ppb	15:42:10
1	Na 589.592 Radial†	7648.3	8016.9	2439.5 ug/L	2439.5 ppb	15:41:50
1	Sr 421.552†	77289.8	73547.3	524.05 ug/L	524.05 ppb	15:41:50
1	Sc 361.383	820732.0	820732.0	103.78 %		15:43:07
1	Y 371.029	727403.6	727403.6	102.89 %		15:43:07
1	Ag 328.068†	50821.7	48792.5	248.17 ug/L	248.17 ppb	15:43:07
1	As 188.979†	1088.4	1077.4	472.45 ug/L	472.45 ppb	15:43:27
1	B 249.677†	20936.2	20397.2	504.98 ug/L	504.98 ppb	15:43:07
1	Ba 233.527†	44703.3	43077.7	500.79 ug/L	500.79 ppb	15:43:07
1	Be 313.107†	664434.6	649545.0	255.23 ug/L	255.23 ppb	15:43:07
1	Cd 226.502†	36374.3	35230.9	484.20 ug/L	484.20 ppb	15:43:27
1	Co 228.616†	17638.7	17060.0	507.72 ug/L	507.72 ppb	15:43:27
1	Cr 267.716†	37421.1	35995.7	480.59 ug/L	480.59 ppb	15:43:07
1	Cu 324.752†	146969.9	133888.4	493.84 ug/L	493.84 ppb	15:43:07
1	Mn 257.610†	334413.2	321791.6	505.84 ug/L	505.84 ppb	15:43:07
1	Mo 202.031†	5978.9	5749.0	520.20 ug/L	520.20 ppb	15:43:27
1	Ni 231.604†	16526.1	15843.1	488.82 ug/L	488.82 ppb	15:43:27
1	P 214.914†	4939.5	4560.6	2378.0 ug/L	2378.0 ppb	15:43:27
1	Pb 220.353†	3170.4	3112.3	495.90 ug/L	495.90 ppb	15:43:27
1	S 181.975 Axial†	2072.7	1956.1	2429.0 ug/L	2429.0 ppb	15:43:27
1	Sb 206.836†	1325.2	1244.0	506.43 ug/L	506.43 ppb	15:43:27
1	Se 196.026†	4357.4	4217.5	2517.2 ug/L	2517.2 ppb	15:43:27
1	Si 251.611†	139303.2	133673.7	4760.9 ug/L	4760.9 ppb	15:43:07
1	Sn 189.927†	2376.6	2276.9	520.93 ug/L	520.93 ppb	15:43:27
1	Ti 334.940†	253688.1	245774.6	486.76 ug/L	486.76 ppb	15:43:07
1	Tl 190.801†	1140.2	1134.3	517.54 ug/L	517.54 ppb	15:43:27
1	U 409.014†	12088.4	14016.3	463.11 ug/L	463.11 ppb	15:43:07
1	V 292.402†	64360.0	63673.1	501.36 ug/L	501.36 ppb	15:43:07
1	Zn 213.857†	48761.3	46186.4	491.75 ug/L	491.75 ppb	15:43:07
1	SiO2†	141021.6	135320.3	10341 ug/L	10341 ppb	15:44:25
2	Sc Radial	4910.3	4910.3	103 %		15:42:15
2	Y RADIAL	5178.2	5178.2	102.7 %		15:42:15
2	Al 396.153Radial†	5427.9	5330.9	4855.9 ug/L	4855.9 ppb	15:42:15
2	Ca 317.933Radial†	2845.5	2733.1	4891.0 ug/L	4891.0 ppb	15:42:35
2	Fe 238.204 Radial†	515.0	490.7	5108.4 ug/L	5108.4 ppb	15:42:35
2	K 766.490 Radial†	15825.7	12995.6	2450.6 ug/L	2450.6 ppb	15:42:15
2	Mg 279.077 IEC†	139.4	132.7	5230.2 ug/L	5230.2 ppb	15:42:35
2	Na 589.592 Radial†	7516.1	8004.6	2435.7 ug/L	2435.7 ppb	15:42:15
2	Sr 421.552†	76025.5	73492.3	523.66 ug/L	523.66 ppb	15:42:15
2	Sc 361.383	817598.5	817598.5	103.39 %		15:43:33
2	Y 371.029	724041.5	724041.5	102.41 %		15:43:33
2	Ag 328.068†	50821.8	48980.3	249.15 ug/L	249.15 ppb	15:43:33
2	As 188.979†	1099.6	1092.2	478.95 ug/L	478.95 ppb	15:43:53
2	B 249.677†	20913.7	20452.8	506.34 ug/L	506.34 ppb	15:43:33
2	Ba 233.527†	44725.1	43263.9	502.96 ug/L	502.96 ppb	15:43:33
2	Be 313.107†	661765.3	649416.8	255.18 ug/L	255.18 ppb	15:43:33
2	Cd 226.502†	36339.0	35331.1	485.57 ug/L	485.57 ppb	15:43:53
2	Co 228.616†	17630.2	17117.0	509.41 ug/L	509.41 ppb	15:43:53
2	Cr 267.716†	37337.9	36053.4	481.36 ug/L	481.36 ppb	15:43:33
2	Cu 324.752†	146854.3	134319.3	495.44 ug/L	495.44 ppb	15:43:33
2	Mn 257.610†	334036.3	322662.1	507.21 ug/L	507.21 ppb	15:43:33
2	Mo 202.031†	5989.9	5781.7	523.17 ug/L	523.17 ppb	15:43:53
2	Ni 231.604†	16509.8	15888.4	490.21 ug/L	490.21 ppb	15:43:53

2	P 214.914†	4957.4	4596.2	2396.9 ug/L	2396.9 ppb	15:43:53
2	Pb 220.353†	3165.0	3118.8	496.94 ug/L	496.94 ppb	15:43:53
2	S 181.975 Axial†	2063.1	1954.5	2426.9 ug/L	2426.9 ppb	15:43:53
2	Sb 206.836†	1328.1	1251.7	509.55 ug/L	509.55 ppb	15:43:53
2	Se 196.026†	4330.0	4207.1	2511.3 ug/L	2511.3 ppb	15:43:53
2	Si 251.611†	139061.6	133954.5	4770.8 ug/L	4770.8 ppb	15:43:33
2	Sn 189.927†	2378.2	2287.2	523.29 ug/L	523.29 ppb	15:43:53
2	Ti 334.940†	253512.9	246541.9	488.28 ug/L	488.28 ppb	15:43:33
2	Tl 190.801†	1147.3	1145.4	522.59 ug/L	522.59 ppb	15:43:53
2	U 409.014†	12074.8	14047.8	464.14 ug/L	464.14 ppb	15:43:33
2	V 292.402†	64191.6	63747.8	501.97 ug/L	501.97 ppb	15:43:33
2	Zn 213.857†	48674.7	46282.7	492.76 ug/L	492.76 ppb	15:43:33
2	SiO2†	142135.1	136918.1	10463 ug/L	10463 ppb	15:44:30
3	Sc Radial	4898.5	4898.5	103 %		15:42:40
3	Y RADIAL	5184.1	5184.1	102.9 %		15:42:40
3	Al 396.153Radial†	5426.8	5342.4	4866.3 ug/L	4866.3 ppb	15:42:40
3	Ca 317.933Radial†	2855.6	2749.5	4920.4 ug/L	4920.4 ppb	15:43:00
3	Fe 238.204 Radial†	507.9	485.0	5049.1 ug/L	5049.1 ppb	15:43:00
3	K 766.490 Radial†	15837.9	13044.2	2459.7 ug/L	2459.7 ppb	15:42:40
3	Mg 279.077 IEC†	138.7	132.3	5215.0 ug/L	5215.0 ppb	15:43:00
3	Na 589.592 Radial†	7365.7	7876.3	2396.7 ug/L	2396.7 ppb	15:42:40
3	Sr 421.552†	75943.0	73588.8	524.35 ug/L	524.35 ppb	15:42:40
3	Sc 361.383	814636.2	814636.2	103.01 %		15:43:59
3	Y 371.029	720999.8	720999.8	101.98 %		15:43:59
3	Ag 328.068†	50544.4	48889.7	248.67 ug/L	248.67 ppb	15:43:59
3	As 188.979†	1095.3	1091.8	478.75 ug/L	478.75 ppb	15:44:19
3	B 249.677†	20751.0	20368.4	504.24 ug/L	504.24 ppb	15:43:59
3	Ba 233.527†	44485.9	43188.9	502.09 ug/L	502.09 ppb	15:43:59
3	Be 313.107†	657290.6	647400.5	254.39 ug/L	254.39 ppb	15:43:59
3	Cd 226.502†	36487.2	35602.8	489.32 ug/L	489.32 ppb	15:44:19
3	Co 228.616†	17731.4	17277.2	514.19 ug/L	514.19 ppb	15:44:19
3	Cr 267.716†	37092.4	35946.4	479.93 ug/L	479.93 ppb	15:43:59
3	Cu 324.752†	145897.9	133907.3	493.91 ug/L	493.91 ppb	15:43:59
3	Mn 257.610†	332515.9	322360.9	506.73 ug/L	506.73 ppb	15:43:59
3	Mo 202.031†	6012.2	5824.4	527.03 ug/L	527.03 ppb	15:44:19
3	Ni 231.604†	16572.8	16007.6	493.89 ug/L	493.89 ppb	15:44:19
3	P 214.914†	4963.7	4619.7	2410.1 ug/L	2410.1 ppb	15:44:19
3	Pb 220.353†	3192.2	3156.3	502.91 ug/L	502.91 ppb	15:44:19
3	S 181.975 Axial†	2069.2	1967.6	2443.3 ug/L	2443.3 ppb	15:44:19
3	Sb 206.836†	1325.5	1253.9	510.55 ug/L	510.55 ppb	15:44:19
3	Se 196.026†	4378.2	4269.1	2548.0 ug/L	2548.0 ppb	15:44:19
3	Si 251.611†	138351.7	133754.4	4763.7 ug/L	4763.7 ppb	15:43:59
3	Sn 189.927†	2387.9	2305.0	527.37 ug/L	527.37 ppb	15:44:19
3	Ti 334.940†	252134.0	246095.0	487.40 ug/L	487.40 ppb	15:43:59
3	Tl 190.801†	1149.5	1151.5	525.32 ug/L	525.32 ppb	15:44:19
3	U 409.014†	12026.4	14043.3	464.00 ug/L	464.00 ppb	15:43:59
3	V 292.402†	63898.1	63688.7	501.58 ug/L	501.58 ppb	15:43:59
3	Zn 213.857†	48456.7	46242.3	492.31 ug/L	492.31 ppb	15:43:59
3	SiO2†	136914.7	132350.3	10113 ug/L	10113 ppb	15:44:35

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	817655.6	103.39 %	0.385			0.37%
Sc Radial	4932.3	104 %	1.0			0.99%
Y 371.029	724148.3	102.43 %	0.453			0.44%
Y RADIAL	5216.5	103.5 %	1.21			1.17%
Ag 328.068†	48887.5	248.67 ug/L	0.488	248.67 ppb	0.488	0.20%
QC value within limits for Ag 328.068 Recovery = 99.47%						
Al 396.153Radial†	5320.7	4846.6 ug/L	25.67	4846.6 ppb	25.67	0.53%
QC value within limits for Al 396.153Radial Recovery = 96.93%						
As 188.979†	1087.1	476.72 ug/L	3.697	476.72 ppb	3.697	0.78%
QC value within limits for As 188.979 Recovery = 95.34%						
B 249.677†	20406.1	505.19 ug/L	1.067	505.19 ppb	1.067	0.21%
QC value within limits for B 249.677 Recovery = 101.04%						
Ba 233.527†	43176.8	501.95 ug/L	1.089	501.95 ppb	1.089	0.22%
QC value within limits for Ba 233.527 Recovery = 100.39%						
Be 313.107†	648787.4	254.94 ug/L	0.471	254.94 ppb	0.471	0.18%
QC value within limits for Be 313.107 Recovery = 101.97%						
Ca 317.933Radial†	2732.2	4889.3 ug/L	32.01	4889.3 ppb	32.01	0.65%

QC value within limits for Ca 317.933 Radial Recovery = 97.79%

Cd 226.502†	35388.3	486.36 ug/L	2.646	486.36 ppb	2.646	0.54%
QC value within limits for Cd 226.502 Recovery = 97.27%						
Co 228.616†	17151.4	510.44 ug/L	3.358	510.44 ppb	3.358	0.66%
QC value within limits for Co 228.616 Recovery = 102.09%						
Cr 267.716†	35998.5	480.63 ug/L	0.715	480.63 ppb	0.715	0.15%
QC value within limits for Cr 267.716 Recovery = 96.13%						
Cu 324.752†	134038.3	494.40 ug/L	0.900	494.40 ppb	0.900	0.18%
QC value within limits for Cu 324.752 Recovery = 98.88%						
Fe 238.204 Radial†	485.6	5054.9 ug/L	50.76	5054.9 ppb	50.76	1.00%
QC value within limits for Fe 238.204 Radial Recovery = 101.10%						
K 766.490 Radial†	12984.9	2448.6 ug/L	12.32	2448.6 ppb	12.32	0.50%
QC value within limits for K 766.490 Radial Recovery = 97.94%						
Mg 279.077 IEC†	131.4	5179.5 ug/L	75.02	5179.5 ppb	75.02	1.45%
QC value within limits for Mg 279.077 IEC Recovery = 103.59%						
Mn 257.610†	322271.5	506.60 ug/L	0.696	506.60 ppb	0.696	0.14%
QC value within limits for Mn 257.610 Recovery = 101.32%						
Mo 202.031†	5785.0	523.47 ug/L	3.422	523.47 ppb	3.422	0.65%
QC value within limits for Mo 202.031 Recovery = 104.69%						
Na 589.592 Radial†	7966.0	2423.9 ug/L	23.70	2423.9 ppb	23.70	0.98%
QC value within limits for Na 589.592 Radial Recovery = 96.96%						
Ni 231.604†	15913.1	490.97 ug/L	2.622	490.97 ppb	2.622	0.53%
QC value within limits for Ni 231.604 Recovery = 98.19%						
P 214.914†	4592.2	2395.0 ug/L	16.12	2395.0 ppb	16.12	0.67%
QC value within limits for P 214.914 Recovery = 95.80%						
Pb 220.353†	3129.2	498.58 ug/L	3.784	498.58 ppb	3.784	0.76%
QC value within limits for Pb 220.353 Recovery = 99.72%						
S 181.975 Axial†	1959.4	2433.1 ug/L	8.88	2433.1 ppb	8.88	0.37%
QC value within limits for S 181.975 Axial Recovery = 97.32%						
Sb 206.836†	1249.9	508.84 ug/L	2.149	508.84 ppb	2.149	0.42%
QC value within limits for Sb 206.836 Recovery = 101.77%						
Se 196.026†	4231.2	2525.5 ug/L	19.69	2525.5 ppb	19.69	0.78%
QC value within limits for Se 196.026 Recovery = 101.02%						
Si 251.611†	133794.2	4765.1 ug/L	5.15	4765.1 ppb	5.15	0.11%
QC value within limits for Si 251.611 Recovery = 95.30%						
Sn 189.927†	2289.7	523.87 ug/L	3.257	523.87 ppb	3.257	0.62%
QC value within limits for Sn 189.927 Recovery = 104.77%						
Sr 421.552†	73542.8	524.02 ug/L	0.345	524.02 ppb	0.345	0.07%
QC value within limits for Sr 421.552 Recovery = 104.80%						
Ti 334.940†	246137.2	487.48 ug/L	0.760	487.48 ppb	0.760	0.16%
QC value within limits for Ti 334.940 Recovery = 97.50%						
Tl 190.801†	1143.8	521.82 ug/L	3.949	521.82 ppb	3.949	0.76%
QC value within limits for Tl 190.801 Recovery = 104.36%						
U 409.014†	14035.8	463.75 ug/L	0.559	463.75 ppb	0.559	0.12%
QC value within limits for U 409.014 Recovery = 92.75%						
V 292.402†	63703.2	501.64 ug/L	0.310	501.64 ppb	0.310	0.06%
QC value within limits for V 292.402 Recovery = 100.33%						
Zn 213.857†	46237.1	492.27 ug/L	0.505	492.27 ppb	0.505	0.10%
QC value within limits for Zn 213.857 Recovery = 98.45%						
SiO2†	134862.9	10306 ug/L	177.4	10306 ppb	177.4	1.72%
QC value within limits for SiO2 Recovery = 96.36%						

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/4/2010 15:46:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4835.2	4835.2	102 %		15:48:39
1	Y RADIAL	5137.4	5137.4	101.9 %		15:48:39
1	Al 396.153Radial†	-68.9	14.8	13.537 ug/L	13.537 ppb	15:48:59
1	Ca 317.933Radial†	60.2	40.8	73.057 ug/L	73.057 ppb	15:48:59
1	Fe 238.204 Radial†	6.8	-0.6	-6.0410 ug/L	-6.0410 ppb	15:48:59
1	K 766.490 Radial†	2387.7	37.8	7.1149 ug/L	7.1149 ppb	15:48:39
1	Mg 279.077 IEC†	-1.3	-3.3	-131.94 ug/L	-131.94 ppb	15:48:59
1	Na 589.592 Radial†	-690.6	58.9	17.931 ug/L	17.931 ppb	15:48:39
1	Sr 421.552†	59.4	39.4	0.2800 ug/L	0.2800 ppb	15:48:39
1	Sc 361.383	810061.5	810061.5	102.43 %		15:49:56
1	Y 371.029	728051.4	728051.4	102.98 %		15:49:56
1	Ag 328.068†	206.3	24.9	0.1217 ug/L	0.1217 ppb	15:49:56
1	As 188.979†	-40.4	-10.9	-4.7180 ug/L	-4.7180 ppb	15:50:16
1	B 249.677†	-49.2	176.3	4.3832 ug/L	4.3832 ppb	15:50:16
1	Ba 233.527†	7.8	11.6	0.1348 ug/L	0.1348 ppb	15:50:16
1	Be 313.107†	-9225.1	326.6	0.1285 ug/L	0.1285 ppb	15:49:56
1	Cd 226.502†	-166.5	20.1	0.2770 ug/L	0.2770 ppb	15:50:16
1	Co 228.616†	-54.4	11.3	0.3362 ug/L	0.3362 ppb	15:50:16
1	Cr 267.716†	65.3	2.5	0.0328 ug/L	0.0328 ppb	15:50:16
1	Cu 324.752†	7998.0	84.2	0.3095 ug/L	0.3095 ppb	15:49:56
1	Mn 257.610†	607.0	162.1	0.2594 ug/L	0.2594 ppb	15:50:16
1	Mo 202.031†	17.4	5.0	0.4549 ug/L	0.4549 ppb	15:50:16
1	Ni 231.604†	79.8	-2.6	-0.0798 ug/L	-0.0798 ppb	15:50:16
1	P 214.914†	208.5	4.7	2.4883 ug/L	2.4883 ppb	15:50:16
1	Pb 220.353†	-48.6	10.1	1.6053 ug/L	1.6053 ppb	15:50:16
1	S 181.975 Axial†	42.8	0.7	0.9249 ug/L	0.9249 ppb	15:50:16
1	Sb 206.836†	40.3	6.5	2.5430 ug/L	2.5430 ppb	15:50:16
1	Se 196.026†	-21.5	-2.0	-1.2007 ug/L	-1.2007 ppb	15:50:16
1	Si 251.611†	845.6	274.3	9.7782 ug/L	9.7782 ppb	15:50:16
1	Sn 189.927†	10.6	-2.8	-0.6177 ug/L	-0.6177 ppb	15:50:16
1	Ti 334.940†	-1212.5	151.0	0.3192 ug/L	0.3192 ppb	15:49:56
1	Tl 190.801†	-34.4	2.1	0.9479 ug/L	0.9479 ppb	15:50:16
1	U 409.014†	-2388.6	36.7	1.2189 ug/L	1.2189 ppb	15:49:56
1	V 292.402†	-1682.4	16.9	0.1381 ug/L	0.1381 ppb	15:49:56
1	Zn 213.857†	1169.8	344.7	3.7046 ug/L	3.7046 ppb	15:50:16
1	SiO2†	854.7	274.1	20.961 ug/L	20.961 ppb	15:51:12
2	Sc Radial	4828.6	4828.6	102 %		15:49:04
2	Y RADIAL	5121.8	5121.8	101.6 %		15:49:04
2	Al 396.153Radial†	-68.8	14.9	13.583 ug/L	13.583 ppb	15:49:24
2	Ca 317.933Radial†	64.8	45.5	81.406 ug/L	81.406 ppb	15:49:24
2	Fe 238.204 Radial†	9.1	1.7	17.136 ug/L	17.136 ppb	15:49:24
2	K 766.490 Radial†	2398.9	52.0	9.7957 ug/L	9.7957 ppb	15:49:04
2	Mg 279.077 IEC†	-2.3	-4.3	-170.93 ug/L	-170.93 ppb	15:49:24
2	Na 589.592 Radial†	-714.9	34.1	10.376 ug/L	10.376 ppb	15:49:04
2	Sr 421.552†	33.6	14.1	0.1002 ug/L	0.1002 ppb	15:49:04
2	Sc 361.383	801135.0	801135.0	101.31 %		15:50:21
2	Y 371.029	718298.5	718298.5	101.60 %		15:50:21
2	Ag 328.068†	216.5	37.2	0.1921 ug/L	0.1921 ppb	15:50:21
2	As 188.979†	-20.7	8.2	3.5480 ug/L	3.5480 ppb	15:50:41
2	B 249.677†	-76.7	148.6	3.6919 ug/L	3.6919 ppb	15:50:41
2	Ba 233.527†	4.2	8.1	0.0955 ug/L	0.0955 ppb	15:50:41
2	Be 313.107†	-9267.2	184.7	0.0725 ug/L	0.0725 ppb	15:50:21
2	Cd 226.502†	-188.3	-3.2	-0.0455 ug/L	-0.0455 ppb	15:50:41
2	Co 228.616†	-65.9	-0.7	-0.0191 ug/L	-0.0191 ppb	15:50:41
2	Cr 267.716†	81.9	19.6	0.2625 ug/L	0.2625 ppb	15:50:41
2	Cu 324.752†	7922.8	97.0	0.3586 ug/L	0.3586 ppb	15:50:21
2	Mn 257.610†	578.8	140.9	0.2300 ug/L	0.2300 ppb	15:50:41
2	Mo 202.031†	17.6	5.3	0.4860 ug/L	0.4860 ppb	15:50:41
2	Ni 231.604†	106.0	24.2	0.7461 ug/L	0.7461 ppb	15:50:41

2	P 214.914†	204.1	2.6	1.3723 ug/L	1.3723 ppb	15:50:41
2	Pb 220.353†	-53.2	5.0	0.8012 ug/L	0.8012 ppb	15:50:41
2	S 181.975 Axial†	49.4	7.7	9.5948 ug/L	9.5948 ppb	15:50:41
2	Sb 206.836†	39.9	6.5	2.5940 ug/L	2.5940 ppb	15:50:41
2	Se 196.026†	-19.6	-0.4	-0.2115 ug/L	-0.2115 ppb	15:50:41
2	Si 251.611†	837.0	275.0	9.8031 ug/L	9.8031 ppb	15:50:41
2	Sn 189.927†	21.3	8.0	1.8317 ug/L	1.8317 ppb	15:50:41
2	Ti 334.940†	-1312.4	39.2	0.1025 ug/L	0.1025 ppb	15:50:21
2	Tl 190.801†	-26.9	9.2	4.1576 ug/L	4.1576 ppb	15:50:41
2	U 409.014†	-2399.1	0.4	0.0100 ug/L	0.0100 ppb	15:50:21
2	V 292.402†	-1650.8	29.8	0.2322 ug/L	0.2322 ppb	15:50:21
2	Zn 213.857†	1157.4	345.2	3.7017 ug/L	3.7017 ppb	15:50:41
2	SiO2†	862.8	291.3	22.279 ug/L	22.279 ppb	15:51:17
3	Sc Radial	4855.7	4855.7	102 %		15:49:29
3	Y RADIAL	5159.0	5159.0	102.4 %		15:49:29
3	Al 396.153Radial†	-58.7	25.1	22.917 ug/L	22.917 ppb	15:49:49
3	Ca 317.933Radial†	53.9	34.4	61.605 ug/L	61.605 ppb	15:49:49
3	Fe 238.204 Radial†	9.9	2.4	24.762 ug/L	24.762 ppb	15:49:49
3	K 766.490 Radial†	2384.2	24.5	4.5988 ug/L	4.5988 ppb	15:49:29
3	Mg 279.077 IEC†	0.5	-1.6	-63.817 ug/L	-63.817 ppb	15:49:49
3	Na 589.592 Radial†	-732.1	21.2	6.4555 ug/L	6.4555 ppb	15:49:29
3	Sr 421.552†	-4.5	-23.3	-0.1665 ug/L	-0.1665 ppb	15:49:29
3	Sc 361.383	795590.6	795590.6	100.60 %		15:50:47
3	Y 371.029	713000.1	713000.1	100.85 %		15:50:47
3	Ag 328.068†	254.0	76.0	0.3897 ug/L	0.3897 ppb	15:50:47
3	As 188.979†	-22.7	6.0	2.6182 ug/L	2.6182 ppb	15:51:07
3	B 249.677†	-113.3	111.6	2.7696 ug/L	2.7696 ppb	15:51:07
3	Ba 233.527†	6.6	10.5	0.1238 ug/L	0.1238 ppb	15:51:07
3	Be 313.107†	-9143.6	243.8	0.0956 ug/L	0.0956 ppb	15:50:47
3	Cd 226.502†	-165.2	18.4	0.2509 ug/L	0.2509 ppb	15:51:07
3	Co 228.616†	-47.8	16.9	0.5048 ug/L	0.5048 ppb	15:51:07
3	Cr 267.716†	75.6	13.9	0.1865 ug/L	0.1865 ppb	15:51:07
3	Cu 324.752†	7880.9	109.8	0.4063 ug/L	0.4063 ppb	15:50:47
3	Mn 257.610†	597.5	163.4	0.2618 ug/L	0.2618 ppb	15:51:07
3	Mo 202.031†	28.4	16.2	1.4696 ug/L	1.4696 ppb	15:51:07
3	Ni 231.604†	89.8	8.8	0.2715 ug/L	0.2715 ppb	15:51:07
3	P 214.914†	209.4	9.4	4.9753 ug/L	4.9753 ppb	15:51:07
3	Pb 220.353†	-74.4	-16.4	-2.6010 ug/L	-2.6010 ppb	15:51:07
3	S 181.975 Axial†	42.5	1.2	1.5008 ug/L	1.5008 ppb	15:51:07
3	Sb 206.836†	30.2	-2.8	-1.0842 ug/L	-1.0842 ppb	15:51:07
3	Se 196.026†	-25.0	-5.8	-3.4099 ug/L	-3.4099 ppb	15:51:07
3	Si 251.611†	837.6	281.5	10.019 ug/L	10.019 ppb	15:51:07
3	Sn 189.927†	11.7	-1.4	-0.3106 ug/L	-0.3106 ppb	15:51:07
3	Ti 334.940†	-1286.3	56.2	0.1245 ug/L	0.1245 ppb	15:50:47
3	Tl 190.801†	-30.5	5.4	2.4566 ug/L	2.4566 ppb	15:51:07
3	U 409.014†	-2371.8	11.1	0.3633 ug/L	0.3633 ppb	15:50:47
3	V 292.402†	-1628.0	41.1	0.3359 ug/L	0.3359 ppb	15:50:47
3	Zn 213.857†	1166.6	362.3	3.8867 ug/L	3.8867 ppb	15:51:07
3	SiO2†	832.4	267.1	20.399 ug/L	20.399 ppb	15:51:22

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	802262.4	101.45 %	0.923			0.91%
Sc Radial	4839.8	102 %	0.3			0.29%
Y 371.029	719783.3	101.81 %	1.080			1.06%
Y RADIAL	5139.4	102.0 %	0.37			0.36%
Ag 328.068†	46.1	0.2345 ug/L	0.13892	0.2345 ppb	0.13892	59.24%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	18.3	16.679 ug/L	5.4023	16.679 ppb	5.4023	32.39%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.1	0.4827 ug/L	4.52788	0.4827 ppb	4.52788	938.01%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	145.5	3.6149 ug/L	0.80955	3.6149 ppb	0.80955	22.39%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.1	0.1180 ug/L	0.02031	0.1180 ppb	0.02031	17.20%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	251.7	0.0989 ug/L	0.02814	0.0989 ppb	0.02814	28.47%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	40.2	72.023 ug/L	9.9411	72.023 ppb	9.9411	13.80%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	11.8	0.1608 ug/L	0.17917	0.1608 ppb	0.17917	111.42%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	9.2	0.2740 ug/L	0.26745	0.2740 ppb	0.26745	97.61%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	12.0	0.1606 ug/L	0.11703	0.1606 ppb	0.11703	72.87%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	97.0	0.3581 ug/L	0.04836	0.3581 ppb	0.04836	13.50%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	1.2	11.952 ug/L	16.0423	11.952 ppb	16.0423	134.22%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	38.1	7.1698 ug/L	2.59887	7.1698 ppb	2.59887	36.25%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-3.1	-122.23 ug/L	54.213	-122.23 ppb	54.213	44.35%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	155.5	0.2504 ug/L	0.01769	0.2504 ppb	0.01769	7.06%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	8.9	0.8035 ug/L	0.57710	0.8035 ppb	0.57710	71.82%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	38.1	11.587 ug/L	5.8326	11.587 ppb	5.8326	50.34%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	10.1	0.3126 ug/L	0.41445	0.3126 ppb	0.41445	132.57%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	5.6	2.9453 ug/L	1.84451	2.9453 ppb	1.84451	62.63%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-0.4	-0.0648 ug/L	2.23286	-0.0648 ppb	2.23286	>999.9%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	3.2	4.0069 ug/L	4.84788	4.0069 ppb	4.84788	120.99%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	3.4	1.3509 ug/L	2.10907	1.3509 ppb	2.10907	156.12%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-2.8	-1.6074 ug/L	1.63753	-1.6074 ppb	1.63753	101.88%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	276.9	9.8669 ug/L	0.13271	9.8669 ppb	0.13271	1.35%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	1.3	0.3011 ug/L	1.33439	0.3011 ppb	1.33439	443.16%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	10.1	0.0712 ug/L	0.22465	0.0712 ppb	0.22465	315.36%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	82.1	0.1821 ug/L	0.11927	0.1821 ppb	0.11927	65.50%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	5.6	2.5207 ug/L	1.60584	2.5207 ppb	1.60584	63.71%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	16.1	0.5307 ug/L	0.62159	0.5307 ppb	0.62159	117.12%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	29.3	0.2354 ug/L	0.09891	0.2354 ppb	0.09891	42.02%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	350.7	3.7643 ug/L	0.10601	3.7643 ppb	0.10601	2.82%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		277.5	21.213 ug/L	0.9649	21.213 ppb	0.9649	4.55%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 3/4/2010 15:53:33

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	4875.4	4875.4	103 %		15:55:27
1	Y RADIAL	5161.6	5161.6	102.4 %		15:55:27
1	Al 396.153Radial†	143.7	222.4	203.13 ug/L	203.13 ppb	15:55:47
1	Ca 317.933Radial†	135.8	114.0	203.92 ug/L	203.92 ppb	15:55:47
1	Fe 238.204 Radial†	17.9	10.2	105.97 ug/L	105.97 ppb	15:55:47
1	K 766.490 Radial†	3150.1	761.0	143.51 ug/L	143.51 ppb	15:55:27
1	Mg 279.077 IEC†	10.8	8.4	332.04 ug/L	332.04 ppb	15:55:47
1	Na 589.592 Radial†	224.9	956.1	290.92 ug/L	290.92 ppb	15:55:27
1	Sr 421.552†	763.3	724.4	5.1602 ug/L	5.1602 ppb	15:55:27
1	Sc 361.383	799952.9	799952.9	101.16 %		15:56:44
1	Y 371.029	716565.4	716565.4	101.35 %		15:56:44
1	Ag 328.068†	1229.2	1038.7	5.2272 ug/L	5.2272 ppb	15:56:44
1	As 188.979†	27.8	56.1	24.451 ug/L	24.451 ppb	15:57:04
1	B 249.677†	1809.4	2013.0	50.028 ug/L	50.028 ppb	15:56:44
1	Ba 233.527†	439.4	438.4	5.0984 ug/L	5.0984 ppb	15:57:04
1	Be 313.107†	3295.2	12590.0	4.9374 ug/L	4.9374 ppb	15:56:44
1	Cd 226.502†	179.8	360.4	4.9555 ug/L	4.9555 ppb	15:57:04
1	Co 228.616†	105.9	169.0	5.0405 ug/L	5.0405 ppb	15:57:04
1	Cr 267.716†	445.0	378.7	5.0397 ug/L	5.0397 ppb	15:57:04
1	Cu 324.752†	10521.9	2677.9	9.8559 ug/L	9.8559 ppb	15:56:44
1	Mn 257.610†	7101.5	6589.9	10.350 ug/L	10.350 ppb	15:56:44
1	Mo 202.031†	126.4	113.0	10.227 ug/L	10.227 ppb	15:57:04
1	Ni 231.604†	240.3	157.0	4.8446 ug/L	4.8446 ppb	15:57:04
1	P 214.914†	493.2	288.7	154.72 ug/L	154.72 ppb	15:57:04
1	Pb 220.353†	-6.1	51.5	8.2376 ug/L	8.2376 ppb	15:57:04
1	S 181.975 Axial†	128.8	86.3	107.18 ug/L	107.18 ppb	15:57:04
1	Sb 206.836†	56.7	23.2	9.4342 ug/L	9.4342 ppb	15:57:04
1	Se 196.026†	31.7	50.3	30.169 ug/L	30.169 ppb	15:57:04
1	Si 251.611†	3277.6	2689.0	95.775 ug/L	95.775 ppb	15:57:04
1	Sn 189.927†	51.3	37.6	8.6245 ug/L	8.6245 ppb	15:57:04
1	Ti 334.940†	1285.1	2605.2	5.1383 ug/L	5.1383 ppb	15:56:44
1	Tl 190.801†	7.5	43.1	19.593 ug/L	19.593 ppb	15:57:04
1	U 409.014†	-913.7	1465.3	48.564 ug/L	48.564 ppb	15:56:44
1	V 292.402†	-1039.4	631.8	5.1270 ug/L	5.1270 ppb	15:56:44
1	Zn 213.857†	1667.1	850.8	9.0820 ug/L	9.0820 ppb	15:57:04
1	SiO2†	3451.8	2852.1	217.97 ug/L	217.97 ppb	15:58:00
2	Sc Radial	4872.2	4872.2	103 %		15:55:52
2	Y RADIAL	5155.3	5155.3	102.3 %		15:55:52
2	Al 396.153Radial†	145.5	224.3	204.90 ug/L	204.90 ppb	15:56:12
2	Ca 317.933Radial†	137.6	115.8	207.27 ug/L	207.27 ppb	15:56:12
2	Fe 238.204 Radial†	17.6	9.9	102.82 ug/L	102.82 ppb	15:56:12
2	K 766.490 Radial†	3224.4	835.3	157.53 ug/L	157.53 ppb	15:55:52
2	Mg 279.077 IEC†	9.0	6.7	263.15 ug/L	263.15 ppb	15:56:12
2	Na 589.592 Radial†	288.9	1018.6	309.96 ug/L	309.96 ppb	15:55:52
2	Sr 421.552†	740.3	702.5	5.0044 ug/L	5.0044 ppb	15:55:52
2	Sc 361.383	792346.5	792346.5	100.19 %		15:57:09
2	Y 371.029	709624.0	709624.0	100.37 %		15:57:09
2	Ag 328.068†	1210.8	1032.0	5.1823 ug/L	5.1823 ppb	15:57:09
2	As 188.979†	27.5	56.0	24.406 ug/L	24.406 ppb	15:57:29
2	B 249.677†	1733.2	1954.1	48.564 ug/L	48.564 ppb	15:57:09
2	Ba 233.527†	448.3	451.5	5.2474 ug/L	5.2474 ppb	15:57:29
2	Be 313.107†	3278.4	12604.6	4.9427 ug/L	4.9427 ppb	15:57:09
2	Cd 226.502†	173.7	356.0	4.8969 ug/L	4.8969 ppb	15:57:29
2	Co 228.616†	109.5	173.6	5.1778 ug/L	5.1778 ppb	15:57:29
2	Cr 267.716†	438.6	376.6	5.0065 ug/L	5.0065 ppb	15:57:29
2	Cu 324.752†	10313.3	2569.6	9.4517 ug/L	9.4517 ppb	15:57:09
2	Mn 257.610†	7035.6	6591.6	10.355 ug/L	10.355 ppb	15:57:09
2	Mo 202.031†	125.2	113.0	10.224 ug/L	10.224 ppb	15:57:29
2	Ni 231.604†	236.0	155.0	4.7836 ug/L	4.7836 ppb	15:57:29

2	P 214.914†	493.0	293.3	157.27 ug/L	157.27 ppb	15:57:29
2	Pb 220.353†	-7.1	50.5	8.0739 ug/L	8.0739 ppb	15:57:29
2	S 181.975 Axial†	121.5	80.2	99.598 ug/L	99.598 ppb	15:57:29
2	Sb 206.836†	46.0	13.0	5.4718 ug/L	5.4718 ppb	15:57:29
2	Se 196.026†	39.2	58.1	34.749 ug/L	34.749 ppb	15:57:29
2	Si 251.611†	3284.0	2726.5	97.110 ug/L	97.110 ppb	15:57:29
2	Sn 189.927†	58.9	45.7	10.478 ug/L	10.478 ppb	15:57:29
2	Ti 334.940†	1185.6	2518.0	4.9681 ug/L	4.9681 ppb	15:57:09
2	Tl 190.801†	8.6	44.3	20.125 ug/L	20.125 ppb	15:57:29
2	U 409.014†	-656.7	1713.1	56.781 ug/L	56.781 ppb	15:57:09
2	V 292.402†	-1140.4	521.1	4.2828 ug/L	4.2828 ppb	15:57:09
2	Zn 213.857†	1678.6	878.1	9.3762 ug/L	9.3762 ppb	15:57:29
2	SiO2†	3438.5	2871.5	219.46 ug/L	219.46 ppb	15:58:05
3	Sc Radial	4810.5	4810.5	101 %		15:56:17
3	Y RADIAL	5095.1	5095.1	101.1 %		15:56:17
3	Al 396.153Radial†	137.1	217.8	198.91 ug/L	198.91 ppb	15:56:37
3	Ca 317.933Radial†	127.9	108.0	193.27 ug/L	193.27 ppb	15:56:37
3	Fe 238.204 Radial†	17.5	10.0	104.36 ug/L	104.36 ppb	15:56:37
3	K 766.490 Radial†	3279.7	930.3	175.48 ug/L	175.48 ppb	15:56:17
3	Mg 279.077 IEC†	8.4	6.2	244.26 ug/L	244.26 ppb	15:56:37
3	Na 589.592 Radial†	189.4	924.1	281.18 ug/L	281.18 ppb	15:56:17
3	Sr 421.552†	742.7	714.1	5.0872 ug/L	5.0872 ppb	15:56:17
3	Sc 361.383	805675.7	805675.7	101.88 %		15:57:34
3	Y 371.029	721679.7	721679.7	102.08 %		15:57:34
3	Ag 328.068†	1180.0	981.7	4.9381 ug/L	4.9381 ppb	15:57:34
3	As 188.979†	39.2	67.1	29.197 ug/L	29.197 ppb	15:57:54
3	B 249.677†	1760.4	1952.2	48.516 ug/L	48.516 ppb	15:57:34
3	Ba 233.527†	444.9	440.7	5.1241 ug/L	5.1241 ppb	15:57:54
3	Be 313.107†	3144.5	12419.0	4.8704 ug/L	4.8704 ppb	15:57:34
3	Cd 226.502†	194.7	373.7	5.1402 ug/L	5.1402 ppb	15:57:54
3	Co 228.616†	106.1	168.5	5.0232 ug/L	5.0232 ppb	15:57:54
3	Cr 267.716†	444.3	374.9	4.9875 ug/L	4.9875 ppb	15:57:54
3	Cu 324.752†	10579.0	2660.0	9.7888 ug/L	9.7888 ppb	15:57:34
3	Mn 257.610†	7175.7	6612.8	10.389 ug/L	10.389 ppb	15:57:34
3	Mo 202.031†	123.2	108.9	9.8571 ug/L	9.8571 ppb	15:57:54
3	Ni 231.604†	249.0	164.0	5.0591 ug/L	5.0591 ppb	15:57:54
3	P 214.914†	494.5	286.6	153.58 ug/L	153.58 ppb	15:57:54
3	Pb 220.353†	5.8	63.2	10.090 ug/L	10.090 ppb	15:57:54
3	S 181.975 Axial†	121.4	78.1	97.006 ug/L	97.006 ppb	15:57:54
3	Sb 206.836†	57.8	23.9	9.7412 ug/L	9.7412 ppb	15:57:54
3	Se 196.026†	35.8	54.1	32.382 ug/L	32.382 ppb	15:57:54
3	Si 251.611†	3304.0	2691.9	95.882 ug/L	95.882 ppb	15:57:54
3	Sn 189.927†	62.9	48.6	11.146 ug/L	11.146 ppb	15:57:54
3	Ti 334.940†	1283.8	2594.9	5.1227 ug/L	5.1227 ppb	15:57:34
3	Tl 190.801†	1.9	37.6	17.098 ug/L	17.098 ppb	15:57:54
3	U 409.014†	-855.0	1529.4	50.689 ug/L	50.689 ppb	15:57:34
3	V 292.402†	-1083.3	596.0	4.8469 ug/L	4.8469 ppb	15:57:34
3	Zn 213.857†	1675.2	847.1	9.0405 ug/L	9.0405 ppb	15:57:54
3	SiO2†	3428.7	2805.1	214.38 ug/L	214.38 ppb	15:58:10

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	799325.1	101.08 %	0.846			0.84%
Sc Radial	4852.7	102 %	0.8			0.75%
Y 371.029	715956.4	101.27 %	0.856			0.85%
Y RADIAL	5137.4	101.9 %	0.73			0.72%
Ag 328.068†	1017.5	5.1159 ug/L	0.15563	5.1159 ppb	0.15563	3.04%
QC value within limits for Ag 328.068 Recovery = 102.32%						
Al 396.153Radial†	221.5	202.31 ug/L	3.077	202.31 ppb	3.077	1.52%
QC value within limits for Al 396.153Radial Recovery = 101.16%						
As 188.979†	59.8	26.018 ug/L	2.7533	26.018 ppb	2.7533	10.58%
QC value within limits for As 188.979 Recovery = 86.73%						
B 249.677†	1973.1	49.036 ug/L	0.8592	49.036 ppb	0.8592	1.75%
QC value within limits for B 249.677 Recovery = 98.07%						
Ba 233.527†	443.5	5.1566 ug/L	0.07966	5.1566 ppb	0.07966	1.54%
QC value within limits for Ba 233.527 Recovery = 103.13%						
Be 313.107†	12537.9	4.9168 ug/L	0.04027	4.9168 ppb	0.04027	0.82%
QC value within limits for Be 313.107 Recovery = 98.34%						
Ca 317.933Radial†	112.6	201.48 ug/L	7.311	201.48 ppb	7.311	3.63%

QC value within limits for Ca 317.933 Radial Recovery = 100.74%							
Cd 226.502†	363.4	4.9976 ug/L	0.12698	4.9976 ppb	0.12698	2.54%	
QC value within limits for Cd 226.502 Recovery = 99.95%							
Co 228.616†	170.4	5.0805 ug/L	0.08467	5.0805 ppb	0.08467	1.67%	
QC value within limits for Co 228.616 Recovery = 101.61%							
Cr 267.716†	376.7	5.0113 ug/L	0.02643	5.0113 ppb	0.02643	0.53%	
QC value within limits for Cr 267.716 Recovery = 100.23%							
Cu 324.752†	2635.8	9.6988 ug/L	0.21663	9.6988 ppb	0.21663	2.23%	
QC value within limits for Cu 324.752 Recovery = 96.99%							
Fe 238.204 Radial†	10.0	104.38 ug/L	1.576	104.38 ppb	1.576	1.51%	
QC value within limits for Fe 238.204 Radial Recovery = 104.38%							
K 766.490 Radial†	842.2	158.84 ug/L	16.024	158.84 ppb	16.024	10.09%	
QC value within limits for K 766.490 Radial Recovery = 105.89%							
Mg 279.077 IEC†	7.1	279.82 ug/L	46.205	279.82 ppb	46.205	16.51%	
QC value within limits for Mg 279.077 IEC Recovery = 93.27%							
Mn 257.610†	6598.1	10.365 ug/L	0.0214	10.365 ppb	0.0214	0.21%	
QC value within limits for Mn 257.610 Recovery = 103.65%							
Mo 202.031†	111.6	10.103 ug/L	0.2127	10.103 ppb	0.2127	2.11%	
QC value within limits for Mo 202.031 Recovery = 101.03%							
Na 589.592 Radial†	966.2	294.02 ug/L	14.639	294.02 ppb	14.639	4.98%	
QC value within limits for Na 589.592 Radial Recovery = 98.01%							
Ni 231.604†	158.7	4.8957 ug/L	0.14472	4.8957 ppb	0.14472	2.96%	
QC value within limits for Ni 231.604 Recovery = 97.91%							
P 214.914†	289.5	155.19 ug/L	1.890	155.19 ppb	1.890	1.22%	
QC value within limits for P 214.914 Recovery = 103.46%							
Pb 220.353†	55.0	8.8005 ug/L	1.11979	8.8005 ppb	1.11979	12.72%	
QC value within limits for Pb 220.353 Recovery = 88.01%							
S 181.975 Axial†	81.5	101.26 ug/L	5.289	101.26 ppb	5.289	5.22%	
QC value within limits for S 181.975 Axial Recovery = 101.26%							
Sb 206.836†	20.0	8.2157 ug/L	2.38125	8.2157 ppb	2.38125	28.98%	
QC value within limits for Sb 206.836 Recovery = 82.16%							
Se 196.026†	54.2	32.434 ug/L	2.2904	32.434 ppb	2.2904	7.06%	
QC value within limits for Se 196.026 Recovery = 108.11%							
Si 251.611†	2702.5	96.256 ug/L	0.7421	96.256 ppb	0.7421	0.77%	
QC value within limits for Si 251.611 Recovery = 96.26%							
Sn 189.927†	44.0	10.083 ug/L	1.3065	10.083 ppb	1.3065	12.96%	
QC value within limits for Sn 189.927 Recovery = 100.83%							
Sr 421.552†	713.7	5.0840 ug/L	0.07796	5.0840 ppb	0.07796	1.53%	
QC value within limits for Sr 421.552 Recovery = 101.68%							
Ti 334.940†	2572.7	5.0763 ug/L	0.09410	5.0763 ppb	0.09410	1.85%	
QC value within limits for Ti 334.940 Recovery = 101.53%							
Tl 190.801†	41.6	18.939 ug/L	1.6160	18.939 ppb	1.6160	8.53%	
QC value within limits for Tl 190.801 Recovery = 94.69%							
U 409.014†	1569.3	52.011 ug/L	4.2654	52.011 ppb	4.2654	8.20%	
QC value within limits for U 409.014 Recovery = 104.02%							
V 292.402†	583.0	4.7523 ug/L	0.43000	4.7523 ppb	0.43000	9.05%	
QC value within limits for V 292.402 Recovery = 95.05%							
Zn 213.857†	858.6	9.1662 ug/L	0.18298	9.1662 ppb	0.18298	2.00%	
QC value within limits for Zn 213.857 Recovery = 91.66%							
SiO2†	2842.9	217.27 ug/L	2.610	217.27 ppb	2.610	1.20%	
QC value within limits for SiO2 Recovery = 102.01%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: IC5A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 3/4/2010 16:00:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: IC5A

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4321.9	4321.9	91.0 %		16:02:36
1	Y RADIAL	4550.2	4550.2	90.28 %		16:02:36
1	Al 396.153Radial†	515517.3	566417.6	518650 ug/L	518650 ppb	16:02:16
1	Ca 317.933Radial†	243783.9	267796.9	479230 ug/L	479230 ppb	16:02:16
1	Fe 238.204 Radial†	16364.6	17970.5	186510 ug/L	186510 ppb	16:02:36
1	K 766.490 Radial†	1997.7	-112.1	-181.46 ug/L	-181.46 ppb	16:02:16
1	Mg 279.077 IEC†	11438.2	12563.6	494880 ug/L	494880 ppb	16:02:36
1	Na 589.592 Radial†	-609.0	68.1	20.708 ug/L	20.708 ppb	16:02:36
1	Sr 421.552†	524.2	556.9	0.3901 ug/L	0.3901 ppb	16:02:36
1	Sc 361.383	710286.7	710286.7	89.817 %		16:03:33
1	Y 371.029	619636.3	619636.3	87.644 %		16:03:33
1	Ag 328.068†	-10586.0	-11962.6	-9.2573 ug/L	-9.2573 ppb	16:03:33
1	As 188.979†	-73.4	-53.1	20.431 ug/L	20.431 ppb	16:03:53
1	B 249.677†	536.7	821.8	-9.8555 ug/L	-9.8555 ppb	16:03:33
1	Ba 233.527†	-526.9	-582.6	-1.0457 ug/L	-1.0457 ppb	16:03:53
1	Be 313.107†	-9650.0	-1411.5	-0.6067 ug/L	-0.6067 ppb	16:03:33
1	Cd 226.502†	1136.3	1447.7	0.6493 ug/L	0.6493 ppb	16:03:53
1	Co 228.616†	-23.4	38.3	-1.5501 ug/L	-1.5501 ppb	16:03:53
1	Cr 267.716†	-94.5	-166.4	1.3574 ug/L	1.3574 ppb	16:03:53
1	Cu 324.752†	5808.7	-1256.5	5.2056 ug/L	5.2056 ppb	16:03:33
1	Mn 257.610†	-435.0	-914.8	-3.2586 ug/L	-3.2586 ppb	16:03:33
1	Mo 202.031†	-181.3	-213.9	0.8430 ug/L	0.8430 ppb	16:03:53
1	Ni 231.604†	145.3	81.3	2.5086 ug/L	2.5086 ppb	16:03:53
1	P 214.914†	161.8	-18.7	-30.847 ug/L	-30.847 ppb	16:03:53
1	Pb 220.353†	-696.0	-717.4	4.0678 ug/L	4.0678 ppb	16:03:53
1	S 181.975 Axial†	65.5	31.9	-57.545 ug/L	-57.545 ppb	16:03:53
1	Sb 206.836†	81.7	58.0	5.2022 ug/L	5.2022 ppb	16:03:53
1	Se 196.026†	-732.2	-796.2	-5.7993 ug/L	-5.7993 ppb	16:03:53
1	Si 251.611†	546.5	57.3	2.2806 ug/L	2.2806 ppb	16:03:53
1	Sn 189.927†	-296.7	-343.4	-4.0477 ug/L	-4.0477 ppb	16:03:53
1	Ti 334.940†	-12072.7	-12106.6	-0.1684 ug/L	-0.1684 ppb	16:03:33
1	Tl 190.801†	-59.5	-30.5	-14.078 ug/L	-14.078 ppb	16:03:53
1	U 409.014†	-574.2	1729.4	36.085 ug/L	36.085 ppb	16:03:33
1	V 292.402†	366.7	2067.6	-1.6835 ug/L	-1.6835 ppb	16:03:53
1	Zn 213.857†	3005.0	2548.4	-0.5380 ug/L	-0.5380 ppb	16:03:53
1	SiO2†	470.4	-36.6	-2.2740 ug/L	-2.2740 ppb	16:04:49
2	Sc Radial	4297.2	4297.2	90.5 %		16:03:01
2	Y RADIAL	4528.6	4528.6	89.85 %		16:03:01
2	Al 396.153Radial†	510540.0	564167.1	516590 ug/L	516590 ppb	16:02:41
2	Ca 317.933Radial†	241952.0	267309.3	478360 ug/L	478360 ppb	16:02:41
2	Fe 238.204 Radial†	16386.8	18098.2	187840 ug/L	187840 ppb	16:03:01
2	K 766.490 Radial†	2075.3	-13.7	-162.59 ug/L	-162.59 ppb	16:02:41
2	Mg 279.077 IEC†	11455.1	12654.3	498460 ug/L	498460 ppb	16:03:01
2	Na 589.592 Radial†	-598.2	76.1	23.168 ug/L	23.168 ppb	16:03:01
2	Sr 421.552†	519.3	554.9	0.3820 ug/L	0.3820 ppb	16:03:01
2	Sc 361.383	703092.5	703092.5	88.908 %		16:03:58
2	Y 371.029	613545.9	613545.9	86.783 %		16:03:58
2	Ag 328.068†	-10410.6	-11885.9	-8.4450 ug/L	-8.4450 ppb	16:03:58
2	As 188.979†	-80.6	-62.1	16.860 ug/L	16.860 ppb	16:04:19
2	B 249.677†	427.4	705.0	-12.976 ug/L	-12.976 ppb	16:03:58
2	Ba 233.527†	-530.1	-592.2	-1.1161 ug/L	-1.1161 ppb	16:04:19
2	Be 313.107†	-9757.7	-1642.6	-0.6976 ug/L	-0.6976 ppb	16:03:58
2	Cd 226.502†	1123.2	1445.9	0.4869 ug/L	0.4869 ppb	16:04:19
2	Co 228.616†	-4.5	59.3	-0.9482 ug/L	-0.9482 ppb	16:04:19
2	Cr 267.716†	-95.4	-168.5	1.3579 ug/L	1.3579 ppb	16:04:19
2	Cu 324.752†	5818.6	-1179.1	5.5653 ug/L	5.5653 ppb	16:03:58
2	Mn 257.610†	-298.3	-765.9	-3.0400 ug/L	-3.0400 ppb	16:03:58
2	Mo 202.031†	-186.2	-221.4	0.2577 ug/L	0.2577 ppb	16:04:19
2	Ni 231.604†	154.3	93.0	2.8709 ug/L	2.8709 ppb	16:04:19

2	P 214.914†	179.2	2.7	-20.892 ug/L	-20.892 ppb	16:04:19
2	Pb 220.353†	-654.0	-678.1	9.6836 ug/L	9.6836 ppb	16:04:19
2	S 181.975 Axial†	70.4	38.1	-49.441 ug/L	-49.441 ppb	16:04:19
2	Sb 206.836†	70.6	46.5	0.7493 ug/L	0.7493 ppb	16:04:19
2	Se 196.026†	-717.6	-788.2	1.7394 ug/L	1.7394 ppb	16:04:19
2	Si 251.611†	523.3	37.4	1.5814 ug/L	1.5814 ppb	16:04:19
2	Sn 189.927†	-287.9	-336.8	-2.7817 ug/L	-2.7817 ppb	16:04:19
2	Ti 334.940†	-12043.6	-12211.5	-0.7819 ug/L	-0.7819 ppb	16:03:58
2	Tl 190.801†	-65.3	-37.7	-17.349 ug/L	-17.349 ppb	16:04:19
2	U 409.014†	-766.2	1506.9	28.556 ug/L	28.556 ppb	16:03:58
2	V 292.402†	428.1	2140.8	-1.2627 ug/L	-1.2627 ppb	16:04:19
2	Zn 213.857†	3019.6	2599.1	-0.1945 ug/L	-0.1945 ppb	16:04:19
2	SiO2†	494.8	-3.8	0.2518 ug/L	0.2518 ppb	16:04:54
3	Sc Radial	4350.5	4350.5	91.6 %		16:03:26
3	Y RADIAL	4587.3	4587.3	91.01 %		16:03:26
3	Al 396.153Radial†	516236.9	563473.4	515950 ug/L	515950 ppb	16:03:06
3	Ca 317.933Radial†	244137.4	266419.1	476770 ug/L	476770 ppb	16:03:06
3	Fe 238.204 Radial†	16403.4	17894.4	185720 ug/L	185720 ppb	16:03:26
3	K 766.490 Radial†	1866.0	-270.3	-210.51 ug/L	-210.51 ppb	16:03:06
3	Mg 279.077 IEC†	11481.3	12527.9	493470 ug/L	493470 ppb	16:03:26
3	Na 589.592 Radial†	-614.3	66.7	20.298 ug/L	20.298 ppb	16:03:26
3	Sr 421.552†	529.2	558.6	0.4202 ug/L	0.4202 ppb	16:03:26
3	Sc 361.383	705421.9	705421.9	89.202 %		16:04:24
3	Y 371.029	614833.0	614833.0	86.965 %		16:04:24
3	Ag 328.068†	-10453.4	-11895.2	-9.1253 ug/L	-9.1253 ppb	16:04:24
3	As 188.979†	-85.8	-67.6	13.955 ug/L	13.955 ppb	16:04:44
3	B 249.677†	414.0	688.4	-13.044 ug/L	-13.044 ppb	16:04:24
3	Ba 233.527†	-510.9	-568.8	-0.9091 ug/L	-0.9091 ppb	16:04:44
3	Be 313.107†	-9717.3	-1561.0	-0.6657 ug/L	-0.6657 ppb	16:04:24
3	Cd 226.502†	1116.4	1434.1	0.5445 ug/L	0.5445 ppb	16:04:44
3	Co 228.616†	-22.4	39.2	-1.5124 ug/L	-1.5124 ppb	16:04:44
3	Cr 267.716†	-124.2	-200.5	0.8891 ug/L	0.8891 ppb	16:04:44
3	Cu 324.752†	5721.0	-1310.2	4.9669 ug/L	4.9669 ppb	16:04:24
3	Mn 257.610†	-238.5	-697.9	-2.9382 ug/L	-2.9382 ppb	16:04:24
3	Mo 202.031†	-184.4	-218.7	0.3212 ug/L	0.3212 ppb	16:04:44
3	Ni 231.604†	171.7	112.0	3.4556 ug/L	3.4556 ppb	16:04:44
3	P 214.914†	175.1	-2.5	-22.107 ug/L	-22.107 ppb	16:04:44
3	Pb 220.353†	-714.8	-743.9	-0.7618 ug/L	-0.7618 ppb	16:04:44
3	S 181.975 Axial†	55.9	21.6	-69.837 ug/L	-69.837 ppb	16:04:44
3	Sb 206.836†	43.5	15.9	-11.301 ug/L	-11.301 ppb	16:04:44
3	Se 196.026†	-729.2	-798.4	-9.1339 ug/L	-9.1339 ppb	16:04:44
3	Si 251.611†	521.6	33.6	1.4400 ug/L	1.4400 ppb	16:04:44
3	Sn 189.927†	-304.4	-354.3	-6.9360 ug/L	-6.9360 ppb	16:04:44
3	Ti 334.940†	-12085.1	-12213.3	-0.5944 ug/L	-0.5944 ppb	16:04:24
3	Tl 190.801†	-62.8	-34.7	-15.966 ug/L	-15.966 ppb	16:04:44
3	U 409.014†	-614.4	1679.9	34.535 ug/L	34.535 ppb	16:04:24
3	V 292.402†	406.5	2115.0	-1.2369 ug/L	-1.2369 ppb	16:04:44
3	Zn 213.857†	3010.3	2577.4	-0.1146 ug/L	-0.1146 ppb	16:04:44
3	SiO2†	628.7	144.5	11.596 ug/L	11.596 ppb	16:04:59

Mean Data: ICSCA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	706267.0	89.309 %	0.4642			0.52%
Sc Radial	4323.2	91.1 %	0.56			0.62%
Y 371.029	616005.1	87.131 %	0.4540			0.52%
Y RADIAL	4555.4	90.38 %	0.589			0.65%
Ag 328.068†	-11914.6	-8.9425 ug/L	0.43589	-8.9425 ppb	0.43589	4.87%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	564686.0	517060 ug/L	1409.3	517060 ppb	1409.3	0.27%
QC value within limits for Al 396.153Radial Recovery = 103.41%						
As 188.979†	-60.9	17.082 ug/L	3.2435	17.082 ppb	3.2435	18.99%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	738.4	-11.958 ug/L	1.8215	-11.958 ppb	1.8215	15.23%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-581.2	-1.0236 ug/L	0.10521	-1.0236 ppb	0.10521	10.28%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-1538.4	-0.6566 ug/L	0.04612	-0.6566 ppb	0.04612	7.02%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	267175.1	478120 ug/L	1250.2	478120 ppb	1250.2	0.26%

QC value within limits for Ca 317.933 Radial Recovery = 95.62%

Cd 226.502† 1442.6 0.5602 ug/L 0.08233 0.5602 ppb 0.08233 14.69%

QC value within limits for Cd 226.502 Recovery = Not calculated

Co 228.616† 45.6 -1.3369 ug/L 0.33717 -1.3369 ppb 0.33717 25.22%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† -178.5 1.2015 ug/L 0.27053 1.2015 ppb 0.27053 22.52%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752† -1248.6 5.2460 ug/L 0.30123 5.2460 ppb 0.30123 5.74%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 17987.7 186690 ug/L 1068.7 186690 ppb 1068.7 0.57%

QC value within limits for Fe 238.204 Radial Recovery = 93.34%

K 766.490 Radial† -132.0 -184.85 ug/L 24.135 -184.85 ppb 24.135 13.06%

QC value within limits for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† 12581.9 495600 ug/L 2568.0 495600 ppb 2568.0 0.52%

QC value within limits for Mg 279.077 IEC Recovery = 99.12%

Mn 257.610† -792.9 -3.0789 ug/L 0.16374 -3.0789 ppb 0.16374 5.32%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† -218.0 0.4740 ug/L 0.32117 0.4740 ppb 0.32117 67.76%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† 70.3 21.391 ug/L 1.5519 21.391 ppb 1.5519 7.25%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† 95.4 2.9450 ug/L 0.47781 2.9450 ppb 0.47781 16.22%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† -6.2 -24.615 ug/L 5.4307 -24.615 ppb 5.4307 22.06%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -713.1 4.3299 ug/L 5.22762 4.3299 ppb 5.22762 120.73%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† 30.6 -58.941 ug/L 10.2696 -58.941 ppb 10.2696 17.42%

QC value within limits for S 181.975 Axial Recovery = Not calculated

Sb 206.836† 40.1 -1.7832 ug/L 8.53810 -1.7832 ppb 8.53810 478.80%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† -794.3 -4.3979 ug/L 5.57049 -4.3979 ppb 5.57049 126.66%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 251.611† 42.8 1.7673 ug/L 0.45006 1.7673 ppb 0.45006 25.47%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† -344.9 -4.5885 ug/L 2.12931 -4.5885 ppb 2.12931 46.41%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 421.552† 556.8 0.3974 ug/L 0.02015 0.3974 ppb 0.02015 5.07%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† -12177.1 -0.5149 ug/L 0.31438 -0.5149 ppb 0.31438 61.05%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† -34.3 -15.798 ug/L 1.6417 -15.798 ppb 1.6417 10.39%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† 1638.7 33.059 ug/L 3.9754 33.059 ppb 3.9754 12.03%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† 2107.8 -1.3944 ug/L 0.25077 -1.3944 ppb 0.25077 17.98%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† 2574.9 -0.2823 ug/L 0.22496 -0.2823 ppb 0.22496 79.68%

QC value within limits for Zn 213.857 Recovery = Not calculated

SiO2† 34.7 3.1911 ug/L 7.38722 3.1911 ppb 7.38722 231.50%

QC value within limits for SiO2 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: ICSAB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 14

Date Collected: 3/4/2010 16:07:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4276.4	4276.4	90.1 %		16:09:09
1	Y RADIAL	4529.2	4529.2	89.86 %		16:09:09
1	Al 396.153Radial†	509556.7	565823.2	518080 ug/L	518080 ppb	16:09:04
1	Ca 317.933Radial†	240471.6	266968.0	477750 ug/L	477750 ppb	16:09:04
1	Fe 238.204 Radial†	16433.0	18237.7	189300 ug/L	189300 ppb	16:09:09
1	K 766.490 Radial†	28928.5	29811.5	5466.6 ug/L	5466.6 ppb	16:09:04
1	Mg 279.077 IEC†	11427.4	12685.3	499680 ug/L	499680 ppb	16:09:09
1	Na 589.592 Radial†	15536.1	17986.1	5473.0 ug/L	5473.0 ppb	16:09:09
1	Sr 421.552†	65403.2	72595.7	513.74 ug/L	513.74 ppb	16:09:04
1	Sc 361.383	707306.8	707306.8	89.441 %		16:09:37
1	Y 371.029	617026.4	617026.4	87.275 %		16:09:37
1	Ag 328.068†	38502.2	42871.3	268.68 ug/L	268.68 ppb	16:09:37
1	As 188.979†	990.5	1136.1	541.36 ug/L	541.36 ppb	16:09:57
1	B 249.677†	19352.1	21861.1	511.51 ug/L	511.51 ppb	16:09:37
1	Ba 233.527†	38972.7	43577.9	512.26 ug/L	512.26 ppb	16:09:37
1	Be 313.107†	547187.0	621120.9	244.14 ug/L	244.14 ppb	16:09:37
1	Cd 226.502†	31771.7	35705.3	471.70 ug/L	471.70 ppb	16:09:57
1	Co 228.616†	14665.0	16460.8	487.10 ug/L	487.10 ppb	16:09:57
1	Cr 267.716†	32712.8	36513.7	491.03 ug/L	491.03 ppb	16:09:37
1	Cu 324.752†	147858.2	157590.8	590.97 ug/L	590.97 ppb	16:09:37
1	Mn 257.610†	291328.0	325292.0	509.31 ug/L	509.31 ppb	16:09:37
1	Mo 202.031†	4754.7	5304.0	499.91 ug/L	499.91 ppb	16:09:57
1	Ni 231.604†	13667.6	15200.7	469.00 ug/L	469.00 ppb	16:09:57
1	P 214.914†	4501.7	4834.4	2487.9 ug/L	2487.9 ppb	16:09:57
1	Pb 220.353†	2135.4	2445.0	506.59 ug/L	506.59 ppb	16:09:57
1	S 181.975 Axial†	1978.3	2170.8	2599.5 ug/L	2599.5 ppb	16:09:57
1	Sb 206.836†	1349.5	1476.0	579.36 ug/L	579.36 ppb	16:09:57
1	Se 196.026†	3262.5	3666.7	2651.6 ug/L	2651.6 ppb	16:09:57
1	Si 251.611†	136898.9	152510.2	5433.1 ug/L	5433.1 ppb	16:09:37
1	Sn 189.927†	1719.7	1909.7	510.43 ug/L	510.43 ppb	16:09:57
1	Ti 334.940†	224447.2	252280.4	522.62 ug/L	522.62 ppb	16:09:37
1	Tl 190.801†	960.1	1109.1	506.28 ug/L	506.28 ppb	16:09:57
1	U 409.014†	13124.1	17042.1	542.42 ug/L	542.42 ppb	16:09:37
1	V 292.402†	58688.5	67276.7	511.67 ug/L	511.67 ppb	16:09:37
1	Zn 213.857†	45144.0	49676.5	501.68 ug/L	501.68 ppb	16:09:37
1	SiO2†	138030.6	153766.3	11754 ug/L	11754 ppb	16:10:55
2	Sc Radial	4242.0	4242.0	89.3 %		16:09:19
2	Y RADIAL	4450.9	4450.9	88.31 %		16:09:19
2	Al 396.153Radial†	514983.4	576481.0	527840 ug/L	527840 ppb	16:09:14
2	Ca 317.933Radial†	242479.1	271378.1	485640 ug/L	485640 ppb	16:09:14
2	Fe 238.204 Radial†	16338.0	18279.1	189730 ug/L	189730 ppb	16:09:19
2	K 766.490 Radial†	29054.0	30212.2	5539.7 ug/L	5539.7 ppb	16:09:14
2	Mg 279.077 IEC†	11342.4	12693.0	499980 ug/L	499980 ppb	16:09:19
2	Na 589.592 Radial†	15305.6	17868.0	5437.0 ug/L	5437.0 ppb	16:09:19
2	Sr 421.552†	65889.8	73728.7	521.75 ug/L	521.75 ppb	16:09:14
2	Sc 361.383	722916.7	722916.7	91.414 %		16:10:03
2	Y 371.029	630379.8	630379.8	89.164 %		16:10:03
2	Ag 328.068†	39590.8	43132.7	270.00 ug/L	270.00 ppb	16:10:03
2	As 188.979†	984.8	1106.0	528.39 ug/L	528.39 ppb	16:10:23
2	B 249.677†	19889.1	21981.3	514.46 ug/L	514.46 ppb	16:10:03
2	Ba 233.527†	39646.5	43374.1	509.91 ug/L	509.91 ppb	16:10:03
2	Be 313.107†	556612.2	618221.0	243.01 ug/L	243.01 ppb	16:10:03
2	Cd 226.502†	31773.8	34940.5	461.13 ug/L	461.13 ppb	16:10:23
2	Co 228.616†	14654.2	16094.8	476.19 ug/L	476.19 ppb	16:10:23
2	Cr 267.716†	33234.8	36295.0	488.12 ug/L	488.12 ppb	16:10:03
2	Cu 324.752†	152991.4	159636.4	598.53 ug/L	598.53 ppb	16:10:03
2	Mn 257.610†	297147.4	324624.6	508.29 ug/L	508.29 ppb	16:10:03
2	Mo 202.031†	4761.7	5197.0	490.36 ug/L	490.36 ppb	16:10:23
2	Ni 231.604†	13656.6	14858.7	458.44 ug/L	458.44 ppb	16:10:23

2	P 214.914†	4502.4	4726.5	2429.8 ug/L	2429.8 ppb	16:10:23
2	Pb 220.353†	2114.6	2370.7	497.22 ug/L	497.22 ppb	16:10:23
2	S 181.975 Axial†	1955.6	2098.2	2507.5 ug/L	2507.5 ppb	16:10:23
2	Sb 206.836†	1362.1	1457.1	571.30 ug/L	571.30 ppb	16:10:23
2	Se 196.026†	3238.2	3561.3	2590.9 ug/L	2590.9 ppb	16:10:23
2	Si 251.611†	140060.7	152663.9	5438.7 ug/L	5438.7 ppb	16:10:03
2	Sn 189.927†	1708.4	1855.8	499.50 ug/L	499.50 ppb	16:10:23
2	Ti 334.940†	229477.9	252364.9	523.82 ug/L	523.82 ppb	16:10:03
2	Tl 190.801†	947.2	1071.9	489.43 ug/L	489.43 ppb	16:10:23
2	U 409.014†	13586.2	17230.8	548.63 ug/L	548.63 ppb	16:10:03
2	V 292.402†	59677.6	66941.7	508.89 ug/L	508.89 ppb	16:10:03
2	Zn 213.857†	45938.1	49455.2	499.29 ug/L	499.29 ppb	16:10:03
2	SiO2†	140357.9	152979.8	11694 ug/L	11694 ppb	16:11:00
3	Sc Radial	4221.2	4221.2	88.9 %		16:09:30
3	Y RADIAL	4475.5	4475.5	88.80 %		16:09:30
3	Al 396.153Radial†	517621.1	582294.8	533160 ug/L	533160 ppb	16:09:25
3	Ca 317.933Radial†	243989.8	274417.7	491080 ug/L	491080 ppb	16:09:25
3	Fe 238.204 Radial†	16309.4	18337.3	190330 ug/L	190330 ppb	16:09:30
3	K 766.490 Radial†	29274.7	30621.0	5615.0 ug/L	5615.0 ppb	16:09:25
3	Mg 279.077 IEC†	11299.9	12707.9	500570 ug/L	500570 ppb	16:09:30
3	Na 589.592 Radial†	15374.3	18029.9	5486.3 ug/L	5486.3 ppb	16:09:30
3	Sr 421.552†	66377.6	74641.5	528.22 ug/L	528.22 ppb	16:09:25
3	Sc 361.383	727449.8	727449.8	91.988 %		16:10:29
3	Y 371.029	634060.9	634060.9	89.685 %		16:10:29
3	Ag 328.068†	39592.1	42864.2	268.76 ug/L	268.76 ppb	16:10:29
3	As 188.979†	984.9	1099.3	525.62 ug/L	525.62 ppb	16:10:49
3	B 249.677†	19996.4	21962.3	513.89 ug/L	513.89 ppb	16:10:29
3	Ba 233.527†	39861.1	43337.1	509.50 ug/L	509.50 ppb	16:10:29
3	Be 313.107†	559289.9	617337.6	242.66 ug/L	242.66 ppb	16:10:29
3	Cd 226.502†	31947.0	34912.3	460.68 ug/L	460.68 ppb	16:10:49
3	Co 228.616†	14751.9	16101.2	476.37 ug/L	476.37 ppb	16:10:49
3	Cr 267.716†	33331.0	36173.0	486.50 ug/L	486.50 ppb	16:10:29
3	Cu 324.752†	153979.0	159667.2	598.67 ug/L	598.67 ppb	16:10:29
3	Mn 257.610†	298827.7	324425.7	508.02 ug/L	508.02 ppb	16:10:29
3	Mo 202.031†	4791.1	5196.5	490.43 ug/L	490.43 ppb	16:10:49
3	Ni 231.604†	13706.3	14819.6	457.24 ug/L	457.24 ppb	16:10:49
3	P 214.914†	4517.0	4711.6	2422.6 ug/L	2422.6 ppb	16:10:49
3	Pb 220.353†	2134.1	2377.5	499.62 ug/L	499.62 ppb	16:10:49
3	S 181.975 Axial†	1981.1	2112.7	2524.4 ug/L	2524.4 ppb	16:10:49
3	Sb 206.836†	1347.9	1432.4	561.46 ug/L	561.46 ppb	16:10:49
3	Se 196.026†	3251.4	3553.6	2588.2 ug/L	2588.2 ppb	16:10:49
3	Si 251.611†	141027.6	152760.2	5442.2 ug/L	5442.2 ppb	16:10:29
3	Sn 189.927†	1719.1	1855.8	500.44 ug/L	500.44 ppb	16:10:49
3	Ti 334.940†	230490.9	251901.8	523.58 ug/L	523.58 ppb	16:10:29
3	Tl 190.801†	960.6	1080.0	493.09 ug/L	493.09 ppb	16:10:49
3	U 409.014†	13787.4	17357.0	552.75 ug/L	552.75 ppb	16:10:29
3	V 292.402†	60117.4	67013.0	509.37 ug/L	509.37 ppb	16:10:29
3	Zn 213.857†	46152.5	49375.2	498.35 ug/L	498.35 ppb	16:10:29
3	SiO2†	138849.1	150382.8	11495 ug/L	11495 ppb	16:11:05

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	719224.4	90.948 %	1.3362			1.47%
Sc Radial	4246.5	89.4 %	0.59			0.66%
Y 371.029	627155.7	88.708 %	1.2678			1.43%
Y RADIAL	4485.2	88.99 %	0.794			0.89%
Ag 328.068†	42956.1	269.15 ug/L	0.740	269.15 ppb	0.740	0.28%
QC value within limits for Ag 328.068 Recovery = 107.66%						
Al 396.153Radial†	574866.3	526360 ug/L	7649.4	526360 ppb	7649.4	1.45%
QC value within limits for Al 396.153Radial Recovery = 105.27%						
As 188.979†	1113.8	531.79 ug/L	8.406	531.79 ppb	8.406	1.58%
QC value within limits for As 188.979 Recovery = 106.36%						
B 249.677†	21934.9	513.29 ug/L	1.565	513.29 ppb	1.565	0.30%
QC value within limits for B 249.677 Recovery = 102.66%						
Ba 233.527†	43429.7	510.56 ug/L	1.492	510.56 ppb	1.492	0.29%
QC value within limits for Ba 233.527 Recovery = 102.11%						
Be 313.107†	618893.2	243.27 ug/L	0.775	243.27 ppb	0.775	0.32%
QC value within limits for Be 313.107 Recovery = 97.31%						
Ca 317.933Radial†	270921.2	484820 ug/L	6703.3	484820 ppb	6703.3	1.38%

QC value within limits for Ca 317.933 Radial Recovery = 96.96%							
Cd	226.502†	35186.0	464.51 ug/L	6.233	464.51 ppb	6.233	1.34%
QC value within limits for Cd 226.502 Recovery = 92.90%							
Co	228.616†	16218.9	479.89 ug/L	6.250	479.89 ppb	6.250	1.30%
QC value within limits for Co 228.616 Recovery = 95.98%							
Cr	267.716†	36327.2	488.55 ug/L	2.296	488.55 ppb	2.296	0.47%
QC value within limits for Cr 267.716 Recovery = 97.71%							
Cu	324.752†	158964.8	596.06 ug/L	4.409	596.06 ppb	4.409	0.74%
QC value within limits for Cu 324.752 Recovery = 119.21%							
Fe	238.204 Radial†	18284.7	189790 ug/L	519.4	189790 ppb	519.4	0.27%
QC value within limits for Fe 238.204 Radial Recovery = 94.89%							
K	766.490 Radial†	30214.9	5540.5 ug/L	74.20	5540.5 ppb	74.20	1.34%
QC value within limits for K 766.490 Radial Recovery = 110.81%							
Mg	279.077 IEC†	12695.4	500080 ug/L	451.6	500080 ppb	451.6	0.09%
QC value within limits for Mg 279.077 IEC Recovery = 100.02%							
Mn	257.610†	324780.8	508.54 ug/L	0.682	508.54 ppb	0.682	0.13%
QC value within limits for Mn 257.610 Recovery = 101.71%							
Mo	202.031†	5232.5	493.57 ug/L	5.494	493.57 ppb	5.494	1.11%
QC value within limits for Mo 202.031 Recovery = 98.71%							
Na	589.592 Radial†	17961.3	5465.4 ug/L	25.48	5465.4 ppb	25.48	0.47%
QC value within limits for Na 589.592 Radial Recovery = 109.31%							
Ni	231.604†	14959.7	461.56 ug/L	6.469	461.56 ppb	6.469	1.40%
QC value within limits for Ni 231.604 Recovery = 92.31%							
P	214.914†	4757.5	2446.8 ug/L	35.81	2446.8 ppb	35.81	1.46%
QC value within limits for P 214.914 Recovery = 97.87%							
Pb	220.353†	2397.7	501.14 ug/L	4.867	501.14 ppb	4.867	0.97%
QC value within limits for Pb 220.353 Recovery = 100.23%							
S	181.975 Axial†	2127.2	2543.8 ug/L	48.96	2543.8 ppb	48.96	1.92%
QC value within limits for S 181.975 Axial Recovery = 101.75%							
Sb	206.836†	1455.2	570.71 ug/L	8.964	570.71 ppb	8.964	1.57%
QC value within limits for Sb 206.836 Recovery = 114.14%							
Se	196.026†	3593.8	2610.2 ug/L	35.86	2610.2 ppb	35.86	1.37%
QC value within limits for Se 196.026 Recovery = 104.41%							
Si	251.611†	152644.8	5438.0 ug/L	4.56	5438.0 ppb	4.56	0.08%
QC value within limits for Si 251.611 Recovery = 108.76%							
Sn	189.927†	1873.7	503.46 ug/L	6.061	503.46 ppb	6.061	1.20%
QC value within limits for Sn 189.927 Recovery = 100.69%							
Sr	421.552†	73655.3	521.24 ug/L	7.253	521.24 ppb	7.253	1.39%
QC value within limits for Sr 421.552 Recovery = 104.25%							
Ti	334.940†	252182.4	523.34 ug/L	0.635	523.34 ppb	0.635	0.12%
QC value within limits for Ti 334.940 Recovery = 104.67%							
Tl	190.801†	1087.0	496.27 ug/L	8.862	496.27 ppb	8.862	1.79%
QC value within limits for Tl 190.801 Recovery = 99.25%							
U	409.014†	17209.9	547.93 ug/L	5.201	547.93 ppb	5.201	0.95%
QC value within limits for U 409.014 Recovery = 109.59%							
V	292.402†	67077.2	509.98 ug/L	1.486	509.98 ppb	1.486	0.29%
QC value within limits for V 292.402 Recovery = 102.00%							
Zn	213.857†	49502.3	499.77 ug/L	1.715	499.77 ppb	1.715	0.34%
QC value within limits for Zn 213.857 Recovery = 99.95%							
SiO2†		152376.3	11647 ug/L	135.4	11647 ppb	135.4	1.16%
QC value within limits for SiO2 Recovery = 108.90%							

All analyte(s) passed QC.

Sequence No.: 11
 Sample ID: LR1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 15
 Date Collected: 3/4/2010 16:13:15
 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	4247.1	4247.1	89.5 %		16:15:14
1	Y RADIAL	4518.0	4518.0	89.64 %		16:15:14
1	Al 396.153Radial†	499148.7	558089.4	511020 ug/L	511020 ppb	16:15:09
1	Ca 317.933Radial†	237967.0	266009.1	476030 ug/L	476030 ppb	16:15:09
1	Fe 238.204 Radial†	38166.0	42659.1	442750 ug/L	442750 ppb	16:15:14
1	K 766.490 Radial†	3669.4	1795.4	-26.232 ug/L	-26.232 ppb	16:15:14
1	Mg 279.077 IEC†	11255.6	12580.7	495290 ug/L	495290 ppb	16:15:14
1	Na 589.592 Radial†	1552366.1	1736153.6	528290 ug/L	528290 ppb	16:15:09
1	Sr 421.552†	1617.2	1788.9	9.1929 ug/L	9.1929 ppb	16:15:14
1	Sc 361.383	702222.2	702222.2	88.798 %		16:15:42
1	Y 371.029	614085.6	614085.6	86.859 %		16:15:42
1	Ag 328.068†	-22012.7	-24966.2	-8.2857 ug/L	-8.2857 ppb	16:15:42
1	As 188.979†	-162.4	-154.3	36.582 ug/L	36.582 ppb	16:16:02
1	B 249.677†	1345.0	1738.9	-28.673 ug/L	-28.673 ppb	16:15:42
1	Ba 233.527†	-1273.9	-1430.5	-3.0593 ug/L	-3.0593 ppb	16:16:02
1	Be 313.107†	-15413.4	-8025.4	-3.1842 ug/L	-3.1842 ppb	16:15:42
1	Cd 226.502†	3068.8	3638.6	7.2962 ug/L	7.2962 ppb	16:16:02
1	Co 228.616†	127.0	207.4	-0.2837 ug/L	-0.2837 ppb	16:16:02
1	Cr 267.716†	24.0	-34.2	1.9503 ug/L	1.9503 ppb	16:16:02
1	Cu 324.752†	3099.8	-4232.9	-0.7263 ug/L	-0.7263 ppb	16:15:42
1	Mn 257.610†	-18810.8	-21614.4	-10.499 ug/L	-10.499 ppb	16:15:42
1	Mo 202.031†	-382.2	-442.4	0.0407 ug/L	0.0407 ppb	16:16:02
1	Ni 231.604†	185.4	128.3	3.9561 ug/L	3.9561 ppb	16:16:02
1	P 214.914†	490.3	353.3	-35.210 ug/L	-35.210 ppb	16:16:02
1	Pb 220.353†	-503.4	-509.4	14.602 ug/L	14.602 ppb	16:16:02
1	S 181.975 Axial†	87.8	57.8	-23.949 ug/L	-23.949 ppb	16:16:02
1	Sb 206.836†	60.7	35.5	-6.7709 ug/L	-6.7709 ppb	16:16:02
1	Se 196.026†	-1773.1	-1977.8	-134.43 ug/L	-134.43 ppb	16:16:02
1	Si 251.611†	-260.0	-843.9	-29.605 ug/L	-29.605 ppb	16:16:02
1	Sn 189.927†	-318.6	-371.8	-25.823 ug/L	-25.823 ppb	16:16:02
1	Ti 334.940†	-9954.3	-9875.3	-2.9885 ug/L	-2.9885 ppb	16:15:42
1	Tl 190.801†	-94.4	-70.6	-32.398 ug/L	-32.398 ppb	16:16:02
1	U 409.014†	411414.5	465685.7	15391 ug/L	15391 ppb	16:15:42
1	V 292.402†	1615.5	3478.7	1.1127 ug/L	1.1127 ppb	16:16:02
1	Zn 213.857†	5222.7	5084.3	-11.630 ug/L	-11.630 ppb	16:16:02
1	SiO2†	-254.6	-847.0	-63.727 ug/L	-63.727 ppb	16:16:59
2	Sc Radial	4276.0	4276.0	90.1 %		16:15:24
2	Y RADIAL	4528.2	4528.2	89.84 %		16:15:24
2	Al 396.153Radial†	503407.9	559044.1	511900 ug/L	511900 ppb	16:15:19
2	Ca 317.933Radial†	238963.4	265316.1	474790 ug/L	474790 ppb	16:15:19
2	Fe 238.204 Radial†	38176.2	42381.9	439870 ug/L	439870 ppb	16:15:24
2	K 766.490 Radial†	3640.4	1735.3	-37.055 ug/L	-37.055 ppb	16:15:24
2	Mg 279.077 IEC†	11281.2	12524.0	493060 ug/L	493060 ppb	16:15:24
2	Na 589.592 Radial†	1562210.0	1735345.3	528040 ug/L	528040 ppb	16:15:19
2	Sr 421.552†	1612.9	1771.9	9.0813 ug/L	9.0813 ppb	16:15:24
2	Sc 361.383	705868.4	705868.4	89.259 %		16:16:08
2	Y 371.029	616779.3	616779.3	87.240 %		16:16:08
2	Ag 328.068†	-22092.6	-24927.7	-8.9422 ug/L	-8.9422 ppb	16:16:08
2	As 188.979†	-176.4	-169.0	29.483 ug/L	29.483 ppb	16:16:28
2	B 249.677†	1347.6	1734.0	-28.333 ug/L	-28.333 ppb	16:16:08
2	Ba 233.527†	-1322.2	-1477.3	-3.6881 ug/L	-3.6881 ppb	16:16:28
2	Be 313.107†	-15599.0	-8143.7	-3.2296 ug/L	-3.2296 ppb	16:16:08
2	Cd 226.502†	3022.7	3569.0	6.6341 ug/L	6.6341 ppb	16:16:28
2	Co 228.616†	171.3	256.3	1.2128 ug/L	1.2128 ppb	16:16:28
2	Cr 267.716†	19.0	-39.9	1.8271 ug/L	1.8271 ppb	16:16:28
2	Cu 324.752†	3100.0	-4250.6	-0.9330 ug/L	-0.9330 ppb	16:16:08
2	Mn 257.610†	-18607.9	-21277.6	-10.163 ug/L	-10.163 ppb	16:16:08
2	Mo 202.031†	-378.4	-436.0	0.3802 ug/L	0.3802 ppb	16:16:28
2	Ni 231.604†	200.4	144.0	4.4426 ug/L	4.4426 ppb	16:16:28

2	P 214.914†	476.7	335.2	-42.515 ug/L	-42.515 ppb	16:16:28
2	Pb 220.353†	-508.7	-512.4	14.557 ug/L	14.557 ppb	16:16:28
2	S 181.975 Axial†	88.6	58.2	-23.635 ug/L	-23.635 ppb	16:16:28
2	Sb 206.836†	44.6	17.1	-14.019 ug/L	-14.019 ppb	16:16:28
2	Se 196.026†	-1753.2	-1945.2	-121.43 ug/L	-121.43 ppb	16:16:28
2	Si 251.611†	-269.4	-853.0	-29.936 ug/L	-29.936 ppb	16:16:28
2	Sn 189.927†	-326.1	-378.4	-27.372 ug/L	-27.372 ppb	16:16:28
2	Ti 334.940†	-9828.9	-9677.0	-2.5705 ug/L	-2.5705 ppb	16:16:08
2	Tl 190.801†	-87.9	-62.8	-28.878 ug/L	-28.878 ppb	16:16:28
2	U 409.014†	413012.1	465082.3	15371 ug/L	15371 ppb	16:16:08
2	V 292.402†	1664.1	3523.7	1.8078 ug/L	1.8078 ppb	16:16:28
2	Zn 213.857†	5232.9	5065.4	-11.405 ug/L	-11.405 ppb	16:16:28
2	SiO2†	-301.8	-898.4	-67.674 ug/L	-67.674 ppb	16:17:04
3	Sc Radial	4264.7	4264.7	89.8 %		16:15:35
3	Y RADIAL	4503.2	4503.2	89.35 %		16:15:35
3	Al 396.153Radial†	502695.5	559733.2	512530 ug/L	512530 ppb	16:15:30
3	Ca 317.933Radial†	238416.8	265411.1	474960 ug/L	474960 ppb	16:15:30
3	Fe 238.204 Radial†	37924.5	42214.0	438130 ug/L	438130 ppb	16:15:35
3	K 766.490 Radial†	3614.3	1717.0	-40.163 ug/L	-40.163 ppb	16:15:35
3	Mg 279.077 IEC†	11207.9	12475.7	491150 ug/L	491150 ppb	16:15:35
3	Na 589.592 Radial†	1555017.2	1731937.4	527010 ug/L	527010 ppb	16:15:30
3	Sr 421.552†	1626.5	1791.9	9.2221 ug/L	9.2221 ppb	16:15:35
3	Sc 361.383	707911.9	707911.9	89.517 %		16:16:33
3	Y 371.029	617417.0	617417.0	87.330 %		16:16:33
3	Ag 328.068†	-22388.0	-25186.2	-10.800 ug/L	-10.800 ppb	16:16:33
3	As 188.979†	-161.8	-152.1	36.450 ug/L	36.450 ppb	16:16:53
3	B 249.677†	1308.4	1685.9	-29.245 ug/L	-29.245 ppb	16:16:33
3	Ba 233.527†	-1326.8	-1478.2	-3.7514 ug/L	-3.7514 ppb	16:16:53
3	Be 313.107†	-15667.9	-8170.2	-3.2403 ug/L	-3.2403 ppb	16:16:33
3	Cd 226.502†	3046.5	3585.9	7.0521 ug/L	7.0521 ppb	16:16:53
3	Co 228.616†	161.2	244.4	0.8827 ug/L	0.8827 ppb	16:16:53
3	Cr 267.716†	36.8	-20.1	2.0471 ug/L	2.0471 ppb	16:16:53
3	Cu 324.752†	3054.1	-4312.0	-1.2664 ug/L	-1.2664 ppb	16:16:33
3	Mn 257.610†	-18714.5	-21336.5	-10.350 ug/L	-10.350 ppb	16:16:33
3	Mo 202.031†	-386.9	-444.2	-0.4981 ug/L	-0.4981 ppb	16:16:53
3	Ni 231.604†	244.7	192.9	5.9503 ug/L	5.9503 ppb	16:16:53
3	P 214.914†	485.8	343.8	-36.206 ug/L	-36.206 ppb	16:16:53
3	Pb 220.353†	-514.7	-517.4	14.051 ug/L	14.051 ppb	16:16:53
3	S 181.975 Axial†	95.7	65.9	-14.166 ug/L	-14.166 ppb	16:16:53
3	Sb 206.836†	48.3	21.1	-12.429 ug/L	-12.429 ppb	16:16:53
3	Se 196.026†	-1785.8	-1975.9	-143.52 ug/L	-143.52 ppb	16:16:53
3	Si 251.611†	-269.6	-852.4	-29.905 ug/L	-29.905 ppb	16:16:53
3	Sn 189.927†	-318.0	-368.3	-24.933 ug/L	-24.933 ppb	16:16:53
3	Ti 334.940†	-9923.2	-9750.5	-2.5497 ug/L	-2.5497 ppb	16:16:33
3	Tl 190.801†	-94.4	-69.7	-32.020 ug/L	-32.020 ppb	16:16:53
3	U 409.014†	414924.8	465883.3	15398 ug/L	15398 ppb	16:16:33
3	V 292.402†	1664.5	3518.7	2.0265 ug/L	2.0265 ppb	16:16:53
3	Zn 213.857†	5226.3	5041.0	-11.415 ug/L	-11.415 ppb	16:16:53
3	SiO2†	-342.4	-942.8	-71.053 ug/L	-71.053 ppb	16:17:09

Mean Data: LRL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	705334.2	89.191 %	0.3645			0.41%
Sc Radial	4262.6	89.8 %	0.31			0.34%
Y 371.029	616094.0	87.143 %	0.2501			0.29%
Y RADIAL	4516.5	89.61 %	0.250			0.28%
Ag 328.068†	-25026.7	-9.3428 ug/L	1.30436	-9.3428 ppb	1.30436	13.96%
Al 396.153Radial†	558955.6	511820 ug/L	755.9	511820 ppb	755.9	0.15%
QC value within limits for Al 396.153Radial Recovery = 102.36%						
As 188.979†	-158.5	34.172 ug/L	4.0612	34.172 ppb	4.0612	11.88%
B 249.677†	1719.6	-28.750 ug/L	0.4609	-28.750 ppb	0.4609	1.60%
Ba 233.527†	-1462.0	-3.4996 ug/L	0.38260	-3.4996 ppb	0.38260	10.93%
Be 313.107†	-8113.1	-3.2181 ug/L	0.02978	-3.2181 ppb	0.02978	0.93%
Ca 317.933Radial†	265578.7	475260 ug/L	672.3	475260 ppb	672.3	0.14%
QC value within limits for Ca 317.933Radial Recovery = 95.05%						
Cd 226.502†	3597.8	6.9941 ug/L	0.33484	6.9941 ppb	0.33484	4.79%
Co 228.616†	236.0	0.6039 ug/L	0.78624	0.6039 ppb	0.78624	130.19%
Cr 267.716†	-31.4	1.9415 ug/L	0.11025	1.9415 ppb	0.11025	5.68%
Cu 324.752†	-4265.2	-0.9752 ug/L	0.27249	-0.9752 ppb	0.27249	27.94%

Fe 238.204 Radial†	42418.3	440250 ug/L	2332.9	440250 ppb	2332.9	0.53%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 88.05%						
K 766.490 Radial†	1749.3	-34.483 ug/L	7.3128	-34.483 ppb	7.3128	21.21%
Mg 279.077 IEC†	12526.8	493170 ug/L	2070.1	493170 ppb	2070.1	0.42%
QC value within limits for Mg 279.077 IEC Recovery = 98.63%						
Mn 257.610†	-21409.5	-10.337 ug/L	0.1685	-10.337 ppb	0.1685	1.63%
Mo 202.031†	-440.8	-0.0257 ug/L	0.44290	-0.0257 ppb	0.44290	>999.9%
Na 589.592 Radial†	1734478.8	527780 ug/L	680.9	527780 ppb	680.9	0.13%
QC value within limits for Na 589.592 Radial Recovery = 105.56%						
Ni 231.604†	155.1	4.7830 ug/L	1.03979	4.7830 ppb	1.03979	21.74%
P 214.914†	344.1	-37.977 ug/L	3.9613	-37.977 ppb	3.9613	10.43%
Pb 220.353†	-513.1	14.403 ug/L	0.3060	14.403 ppb	0.3060	2.12%
S 181.975 Axial†	60.6	-20.583 ug/L	5.5595	-20.583 ppb	5.5595	27.01%
Sb 206.836†	24.6	-11.073 ug/L	3.8094	-11.073 ppb	3.8094	34.40%
Se 196.026†	-1966.3	-133.13 ug/L	11.101	-133.13 ppb	11.101	8.34%
Si 251.611†	-849.8	-29.815 ug/L	0.1830	-29.815 ppb	0.1830	0.61%
Sn 189.927†	-372.8	-26.043 ug/L	1.2346	-26.043 ppb	1.2346	4.74%
Sr 421.552†	1784.2	9.1654 ug/L	0.07434	9.1654 ppb	0.07434	0.81%
Ti 334.940†	-9767.6	-2.7029 ug/L	0.24759	-2.7029 ppb	0.24759	9.16%
Tl 190.801†	-67.7	-31.099 ug/L	1.9322	-31.099 ppb	1.9322	6.21%
U 409.014†	465550.4	15387 ug/L	13.9	15387 ppb	13.9	0.09%
QC value within limits for U 409.014 Recovery = 102.58%						
V 292.402†	3507.0	1.6490 ug/L	0.47713	1.6490 ppb	0.47713	28.93%
Zn 213.857†	5063.6	-11.484 ug/L	0.1270	-11.484 ppb	0.1270	1.11%
SiO2†	-896.1	-67.485 ug/L	3.6665	-67.485 ppb	3.6665	5.43%
QC Failed. Continue with analysis.						

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 3/4/2010 16:19:19

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	4671.6	4671.6	98.4 %		16:21:17
1	Y RADIAL	4886.0	4886.0	96.94 %		16:21:17
1	Al 396.153Radial†	432.8	522.3	11.645 ug/L	11.645 ppb	16:21:17
1	Ca 317.933Radial†	35.3	17.6	31.463 ug/L	31.463 ppb	16:21:37
1	Fe 238.204 Radial†	-18.1	-25.6	26.591 ug/L	26.591 ppb	16:21:37
1	K 766.490 Radial†	1597949.3	1621725.7	306220 ug/L	306220 ppb	16:21:12
1	Mg 279.077 IEC†	-4.4	-6.6	-158.69 ug/L	-158.69 ppb	16:21:37
1	Na 589.592 Radial†	-5.5	731.5	222.59 ug/L	222.59 ppb	16:21:17
1	Sr 421.552†	1384112.1	1406685.8	10024 ug/L	10024 ppb	16:21:12
1	Sc 361.383	798690.7	798690.7	101.00 %		16:22:54
1	Y 371.029	697509.2	697509.2	98.659 %		16:22:54
1	Ag 328.068†	-6725.3	-6835.4	5.5884 ug/L	5.5884 ppb	16:23:00
1	As 188.979†	22116.6	21927.1	9594.3 ug/L	9594.3 ppb	16:23:00
1	B 249.677†	202469.4	200696.4	4963.1 ug/L	4963.1 ppb	16:22:54
1	Ba 233.527†	1224758.0	1212680.5	14085 ug/L	14085 ppb	16:22:54
1	Be 313.107†	7278854.1	7216384.7	2845.9 ug/L	2845.9 ppb	16:22:48
1	Cd 226.502†	709474.5	702658.5	9665.6 ug/L	9665.6 ppb	16:22:54
1	Co 228.616†	331886.1	328676.6	9776.5 ug/L	9776.5 ppb	16:23:00
1	Cr 267.716†	1811471.2	1793540.8	23930 ug/L	23930 ppb	16:22:54
1	Cu 324.752†	5782949.8	5718180.5	21091 ug/L	21091 ppb	16:22:48
1	Mn 257.610†	6285876.9	6223439.7	9777.4 ug/L	9777.4 ppb	16:22:48
1	Mo 202.031†	107501.8	106429.3	9622.2 ug/L	9622.2 ppb	16:23:00
1	Ni 231.604†	317258.7	314048.7	9689.7 ug/L	9689.7 ppb	16:23:00
1	P 214.914†	32020.5	31505.8	12998 ug/L	12998 ppb	16:23:00
1	Pb 220.353†	157091.5	155599.4	24711 ug/L	24711 ppb	16:23:00
1	S 181.975 Axial†	40712.5	40269.8	50023 ug/L	50023 ppb	16:23:00
1	Sb 206.836†	26931.4	26632.9	10799 ug/L	10799 ppb	16:23:00
1	Se 196.026†	16913.0	16765.2	9982.7 ug/L	9982.7 ppb	16:23:00
1	Si 251.611†	1327949.2	1314298.5	46754 ug/L	46754 ppb	16:22:54
1	Sn 189.927†	45023.3	44566.1	10185 ug/L	10185 ppb	16:23:00
1	Ti 334.940†	5066056.5	5017417.3	9931.4 ug/L	9931.4 ppb	16:22:48
1	Tl 190.801†	22633.1	22445.5	10243 ug/L	10243 ppb	16:23:00
1	U 409.014†	-1240.4	1140.5	-15.673 ug/L	-15.673 ppb	16:23:00
1	V 292.402†	1285908.2	1274882.7	10017 ug/L	10017 ppb	16:22:54
1	Zn 213.857†	1293422.5	1279866.3	13662 ug/L	13662 ppb	16:22:54
1	SiO2†	1353233.4	1339324.1	102230 ug/L	102230 ppb	16:23:45
2	Sc Radial	4781.4	4781.4	101 %		16:21:47
2	Y RADIAL	4992.0	4992.0	99.05 %		16:21:47
2	Al 396.153Radial†	420.5	500.1	-11.811 ug/L	-11.811 ppb	16:21:47
2	Ca 317.933Radial†	33.9	15.5	27.652 ug/L	27.652 ppb	16:22:07
2	Fe 238.204 Radial†	-15.5	-22.6	59.513 ug/L	59.513 ppb	16:22:07
2	K 766.490 Radial†	1584745.2	1571322.9	296700 ug/L	296700 ppb	16:21:42
2	Mg 279.077 IEC†	-5.5	-7.6	-196.53 ug/L	-196.53 ppb	16:22:07
2	Na 589.592 Radial†	11.6	748.6	227.78 ug/L	227.78 ppb	16:21:47
2	Sr 421.552†	1370715.6	1361082.3	9698.9 ug/L	9698.9 ppb	16:21:42
2	Sc 361.383	799064.8	799064.8	101.04 %		16:23:14
2	Y 371.029	697929.2	697929.2	98.718 %		16:23:14
2	Ag 328.068†	-6806.4	-6912.6	5.1970 ug/L	5.1970 ppb	16:23:19
2	As 188.979†	22345.0	22142.8	9687.7 ug/L	9687.7 ppb	16:23:19
2	B 249.677†	202836.5	200965.9	4969.6 ug/L	4969.6 ppb	16:23:14
2	Ba 233.527†	1225305.6	1212654.7	14084 ug/L	14084 ppb	16:23:14
2	Be 313.107†	7255282.4	7189682.6	2835.4 ug/L	2835.4 ppb	16:23:08
2	Cd 226.502†	709810.3	702662.0	9665.7 ug/L	9665.7 ppb	16:23:14
2	Co 228.616†	334283.7	330895.6	9842.8 ug/L	9842.8 ppb	16:23:19
2	Cr 267.716†	1811681.7	1792909.5	23921 ug/L	23921 ppb	16:23:14
2	Cu 324.752†	5766977.0	5699692.1	21023 ug/L	21023 ppb	16:23:08
2	Mn 257.610†	6268047.0	6202880.3	9745.1 ug/L	9745.1 ppb	16:23:08
2	Mo 202.031†	108261.0	107130.9	9685.6 ug/L	9685.6 ppb	16:23:19
2	Ni 231.604†	319699.0	316316.7	9759.7 ug/L	9759.7 ppb	16:23:19

2	P 214.914†	32307.2	31774.7	13158 ug/L	13158 ppb	16:23:19
2	Pb 220.353†	158127.2	156551.6	24863 ug/L	24863 ppb	16:23:19
2	S 181.975 Axial†	41144.1	40678.1	50530 ug/L	50530 ppb	16:23:19
2	Sb 206.836†	27180.3	26866.7	10893 ug/L	10893 ppb	16:23:19
2	Se 196.026†	17112.8	16955.0	10096 ug/L	10096 ppb	16:23:19
2	Si 251.611†	1328799.4	1314524.4	46761 ug/L	46761 ppb	16:23:14
2	Sn 189.927†	45223.8	44743.6	10226 ug/L	10226 ppb	16:23:19
2	Ti 334.940†	5051021.2	5000189.1	9897.3 ug/L	9897.3 ppb	16:23:08
2	Tl 190.801†	22799.9	22600.1	10313 ug/L	10313 ppb	16:23:19
2	U 409.014†	-1291.8	1090.2	-17.326 ug/L	-17.326 ppb	16:23:19
2	V 292.402†	1286038.7	1274415.9	10014 ug/L	10014 ppb	16:23:14
2	Zn 213.857†	1293824.0	1279664.2	13660 ug/L	13660 ppb	16:23:14
2	SiO2†	1343731.3	1329292.9	101460 ug/L	101460 ppb	16:23:51
3	Sc Radial	4792.1	4792.1	101 %		16:22:18
3	Y RADIAL	5032.1	5032.1	99.84 %		16:22:18
3	Al 396.153Radial†	427.8	506.3	-3.9677 ug/L	-3.9677 ppb	16:22:18
3	Ca 317.933Radial†	37.2	18.6	33.354 ug/L	33.354 ppb	16:22:38
3	Fe 238.204 Radial†	-18.3	-25.4	28.923 ug/L	28.923 ppb	16:22:38
3	K 766.490 Radial†	1620218.0	1602960.8	302670 ug/L	302670 ppb	16:22:13
3	Mg 279.077 IEC†	-5.9	-8.0	-213.43 ug/L	-213.43 ppb	16:22:38
3	Na 589.592 Radial†	-130.8	607.5	184.86 ug/L	184.86 ppb	16:22:18
3	Sr 421.552†	1405935.0	1392942.9	9925.9 ug/L	9925.9 ppb	16:22:13
3	Sc 361.383	807594.1	807594.1	102.12 %		16:23:34
3	Y 371.029	703931.9	703931.9	99.567 %		16:23:34
3	Ag 328.068†	-6856.5	-6890.5	5.2640 ug/L	5.2640 ppb	16:23:39
3	As 188.979†	22469.4	22031.1	9638.7 ug/L	9638.7 ppb	16:23:39
3	B 249.677†	205674.8	201625.0	4986.1 ug/L	4986.1 ppb	16:23:34
3	Ba 233.527†	1238522.7	1212789.8	14086 ug/L	14086 ppb	16:23:34
3	Be 313.107†	7263187.7	7121589.0	2808.6 ug/L	2808.6 ppb	16:23:27
3	Cd 226.502†	716594.5	701886.1	9655.0 ug/L	9655.0 ppb	16:23:34
3	Co 228.616†	336055.0	329136.1	9790.4 ug/L	9790.4 ppb	16:23:39
3	Cr 267.716†	1829204.8	1791132.2	23898 ug/L	23898 ppb	16:23:34
3	Cu 324.752†	5802888.1	5674578.6	20930 ug/L	20930 ppb	16:23:27
3	Mn 257.610†	6291355.7	6160189.0	9678.0 ug/L	9678.0 ppb	16:23:27
3	Mo 202.031†	108923.1	106647.6	9641.9 ug/L	9641.9 ppb	16:23:39
3	Ni 231.604†	321192.9	314437.9	9701.7 ug/L	9701.7 ppb	16:23:39
3	P 214.914†	32492.3	31618.3	13091 ug/L	13091 ppb	16:23:39
3	Pb 220.353†	159043.3	155795.9	24743 ug/L	24743 ppb	16:23:39
3	S 181.975 Axial†	41352.9	40452.6	50250 ug/L	50250 ppb	16:23:39
3	Sb 206.836†	27420.6	26817.9	10872 ug/L	10872 ppb	16:23:39
3	Se 196.026†	17189.0	16850.8	10034 ug/L	10034 ppb	16:23:39
3	Si 251.611†	1348883.5	1320302.1	46968 ug/L	46968 ppb	16:23:34
3	Sn 189.927†	45417.7	44460.9	10161 ug/L	10161 ppb	16:23:39
3	Ti 334.940†	5074648.6	4970530.7	9838.6 ug/L	9838.6 ppb	16:23:27
3	Tl 190.801†	22962.5	22521.1	10276 ug/L	10276 ppb	16:23:39
3	U 409.014†	-1133.4	1258.8	-11.678 ug/L	-11.678 ppb	16:23:39
3	V 292.402†	1298780.3	1273450.6	10006 ug/L	10006 ppb	16:23:34
3	Zn 213.857†	1305858.1	1277924.7	13641 ug/L	13641 ppb	16:23:34
3	SiO2†	1335905.2	1307584.4	99797 ug/L	99797 ppb	16:23:57

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	801783.2	101.39 %	0.637			0.63%
Sc Radial	4748.4	100 %	1.4			1.40%
Y 371.029	699790.1	98.982 %	0.5082			0.51%
Y RADIAL	4970.1	98.61 %	1.497			1.52%
Ag 328.068†	-6879.5	5.3498 ug/L	0.20935	5.3498 ppb	0.20935	3.91%
Al 396.153Radial†	509.6	-1.3779 ug/L	11.94097	-1.3779 ppb	11.94097	866.60%
As 188.979†	22033.7	9640.2 ug/L	46.69	9640.2 ppb	46.69	0.48%
QC value within limits for As 188.979 Recovery = 96.40%						
B 249.677†	201095.8	4972.9 ug/L	11.89	4972.9 ppb	11.89	0.24%
QC value within limits for B 249.677 Recovery = 99.46%						
Ba 233.527†	1212708.3	14085 ug/L	0.8	14085 ppb	0.8	0.01%
QC value within limits for Ba 233.527 Recovery = 93.90%						
Be 313.107†	7175885.4	2829.9 ug/L	19.23	2829.9 ppb	19.23	0.68%
QC value within limits for Be 313.107 Recovery = 94.33%						
Ca 317.933Radial†	17.2	30.823 ug/L	2.9042	30.823 ppb	2.9042	9.42%
Cd 226.502†	702402.2	9662.1 ug/L	6.15	9662.1 ppb	6.15	0.06%
QC value within limits for Cd 226.502 Recovery = 96.62%						

Co 228.616†	329569.4	9803.2 ug/L	34.93	9803.2 ppb	34.93	0.36%
QC value within limits for Co 228.616 Recovery = 98.03%						
Cr 267.716†	1792527.5	23916 ug/L	16.7	23916 ppb	16.7	0.07%
QC value within limits for Cr 267.716 Recovery = 95.66%						
Cu 324.752†	5697483.7	21015 ug/L	80.7	21015 ppb	80.7	0.38%
QC value within limits for Cu 324.752 Recovery = 105.07%						
Fe 238.204 Radial†	-24.6	38.343 ug/L	18.3713	38.343 ppb	18.3713	47.91%
K 766.490 Radial†	1598669.8	301860 ug/L	4810.3	301860 ppb	4810.3	1.59%
QC value within limits for K 766.490 Radial Recovery = 100.62%						
Mg 279.077 IEC†	-7.4	-189.55 ug/L	28.031	-189.55 ppb	28.031	14.79%
Mn 257.610†	6195503.0	9733.5 ug/L	50.69	9733.5 ppb	50.69	0.52%
QC value within limits for Mn 257.610 Recovery = 97.34%						
Mo 202.031†	106736.0	9649.9 ug/L	32.46	9649.9 ppb	32.46	0.34%
QC value within limits for Mo 202.031 Recovery = 96.50%						
Na 589.592 Radial†	695.9	211.74 ug/L	23.425	211.74 ppb	23.425	11.06%
Ni 231.604†	314934.4	9717.0 ug/L	37.42	9717.0 ppb	37.42	0.39%
QC value within limits for Ni 231.604 Recovery = 97.17%						
P 214.914†	31632.9	13082 ug/L	80.2	13082 ppb	80.2	0.61%
QC value less than the lower limit for P 214.914 Recovery = 87.21%						
Pb 220.353†	155982.3	24772 ug/L	79.9	24772 ppb	79.9	0.32%
QC value within limits for Pb 220.353 Recovery = 99.09%						
S 181.975 Axial†	40466.8	50268 ug/L	254.0	50268 ppb	254.0	0.51%
QC value within limits for S 181.975 Axial Recovery = 100.54%						
Sb 206.836†	26772.5	10855 ug/L	49.2	10855 ppb	49.2	0.45%
QC value within limits for Sb 206.836 Recovery = 108.55%						
Se 196.026†	16857.0	10037 ug/L	56.6	10037 ppb	56.6	0.56%
QC value within limits for Se 196.026 Recovery = 100.37%						
Si 251.611†	1316375.0	46828 ug/L	121.4	46828 ppb	121.4	0.26%
QC value within limits for Si 251.611 Recovery = 93.66%						
Sn 189.927†	44590.2	10191 ug/L	32.7	10191 ppb	32.7	0.32%
QC value within limits for Sn 189.927 Recovery = 101.91%						
Sr 421.552†	1386903.7	9882.9 ug/L	166.70	9882.9 ppb	166.70	1.69%
QC value within limits for Sr 421.552 Recovery = 98.83%						
Ti 334.940†	4996045.7	9889.1 ug/L	46.98	9889.1 ppb	46.98	0.48%
QC value within limits for Ti 334.940 Recovery = 98.89%						
Tl 190.801†	22522.2	10277 ug/L	34.7	10277 ppb	34.7	0.34%
QC value within limits for Tl 190.801 Recovery = 102.77%						
U 409.014†	1163.2	-14.892 ug/L	2.9035	-14.892 ppb	2.9035	19.50%
V 292.402†	1274249.7	10012 ug/L	5.6	10012 ppb	5.6	0.06%
QC value within limits for V 292.402 Recovery = 100.12%						
Zn 213.857†	1279151.7	13654 ug/L	11.3	13654 ppb	11.3	0.08%
QC value within limits for Zn 213.857 Recovery = 91.03%						
SiO2†	1325400.5	101160 ug/L	1241.6	101160 ppb	1241.6	1.23%
QC value within limits for SiO2 Recovery = 94.54%						
QC Failed. Continue with analysis.						

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Analysis Begun

Start Time: 3/4/2010 16:39:42

Plasma On Time: 3/1/2010 06:57:40

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\030410.sif

Batch ID:

Results Data Set: 030410

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/4/2010 14:28:10

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/4/2010 16:39:43

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	4736.9	4736.9	99.8 %		16:41:35
1	Y RADIAL	4989.6	4989.6	99.00 %		16:41:35
1	Al 396.153Radial†	5177.7	5272.2	4803.8 ug/L	4803.8 ppb	16:41:35

1	Ca 317.933Radial†	2763.2	2751.4	4923.6 ug/L	4923.6 ppb	16:41:55
1	Fe 238.204 Radial†	491.1	484.9	5047.7 ug/L	5047.7 ppb	16:41:55
1	K 766.490 Radial†	29542.9	27304.7	5149.7 ug/L	5149.7 ppb	16:41:35
1	Mg 279.077 IEC†	130.3	128.5	5061.6 ug/L	5061.6 ppb	16:41:55
1	Na 589.592 Radial†	31779.9	32590.7	9917.0 ug/L	9917.0 ppb	16:41:35
1	Sr 421.552†	70380.4	70524.8	502.51 ug/L	502.51 ppb	16:41:35
1	Sc 361.383	796197.2	796197.2	100.68 %		16:42:52
1	Y 371.029	705184.9	705184.9	99.745 %		16:42:52
1	Ag 328.068†	97827.2	96989.0	490.24 ug/L	490.24 ppb	16:42:57
1	As 188.979†	1122.5	1143.5	501.28 ug/L	501.28 ppb	16:43:17
1	B 249.677†	19785.5	19875.9	492.07 ug/L	492.07 ppb	16:42:57
1	Ba 233.527†	42583.1	42299.1	491.75 ug/L	491.75 ppb	16:42:57
1	Be 313.107†	1247198.8	1248095.8	489.40 ug/L	489.40 ppb	16:42:52
1	Cd 226.502†	35966.4	35905.8	493.48 ug/L	493.48 ppb	16:42:57
1	Co 228.616†	16490.5	16443.3	489.29 ug/L	489.29 ppb	16:43:17
1	Cr 267.716†	37194.5	36881.7	492.39 ug/L	492.39 ppb	16:42:57
1	Cu 324.752†	139384.4	130717.9	482.14 ug/L	482.14 ppb	16:42:57
1	Mn 257.610†	313822.3	311269.3	489.31 ug/L	489.31 ppb	16:42:57
1	Mo 202.031†	5465.8	5416.8	490.18 ug/L	490.18 ppb	16:43:17
1	Ni 231.604†	16116.7	15927.2	491.43 ug/L	491.43 ppb	16:42:57
1	P 214.914†	4725.9	4495.1	2344.5 ug/L	2344.5 ppb	16:43:17
1	Pb 220.353†	3085.0	3121.7	497.31 ug/L	497.31 ppb	16:43:17
1	S 181.975 Axial†	828.2	781.5	969.94 ug/L	969.94 ppb	16:43:17
1	Sb 206.836†	1283.9	1242.4	504.68 ug/L	504.68 ppb	16:43:17
1	Se 196.026†	806.0	819.5	499.81 ug/L	499.81 ppb	16:43:17
1	Si 251.611†	68941.1	67923.6	2416.4 ug/L	2416.4 ppb	16:42:57
1	Sn 189.927†	2171.4	2143.7	490.49 ug/L	490.49 ppb	16:43:17
1	Ti 334.940†	245516.7	245190.9	485.61 ug/L	485.61 ppb	16:42:57
1	Tl 190.801†	1047.5	1076.1	491.14 ug/L	491.14 ppb	16:43:17
1	U 409.014†	12268.9	14554.5	480.93 ug/L	480.93 ppb	16:42:57
1	V 292.402†	61671.9	62914.1	495.07 ug/L	495.07 ppb	16:42:57
1	Zn 213.857†	46762.3	45648.8	485.96 ug/L	485.96 ppb	16:42:57
1	SiO2†	69338.3	68309.0	5213.9 ug/L	5213.9 ppb	16:44:24
2	Sc Radial	4737.8	4737.8	99.8 %		16:42:00
2	Y RADIAL	4958.1	4958.1	98.37 %		16:42:00
2	Al 396.153Radial†	5166.6	5260.1	4792.7 ug/L	4792.7 ppb	16:42:00
2	Ca 317.933Radial†	2806.6	2794.3	5000.6 ug/L	5000.6 ppb	16:42:20
2	Fe 238.204 Radial†	502.7	496.5	5167.4 ug/L	5167.4 ppb	16:42:20
2	K 766.490 Radial†	29665.6	27421.9	5171.8 ug/L	5171.8 ppb	16:42:00
2	Mg 279.077 IEC†	133.0	131.2	5168.4 ug/L	5168.4 ppb	16:42:20
2	Na 589.592 Radial†	32106.4	32911.7	10015 ug/L	10015 ppb	16:42:00
2	Sr 421.552†	70515.8	70646.6	503.38 ug/L	503.38 ppb	16:42:00
2	Sc 361.383	801647.2	801647.2	101.37 %		16:43:23
2	Y 371.029	709722.2	709722.2	100.39 %		16:43:23
2	Ag 328.068†	99283.4	97765.1	494.18 ug/L	494.18 ppb	16:43:28
2	As 188.979†	1129.1	1142.5	500.90 ug/L	500.90 ppb	16:43:48
2	B 249.677†	20120.2	20072.5	496.93 ug/L	496.93 ppb	16:43:28
2	Ba 233.527†	43223.9	42643.7	495.76 ug/L	495.76 ppb	16:43:28
2	Be 313.107†	1259615.2	1251922.7	490.91 ug/L	490.91 ppb	16:43:23
2	Cd 226.502†	36581.0	36269.2	498.47 ug/L	498.47 ppb	16:43:28
2	Co 228.616†	16625.7	16465.3	489.93 ug/L	489.93 ppb	16:43:48
2	Cr 267.716†	37736.9	37165.6	496.18 ug/L	496.18 ppb	16:43:28
2	Cu 324.752†	141866.3	132225.1	487.70 ug/L	487.70 ppb	16:43:28
2	Mn 257.610†	319409.6	314661.9	494.65 ug/L	494.65 ppb	16:43:28
2	Mo 202.031†	5502.5	5416.1	490.13 ug/L	490.13 ppb	16:43:48
2	Ni 231.604†	16389.2	16087.2	496.36 ug/L	496.36 ppb	16:43:28
2	P 214.914†	4759.7	4496.5	2344.0 ug/L	2344.0 ppb	16:43:48
2	Pb 220.353†	3097.3	3113.0	495.92 ug/L	495.92 ppb	16:43:48
2	S 181.975 Axial†	833.7	781.4	969.80 ug/L	969.80 ppb	16:43:48
2	Sb 206.836†	1277.7	1227.6	498.87 ug/L	498.87 ppb	16:43:48
2	Se 196.026†	804.9	813.0	496.21 ug/L	496.21 ppb	16:43:48
2	Si 251.611†	70188.3	68688.4	2443.6 ug/L	2443.6 ppb	16:43:28
2	Sn 189.927†	2183.1	2140.5	489.78 ug/L	489.78 ppb	16:43:48
2	Ti 334.940†	249710.4	247670.1	490.51 ug/L	490.51 ppb	16:43:28
2	Tl 190.801†	1057.2	1078.7	492.36 ug/L	492.36 ppb	16:43:48
2	U 409.014†	12672.1	14869.5	491.35 ug/L	491.35 ppb	16:43:28
2	V 292.402†	62639.3	63452.0	499.24 ug/L	499.24 ppb	16:43:28
2	Zn 213.857†	47419.9	45981.7	489.48 ug/L	489.48 ppb	16:43:28
2	SiO2†	68856.6	67365.6	5141.7 ug/L	5141.7 ppb	16:44:29
3	Sc Radial	4713.5	4713.5	99.3 %		16:42:25
3	Y RADIAL	4946.6	4946.6	98.14 %		16:42:25

3	Al 396.153Radial†	5181.2	5301.6	4830.9 ug/L	4830.9 ppb	16:42:25
3	Ca 317.933Radial†	2784.4	2786.4	4986.4 ug/L	4986.4 ppb	16:42:45
3	Fe 238.204 Radial†	498.2	494.6	5147.3 ug/L	5147.3 ppb	16:42:45
3	K 766.490 Radial†	29481.3	27390.0	5165.7 ug/L	5165.7 ppb	16:42:25
3	Mg 279.077 IEC†	135.6	134.5	5298.9 ug/L	5298.9 ppb	16:42:45
3	Na 589.592 Radial†	32184.2	33156.5	10089 ug/L	10089 ppb	16:42:25
3	Sr 421.552†	70772.9	71271.3	507.83 ug/L	507.83 ppb	16:42:25
3	Sc 361.383	809019.7	809019.7	102.30 %		16:43:54
3	Y 371.029	715486.5	715486.5	101.20 %		16:43:54
3	Ag 328.068†	97848.6	95470.0	482.62 ug/L	482.62 ppb	16:43:59
3	As 188.979†	1124.6	1127.9	494.45 ug/L	494.45 ppb	16:44:19
3	B 249.677†	19881.6	19658.3	486.65 ug/L	486.65 ppb	16:43:59
3	Ba 233.527†	42703.1	41746.0	485.33 ug/L	485.33 ppb	16:43:59
3	Be 313.107†	1265218.0	1246075.8	488.60 ug/L	488.60 ppb	16:43:54
3	Cd 226.502†	36075.7	35446.4	487.15 ug/L	487.15 ppb	16:43:59
3	Co 228.616†	16632.5	16322.6	485.70 ug/L	485.70 ppb	16:44:19
3	Cr 267.716†	37333.0	36431.6	486.38 ug/L	486.38 ppb	16:43:59
3	Cu 324.752†	139248.0	128390.4	473.57 ug/L	473.57 ppb	16:43:59
3	Mn 257.610†	314734.4	307220.6	482.95 ug/L	482.95 ppb	16:43:59
3	Mo 202.031†	5502.4	5366.6	485.65 ug/L	485.65 ppb	16:44:19
3	Ni 231.604†	16181.5	15736.9	485.55 ug/L	485.55 ppb	16:43:59
3	P 214.914†	4741.2	4435.7	2313.8 ug/L	2313.8 ppb	16:44:19
3	Pb 220.353†	3098.4	3086.2	491.67 ug/L	491.67 ppb	16:44:19
3	S 181.975 Axial†	831.4	771.7	957.66 ug/L	957.66 ppb	16:44:19
3	Sb 206.836†	1288.7	1226.8	498.42 ug/L	498.42 ppb	16:44:19
3	Se 196.026†	815.1	815.7	497.76 ug/L	497.76 ppb	16:44:19
3	Si 251.611†	69136.4	67029.2	2384.5 ug/L	2384.5 ppb	16:43:59
3	Sn 189.927†	2186.0	2123.7	485.94 ug/L	485.94 ppb	16:44:19
3	Ti 334.940†	245616.9	241423.9	478.14 ug/L	478.14 ppb	16:43:59
3	Tl 190.801†	1057.4	1069.3	488.01 ug/L	488.01 ppb	16:44:19
3	U 409.014†	12134.3	14229.8	470.16 ug/L	470.16 ppb	16:43:59
3	V 292.402†	61807.0	62075.3	488.47 ug/L	488.47 ppb	16:43:59
3	Zn 213.857†	46798.6	44948.1	478.47 ug/L	478.47 ppb	16:43:59
3	SiO2†	69168.5	67051.5	5117.8 ug/L	5117.8 ppb	16:44:34

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	802288.0	101.45 %	0.814			0.80%
Sc Radial	4729.4	99.6 %	0.29			0.29%
Y 371.029	710131.2	100.44 %	0.730			0.73%
Y RADIAL	4964.8	98.50 %	0.441			0.45%
Ag 328.068†	96741.4	489.02 ug/L	5.877	489.02 ppb	5.877	1.20%
QC value within limits for Ag 328.068 Recovery = 97.80%						
Al 396.153Radial†	5277.9	4809.1 ug/L	19.67	4809.1 ppb	19.67	0.41%
QC value within limits for Al 396.153Radial Recovery = 96.18%						
As 188.979†	1138.0	498.88 ug/L	3.836	498.88 ppb	3.836	0.77%
QC value within limits for As 188.979 Recovery = 99.78%						
B 249.677†	19868.9	491.88 ug/L	5.144	491.88 ppb	5.144	1.05%
QC value within limits for B 249.677 Recovery = 98.38%						
Ba 233.527†	42229.6	490.95 ug/L	5.263	490.95 ppb	5.263	1.07%
QC value within limits for Ba 233.527 Recovery = 98.19%						
Be 313.107†	1248698.1	489.64 ug/L	1.175	489.64 ppb	1.175	0.24%
QC value within limits for Be 313.107 Recovery = 97.93%						
Ca 317.933Radial†	2777.4	4970.2 ug/L	40.94	4970.2 ppb	40.94	0.82%
QC value within limits for Ca 317.933Radial Recovery = 99.40%						
Cd 226.502†	35873.8	493.04 ug/L	5.673	493.04 ppb	5.673	1.15%
QC value within limits for Cd 226.502 Recovery = 98.61%						
Co 228.616†	16410.4	488.31 ug/L	2.281	488.31 ppb	2.281	0.47%
QC value within limits for Co 228.616 Recovery = 97.66%						
Cr 267.716†	36826.3	491.65 ug/L	4.939	491.65 ppb	4.939	1.00%
QC value within limits for Cr 267.716 Recovery = 98.33%						
Cu 324.752†	130444.4	481.14 ug/L	7.120	481.14 ppb	7.120	1.48%
QC value within limits for Cu 324.752 Recovery = 96.23%						
Fe 238.204 Radial†	492.0	5120.8 ug/L	64.09	5120.8 ppb	64.09	1.25%
QC value within limits for Fe 238.204 Radial Recovery = 102.42%						
K 766.490 Radial†	27372.2	5162.4 ug/L	11.41	5162.4 ppb	11.41	0.22%
QC value within limits for K 766.490 Radial Recovery = 103.25%						
Mg 279.077 IEC†	131.4	5176.3 ug/L	118.84	5176.3 ppb	118.84	2.30%
QC value within limits for Mg 279.077 IEC Recovery = 103.53%						

Mn 257.610†	311050.6	488.97 ug/L	5.857	488.97 ppb	5.857	1.20%
QC value within limits for Mn 257.610 Recovery = 97.79%						
Mo 202.031†	5399.8	488.65 ug/L	2.603	488.65 ppb	2.603	0.53%
QC value within limits for Mo 202.031 Recovery = 97.73%						
Na 589.592 Radial†	32886.3	10007 ug/L	86.3	10007 ppb	86.3	0.86%
QC value within limits for Na 589.592 Radial Recovery = 100.07%						
Ni 231.604†	15917.1	491.11 ug/L	5.413	491.11 ppb	5.413	1.10%
QC value within limits for Ni 231.604 Recovery = 98.22%						
P 214.914†	4475.8	2334.1 ug/L	17.56	2334.1 ppb	17.56	0.75%
QC value within limits for P 214.914 Recovery = 93.36%						
Pb 220.353†	3106.9	494.96 ug/L	2.938	494.96 ppb	2.938	0.59%
QC value within limits for Pb 220.353 Recovery = 98.99%						
S 181.975 Axial†	778.2	965.80 ug/L	7.049	965.80 ppb	7.049	0.73%
QC value within limits for S 181.975 Axial Recovery = 96.58%						
Sb 206.836†	1232.3	500.66 ug/L	3.492	500.66 ppb	3.492	0.70%
QC value within limits for Sb 206.836 Recovery = 100.13%						
Se 196.026†	816.1	497.93 ug/L	1.805	497.93 ppb	1.805	0.36%
QC value within limits for Se 196.026 Recovery = 99.59%						
Si 251.611†	67880.4	2414.8 ug/L	29.59	2414.8 ppb	29.59	1.23%
QC value within limits for Si 251.611 Recovery = 96.59%						
Sn 189.927†	2136.0	488.74 ug/L	2.451	488.74 ppb	2.451	0.50%
QC value within limits for Sn 189.927 Recovery = 97.75%						
Sr 421.552†	70814.2	504.57 ug/L	2.854	504.57 ppb	2.854	0.57%
QC value within limits for Sr 421.552 Recovery = 100.91%						
Ti 334.940†	244761.6	484.75 ug/L	6.231	484.75 ppb	6.231	1.29%
QC value within limits for Ti 334.940 Recovery = 96.95%						
Tl 190.801†	1074.7	490.50 ug/L	2.246	490.50 ppb	2.246	0.46%
QC value within limits for Tl 190.801 Recovery = 98.10%						
U 409.014†	14551.3	480.81 ug/L	10.593	480.81 ppb	10.593	2.20%
QC value within limits for U 409.014 Recovery = 96.16%						
V 292.402†	62813.8	494.26 ug/L	5.431	494.26 ppb	5.431	1.10%
QC value within limits for V 292.402 Recovery = 98.85%						
Zn 213.857†	45526.2	484.64 ug/L	5.626	484.64 ppb	5.626	1.16%
QC value within limits for Zn 213.857 Recovery = 96.93%						
SiO2†	67575.4	5157.8 ug/L	50.03	5157.8 ppb	50.03	0.97%
QC value within limits for SiO2 Recovery = 96.45%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/4/2010 16:46:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4765.4	4765.4	100 %		16:48:37
1	Y RADIAL	5023.8	5023.8	99.67 %		16:48:37
1	Al 396.153Radial†	-88.3	-5.5	-5.0572 ug/L	-5.0572 ppb	16:48:57
1	Ca 317.933Radial†	17.6	-0.7	-1.3236 ug/L	-1.3236 ppb	16:48:57
1	Fe 238.204 Radial†	9.1	1.8	18.563 ug/L	18.563 ppb	16:48:57
1	K 766.490 Radial†	2684.2	367.6	69.415 ug/L	69.415 ppb	16:48:37
1	Mg 279.077 IEC†	1.5	-0.6	-25.300 ug/L	-25.300 ppb	16:48:57
1	Na 589.592 Radial†	-673.9	65.7	19.986 ug/L	19.986 ppb	16:48:37
1	Sr 421.552†	6.3	-12.6	-0.0900 ug/L	-0.0900 ppb	16:48:37
1	Sc 361.383	802415.4	802415.4	101.47 %		16:49:54
1	Y 371.029	720123.2	720123.2	101.86 %		16:49:54
1	Ag 328.068†	206.2	26.8	0.1383 ug/L	0.1383 ppb	16:49:54
1	As 188.979†	-21.9	7.0	3.0521 ug/L	3.0521 ppb	16:50:14
1	B 249.677†	284.1	504.2	12.535 ug/L	12.535 ppb	16:50:14
1	Ba 233.527†	12.3	16.2	0.1884 ug/L	0.1884 ppb	16:50:14
1	Be 313.107†	-9404.7	63.8	0.0253 ug/L	0.0253 ppb	16:49:54
1	Cd 226.502†	-182.1	3.1	0.0422 ug/L	0.0422 ppb	16:50:14
1	Co 228.616†	-55.2	9.9	0.2950 ug/L	0.2950 ppb	16:50:14
1	Cr 267.716†	72.2	10.0	0.1325 ug/L	0.1325 ppb	16:50:14
1	Cu 324.752†	7764.0	-72.0	-0.2664 ug/L	-0.2664 ppb	16:49:54
1	Mn 257.610†	470.4	33.2	0.0550 ug/L	0.0550 ppb	16:50:14
1	Mo 202.031†	12.8	0.7	0.0604 ug/L	0.0604 ppb	16:50:14
1	Ni 231.604†	98.7	16.8	0.5188 ug/L	0.5188 ppb	16:50:14
1	P 214.914†	206.6	4.7	2.6217 ug/L	2.6217 ppb	16:50:14
1	Pb 220.353†	-47.5	10.7	1.6901 ug/L	1.6901 ppb	16:50:14
1	S 181.975 Axial†	42.2	0.5	0.6451 ug/L	0.6451 ppb	16:50:14
1	Sb 206.836†	45.1	11.6	4.5864 ug/L	4.5864 ppb	16:50:14
1	Se 196.026†	-18.7	0.6	0.3678 ug/L	0.3678 ppb	16:50:14
1	Si 251.611†	606.6	46.7	1.6634 ug/L	1.6634 ppb	16:50:14
1	Sn 189.927†	22.8	9.4	2.1374 ug/L	2.1374 ppb	16:50:14
1	Ti 334.940†	-1285.1	68.2	0.1356 ug/L	0.1356 ppb	16:49:54
1	Tl 190.801†	-32.0	4.2	1.8994 ug/L	1.8994 ppb	16:50:14
1	U 409.014†	-2305.4	96.6	3.1990 ug/L	3.1990 ppb	16:49:54
1	V 292.402†	-1657.2	26.1	0.2064 ug/L	0.2064 ppb	16:49:54
1	Zn 213.857†	755.3	-52.9	-0.5743 ug/L	-0.5743 ppb	16:50:14
1	SiO2†	597.2	28.2	2.1591 ug/L	2.1591 ppb	16:51:10
2	Sc Radial	4868.3	4868.3	103 %		16:49:02
2	Y RADIAL	5177.0	5177.0	102.7 %		16:49:02
2	Al 396.153Radial†	-81.2	3.3	2.9928 ug/L	2.9928 ppb	16:49:22
2	Ca 317.933Radial†	19.9	1.2	2.1274 ug/L	2.1274 ppb	16:49:22
2	Fe 238.204 Radial†	9.2	1.7	17.481 ug/L	17.481 ppb	16:49:22
2	K 766.490 Radial†	2729.9	355.7	67.148 ug/L	67.148 ppb	16:49:02
2	Mg 279.077 IEC†	2.5	0.3	12.349 ug/L	12.349 ppb	16:49:22
2	Na 589.592 Radial†	-645.0	108.0	32.877 ug/L	32.877 ppb	16:49:02
2	Sr 421.552†	27.6	8.0	0.0567 ug/L	0.0567 ppb	16:49:02
2	Sc 361.383	789630.6	789630.6	99.851 %		16:50:19
2	Y 371.029	707736.1	707736.1	100.11 %		16:50:19
2	Ag 328.068†	238.5	62.4	0.3204 ug/L	0.3204 ppb	16:50:19
2	As 188.979†	-18.9	9.7	4.2266 ug/L	4.2266 ppb	16:50:39
2	B 249.677†	244.2	468.8	11.656 ug/L	11.656 ppb	16:50:39
2	Ba 233.527†	-13.1	-9.1	-0.1054 ug/L	-0.1054 ppb	16:50:39
2	Be 313.107†	-9303.0	15.6	0.0063 ug/L	0.0063 ppb	16:50:19
2	Cd 226.502†	-167.8	14.5	0.1979 ug/L	0.1979 ppb	16:50:39
2	Co 228.616†	-61.6	2.7	0.0805 ug/L	0.0805 ppb	16:50:39
2	Cr 267.716†	70.9	9.8	0.1315 ug/L	0.1315 ppb	16:50:39
2	Cu 324.752†	7609.4	-103.0	-0.3778 ug/L	-0.3778 ppb	16:50:19
2	Mn 257.610†	448.3	18.6	0.0304 ug/L	0.0304 ppb	16:50:39
2	Mo 202.031†	18.4	6.5	0.5845 ug/L	0.5845 ppb	16:50:39
2	Ni 231.604†	84.1	3.8	0.1162 ug/L	0.1162 ppb	16:50:39

2	P 214.914†	217.5	19.0	10.352 ug/L	10.352 ppb	16:50:39
2	Pb 220.353†	-56.4	1.0	0.1598 ug/L	0.1598 ppb	16:50:39
2	S 181.975 Axial†	46.8	5.8	7.1833 ug/L	7.1833 ppb	16:50:39
2	Sb 206.836†	47.0	14.2	5.6030 ug/L	5.6030 ppb	16:50:39
2	Se 196.026†	-15.1	3.8	2.3131 ug/L	2.3131 ppb	16:50:39
2	Si 251.611†	595.0	44.7	1.5876 ug/L	1.5876 ppb	16:50:39
2	Sn 189.927†	15.7	2.7	0.6174 ug/L	0.6174 ppb	16:50:39
2	Ti 334.940†	-1289.7	43.2	0.0856 ug/L	0.0856 ppb	16:50:19
2	Tl 190.801†	-36.6	-1.0	-0.4384 ug/L	-0.4384 ppb	16:50:39
2	U 409.014†	-2420.1	-55.1	-1.8306 ug/L	-1.8306 ppb	16:50:19
2	V 292.402†	-1651.1	5.7	0.0469 ug/L	0.0469 ppb	16:50:19
2	Zn 213.857†	756.7	-39.5	-0.4272 ug/L	-0.4272 ppb	16:50:39
2	SiO2†	613.5	54.0	4.1199 ug/L	4.1199 ppb	16:51:15
3	Sc Radial	4746.7	4746.7	100.0 %		16:49:27
3	Y RADIAL	4980.1	4980.1	98.81 %		16:49:27
3	Al 396.153Radial†	-85.8	-3.4	-3.0575 ug/L	-3.0575 ppb	16:49:47
3	Ca 317.933Radial†	21.7	3.4	6.1074 ug/L	6.1074 ppb	16:49:47
3	Fe 238.204 Radial†	11.4	4.1	42.714 ug/L	42.714 ppb	16:49:47
3	K 766.490 Radial†	2652.1	346.1	65.346 ug/L	65.346 ppb	16:49:27
3	Mg 279.077 IEC†	0.1	-2.0	-80.571 ug/L	-80.571 ppb	16:49:47
3	Na 589.592 Radial†	-688.1	48.7	14.833 ug/L	14.833 ppb	16:49:27
3	Sr 421.552†	32.6	13.6	0.0970 ug/L	0.0970 ppb	16:49:27
3	Sc 361.383	788724.2	788724.2	99.736 %		16:50:44
3	Y 371.029	705770.3	705770.3	99.827 %		16:50:44
3	Ag 328.068†	160.8	-15.2	-0.0612 ug/L	-0.0612 ppb	16:50:44
3	As 188.979†	-21.8	6.7	2.9311 ug/L	2.9311 ppb	16:51:04
3	B 249.677†	248.7	473.6	11.769 ug/L	11.769 ppb	16:51:04
3	Ba 233.527†	0.6	4.7	0.0543 ug/L	0.0543 ppb	16:51:04
3	Be 313.107†	-9406.1	-98.5	-0.0383 ug/L	-0.0383 ppb	16:50:44
3	Cd 226.502†	-150.7	31.5	0.4274 ug/L	0.4274 ppb	16:51:04
3	Co 228.616†	-52.7	11.5	0.3405 ug/L	0.3405 ppb	16:51:04
3	Cr 267.716†	97.7	36.8	0.4925 ug/L	0.4925 ppb	16:51:04
3	Cu 324.752†	7686.4	-17.0	-0.0576 ug/L	-0.0576 ppb	16:50:44
3	Mn 257.610†	438.9	9.7	0.0227 ug/L	0.0227 ppb	16:51:04
3	Mo 202.031†	4.4	-7.6	-0.6817 ug/L	-0.6817 ppb	16:51:04
3	Ni 231.604†	75.8	-4.4	-0.1375 ug/L	-0.1375 ppb	16:51:04
3	P 214.914†	208.1	9.9	5.3501 ug/L	5.3501 ppb	16:51:04
3	Pb 220.353†	-66.0	-8.7	-1.3869 ug/L	-1.3869 ppb	16:51:04
3	S 181.975 Axial†	50.3	9.4	11.676 ug/L	11.676 ppb	16:51:04
3	Sb 206.836†	46.1	13.4	5.2787 ug/L	5.2787 ppb	16:51:04
3	Se 196.026†	-10.7	8.2	4.9835 ug/L	4.9835 ppb	16:51:04
3	Si 251.611†	586.5	36.9	1.3255 ug/L	1.3255 ppb	16:51:04
3	Sn 189.927†	25.9	12.9	2.9469 ug/L	2.9469 ppb	16:51:04
3	Ti 334.940†	-1268.9	62.5	0.1333 ug/L	0.1333 ppb	16:50:44
3	Tl 190.801†	-31.2	4.5	2.0223 ug/L	2.0223 ppb	16:51:04
3	U 409.014†	-2522.5	-160.5	-5.3290 ug/L	-5.3290 ppb	16:50:44
3	V 292.402†	-1721.9	-67.1	-0.5492 ug/L	-0.5492 ppb	16:50:44
3	Zn 213.857†	764.0	-31.3	-0.3412 ug/L	-0.3412 ppb	16:51:04
3	SiO2†	618.7	60.0	4.6102 ug/L	4.6102 ppb	16:51:20

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793590.0	100.35 %	0.968			0.96%
Sc Radial	4793.5	101 %	1.4			1.37%
Y 371.029	711209.9	100.60 %	1.101			1.09%
Y RADIAL	5060.3	100.4 %	2.05			2.04%
Ag 328.068†	24.6	0.1325 ug/L	0.19087	0.1325 ppb	0.19087	144.06%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.9	-1.7073 ug/L	4.19142	-1.7073 ppb	4.19142	245.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.8	3.4033 ug/L	0.71558	3.4033 ppb	0.71558	21.03%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	482.2	11.987 ug/L	0.4784	11.987 ppb	0.4784	3.99%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.9	0.0458 ug/L	0.14713	0.0458 ppb	0.14713	321.49%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-6.4	-0.0022 ug/L	0.03261	-0.0022 ppb	0.03261	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.3	2.3038 ug/L	3.71864	2.3038 ppb	3.71864	161.42%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	16.4	0.2225 ug/L	0.19378	0.2225 ppb	0.19378	87.10%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	8.0	0.2387 ug/L	0.13884	0.2387 ppb	0.13884	58.18%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	18.8	0.2522 ug/L	0.20816	0.2522 ppb	0.20816	82.55%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-64.0	-0.2339 ug/L	0.16257	-0.2339 ppb	0.16257	69.50%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	2.5	26.253 ug/L	14.2663	26.253 ppb	14.2663	54.34%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	356.5	67.303 ug/L	2.0388	67.303 ppb	2.0388	3.03%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.8	-31.174 ug/L	46.7375	-31.174 ppb	46.7375	149.93%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	20.5	0.0360 ug/L	0.01686	0.0360 ppb	0.01686	46.83%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-0.2	-0.0122 ug/L	0.63622	-0.0122 ppb	0.63622	>999.9%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	74.2	22.565 ug/L	9.2944	22.565 ppb	9.2944	41.19%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	5.4	0.1658 ug/L	0.33096	0.1658 ppb	0.33096	199.58%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	11.2	6.1078 ug/L	3.92026	6.1078 ppb	3.92026	64.18%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	1.0	0.1543 ug/L	1.53848	0.1543 ppb	1.53848	996.87%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	5.2	6.5016 ug/L	5.54716	6.5016 ppb	5.54716	85.32%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	13.1	5.1560 ug/L	0.51927	5.1560 ppb	0.51927	10.07%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	4.2	2.5548 ug/L	2.31730	2.5548 ppb	2.31730	90.70%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	42.8	1.5255 ug/L	0.17728	1.5255 ppb	0.17728	11.62%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	8.3	1.9006 ug/L	1.18267	1.9006 ppb	1.18267	62.23%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	3.0	0.0212 ug/L	0.09843	0.0212 ppb	0.09843	463.57%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	58.0	0.1182 ug/L	0.02825	0.1182 ppb	0.02825	23.91%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	2.6	1.1611 ug/L	1.38660	1.1611 ppb	1.38660	119.42%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-39.7	-1.3202 ug/L	4.28687	-1.3202 ppb	4.28687	324.71%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-11.8	-0.0986 ug/L	0.39829	-0.0986 ppb	0.39829	403.87%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-41.2	-0.4476 ug/L	0.11784	-0.4476 ppb	0.11784	26.33%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		47.4	3.6298 ug/L	1.29698	3.6298 ppb	1.29698	35.73%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: LR1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 3/4/2010 16:53:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4690.1	4690.1	98.8 %		16:55:25
1	Y RADIAL	4977.1	4977.1	98.75 %		16:55:25
1	Al 396.153Radial†	-110.5	-29.3	-25.557 ug/L	-25.557 ppb	16:55:45
1	Ca 317.933Radial†	13.4	-4.7	-8.4450 ug/L	-8.4450 ppb	16:55:45
1	Fe 238.204 Radial†	36469.2	36911.6	383090 ug/L	383090 ppb	16:55:25
1	K 766.490 Radial†	2275.1	-3.6	-0.6300 ug/L	-0.6300 ppb	16:55:25
1	Mg 279.077 IEC†	9.9	7.9	-90.518 ug/L	-90.518 ppb	16:55:45
1	Na 589.592 Radial†	-704.6	23.8	7.2475 ug/L	7.2475 ppb	16:55:25
1	Sr 421.552†	81.5	63.5	0.4529 ug/L	0.4529 ppb	16:55:25
1	Sc 361.383	784172.3	784172.3	99.160 %		16:56:43
1	Y 371.029	698904.4	698904.4	98.856 %		16:56:43
1	Ag 328.068†	-21924.3	-22286.4	5.9643 ug/L	5.9643 ppb	16:56:43
1	As 188.979†	-165.1	-137.9	29.877 ug/L	29.877 ppb	16:57:03
1	B 249.677†	1627.6	1865.6	-15.864 ug/L	-15.864 ppb	16:56:43
1	Ba 233.527†	-1480.7	-1489.2	-5.4968 ug/L	-5.4968 ppb	16:56:43
1	Be 313.107†	-9134.1	121.1	0.0471 ug/L	0.0471 ppb	16:56:43
1	Cd 226.502†	2629.8	2834.7	-0.5874 ug/L	-0.5874 ppb	16:56:43
1	Co 228.616†	474.6	542.9	10.553 ug/L	10.553 ppb	16:57:03
1	Cr 267.716†	-527.8	-593.5	-0.5217 ug/L	-0.5217 ppb	16:56:43
1	Cu 324.752†	1610.7	-6099.4	-2.2592 ug/L	-2.2592 ppb	16:56:43
1	Mn 257.610†	-26703.5	-27360.1	-5.1605 ug/L	-5.1605 ppb	16:56:43
1	Mo 202.031†	-285.1	-299.5	2.6599 ug/L	2.6599 ppb	16:56:43
1	Ni 231.604†	111.2	31.7	0.9682 ug/L	0.9682 ppb	16:57:03
1	P 214.914†	559.8	365.7	-105.78 ug/L	-105.78 ppb	16:57:03
1	Pb 220.353†	152.2	211.0	2.7376 ug/L	2.7376 ppb	16:57:03
1	S 181.975 Axial†	50.1	9.5	11.824 ug/L	11.824 ppb	16:57:03
1	Sb 206.836†	25.2	-7.4	-7.6834 ug/L	-7.6834 ppb	16:57:03
1	Se 196.026†	-1403.0	-1395.9	28.809 ug/L	28.809 ppb	16:57:03
1	Si 251.611†	-216.0	-769.0	-27.090 ug/L	-27.090 ppb	16:56:43
1	Sn 189.927†	-16.6	-29.8	-28.808 ug/L	-28.808 ppb	16:57:03
1	Ti 334.940†	-1391.3	-68.4	-0.1901 ug/L	-0.1901 ppb	16:56:43
1	Tl 190.801†	-34.4	1.0	0.0952 ug/L	0.0952 ppb	16:57:03
1	U 409.014†	-232.8	2133.8	27.099 ug/L	27.099 ppb	16:56:43
1	V 292.402†	5126.2	6829.0	-3.0028 ug/L	-3.0028 ppb	16:56:43
1	Zn 213.857†	3654.3	2887.9	-26.275 ug/L	-26.275 ppb	16:57:03
1	SiO2†	-173.9	-735.7	-55.557 ug/L	-55.557 ppb	16:58:00
2	Sc Radial	4665.0	4665.0	98.3 %		16:55:50
2	Y RADIAL	4918.6	4918.6	97.59 %		16:55:50
2	Al 396.153Radial†	-103.8	-23.1	-19.867 ug/L	-19.867 ppb	16:56:10
2	Ca 317.933Radial†	14.6	-3.4	-6.0681 ug/L	-6.0681 ppb	16:56:10
2	Fe 238.204 Radial†	36177.9	36813.8	382080 ug/L	382080 ppb	16:55:50
2	K 766.490 Radial†	2299.3	33.4	6.3539 ug/L	6.3539 ppb	16:55:50
2	Mg 279.077 IEC†	11.7	9.8	-11.889 ug/L	-11.889 ppb	16:56:10
2	Na 589.592 Radial†	-707.7	16.7	5.0950 ug/L	5.0950 ppb	16:55:50
2	Sr 421.552†	87.9	70.5	0.5026 ug/L	0.5026 ppb	16:55:50
2	Sc 361.383	777133.5	777133.5	98.270 %		16:57:09
2	Y 371.029	691875.0	691875.0	97.862 %		16:57:09
2	Ag 328.068†	-21626.8	-22183.9	6.1628 ug/L	6.1628 ppb	16:57:09
2	As 188.979†	-161.0	-135.2	30.794 ug/L	30.794 ppb	16:57:29
2	B 249.677†	1590.4	1842.6	-16.273 ug/L	-16.273 ppb	16:57:09
2	Ba 233.527†	-1520.2	-1542.9	-6.1527 ug/L	-6.1527 ppb	16:57:09
2	Be 313.107†	-9161.1	10.2	0.0034 ug/L	0.0034 ppb	16:57:09
2	Cd 226.502†	2598.2	2826.6	-0.5945 ug/L	-0.5945 ppb	16:57:09
2	Co 228.616†	499.8	572.9	11.460 ug/L	11.460 ppb	16:57:29
2	Cr 267.716†	-466.4	-535.9	0.2259 ug/L	0.2259 ppb	16:57:09
2	Cu 324.752†	1610.1	-6085.3	-2.2613 ug/L	-2.2613 ppb	16:57:09
2	Mn 257.610†	-26433.5	-27329.2	-5.2154 ug/L	-5.2154 ppb	16:57:09
2	Mo 202.031†	-283.0	-300.0	2.5397 ug/L	2.5397 ppb	16:57:09
2	Ni 231.604†	98.5	19.7	0.5989 ug/L	0.5989 ppb	16:57:29

2	P 214.914†	591.3	402.9	-84.785 ug/L	-84.785 ppb	16:57:29
2	Pb 220.353†	176.6	237.3	6.9863 ug/L	6.9863 ppb	16:57:29
2	S 181.975 Axial†	47.1	6.9	8.6066 ug/L	8.6066 ppb	16:57:29
2	Sb 206.836†	26.4	-6.0	-7.1318 ug/L	-7.1318 ppb	16:57:29
2	Se 196.026†	-1380.5	-1385.8	32.564 ug/L	32.564 ppb	16:57:29
2	Si 251.611†	-192.3	-746.8	-26.300 ug/L	-26.300 ppb	16:57:09
2	Sn 189.927†	-15.5	-28.8	-28.517 ug/L	-28.517 ppb	16:57:29
2	Ti 334.940†	-1431.0	-121.4	-0.3020 ug/L	-0.3020 ppb	16:57:09
2	Tl 190.801†	-36.1	-1.0	-0.8360 ug/L	-0.8360 ppb	16:57:29
2	U 409.014†	-203.1	2161.9	28.144 ug/L	28.144 ppb	16:57:09
2	V 292.402†	4965.9	6712.6	-3.7558 ug/L	-3.7558 ppb	16:57:09
2	Zn 213.857†	3653.6	2920.7	-25.769 ug/L	-25.769 ppb	16:57:29
2	SiO2†	-207.0	-771.0	-58.258 ug/L	-58.258 ppb	16:58:05
3	Sc Radial	4674.1	4674.1	98.4 %		16:56:15
3	Y RADIAL	4941.5	4941.5	98.04 %		16:56:15
3	Al 396.153Radial†	-98.9	-18.0	-15.241 ug/L	-15.241 ppb	16:56:35
3	Ca 317.933Radial†	13.0	-5.1	-9.0881 ug/L	-9.0881 ppb	16:56:35
3	Fe 238.204 Radial†	36474.2	37043.2	384460 ug/L	384460 ppb	16:56:15
3	K 766.490 Radial†	2349.0	79.4	15.044 ug/L	15.044 ppb	16:56:15
3	Mg 279.077 IEC†	7.6	5.6	-183.13 ug/L	-183.13 ppb	16:56:35
3	Na 589.592 Radial†	-697.8	28.2	8.5798 ug/L	8.5798 ppb	16:56:15
3	Sr 421.552†	53.6	35.5	0.2529 ug/L	0.2529 ppb	16:56:15
3	Sc 361.383	779911.6	779911.6	98.622 %		16:57:35
3	Y 371.029	694330.4	694330.4	98.209 %		16:57:35
3	Ag 328.068†	-21552.6	-22030.3	7.6695 ug/L	7.6695 ppb	16:57:35
3	As 188.979†	-160.7	-134.4	31.713 ug/L	31.713 ppb	16:57:55
3	B 249.677†	1576.0	1822.2	-17.166 ug/L	-17.166 ppb	16:57:35
3	Ba 233.527†	-1531.3	-1548.7	-6.1461 ug/L	-6.1461 ppb	16:57:35
3	Be 313.107†	-9201.9	2.0	0.0002 ug/L	0.0002 ppb	16:57:35
3	Cd 226.502†	2628.5	2847.9	-0.5473 ug/L	-0.5473 ppb	16:57:35
3	Co 228.616†	492.9	564.2	11.166 ug/L	11.166 ppb	16:57:55
3	Cr 267.716†	-452.6	-520.1	0.4827 ug/L	0.4827 ppb	16:57:35
3	Cu 324.752†	1452.3	-6251.1	-2.7468 ug/L	-2.7468 ppb	16:57:35
3	Mn 257.610†	-26281.8	-27079.6	-4.5811 ug/L	-4.5811 ppb	16:57:35
3	Mo 202.031†	-274.2	-290.0	3.6289 ug/L	3.6289 ppb	16:57:35
3	Ni 231.604†	112.3	33.4	1.0201 ug/L	1.0201 ppb	16:57:55
3	P 214.914†	574.5	383.7	-96.972 ug/L	-96.972 ppb	16:57:55
3	Pb 220.353†	147.7	207.3	2.0424 ug/L	2.0424 ppb	16:57:55
3	S 181.975 Axial†	55.4	15.1	18.744 ug/L	18.744 ppb	16:57:55
3	Sb 206.836†	15.3	-17.4	-11.531 ug/L	-11.531 ppb	16:57:55
3	Se 196.026†	-1367.1	-1367.2	48.911 ug/L	48.911 ppb	16:57:55
3	Si 251.611†	-221.0	-775.3	-27.327 ug/L	-27.327 ppb	16:57:35
3	Sn 189.927†	-1.9	-15.0	-25.499 ug/L	-25.499 ppb	16:57:55
3	Ti 334.940†	-1452.2	-137.7	-0.3209 ug/L	-0.3209 ppb	16:57:35
3	Tl 190.801†	-45.0	-9.9	-4.8850 ug/L	-4.8850 ppb	16:57:55
3	U 409.014†	-207.3	2158.5	27.757 ug/L	27.757 ppb	16:57:35
3	V 292.402†	5076.7	6807.0	-3.3609 ug/L	-3.3609 ppb	16:57:35
3	Zn 213.857†	3625.5	2878.9	-26.576 ug/L	-26.576 ppb	16:57:55
3	SiO2†	-270.5	-834.6	-63.154 ug/L	-63.154 ppb	16:58:10

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	780405.8	98.684 %		0.4483			0.45%
Sc Radial	4676.4	98.5 %		0.27			0.27%
Y 371.029	695036.6	98.309 %		0.5046			0.51%
Y RADIAL	4945.8	98.13 %		0.585			0.60%
Ag 328.068†	-22166.9	6.5989 ug/L		0.93251	6.5989 ppb	0.93251	14.13%
Al 396.153Radial†	-23.5	-20.222 ug/L		5.1668	-20.222 ppb	5.1668	25.55%
As 188.979†	-135.8	30.795 ug/L		0.9177	30.795 ppb	0.9177	2.98%
B 249.677†	1843.5	-16.434 ug/L		0.6661	-16.434 ppb	0.6661	4.05%
Ba 233.527†	-1526.9	-5.9319 ug/L		0.37680	-5.9319 ppb	0.37680	6.35%
Be 313.107†	44.4	0.0169 ug/L		0.02618	0.0169 ppb	0.02618	155.10%
Ca 317.933Radial†	-4.4	-7.8671 ug/L		1.59081	-7.8671 ppb	1.59081	20.22%
Cd 226.502†	2836.4	-0.5764 ug/L		0.02544	-0.5764 ppb	0.02544	4.41%
Co 228.616†	560.0	11.059 ug/L		0.4628	11.059 ppb	0.4628	4.18%
Cr 267.716†	-549.8	0.0623 ug/L		0.52179	0.0623 ppb	0.52179	837.58%
Cu 324.752†	-6145.3	-2.4224 ug/L		0.28092	-2.4224 ppb	0.28092	11.60%
Fe 238.204 Radial†	36922.8	383210 ug/L		1195.1	383210 ppb	1195.1	0.31%
K 766.490 Radial†	36.4	6.9226 ug/L		7.85244	6.9226 ppb	7.85244	113.43%

Mg 279.077 IEC†	7.8	-95.179 ug/L	85.7152	-95.179 ppb	85.7152	90.06%
Mn 257.610†	-27256.3	-4.9857 ug/L	0.35145	-4.9857 ppb	0.35145	7.05%
Mo 202.031†	-296.5	2.9428 ug/L	0.59720	2.9428 ppb	0.59720	20.29%
Na 589.592 Radial†	22.9	6.9741 ug/L	1.75841	6.9741 ppb	1.75841	25.21%
Ni 231.604†	28.3	0.8624 ug/L	0.22969	0.8624 ppb	0.22969	26.63%
P 214.914†	384.1	-95.845 ug/L	10.5412	-95.845 ppb	10.5412	11.00%
Pb 220.353†	218.5	3.9221 ug/L	2.67634	3.9221 ppb	2.67634	68.24%
S 181.975 Axial†	10.5	13.058 ug/L	5.1804	13.058 ppb	5.1804	39.67%
Sb 206.836†	-10.3	-8.7822 ug/L	2.39679	-8.7822 ppb	2.39679	27.29%
Se 196.026†	-1383.0	36.761 ug/L	10.6883	36.761 ppb	10.6883	29.07%
Si 251.611†	-763.7	-26.906 ug/L	0.5379	-26.906 ppb	0.5379	2.00%
Sn 189.927†	-24.5	-27.608 ug/L	1.8326	-27.608 ppb	1.8326	6.64%
Sr 421.552†	56.5	0.4028 ug/L	0.13217	0.4028 ppb	0.13217	32.81%
Ti 334.940†	-109.2	-0.2710 ug/L	0.07066	-0.2710 ppb	0.07066	26.08%
Tl 190.801†	-3.3	-1.8753 ug/L	2.64779	-1.8753 ppb	2.64779	141.19%
U 409.014†	2151.4	27.667 ug/L	0.5286	27.667 ppb	0.5286	1.91%
V 292.402†	6782.9	-3.3732 ug/L	0.37661	-3.3732 ppb	0.37661	11.16%
Zn 213.857†	2895.8	-26.206 ug/L	0.4078	-26.206 ppb	0.4078	1.56%
SiO2†	-780.4	-58.990 ug/L	3.8511	-58.990 ppb	3.8511	6.53%

Sequence No.: 4
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/4/2010 17:00:22
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4878.8	4878.8	103 %		17:02:14
1	Y RADIAL	5109.7	5109.7	101.4 %		17:02:14
1	Al 396.153Radial†	5354.4	5293.2	4823.2 ug/L	4823.2 ppb	17:02:14
1	Ca 317.933Radial†	2814.8	2721.0	4869.4 ug/L	4869.4 ppb	17:02:34
1	Fe 238.204 Radial†	502.5	481.8	5015.1 ug/L	5015.1 ppb	17:02:34
1	K 766.490 Radial†	29813.5	26707.0	5036.8 ug/L	5036.8 ppb	17:02:14
1	Mg 279.077 IEC†	132.8	127.1	5007.6 ug/L	5007.6 ppb	17:02:34
1	Na 589.592 Radial†	32860.5	32716.1	9955.1 ug/L	9955.1 ppb	17:02:14
1	Sr 421.552†	72629.0	70661.8	503.49 ug/L	503.49 ppb	17:02:14
1	Sc 361.383	805084.9	805084.9	101.80 %		17:03:31
1	Y 371.029	712449.3	712449.3	100.77 %		17:03:31
1	Ag 328.068†	99041.0	97108.7	490.83 ug/L	490.83 ppb	17:03:36
1	As 188.979†	1122.9	1131.6	496.10 ug/L	496.10 ppb	17:03:57
1	B 249.677†	19877.3	19749.1	488.88 ug/L	488.88 ppb	17:03:36
1	Ba 233.527†	42995.6	42237.4	491.04 ug/L	491.04 ppb	17:03:36
1	Be 313.107†	1254680.7	1241769.7	486.93 ug/L	486.93 ppb	17:03:31
1	Cd 226.502†	36350.0	35888.2	493.25 ug/L	493.25 ppb	17:03:36
1	Co 228.616†	17100.2	16861.4	501.72 ug/L	501.72 ppb	17:03:36
1	Cr 267.716†	37567.9	36840.7	491.84 ug/L	491.84 ppb	17:03:36
1	Cu 324.752†	141287.0	131058.5	483.39 ug/L	483.39 ppb	17:03:36
1	Mn 257.610†	317722.4	311659.3	489.93 ug/L	489.93 ppb	17:03:36
1	Mo 202.031†	5495.6	5386.2	487.41 ug/L	487.41 ppb	17:03:57
1	Ni 231.604†	16331.6	15961.5	492.48 ug/L	492.48 ppb	17:03:36
1	P 214.914†	4768.9	4485.5	2339.0 ug/L	2339.0 ppb	17:03:57
1	Pb 220.353†	3095.3	3098.0	493.54 ug/L	493.54 ppb	17:03:57
1	S 181.975 Axial†	844.1	788.1	978.10 ug/L	978.10 ppb	17:03:57
1	Sb 206.836†	1259.1	1203.9	489.51 ug/L	489.51 ppb	17:03:57
1	Se 196.026†	815.7	820.2	500.12 ug/L	500.12 ppb	17:03:57
1	Si 251.611†	69873.9	68084.0	2422.1 ug/L	2422.1 ppb	17:03:36
1	Sn 189.927†	2182.9	2131.1	487.62 ug/L	487.62 ppb	17:03:57
1	Ti 334.940†	248374.9	245306.3	485.83 ug/L	485.83 ppb	17:03:36
1	Tl 190.801†	1063.5	1080.3	493.00 ug/L	493.00 ppb	17:03:57
1	U 409.014†	12509.0	14655.9	484.29 ug/L	484.29 ppb	17:03:36
1	V 292.402†	62342.3	62896.4	494.90 ug/L	494.90 ppb	17:03:36
1	Zn 213.857†	47247.9	45613.0	485.58 ug/L	485.58 ppb	17:03:36
1	SiO2†	70676.2	68862.9	5256.3 ug/L	5256.3 ppb	17:05:04
2	Sc Radial	4751.5	4751.5	100 %		17:02:39
2	Y RADIAL	5026.2	5026.2	99.72 %		17:02:39
2	Al 396.153Radial†	5197.6	5276.2	4807.7 ug/L	4807.7 ppb	17:02:39
2	Ca 317.933Radial†	2782.7	2762.3	4943.3 ug/L	4943.3 ppb	17:02:59
2	Fe 238.204 Radial†	496.4	488.8	5087.9 ug/L	5087.9 ppb	17:02:59
2	K 766.490 Radial†	29228.9	26900.3	5073.3 ug/L	5073.3 ppb	17:02:39
2	Mg 279.077 IEC†	135.8	133.6	5263.4 ug/L	5263.4 ppb	17:02:59
2	Na 589.592 Radial†	32100.2	32813.2	9984.7 ug/L	9984.7 ppb	17:02:39
2	Sr 421.552†	70734.0	70662.0	503.49 ug/L	503.49 ppb	17:02:39
2	Sc 361.383	806603.0	806603.0	102.00 %		17:04:02
2	Y 371.029	712985.5	712985.5	100.85 %		17:04:02
2	Ag 328.068†	98105.2	96008.2	485.31 ug/L	485.31 ppb	17:04:07
2	As 188.979†	1117.0	1123.8	492.67 ug/L	492.67 ppb	17:04:27
2	B 249.677†	19677.3	19516.3	483.09 ug/L	483.09 ppb	17:04:07
2	Ba 233.527†	42801.8	41967.9	487.90 ug/L	487.90 ppb	17:04:07
2	Be 313.107†	1263239.3	1247841.3	489.29 ug/L	489.29 ppb	17:04:02
2	Cd 226.502†	36268.2	35740.8	491.21 ug/L	491.21 ppb	17:04:07
2	Co 228.616†	17045.6	16776.2	499.19 ug/L	499.19 ppb	17:04:07
2	Cr 267.716†	37363.2	36570.5	488.23 ug/L	488.23 ppb	17:04:07
2	Cu 324.752†	139742.8	129283.3	476.85 ug/L	476.85 ppb	17:04:07
2	Mn 257.610†	315857.8	309243.8	486.13 ug/L	486.13 ppb	17:04:07
2	Mo 202.031†	5489.6	5370.1	485.96 ug/L	485.96 ppb	17:04:27
2	Ni 231.604†	16305.9	15906.2	490.77 ug/L	490.77 ppb	17:04:07

2	P 214.914†	4785.7	4493.2	2344.4 ug/L	2344.4 ppb	17:04:27
2	Pb 220.353†	3082.5	3079.7	490.64 ug/L	490.64 ppb	17:04:27
2	S 181.975 Axial†	837.2	779.8	967.78 ug/L	967.78 ppb	17:04:27
2	Sb 206.836†	1278.9	1221.0	496.17 ug/L	496.17 ppb	17:04:27
2	Se 196.026†	805.4	808.6	493.39 ug/L	493.39 ppb	17:04:27
2	Si 251.611†	69269.2	67362.0	2396.4 ug/L	2396.4 ppb	17:04:07
2	Sn 189.927†	2188.7	2132.8	488.01 ug/L	488.01 ppb	17:04:27
2	Ti 334.940†	246033.0	242551.2	480.37 ug/L	480.37 ppb	17:04:07
2	Tl 190.801†	1061.8	1076.7	491.33 ug/L	491.33 ppb	17:04:27
2	U 409.014†	12337.3	14464.4	477.94 ug/L	477.94 ppb	17:04:07
2	V 292.402†	61867.0	62315.1	490.36 ug/L	490.36 ppb	17:04:07
2	Zn 213.857†	46945.7	45229.4	481.46 ug/L	481.46 ppb	17:04:07
2	SiO2†	69750.1	67824.3	5176.9 ug/L	5176.9 ppb	17:05:09
3	Sc Radial	4820.6	4820.6	102 %		17:03:04
3	Y RADIAL	5055.0	5055.0	100.3 %		17:03:04
3	Al 396.153Radial†	5241.0	5244.5	4778.4 ug/L	4778.4 ppb	17:03:04
3	Ca 317.933Radial†	2769.2	2709.3	4848.3 ug/L	4848.3 ppb	17:03:24
3	Fe 238.204 Radial†	492.0	477.3	4968.8 ug/L	4968.8 ppb	17:03:24
3	K 766.490 Radial†	29323.6	26575.0	5012.0 ug/L	5012.0 ppb	17:03:04
3	Mg 279.077 IEC†	130.7	126.6	4990.1 ug/L	4990.1 ppb	17:03:24
3	Na 589.592 Radial†	32138.6	32391.3	9856.3 ug/L	9856.3 ppb	17:03:04
3	Sr 421.552†	71179.1	70087.4	499.40 ug/L	499.40 ppb	17:03:04
3	Sc 361.383	798141.5	798141.5	100.93 %		17:04:33
3	Y 371.029	705830.0	705830.0	99.836 %		17:04:33
3	Ag 328.068†	98723.2	97640.2	493.50 ug/L	493.50 ppb	17:04:38
3	As 188.979†	1110.9	1129.3	495.12 ug/L	495.12 ppb	17:04:58
3	B 249.677†	19823.6	19865.8	491.78 ug/L	491.78 ppb	17:04:38
3	Ba 233.527†	43035.4	42644.2	495.76 ug/L	495.76 ppb	17:04:38
3	Be 313.107†	1250939.3	1248784.3	489.68 ug/L	489.68 ppb	17:04:33
3	Cd 226.502†	36400.2	36248.6	498.21 ug/L	498.21 ppb	17:04:38
3	Co 228.616†	17135.3	17042.3	507.11 ug/L	507.11 ppb	17:04:38
3	Cr 267.716†	37627.8	37221.1	496.92 ug/L	496.92 ppb	17:04:38
3	Cu 324.752†	140905.0	131887.3	486.45 ug/L	486.45 ppb	17:04:38
3	Mn 257.610†	317738.2	314389.9	494.21 ug/L	494.21 ppb	17:04:38
3	Mo 202.031†	5487.8	5425.4	490.95 ug/L	490.95 ppb	17:04:58
3	Ni 231.604†	16346.1	16115.5	497.23 ug/L	497.23 ppb	17:04:38
3	P 214.914†	4750.6	4508.1	2350.7 ug/L	2350.7 ppb	17:04:58
3	Pb 220.353†	3072.8	3102.1	494.19 ug/L	494.19 ppb	17:04:58
3	S 181.975 Axial†	829.4	780.7	968.93 ug/L	968.93 ppb	17:04:58
3	Sb 206.836†	1270.7	1226.2	498.36 ug/L	498.36 ppb	17:04:58
3	Se 196.026†	804.3	815.9	497.45 ug/L	497.45 ppb	17:04:58
3	Si 251.611†	69698.5	68507.3	2437.2 ug/L	2437.2 ppb	17:04:38
3	Sn 189.927†	2174.4	2141.3	489.95 ug/L	489.95 ppb	17:04:58
3	Ti 334.940†	247823.8	246882.7	488.95 ug/L	488.95 ppb	17:04:38
3	Tl 190.801†	1042.4	1068.5	487.67 ug/L	487.67 ppb	17:04:58
3	U 409.014†	12336.1	14591.4	482.15 ug/L	482.15 ppb	17:04:38
3	V 292.402†	62384.6	63471.0	499.41 ug/L	499.41 ppb	17:04:38
3	Zn 213.857†	47323.6	46091.8	490.69 ug/L	490.69 ppb	17:04:38
3	SiO2†	69103.6	67908.7	5183.2 ug/L	5183.2 ppb	17:05:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	803276.5	101.58 %	0.570			0.56%
Sc Radial	4816.9	101 %	1.3			1.32%
Y 371.029	710421.6	100.49 %	0.564			0.56%
Y RADIAL	5063.6	100.5 %	0.84			0.84%
Ag 328.068†	96919.0	489.88 ug/L	4.179	489.88 ppb	4.179	0.85%
QC value within limits for Ag 328.068 Recovery = 97.98%						
Al 396.153Radial†	5271.3	4803.1 ug/L	22.76	4803.1 ppb	22.76	0.47%
QC value within limits for Al 396.153Radial Recovery = 96.06%						
As 188.979†	1128.2	494.63 ug/L	1.767	494.63 ppb	1.767	0.36%
QC value within limits for As 188.979 Recovery = 98.93%						
B 249.677†	19710.4	487.92 ug/L	4.424	487.92 ppb	4.424	0.91%
QC value within limits for B 249.677 Recovery = 97.58%						
Ba 233.527†	42283.2	491.57 ug/L	3.956	491.57 ppb	3.956	0.80%
QC value within limits for Ba 233.527 Recovery = 98.31%						
Be 313.107†	1246131.8	488.63 ug/L	1.489	488.63 ppb	1.489	0.30%
QC value within limits for Be 313.107 Recovery = 97.73%						
Ca 317.933Radial†	2730.9	4887.0 ug/L	49.86	4887.0 ppb	49.86	1.02%

QC value within limits for Ca 317.933 Radial Recovery = 97.74%							
Cd 226.502†	35959.2	494.22 ug/L	3.600	494.22 ppb	3.600	0.73%	
QC value within limits for Cd 226.502 Recovery = 98.84%							
Co 228.616†	16893.3	502.67 ug/L	4.041	502.67 ppb	4.041	0.80%	
QC value within limits for Co 228.616 Recovery = 100.53%							
Cr 267.716†	36877.4	492.33 ug/L	4.363	492.33 ppb	4.363	0.89%	
QC value within limits for Cr 267.716 Recovery = 98.47%							
Cu 324.752†	130743.1	482.23 ug/L	4.902	482.23 ppb	4.902	1.02%	
QC value within limits for Cu 324.752 Recovery = 96.45%							
Fe 238.204 Radial†	482.6	5023.9 ug/L	60.02	5023.9 ppb	60.02	1.19%	
QC value within limits for Fe 238.204 Radial Recovery = 100.48%							
K 766.490 Radial†	26727.4	5040.7 ug/L	30.86	5040.7 ppb	30.86	0.61%	
QC value within limits for K 766.490 Radial Recovery = 100.81%							
Mg 279.077 IEC†	129.1	5087.0 ug/L	153.01	5087.0 ppb	153.01	3.01%	
QC value within limits for Mg 279.077 IEC Recovery = 101.74%							
Mn 257.610†	311764.3	490.09 ug/L	4.045	490.09 ppb	4.045	0.83%	
QC value within limits for Mn 257.610 Recovery = 98.02%							
Mo 202.031†	5393.9	488.11 ug/L	2.567	488.11 ppb	2.567	0.53%	
QC value within limits for Mo 202.031 Recovery = 97.62%							
Na 589.592 Radial†	32640.2	9932.0 ug/L	67.23	9932.0 ppb	67.23	0.68%	
QC value within limits for Na 589.592 Radial Recovery = 99.32%							
Ni 231.604†	15994.4	493.49 ug/L	3.347	493.49 ppb	3.347	0.68%	
QC value within limits for Ni 231.604 Recovery = 98.70%							
P 214.914†	4495.6	2344.7 ug/L	5.87	2344.7 ppb	5.87	0.25%	
QC value within limits for P 214.914 Recovery = 93.79%							
Pb 220.353†	3093.2	492.79 ug/L	1.894	492.79 ppb	1.894	0.38%	
QC value within limits for Pb 220.353 Recovery = 98.56%							
S 181.975 Axial†	782.9	971.60 ug/L	5.657	971.60 ppb	5.657	0.58%	
QC value within limits for S 181.975 Axial Recovery = 97.16%							
Sb 206.836†	1217.0	494.68 ug/L	4.609	494.68 ppb	4.609	0.93%	
QC value within limits for Sb 206.836 Recovery = 98.94%							
Se 196.026†	814.9	496.99 ug/L	3.390	496.99 ppb	3.390	0.68%	
QC value within limits for Se 196.026 Recovery = 99.40%							
Si 251.611†	67984.4	2418.6 ug/L	20.62	2418.6 ppb	20.62	0.85%	
QC value within limits for Si 251.611 Recovery = 96.74%							
Sn 189.927†	2135.1	488.53 ug/L	1.251	488.53 ppb	1.251	0.26%	
QC value within limits for Sn 189.927 Recovery = 97.71%							
Sr 421.552†	70470.4	502.12 ug/L	2.363	502.12 ppb	2.363	0.47%	
QC value within limits for Sr 421.552 Recovery = 100.42%							
Ti 334.940†	244913.4	485.05 ug/L	4.346	485.05 ppb	4.346	0.90%	
QC value within limits for Ti 334.940 Recovery = 97.01%							
Tl 190.801†	1075.2	490.67 ug/L	2.726	490.67 ppb	2.726	0.56%	
QC value within limits for Tl 190.801 Recovery = 98.13%							
U 409.014†	14570.6	481.46 ug/L	3.229	481.46 ppb	3.229	0.67%	
QC value within limits for U 409.014 Recovery = 96.29%							
V 292.402†	62894.2	494.89 ug/L	4.527	494.89 ppb	4.527	0.91%	
QC value within limits for V 292.402 Recovery = 98.98%							
Zn 213.857†	45644.7	485.91 ug/L	4.624	485.91 ppb	4.624	0.95%	
QC value within limits for Zn 213.857 Recovery = 97.18%							
SiO2†	68198.6	5205.5 ug/L	44.15	5205.5 ppb	44.15	0.85%	
QC value within limits for SiO2 Recovery = 97.34%							

All analyte(s) passed QC.

Sequence No.: 5

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/4/2010 17:07:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4796.4	4796.4	101 %			17:09:16
1	Y RADIAL	5076.9	5076.9	100.7 %			17:09:16
1	Al 396.153Radial†	-90.7	-7.3	-6.6782 ug/L	-6.6782 ppb		17:09:36
1	Ca 317.933Radial†	23.3	4.8	8.5893 ug/L	8.5893 ppb		17:09:36
1	Fe 238.204 Radial†	9.8	2.4	24.933 ug/L	24.933 ppb		17:09:36
1	K 766.490 Radial†	2521.7	189.4	35.771 ug/L	35.771 ppb		17:09:16
1	Mg 279.077 IEC†	0.9	-1.3	-50.045 ug/L	-50.045 ppb		17:09:36
1	Na 589.592 Radial†	-760.1	-15.3	-4.6588 ug/L	-4.6588 ppb		17:09:16
1	Sr 421.552†	4.5	-14.5	-0.1034 ug/L	-0.1034 ppb		17:09:16
1	Sc 361.383	786234.8	786234.8	99.421 %			17:10:33
1	Y 371.029	704344.5	704344.5	99.626 %			17:10:33
1	Ag 328.068†	159.7	-15.8	-0.0677 ug/L	-0.0677 ppb		17:10:33
1	As 188.979†	-14.3	14.3	6.2026 ug/L	6.2026 ppb		17:10:53
1	B 249.677†	139.3	364.3	9.0556 ug/L	9.0556 ppb		17:10:53
1	Ba 233.527†	7.9	12.0	0.1398 ug/L	0.1398 ppb		17:10:53
1	Be 313.107†	-9317.1	-38.8	-0.0156 ug/L	-0.0156 ppb		17:10:33
1	Cd 226.502†	-182.8	-1.2	-0.0204 ug/L	-0.0204 ppb		17:10:53
1	Co 228.616†	-51.5	12.5	0.3735 ug/L	0.3735 ppb		17:10:53
1	Cr 267.716†	68.2	7.4	0.1011 ug/L	0.1011 ppb		17:10:53
1	Cu 324.752†	7576.7	-103.0	-0.3763 ug/L	-0.3763 ppb		17:10:33
1	Mn 257.610†	431.7	3.8	0.0104 ug/L	0.0104 ppb		17:10:53
1	Mo 202.031†	14.3	2.4	0.2156 ug/L	0.2156 ppb		17:10:53
1	Ni 231.604†	83.5	3.5	0.1080 ug/L	0.1080 ppb		17:10:53
1	P 214.914†	209.9	12.3	6.7461 ug/L	6.7461 ppb		17:10:53
1	Pb 220.353†	-53.0	4.2	0.6664 ug/L	0.6664 ppb		17:10:53
1	S 181.975 Axial†	39.0	-1.8	-2.2918 ug/L	-2.2918 ppb		17:10:53
1	Sb 206.836†	31.7	-1.0	-0.3308 ug/L	-0.3308 ppb		17:10:53
1	Se 196.026†	-13.5	5.4	3.2495 ug/L	3.2495 ppb		17:10:53
1	Si 251.611†	582.3	34.5	1.2274 ug/L	1.2274 ppb		17:10:53
1	Sn 189.927†	24.0	11.0	2.5231 ug/L	2.5231 ppb		17:10:53
1	Ti 334.940†	-1423.1	-96.7	-0.1845 ug/L	-0.1845 ppb		17:10:33
1	Tl 190.801†	-26.2	9.4	4.2573 ug/L	4.2573 ppb		17:10:53
1	U 409.014†	-2474.2	-120.0	-3.9827 ug/L	-3.9827 ppb		17:10:33
1	V 292.402†	-1624.3	25.6	0.1898 ug/L	0.1898 ppb		17:10:33
1	Zn 213.857†	732.1	-61.0	-0.6589 ug/L	-0.6589 ppb		17:10:53
1	SiO2†	562.2	5.2	0.3899 ug/L	0.3899 ppb		17:11:49
2	Sc Radial	4691.6	4691.6	98.8 %			17:09:41
2	Y RADIAL	4963.5	4963.5	98.48 %			17:09:41
2	Al 396.153Radial†	-80.9	0.6	0.5261 ug/L	0.5261 ppb		17:10:02
2	Ca 317.933Radial†	17.8	-0.3	-0.5182 ug/L	-0.5182 ppb		17:10:02
2	Fe 238.204 Radial†	7.1	-0.1	-1.2262 ug/L	-1.2262 ppb		17:10:02
2	K 766.490 Radial†	2451.4	174.1	32.870 ug/L	32.870 ppb		17:09:41
2	Mg 279.077 IEC†	0.7	-1.4	-56.154 ug/L	-56.154 ppb		17:10:02
2	Na 589.592 Radial†	-733.6	-5.4	-1.6328 ug/L	-1.6328 ppb		17:09:41
2	Sr 421.552†	51.7	33.4	0.2380 ug/L	0.2380 ppb		17:09:41
2	Sc 361.383	796740.0	796740.0	100.75 %			17:10:59
2	Y 371.029	714042.7	714042.7	101.00 %			17:10:59
2	Ag 328.068†	227.5	49.4	0.2515 ug/L	0.2515 ppb		17:10:59
2	As 188.979†	-23.6	5.2	2.2453 ug/L	2.2453 ppb		17:11:19
2	B 249.677†	94.0	317.5	7.8957 ug/L	7.8957 ppb		17:11:19
2	Ba 233.527†	-12.2	-8.1	-0.0941 ug/L	-0.0941 ppb		17:11:19
2	Be 313.107†	-9386.7	15.6	0.0063 ug/L	0.0063 ppb		17:10:59
2	Cd 226.502†	-179.6	4.4	0.0592 ug/L	0.0592 ppb		17:11:19
2	Co 228.616†	-59.2	5.6	0.1664 ug/L	0.1664 ppb		17:11:19
2	Cr 267.716†	66.7	5.0	0.0687 ug/L	0.0687 ppb		17:11:19
2	Cu 324.752†	7751.3	-30.1	-0.1081 ug/L	-0.1081 ppb		17:10:59
2	Mn 257.610†	439.5	5.7	0.0112 ug/L	0.0112 ppb		17:11:19
2	Mo 202.031†	12.4	0.4	0.0340 ug/L	0.0340 ppb		17:11:19
2	Ni 231.604†	85.8	4.7	0.1445 ug/L	0.1445 ppb		17:11:19

2	P 214.914†	203.8	3.4	1.8676 ug/L	1.8676 ppb	17:11:19
2	Pb 220.353†	-41.1	16.7	2.6532 ug/L	2.6532 ppb	17:11:19
2	S 181.975 Axial†	43.1	1.8	2.2160 ug/L	2.2160 ppb	17:11:19
2	Sb 206.836†	32.8	-0.3	-0.1154 ug/L	-0.1154 ppb	17:11:19
2	Se 196.026†	-26.9	-7.7	-4.5852 ug/L	-4.5852 ppb	17:11:19
2	Si 251.611†	576.0	20.5	0.7311 ug/L	0.7311 ppb	17:11:19
2	Sn 189.927†	13.9	0.8	0.1750 ug/L	0.1750 ppb	17:11:19
2	Ti 334.940†	-1305.1	39.4	0.0850 ug/L	0.0850 ppb	17:10:59
2	Tl 190.801†	-34.8	1.2	0.5438 ug/L	0.5438 ppb	17:11:19
2	U 409.014†	-2557.1	-169.4	-5.6176 ug/L	-5.6176 ppb	17:10:59
2	V 292.402†	-1696.0	-24.1	-0.1983 ug/L	-0.1983 ppb	17:10:59
2	Zn 213.857†	722.5	-80.2	-0.8620 ug/L	-0.8620 ppb	17:11:19
2	SiO2†	595.3	30.6	2.3391 ug/L	2.3391 ppb	17:11:54
3	Sc Radial	4738.8	4738.8	99.8 %		17:10:07
3	Y RADIAL	4993.9	4993.9	99.08 %		17:10:07
3	Al 396.153Radial†	-98.6	-16.3	-14.958 ug/L	-14.958 ppb	17:10:27
3	Ca 317.933Radial†	19.9	1.7	3.0657 ug/L	3.0657 ppb	17:10:27
3	Fe 238.204 Radial†	9.0	1.7	17.805 ug/L	17.805 ppb	17:10:27
3	K 766.490 Radial†	2409.4	107.3	20.262 ug/L	20.262 ppb	17:10:07
3	Mg 279.077 IEC†	0.9	-1.2	-48.729 ug/L	-48.729 ppb	17:10:27
3	Na 589.592 Radial†	-763.9	-28.3	-8.6091 ug/L	-8.6091 ppb	17:10:07
3	Sr 421.552†	15.9	-3.0	-0.0214 ug/L	-0.0214 ppb	17:10:07
3	Sc 361.383	794472.1	794472.1	100.46 %		17:11:24
3	Y 371.029	710811.7	710811.7	100.54 %		17:11:24
3	Ag 328.068†	79.9	-97.0	-0.4872 ug/L	-0.4872 ppb	17:11:24
3	As 188.979†	-25.9	2.8	1.2294 ug/L	1.2294 ppb	17:11:44
3	B 249.677†	75.1	299.0	7.4319 ug/L	7.4319 ppb	17:11:44
3	Ba 233.527†	-14.0	-9.9	-0.1139 ug/L	-0.1139 ppb	17:11:44
3	Be 313.107†	-9449.2	-73.2	-0.0286 ug/L	-0.0286 ppb	17:11:24
3	Cd 226.502†	-165.2	18.2	0.2493 ug/L	0.2493 ppb	17:11:44
3	Co 228.616†	-59.1	5.5	0.1631 ug/L	0.1631 ppb	17:11:44
3	Cr 267.716†	85.9	24.3	0.3217 ug/L	0.3217 ppb	17:11:44
3	Cu 324.752†	7782.4	22.9	0.0810 ug/L	0.0810 ppb	17:11:24
3	Mn 257.610†	424.3	-8.1	-0.0090 ug/L	-0.0090 ppb	17:11:44
3	Mo 202.031†	10.4	-1.7	-0.1482 ug/L	-0.1482 ppb	17:11:44
3	Ni 231.604†	70.3	-10.5	-0.3253 ug/L	-0.3253 ppb	17:11:44
3	P 214.914†	214.1	14.3	7.7136 ug/L	7.7136 ppb	17:11:44
3	Pb 220.353†	-77.6	-19.7	-3.1366 ug/L	-3.1366 ppb	17:11:44
3	S 181.975 Axial†	47.1	5.9	7.2705 ug/L	7.2705 ppb	17:11:44
3	Sb 206.836†	42.5	9.4	3.6912 ug/L	3.6912 ppb	17:11:44
3	Se 196.026†	-25.4	-6.4	-3.7345 ug/L	-3.7345 ppb	17:11:44
3	Si 251.611†	584.9	31.1	1.1094 ug/L	1.1094 ppb	17:11:44
3	Sn 189.927†	13.4	0.2	0.0556 ug/L	0.0556 ppb	17:11:44
3	Ti 334.940†	-1338.1	2.8	0.0065 ug/L	0.0065 ppb	17:11:24
3	Tl 190.801†	-29.5	6.3	2.8516 ug/L	2.8516 ppb	17:11:44
3	U 409.014†	-2145.3	233.2	7.7298 ug/L	7.7298 ppb	17:11:24
3	V 292.402†	-1644.0	22.9	0.1868 ug/L	0.1868 ppb	17:11:24
3	Zn 213.857†	721.0	-79.6	-0.8561 ug/L	-0.8561 ppb	17:11:44
3	SiO2†	573.2	10.2	0.7874 ug/L	0.7874 ppb	17:11:59

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	792482.3	100.21 %	0.699			0.70%
Sc Radial	4742.3	99.9 %	1.11			1.11%
Y 371.029	709733.0	100.39 %	0.698			0.70%
Y RADIAL	5011.4	99.43 %	1.164			1.17%
Ag 328.068†	-21.1	-0.1012 ug/L	0.37049	-0.1012 ppb	0.37049	366.25%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.7	-7.0367 ug/L	7.74835	-7.0367 ppb	7.74835	110.11%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.4	3.2258 ug/L	2.62760	3.2258 ppb	2.62760	81.46%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	326.9	8.1278 ug/L	0.83635	8.1278 ppb	0.83635	10.29%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-2.0	-0.0227 ug/L	0.14112	-0.0227 ppb	0.14112	621.33%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-32.1	-0.0127 ug/L	0.01764	-0.0127 ppb	0.01764	139.43%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.1	3.7123 ug/L	4.58803	3.7123 ppb	4.58803	123.59%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	7.1	0.0961 ug/L	0.13855	0.0961 ppb	0.13855	144.25%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	7.9	0.2343 ug/L	0.12052	0.2343 ppb	0.12052	51.44%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	12.2	0.1638 ug/L	0.13768	0.1638 ppb	0.13768	84.03%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-36.7	-0.1345 ug/L	0.22977	-0.1345 ppb	0.22977	170.89%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.3	13.837 ug/L	13.5233	13.837 ppb	13.5233	97.73%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	156.9	29.634 ug/L	8.2454	29.634 ppb	8.2454	27.82%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.3	-51.643 ug/L	3.9621	-51.643 ppb	3.9621	7.67%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	0.5	0.0042 ug/L	0.01145	0.0042 ppb	0.01145	273.30%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	0.4	0.0338 ug/L	0.18192	0.0338 ppb	0.18192	538.03%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-16.3	-4.9669 ug/L	3.49834	-4.9669 ppb	3.49834	70.43%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-0.8	-0.0243 ug/L	0.26137	-0.0243 ppb	0.26137	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	10.0	5.4424 ug/L	3.13348	5.4424 ppb	3.13348	57.58%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	0.4	0.0610 ug/L	2.94202	0.0610 ppb	2.94202	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	1.9	2.3982 ug/L	4.78378	2.3982 ppb	4.78378	199.47%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	2.7	1.0817 ug/L	2.26252	1.0817 ppb	2.26252	209.17%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.9	-1.6901 ug/L	4.29887	-1.6901 ppb	4.29887	254.36%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	28.7	1.0226 ug/L	0.25930	1.0226 ppb	0.25930	25.36%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.0	0.9179 ug/L	1.39142	0.9179 ppb	1.39142	151.59%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	5.3	0.0377 ug/L	0.17822	0.0377 ppb	0.17822	472.81%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-18.2	-0.0310 ug/L	0.13861	-0.0310 ppb	0.13861	446.55%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	5.6	2.5509 ug/L	1.87492	2.5509 ppb	1.87492	73.50%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-18.7	-0.6235 ug/L	7.28025	-0.6235 ppb	7.28025	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	8.1	0.0594 ug/L	0.22319	0.0594 ppb	0.22319	375.50%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-73.6	-0.7924 ug/L	0.11560	-0.7924 ppb	0.11560	14.59%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	15.3	1.1721 ug/L	1.03000	1.1721 ppb	1.03000	87.87%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/4/2010 18:00:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4751.7	4751.7	100 %		18:02:42
1	Y RADIAL	5014.3	5014.3	99.49 %		18:02:42
1	Al 396.153Radial†	5378.4	5456.6	4973.1 ug/L	4973.1 ppb	18:02:42
1	Ca 317.933Radial†	2802.5	2782.0	4978.4 ug/L	4978.4 ppb	18:03:02
1	Fe 238.204 Radial†	493.9	486.3	5061.1 ug/L	5061.1 ppb	18:03:02
1	K 766.490 Radial†	29714.1	27383.7	5164.7 ug/L	5164.7 ppb	18:02:42
1	Mg 279.077 IEC†	132.2	130.0	5123.1 ug/L	5123.1 ppb	18:03:02
1	Na 589.592 Radial†	30826.9	31539.4	9597.1 ug/L	9597.1 ppb	18:02:42
1	Sr 421.552†	70782.3	70707.0	503.81 ug/L	503.81 ppb	18:02:42
1	Sc 361.383	819744.7	819744.7	103.66 %		18:04:00
1	Y 371.029	723686.7	723686.7	102.36 %		18:04:00
1	Ag 328.068†	100182.3	96469.9	487.62 ug/L	487.62 ppb	18:04:05
1	As 188.979†	1126.1	1115.0	488.88 ug/L	488.88 ppb	18:04:25
1	B 249.677†	19844.5	19368.3	479.47 ug/L	479.47 ppb	18:04:05
1	Ba 233.527†	43580.2	42046.0	488.81 ug/L	488.81 ppb	18:04:05
1	Be 313.107†	1289580.7	1253397.9	491.47 ug/L	491.47 ppb	18:04:00
1	Cd 226.502†	36787.4	35671.6	490.26 ug/L	490.26 ppb	18:04:05
1	Co 228.616†	16673.1	16149.0	480.51 ug/L	480.51 ppb	18:04:25
1	Cr 267.716†	38026.3	36622.9	488.93 ug/L	488.93 ppb	18:04:05
1	Cu 324.752†	143534.2	130744.4	482.24 ug/L	482.24 ppb	18:04:05
1	Mn 257.610†	322143.8	310343.4	487.86 ug/L	487.86 ppb	18:04:05
1	Mo 202.031†	5513.4	5306.8	480.24 ug/L	480.24 ppb	18:04:25
1	Ni 231.604†	16540.5	15876.2	489.85 ug/L	489.85 ppb	18:04:05
1	P 214.914†	4782.0	4414.4	2300.6 ug/L	2300.6 ppb	18:04:25
1	Pb 220.353†	3080.0	3028.8	482.58 ug/L	482.58 ppb	18:04:25
1	S 181.975 Axial†	842.7	771.9	957.90 ug/L	957.90 ppb	18:04:25
1	Sb 206.836†	1287.3	1209.0	491.24 ug/L	491.24 ppb	18:04:25
1	Se 196.026†	822.2	812.1	495.41 ug/L	495.41 ppb	18:04:25
1	Si 251.611†	70998.6	67941.5	2417.1 ug/L	2417.1 ppb	18:04:05
1	Sn 189.927†	2189.4	2099.0	480.30 ug/L	480.30 ppb	18:04:25
1	Ti 334.940†	251788.1	244236.1	483.72 ug/L	483.72 ppb	18:04:05
1	Tl 190.801†	1060.7	1059.0	483.40 ug/L	483.40 ppb	18:04:25
1	U 409.014†	12708.3	14628.4	483.38 ug/L	483.38 ppb	18:04:05
1	V 292.402†	63089.5	62522.1	491.89 ug/L	491.89 ppb	18:04:05
1	Zn 213.857†	47844.3	45358.4	482.85 ug/L	482.85 ppb	18:04:05
1	SiO2†	70757.8	67700.1	5167.5 ug/L	5167.5 ppb	18:05:32
2	Sc Radial	4774.1	4774.1	101 %		18:03:07
2	Y RADIAL	5026.9	5026.9	99.74 %		18:03:07
2	Al 396.153Radial†	5315.1	5368.4	4891.5 ug/L	4891.5 ppb	18:03:07
2	Ca 317.933Radial†	2798.0	2764.5	4947.1 ug/L	4947.1 ppb	18:03:27
2	Fe 238.204 Radial†	489.8	479.8	4995.1 ug/L	4995.1 ppb	18:03:27
2	K 766.490 Radial†	29558.7	27090.0	5109.3 ug/L	5109.3 ppb	18:03:07
2	Mg 279.077 IEC†	132.4	129.5	5104.6 ug/L	5104.6 ppb	18:03:27
2	Na 589.592 Radial†	30962.5	31530.0	9594.2 ug/L	9594.2 ppb	18:03:07
2	Sr 421.552†	70556.4	70150.9	499.85 ug/L	499.85 ppb	18:03:07
2	Sc 361.383	794607.5	794607.5	100.48 %		18:04:30
2	Y 371.029	702673.5	702673.5	99.389 %		18:04:30
2	Ag 328.068†	100688.3	100030.9	505.55 ug/L	505.55 ppb	18:04:36
2	As 188.979†	1132.0	1155.3	506.49 ug/L	506.49 ppb	18:04:56
2	B 249.677†	20025.3	20153.9	498.96 ug/L	498.96 ppb	18:04:36
2	Ba 233.527†	43929.5	43723.7	508.30 ug/L	508.30 ppb	18:04:36
2	Be 313.107†	1250438.7	1253798.5	491.67 ug/L	491.67 ppb	18:04:30
2	Cd 226.502†	37080.0	37085.5	509.72 ug/L	509.72 ppb	18:04:36
2	Co 228.616†	16797.5	16781.6	499.34 ug/L	499.34 ppb	18:04:56
2	Cr 267.716†	38265.6	38021.6	507.60 ug/L	507.60 ppb	18:04:36
2	Cu 324.752†	144275.2	135862.4	501.11 ug/L	501.11 ppb	18:04:36
2	Mn 257.610†	323973.8	321995.9	506.16 ug/L	506.16 ppb	18:04:36
2	Mo 202.031†	5553.5	5515.0	499.05 ug/L	499.05 ppb	18:04:56
2	Ni 231.604†	16636.3	16476.3	508.37 ug/L	508.37 ppb	18:04:36

2	P 214.914†	4823.7	4601.8	2398.7 ug/L	2398.7 ppb	18:04:56
2	Pb 220.353†	3127.7	3170.3	505.07 ug/L	505.07 ppb	18:04:56
2	S 181.975 Axial†	841.5	796.5	988.47 ug/L	988.47 ppb	18:04:56
2	Sb 206.836†	1311.1	1272.0	516.67 ug/L	516.67 ppb	18:04:56
2	Se 196.026†	830.5	845.5	515.11 ug/L	515.11 ppb	18:04:56
2	Si 251.611†	71476.9	70584.4	2511.1 ug/L	2511.1 ppb	18:04:36
2	Sn 189.927†	2217.2	2193.5	501.90 ug/L	501.90 ppb	18:04:56
2	Ti 334.940†	253184.9	253310.3	501.68 ug/L	501.68 ppb	18:04:36
2	Tl 190.801†	1067.2	1097.8	501.13 ug/L	501.13 ppb	18:04:56
2	U 409.014†	12646.0	14954.2	494.15 ug/L	494.15 ppb	18:04:36
2	V 292.402†	63462.5	64818.7	510.00 ug/L	510.00 ppb	18:04:36
2	Zn 213.857†	48113.1	47086.0	501.28 ug/L	501.28 ppb	18:04:36
2	SiO2†	71546.5	70644.4	5392.3 ug/L	5392.3 ppb	18:05:37
3	Sc Radial	4744.7	4744.7	99.9 %		18:03:33
3	Y RADIAL	4940.2	4940.2	98.02 %		18:03:33
3	Al 396.153Radial†	5243.8	5329.9	4856.7 ug/L	4856.7 ppb	18:03:33
3	Ca 317.933Radial†	2783.6	2767.3	4952.1 ug/L	4952.1 ppb	18:03:53
3	Fe 238.204 Radial†	493.5	486.6	5065.0 ug/L	5065.0 ppb	18:03:53
3	K 766.490 Radial†	29296.8	27010.1	5094.2 ug/L	5094.2 ppb	18:03:33
3	Mg 279.077 IEC†	133.8	131.8	5194.1 ug/L	5194.1 ppb	18:03:53
3	Na 589.592 Radial†	30548.3	31306.3	9526.1 ug/L	9526.1 ppb	18:03:33
3	Sr 421.552†	69659.5	69688.3	496.55 ug/L	496.55 ppb	18:03:33
3	Sc 361.383	812202.0	812202.0	102.70 %		18:05:01
3	Y 371.029	716903.6	716903.6	101.40 %		18:05:01
3	Ag 328.068†	99626.0	96825.8	489.42 ug/L	489.42 ppb	18:05:06
3	As 188.979†	1136.6	1135.3	497.73 ug/L	497.73 ppb	18:05:26
3	B 249.677†	19848.5	19550.0	483.96 ug/L	483.96 ppb	18:05:06
3	Ba 233.527†	43446.4	42306.3	491.83 ug/L	491.83 ppb	18:05:06
3	Be 313.107†	1274630.3	1250394.5	490.30 ug/L	490.30 ppb	18:05:01
3	Cd 226.502†	36683.3	35899.9	493.40 ug/L	493.40 ppb	18:05:06
3	Co 228.616†	16814.9	16436.4	489.08 ug/L	489.08 ppb	18:05:26
3	Cr 267.716†	37796.2	36739.6	490.49 ug/L	490.49 ppb	18:05:06
3	Cu 324.752†	142640.8	131160.5	483.77 ug/L	483.77 ppb	18:05:06
3	Mn 257.610†	320554.3	311681.8	489.96 ug/L	489.96 ppb	18:05:06
3	Mo 202.031†	5562.6	5404.2	489.04 ug/L	489.04 ppb	18:05:26
3	Ni 231.604†	16437.9	15924.5	491.34 ug/L	491.34 ppb	18:05:06
3	P 214.914†	4835.9	4509.7	2352.1 ug/L	2352.1 ppb	18:05:26
3	Pb 220.353†	3111.7	3087.2	491.85 ug/L	491.85 ppb	18:05:26
3	S 181.975 Axial†	849.6	786.2	975.66 ug/L	975.66 ppb	18:05:26
3	Sb 206.836†	1298.5	1231.5	500.40 ug/L	500.40 ppb	18:05:26
3	Se 196.026†	825.4	822.6	501.68 ug/L	501.68 ppb	18:05:26
3	Si 251.611†	70686.9	68274.1	2428.9 ug/L	2428.9 ppb	18:05:06
3	Sn 189.927†	2219.6	2148.1	491.50 ug/L	491.50 ppb	18:05:26
3	Ti 334.940†	250529.9	245266.8	485.75 ug/L	485.75 ppb	18:05:06
3	Tl 190.801†	1071.7	1079.2	492.55 ug/L	492.55 ppb	18:05:26
3	U 409.014†	12510.3	14549.4	480.76 ug/L	480.76 ppb	18:05:06
3	V 292.402†	62791.7	62797.3	494.15 ug/L	494.15 ppb	18:05:06
3	Zn 213.857†	47575.0	45524.8	484.63 ug/L	484.63 ppb	18:05:06
3	SiO2†	70837.3	68411.4	5221.7 ug/L	5221.7 ppb	18:05:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	808851.4	102.28 %	1.631			1.59%
Sc Radial	4756.8	100 %	0.3			0.32%
Y 371.029	714421.3	101.05 %	1.517			1.50%
Y RADIAL	4993.8	99.08 %	0.930			0.94%
Ag 328.068†	97775.5	494.20 ug/L	9.873	494.20 ppb	9.873	2.00%
QC value within limits for Ag 328.068 Recovery = 98.84%						
Al 396.153Radial†	5385.0	4907.1 ug/L	59.78	4907.1 ppb	59.78	1.22%
QC value within limits for Al 396.153Radial Recovery = 98.14%						
As 188.979†	1135.2	497.70 ug/L	8.806	497.70 ppb	8.806	1.77%
QC value within limits for As 188.979 Recovery = 99.54%						
B 249.677†	19690.8	487.46 ug/L	10.208	487.46 ppb	10.208	2.09%
QC value within limits for B 249.677 Recovery = 97.49%						
Ba 233.527†	42692.0	496.32 ug/L	10.491	496.32 ppb	10.491	2.11%
QC value within limits for Ba 233.527 Recovery = 99.26%						
Be 313.107†	1252530.3	491.15 ug/L	0.739	491.15 ppb	0.739	0.15%
QC value within limits for Be 313.107 Recovery = 98.23%						
Ca 317.933Radial†	2771.2	4959.2 ug/L	16.82	4959.2 ppb	16.82	0.34%

QC value within limits for Ca 317.933 Radial Recovery = 99.18%

Cd 226.502†	36219.0	497.79 ug/L	10.446	497.79 ppb	10.446	2.10%
QC value within limits for Cd 226.502 Recovery = 99.56%						
Co 228.616†	16455.7	489.65 ug/L	9.428	489.65 ppb	9.428	1.93%
QC value within limits for Co 228.616 Recovery = 97.93%						
Cr 267.716†	37128.1	495.68 ug/L	10.358	495.68 ppb	10.358	2.09%
QC value within limits for Cr 267.716 Recovery = 99.14%						
Cu 324.752†	132589.1	489.04 ug/L	10.478	489.04 ppb	10.478	2.14%
QC value within limits for Cu 324.752 Recovery = 97.81%						
Fe 238.204 Radial†	484.2	5040.4 ug/L	39.26	5040.4 ppb	39.26	0.78%
QC value within limits for Fe 238.204 Radial Recovery = 100.81%						
K 766.490 Radial†	27161.3	5122.7 ug/L	37.14	5122.7 ppb	37.14	0.72%
QC value within limits for K 766.490 Radial Recovery = 102.45%						
Mg 279.077 IEC†	130.5	5140.6 ug/L	47.24	5140.6 ppb	47.24	0.92%
QC value within limits for Mg 279.077 IEC Recovery = 102.81%						
Mn 257.610†	314673.7	494.66 ug/L	10.015	494.66 ppb	10.015	2.02%
QC value within limits for Mn 257.610 Recovery = 98.93%						
Mo 202.031†	5408.7	489.44 ug/L	9.414	489.44 ppb	9.414	1.92%
QC value within limits for Mo 202.031 Recovery = 97.89%						
Na 589.592 Radial†	31458.6	9572.5 ug/L	40.15	9572.5 ppb	40.15	0.42%
QC value within limits for Na 589.592 Radial Recovery = 95.72%						
Ni 231.604†	16092.3	496.52 ug/L	10.288	496.52 ppb	10.288	2.07%
QC value within limits for Ni 231.604 Recovery = 99.30%						
P 214.914†	4508.6	2350.5 ug/L	49.09	2350.5 ppb	49.09	2.09%
QC value within limits for P 214.914 Recovery = 94.02%						
Pb 220.353†	3095.4	493.16 ug/L	11.300	493.16 ppb	11.300	2.29%
QC value within limits for Pb 220.353 Recovery = 98.63%						
S 181.975 Axial†	784.8	974.01 ug/L	15.350	974.01 ppb	15.350	1.58%
QC value within limits for S 181.975 Axial Recovery = 97.40%						
Sb 206.836†	1237.5	502.77 ug/L	12.877	502.77 ppb	12.877	2.56%
QC value within limits for Sb 206.836 Recovery = 100.55%						
Se 196.026†	826.7	504.07 ug/L	10.066	504.07 ppb	10.066	2.00%
QC value within limits for Se 196.026 Recovery = 100.81%						
Si 251.611†	68933.3	2452.4 ug/L	51.23	2452.4 ppb	51.23	2.09%
QC value within limits for Si 251.611 Recovery = 98.10%						
Sn 189.927†	2146.9	491.23 ug/L	10.801	491.23 ppb	10.801	2.20%
QC value within limits for Sn 189.927 Recovery = 98.25%						
Sr 421.552†	70182.1	500.07 ug/L	3.635	500.07 ppb	3.635	0.73%
QC value within limits for Sr 421.552 Recovery = 100.01%						
Ti 334.940†	247604.4	490.38 ug/L	9.837	490.38 ppb	9.837	2.01%
QC value within limits for Ti 334.940 Recovery = 98.08%						
Tl 190.801†	1078.7	492.36 ug/L	8.863	492.36 ppb	8.863	1.80%
QC value within limits for Tl 190.801 Recovery = 98.47%						
U 409.014†	14710.7	486.10 ug/L	7.097	486.10 ppb	7.097	1.46%
QC value within limits for U 409.014 Recovery = 97.22%						
V 292.402†	63379.4	498.68 ug/L	9.866	498.68 ppb	9.866	1.98%
QC value within limits for V 292.402 Recovery = 99.74%						
Zn 213.857†	45989.7	489.59 ug/L	10.167	489.59 ppb	10.167	2.08%
QC value within limits for Zn 213.857 Recovery = 97.92%						
SiO2†	68918.6	5260.5 ug/L	117.32	5260.5 ppb	117.32	2.23%
QC value within limits for SiO2 Recovery = 98.37%						

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/4/2010 18:07:53

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	4876.4	4876.4	103 %		18:09:46
1	Y RADIAL	5203.7	5203.7	103.2 %		18:09:46
1	Al 396.153Radial†	-84.4	0.3	0.3331 ug/L	0.3331 ppb	18:10:06
1	Ca 317.933Radial†	17.7	-1.0	-1.7610 ug/L	-1.7610 ppb	18:10:06
1	Fe 238.204 Radial†	6.0	-1.5	-15.175 ug/L	-15.175 ppb	18:10:06
1	K 766.490 Radial†	2488.4	116.1	21.917 ug/L	21.917 ppb	18:09:46
1	Mg 279.077 IEC†	1.7	-0.4	-16.735 ug/L	-16.735 ppb	18:10:06
1	Na 589.592 Radial†	-740.5	16.1	4.8839 ug/L	4.8839 ppb	18:09:46
1	Sr 421.552†	21.0	1.5	0.0107 ug/L	0.0107 ppb	18:09:46
1	Sc 361.383	798323.8	798323.8	100.95 %		18:11:03
1	Y 371.029	711661.2	711661.2	100.66 %		18:11:03
1	Ag 328.068†	93.8	-83.5	-0.4242 ug/L	-0.4242 ppb	18:11:03
1	As 188.979†	-33.2	-4.2	-1.8412 ug/L	-1.8412 ppb	18:11:23
1	B 249.677†	-153.6	72.1	1.7954 ug/L	1.7954 ppb	18:11:23
1	Ba 233.527†	5.7	9.7	0.1119 ug/L	0.1119 ppb	18:11:23
1	Be 313.107†	-9536.0	-113.8	-0.0445 ug/L	-0.0445 ppb	18:11:03
1	Cd 226.502†	-177.6	6.7	0.0936 ug/L	0.0936 ppb	18:11:23
1	Co 228.616†	-69.7	-4.7	-0.1406 ug/L	-0.1406 ppb	18:11:23
1	Cr 267.716†	82.4	20.4	0.2715 ug/L	0.2715 ppb	18:11:23
1	Cu 324.752†	7768.3	-28.5	-0.1058 ug/L	-0.1058 ppb	18:11:03
1	Mn 257.610†	440.7	6.1	0.0088 ug/L	0.0088 ppb	18:11:23
1	Mo 202.031†	6.4	-5.6	-0.5077 ug/L	-0.5077 ppb	18:11:23
1	Ni 231.604†	82.3	1.1	0.0329 ug/L	0.0329 ppb	18:11:23
1	P 214.914†	214.1	13.2	7.2104 ug/L	7.2104 ppb	18:11:23
1	Pb 220.353†	-64.9	-6.8	-1.0756 ug/L	-1.0756 ppb	18:11:23
1	S 181.975 Axial†	56.0	14.5	17.988 ug/L	17.988 ppb	18:11:23
1	Sb 206.836†	35.4	2.2	0.8730 ug/L	0.8730 ppb	18:11:23
1	Se 196.026†	-19.3	-0.2	-0.1493 ug/L	-0.1493 ppb	18:11:23
1	Si 251.611†	627.5	70.4	2.5167 ug/L	2.5167 ppb	18:11:23
1	Sn 189.927†	14.7	1.4	0.3311 ug/L	0.3311 ppb	18:11:23
1	Ti 334.940†	-1345.7	1.8	0.0046 ug/L	0.0046 ppb	18:11:03
1	Tl 190.801†	-39.3	-3.2	-1.4535 ug/L	-1.4535 ppb	18:11:23
1	U 409.014†	-2398.0	-6.8	-0.2236 ug/L	-0.2236 ppb	18:11:03
1	V 292.402†	-1677.6	-2.4	-0.0248 ug/L	-0.0248 ppb	18:11:03
1	Zn 213.857†	706.4	-97.5	-1.0460 ug/L	-1.0460 ppb	18:11:23
1	SiO2†	604.4	38.4	2.9549 ug/L	2.9549 ppb	18:12:19
2	Sc Radial	4784.0	4784.0	101 %		18:10:11
2	Y RADIAL	5048.0	5048.0	100.2 %		18:10:11
2	Al 396.153Radial†	-86.7	-3.5	-3.2272 ug/L	-3.2272 ppb	18:10:31
2	Ca 317.933Radial†	20.2	1.8	3.1387 ug/L	3.1387 ppb	18:10:31
2	Fe 238.204 Radial†	8.3	0.9	9.6787 ug/L	9.6787 ppb	18:10:31
2	K 766.490 Radial†	2449.5	124.3	23.478 ug/L	23.478 ppb	18:10:11
2	Mg 279.077 IEC†	0.7	-1.4	-56.384 ug/L	-56.384 ppb	18:10:31
2	Na 589.592 Radial†	-720.0	22.5	6.8460 ug/L	6.8460 ppb	18:10:11
2	Sr 421.552†	4.8	-14.1	-0.1009 ug/L	-0.1009 ppb	18:10:11
2	Sc 361.383	801618.9	801618.9	101.37 %		18:11:28
2	Y 371.029	715479.0	715479.0	101.20 %		18:11:28
2	Ag 328.068†	115.7	-62.3	-0.3150 ug/L	-0.3150 ppb	18:11:28
2	As 188.979†	-29.4	-0.4	-0.1641 ug/L	-0.1641 ppb	18:11:48
2	B 249.677†	-105.2	120.5	2.9957 ug/L	2.9957 ppb	18:11:48
2	Ba 233.527†	-12.1	-7.9	-0.0930 ug/L	-0.0930 ppb	18:11:48
2	Be 313.107†	-9576.3	-114.7	-0.0449 ug/L	-0.0449 ppb	18:11:28
2	Cd 226.502†	-189.9	-4.7	-0.0651 ug/L	-0.0651 ppb	18:11:48
2	Co 228.616†	-70.0	-4.7	-0.1413 ug/L	-0.1413 ppb	18:11:48
2	Cr 267.716†	61.5	-0.5	-0.0087 ug/L	-0.0087 ppb	18:11:48
2	Cu 324.752†	7920.9	90.4	0.3320 ug/L	0.3320 ppb	18:11:28
2	Mn 257.610†	437.4	1.0	0.0048 ug/L	0.0048 ppb	18:11:48
2	Mo 202.031†	8.5	-3.6	-0.3231 ug/L	-0.3231 ppb	18:11:48
2	Ni 231.604†	68.7	-12.7	-0.3919 ug/L	-0.3919 ppb	18:11:48

2	P 214.914†	216.5	14.7	7.9144 ug/L	7.9144 ppb	18:11:48
2	Pb 220.353†	-72.2	-13.7	-2.1850 ug/L	-2.1850 ppb	18:11:48
2	S 181.975 Axial†	42.5	0.9	1.1615 ug/L	1.1615 ppb	18:11:48
2	Sb 206.836†	32.7	-0.6	-0.2482 ug/L	-0.2482 ppb	18:11:48
2	Se 196.026†	-12.7	6.4	3.8485 ug/L	3.8485 ppb	18:11:48
2	Si 251.611†	602.7	43.4	1.5534 ug/L	1.5534 ppb	18:11:48
2	Sn 189.927†	10.5	-2.7	-0.6202 ug/L	-0.6202 ppb	18:11:48
2	Ti 334.940†	-1353.5	-0.5	0.0026 ug/L	0.0026 ppb	18:11:28
2	Tl 190.801†	-44.7	-8.4	-3.8180 ug/L	-3.8180 ppb	18:11:48
2	U 409.014†	-2299.9	99.7	3.3064 ug/L	3.3064 ppb	18:11:28
2	V 292.402†	-1751.0	-68.1	-0.5296 ug/L	-0.5296 ppb	18:11:28
2	Zn 213.857†	696.8	-109.9	-1.1798 ug/L	-1.1798 ppb	18:11:48
2	SiO2†	634.6	65.8	5.0406 ug/L	5.0406 ppb	18:12:24
3	Sc Radial	4812.0	4812.0	101 %		18:10:36
3	Y RADIAL	5104.2	5104.2	101.3 %		18:10:36
3	Al 396.153Radial†	-91.1	-7.4	-6.7524 ug/L	-6.7524 ppb	18:10:56
3	Ca 317.933Radial†	16.1	-2.4	-4.2629 ug/L	-4.2629 ppb	18:10:56
3	Fe 238.204 Radial†	8.6	1.2	12.302 ug/L	12.302 ppb	18:10:56
3	K 766.490 Radial†	2512.1	171.9	32.464 ug/L	32.464 ppb	18:10:36
3	Mg 279.077 IEC†	-1.0	-3.1	-121.24 ug/L	-121.24 ppb	18:10:56
3	Na 589.592 Radial†	-728.2	18.5	5.6338 ug/L	5.6338 ppb	18:10:36
3	Sr 421.552†	51.8	32.1	0.2290 ug/L	0.2290 ppb	18:10:36
3	Sc 361.383	795961.6	795961.6	100.65 %		18:11:53
3	Y 371.029	708976.0	708976.0	100.28 %		18:11:53
3	Ag 328.068†	211.8	33.9	0.1771 ug/L	0.1771 ppb	18:11:53
3	As 188.979†	-24.5	4.3	1.8684 ug/L	1.8684 ppb	18:12:13
3	B 249.677†	-140.3	84.9	2.1079 ug/L	2.1079 ppb	18:12:13
3	Ba 233.527†	-9.3	-5.2	-0.0602 ug/L	-0.0602 ppb	18:12:13
3	Be 313.107†	-9571.5	-177.1	-0.0695 ug/L	-0.0695 ppb	18:11:53
3	Cd 226.502†	-179.3	4.5	0.0603 ug/L	0.0603 ppb	18:12:13
3	Co 228.616†	-61.5	3.3	0.0970 ug/L	0.0970 ppb	18:12:13
3	Cr 267.716†	71.7	10.0	0.1357 ug/L	0.1357 ppb	18:12:13
3	Cu 324.752†	7758.4	-15.6	-0.0544 ug/L	-0.0544 ppb	18:11:53
3	Mn 257.610†	436.2	2.9	0.0108 ug/L	0.0108 ppb	18:12:13
3	Mo 202.031†	11.9	-0.2	-0.0170 ug/L	-0.0170 ppb	18:12:13
3	Ni 231.604†	89.8	8.8	0.2707 ug/L	0.2707 ppb	18:12:13
3	P 214.914†	207.4	7.2	3.9175 ug/L	3.9175 ppb	18:12:13
3	Pb 220.353†	-52.5	5.4	0.8489 ug/L	0.8489 ppb	18:12:13
3	S 181.975 Axial†	49.3	7.9	9.8329 ug/L	9.8329 ppb	18:12:13
3	Sb 206.836†	41.5	8.3	3.2659 ug/L	3.2659 ppb	18:12:13
3	Se 196.026†	-21.1	-2.0	-1.1800 ug/L	-1.1800 ppb	18:12:13
3	Si 251.611†	625.8	70.6	2.5188 ug/L	2.5188 ppb	18:12:13
3	Sn 189.927†	14.6	1.4	0.3159 ug/L	0.3159 ppb	18:12:13
3	Ti 334.940†	-1388.1	-44.4	-0.0767 ug/L	-0.0767 ppb	18:11:53
3	Tl 190.801†	-28.9	7.0	3.1878 ug/L	3.1878 ppb	18:12:13
3	U 409.014†	-2518.1	-133.2	-4.4175 ug/L	-4.4175 ppb	18:11:53
3	V 292.402†	-1695.4	-25.2	-0.2081 ug/L	-0.2081 ppb	18:11:53
3	Zn 213.857†	712.6	-89.3	-0.9628 ug/L	-0.9628 ppb	18:12:13
3	SiO2†	629.7	65.3	4.9989 ug/L	4.9989 ppb	18:12:29

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	798634.7	100.99 %	0.359			0.36%
Sc Radial	4824.1	102 %	1.0			0.98%
Y 371.029	712038.8	100.71 %	0.462			0.46%
Y RADIAL	5118.7	101.6 %	1.56			1.54%
Ag 328.068†	-37.3	-0.1873 ug/L	0.32032	-0.1873 ppb	0.32032	170.99%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.5	-3.2155 ug/L	3.54273	-3.2155 ppb	3.54273	110.18%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.1	-0.0456 ug/L	1.85766	-0.0456 ppb	1.85766	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	92.5	2.2997 ug/L	0.62267	2.2997 ppb	0.62267	27.08%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.1	-0.0138 ug/L	0.11005	-0.0138 ppb	0.11005	799.94%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-135.2	-0.0530 ug/L	0.01432	-0.0530 ppb	0.01432	27.04%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.5	-0.9617 ug/L	3.76498	-0.9617 ppb	3.76498	391.48%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	2.2	0.0296 ug/L	0.08365	0.0296 ppb	0.08365 282.72%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-2.0	-0.0616 ug/L	0.13742	-0.0616 ppb	0.13742 222.91%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	10.0	0.1328 ug/L	0.14016	0.1328 ppb	0.14016 105.52%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	15.4	0.0573 ug/L	0.23929	0.0573 ppb	0.23929 417.79%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	0.2	2.2685 ug/L	15.16337	2.2685 ppb	15.16337 668.44%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	137.4	25.953 ug/L	5.6924	25.953 ppb	5.6924 21.93%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-1.6	-64.786 ug/L	52.7566	-64.786 ppb	52.7566 81.43%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	3.4	0.0081 ug/L	0.00301	0.0081 ppb	0.00301 36.99%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-3.1	-0.2826 ug/L	0.24782	-0.2826 ppb	0.24782 87.70%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	19.0	5.7879 ug/L	0.99008	5.7879 ppb	0.99008 17.11%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-1.0	-0.0294 ug/L	0.33569	-0.0294 ppb	0.33569 >999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	11.7	6.3474 ug/L	2.13361	6.3474 ppb	2.13361 33.61%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-5.1	-0.8039 ug/L	1.53510	-0.8039 ppb	1.53510 190.96%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	7.8	9.6606 ug/L	8.41434	9.6606 ppb	8.41434 87.10%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	3.3	1.2969 ug/L	1.79500	1.2969 ppb	1.79500 138.41%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	1.4	0.8397 ug/L	2.65613	0.8397 ppb	2.65613 316.31%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	61.5	2.1963 ug/L	0.55676	2.1963 ppb	0.55676 25.35%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	0.0	0.0089 ug/L	0.54485	0.0089 ppb	0.54485 >999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	6.5	0.0463 ug/L	0.16776	0.0463 ppb	0.16776 362.41%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-14.4	-0.0231 ug/L	0.04636	-0.0231 ppb	0.04636 200.34%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-1.5	-0.6946 ug/L	3.56405	-0.6946 ppb	3.56405 513.13%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-13.4	-0.4449 ug/L	3.86670	-0.4449 ppb	3.86670 869.10%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-31.9	-0.2542 ug/L	0.25555	-0.2542 ppb	0.25555 100.54%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-98.9	-1.0629 ug/L	0.10951	-1.0629 ppb	0.10951 10.30%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	56.5	4.3315 ug/L	1.19237	4.3315 ppb	1.19237 27.53%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/4/2010 18:29:05

Plasma On Time: 3/1/2010 06:57:40

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\030410.sif

Batch ID:

Results Data Set: 030410

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 1

Sample ID: CCV

Date Collected: 3/4/2010 18:29:06

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	4808.1	4808.1	101 %		18:30:58
1	Y RADIAL	5039.6	5039.6	99.99 %		18:30:58
1	Al 396.153Radial†	5254.3	5271.0	4802.9 ug/L	4802.9 ppb	18:30:58
1	Ca 317.933Radial†	2810.6	2757.1	4934.0 ug/L	4934.0 ppb	18:31:18
1	Fe 238.204 Radial†	495.6	482.1	5018.7 ug/L	5018.7 ppb	18:31:18
1	K 766.490 Radial†	29197.2	26525.1	5002.7 ug/L	5002.7 ppb	18:30:58
1	Mg 279.077 IEC†	133.7	129.9	5118.3 ug/L	5118.3 ppb	18:31:18
1	Na 589.592 Radial†	30344.4	30701.8	9342.2 ug/L	9342.2 ppb	18:30:58
1	Sr 421.552†	69626.0	68735.8	489.76 ug/L	489.76 ppb	18:30:58
1	Sc 361.383	814248.9	814248.9	102.96 %		18:32:15
1	Y 371.029	717262.5	717262.5	101.45 %		18:32:15
1	Ag 328.068†	98577.8	95563.9	483.05 ug/L	483.05 ppb	18:32:20
1	As 188.979†	1130.0	1126.1	493.68 ug/L	493.68 ppb	18:32:40
1	B 249.677†	19555.1	19216.5	475.64 ug/L	475.64 ppb	18:32:20
1	Ba 233.527†	43132.8	41895.3	487.06 ug/L	487.06 ppb	18:32:20
1	Be 313.107†	1258594.2	1231700.1	482.98 ug/L	482.98 ppb	18:32:15
1	Cd 226.502†	36369.6	35505.4	487.98 ug/L	487.98 ppb	18:32:20
1	Co 228.616†	17263.1	16830.6	500.81 ug/L	500.81 ppb	18:32:20
1	Cr 267.716†	37447.5	36308.4	484.74 ug/L	484.74 ppb	18:32:20
1	Cu 324.752†	141494.2	129697.8	478.38 ug/L	478.38 ppb	18:32:20
1	Mn 257.610†	318797.2	309190.7	486.04 ug/L	486.04 ppb	18:32:20
1	Mo 202.031†	5540.1	5368.7	485.82 ug/L	485.82 ppb	18:32:40
1	Ni 231.604†	16318.2	15768.0	486.50 ug/L	486.50 ppb	18:32:20
1	P 214.914†	4856.2	4517.6	2357.4 ug/L	2357.4 ppb	18:32:40
1	Pb 220.353†	3111.3	3079.3	490.57 ug/L	490.57 ppb	18:32:40
1	S 181.975 Axial†	861.2	795.4	987.13 ug/L	987.13 ppb	18:32:40
1	Sb 206.836†	1303.8	1233.4	501.05 ug/L	501.05 ppb	18:32:40
1	Se 196.026†	832.0	827.1	504.19 ug/L	504.19 ppb	18:32:40
1	Si 251.611†	70126.4	67556.8	2403.3 ug/L	2403.3 ppb	18:32:20
1	Sn 189.927†	2210.0	2133.3	488.13 ug/L	488.13 ppb	18:32:40
1	Ti 334.940†	248717.4	242893.2	481.06 ug/L	481.06 ppb	18:32:20
1	Tl 190.801†	1073.6	1078.4	492.11 ug/L	492.11 ppb	18:32:40
1	U 409.014†	12417.7	14428.9	476.78 ug/L	476.78 ppb	18:32:20
1	V 292.402†	62197.4	62066.4	488.43 ug/L	488.43 ppb	18:32:20
1	Zn 213.857†	47279.8	45121.7	480.34 ug/L	480.34 ppb	18:32:20
1	SiO2†	70770.7	68173.4	5203.6 ug/L	5203.6 ppb	18:33:47
2	Sc Radial	4828.9	4828.9	102 %		18:31:23
2	Y RADIAL	5055.9	5055.9	100.3 %		18:31:23
2	Al 396.153Radial†	5275.9	5269.9	4802.0 ug/L	4802.0 ppb	18:31:23
2	Ca 317.933Radial†	2779.0	2714.1	4857.0 ug/L	4857.0 ppb	18:31:43
2	Fe 238.204 Radial†	485.8	470.4	4896.7 ug/L	4896.7 ppb	18:31:43
2	K 766.490 Radial†	29079.1	26284.7	4957.4 ug/L	4957.4 ppb	18:31:23
2	Mg 279.077 IEC†	132.2	127.9	5038.7 ug/L	5038.7 ppb	18:31:43
2	Na 589.592 Radial†	30286.8	30515.9	9285.6 ug/L	9285.6 ppb	18:31:23
2	Sr 421.552†	69712.5	68524.4	488.26 ug/L	488.26 ppb	18:31:23
2	Sc 361.383	816093.6	816093.6	103.20 %		18:32:46
2	Y 371.029	718659.4	718659.4	101.65 %		18:32:46

2	Ag 328.068†	98739.2	95503.9	482.71 ug/L	482.71 ppb	18:32:51
2	As 188.979†	1115.9	1109.9	486.60 ug/L	486.60 ppb	18:33:11
2	B 249.677†	19566.0	19184.1	474.87 ug/L	474.87 ppb	18:32:51
2	Ba 233.527†	43012.1	41683.6	484.59 ug/L	484.59 ppb	18:32:51
2	Be 313.107†	1261592.3	1231842.4	483.03 ug/L	483.03 ppb	18:32:46
2	Cd 226.502†	36256.6	35316.1	485.39 ug/L	485.39 ppb	18:32:51
2	Co 228.616†	17150.5	16683.6	496.44 ug/L	496.44 ppb	18:32:51
2	Cr 267.716†	37335.5	36117.7	482.19 ug/L	482.19 ppb	18:32:51
2	Cu 324.752†	141787.9	129671.7	478.28 ug/L	478.28 ppb	18:32:51
2	Mn 257.610†	318340.2	308048.0	484.24 ug/L	484.24 ppb	18:32:51
2	Mo 202.031†	5527.2	5344.0	483.59 ug/L	483.59 ppb	18:33:11
2	Ni 231.604†	16320.3	15734.2	485.46 ug/L	485.46 ppb	18:32:51
2	P 214.914†	4834.8	4486.1	2340.5 ug/L	2340.5 ppb	18:33:11
2	Pb 220.353†	3092.5	3054.2	486.60 ug/L	486.60 ppb	18:33:11
2	S 181.975 Axial†	850.8	783.4	972.18 ug/L	972.18 ppb	18:33:11
2	Sb 206.836†	1295.8	1222.8	496.81 ug/L	496.81 ppb	18:33:11
2	Se 196.026†	823.6	817.0	497.96 ug/L	497.96 ppb	18:33:11
2	Si 251.611†	70105.6	67382.7	2397.2 ug/L	2397.2 ppb	18:32:51
2	Sn 189.927†	2210.4	2128.8	487.10 ug/L	487.10 ppb	18:33:11
2	Ti 334.940†	248841.7	242467.6	480.21 ug/L	480.21 ppb	18:32:51
2	Tl 190.801†	1069.6	1072.2	489.29 ug/L	489.29 ppb	18:33:11
2	U 409.014†	12334.4	14320.9	473.22 ug/L	473.22 ppb	18:32:51
2	V 292.402†	62116.4	61851.4	486.74 ug/L	486.74 ppb	18:32:51
2	Zn 213.857†	47235.7	44975.1	478.79 ug/L	478.79 ppb	18:32:51
2	SiO2†	70429.2	67687.0	5166.4 ug/L	5166.4 ppb	18:33:53
3	Sc Radial	4816.8	4816.8	101 %		18:31:48
3	Y RADIAL	5068.8	5068.8	100.6 %		18:31:48
3	Al 396.153Radial†	5272.7	5279.8	4810.9 ug/L	4810.9 ppb	18:31:48
3	Ca 317.933Radial†	2798.5	2740.2	4903.8 ug/L	4903.8 ppb	18:32:08
3	Fe 238.204 Radial†	493.3	479.0	4986.2 ug/L	4986.2 ppb	18:32:08
3	K 766.490 Radial†	29120.0	26396.9	4978.5 ug/L	4978.5 ppb	18:31:48
3	Mg 279.077 IEC†	129.4	125.4	4942.5 ug/L	4942.5 ppb	18:32:08
3	Na 589.592 Radial†	30255.0	30559.5	9298.9 ug/L	9298.9 ppb	18:31:48
3	Sr 421.552†	69572.2	68558.5	488.50 ug/L	488.50 ppb	18:31:48
3	Sc 361.383	810878.1	810878.1	102.54 %		18:33:17
3	Y 371.029	714633.4	714633.4	101.08 %		18:33:17
3	Ag 328.068†	99493.1	96854.6	489.53 ug/L	489.53 ppb	18:33:22
3	As 188.979†	1133.3	1133.9	497.11 ug/L	497.11 ppb	18:33:42
3	B 249.677†	19781.0	19515.7	483.08 ug/L	483.08 ppb	18:33:22
3	Ba 233.527†	43351.4	42282.7	491.56 ug/L	491.56 ppb	18:33:22
3	Be 313.107†	1255633.3	1233894.0	483.85 ug/L	483.85 ppb	18:33:17
3	Cd 226.502†	36376.4	35658.8	490.10 ug/L	490.10 ppb	18:33:22
3	Co 228.616†	17308.5	16944.5	504.19 ug/L	504.19 ppb	18:33:22
3	Cr 267.716†	37590.6	36599.2	488.62 ug/L	488.62 ppb	18:33:22
3	Cu 324.752†	143408.7	132136.1	487.37 ug/L	487.37 ppb	18:33:22
3	Mn 257.610†	320561.8	312198.7	490.77 ug/L	490.77 ppb	18:33:22
3	Mo 202.031†	5518.7	5370.1	485.95 ug/L	485.95 ppb	18:33:42
3	Ni 231.604†	16392.4	15906.2	490.77 ug/L	490.77 ppb	18:33:22
3	P 214.914†	4829.6	4511.3	2352.2 ug/L	2352.2 ppb	18:33:42
3	Pb 220.353†	3116.6	3097.0	493.39 ug/L	493.39 ppb	18:33:42
3	S 181.975 Axial†	847.4	785.4	974.73 ug/L	974.73 ppb	18:33:42
3	Sb 206.836†	1289.0	1224.2	497.43 ug/L	497.43 ppb	18:33:42
3	Se 196.026†	820.4	819.1	499.38 ug/L	499.38 ppb	18:33:42
3	Si 251.611†	70762.2	68460.0	2435.5 ug/L	2435.5 ppb	18:33:22
3	Sn 189.927†	2202.0	2134.4	488.38 ug/L	488.38 ppb	18:33:42
3	Ti 334.940†	250799.1	245927.6	487.07 ug/L	487.07 ppb	18:33:22
3	Tl 190.801†	1064.3	1073.7	490.00 ug/L	490.00 ppb	18:33:42
3	U 409.014†	12646.8	14702.5	485.85 ug/L	485.85 ppb	18:33:22
3	V 292.402†	62534.0	62645.8	492.94 ug/L	492.94 ppb	18:33:22
3	Zn 213.857†	47482.7	45510.4	484.48 ug/L	484.48 ppb	18:33:22
3	SiO2†	71246.2	68922.8	5260.9 ug/L	5260.9 ppb	18:33:58

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813740.2	102.90 %	0.334			0.33%
Sc Radial	4817.9	101 %	0.2			0.22%
Y 371.029	716851.8	101.39 %	0.289			0.29%
Y RADIAL	5054.8	100.3 %	0.29			0.29%
Ag 328.068†	95974.1	485.10 ug/L	3.846	485.10 ppb	3.846	0.79%

QC value within limits for Ag 328.068 Recovery = 97.02%						
Al 396.153Radial†	5273.6	4805.3 ug/L	4.92	4805.3 ppb	4.92	0.10%
QC value within limits for Al 396.153Radial Recovery = 96.11%						
As 188.979†	1123.3	492.46 ug/L	5.356	492.46 ppb	5.356	1.09%
QC value within limits for As 188.979 Recovery = 98.49%						
B 249.677†	19305.4	477.86 ug/L	4.533	477.86 ppb	4.533	0.95%
QC value within limits for B 249.677 Recovery = 95.57%						
Ba 233.527†	41953.9	487.73 ug/L	3.531	487.73 ppb	3.531	0.72%
QC value within limits for Ba 233.527 Recovery = 97.55%						
Be 313.107†	1232478.8	483.29 ug/L	0.489	483.29 ppb	0.489	0.10%
QC value within limits for Be 313.107 Recovery = 96.66%						
Ca 317.933Radial†	2737.2	4898.3 ug/L	38.79	4898.3 ppb	38.79	0.79%
QC value within limits for Ca 317.933Radial Recovery = 97.97%						
Cd 226.502†	35493.4	487.82 ug/L	2.358	487.82 ppb	2.358	0.48%
QC value within limits for Cd 226.502 Recovery = 97.56%						
Co 228.616†	16819.6	500.48 ug/L	3.888	500.48 ppb	3.888	0.78%
QC value within limits for Co 228.616 Recovery = 100.10%						
Cr 267.716†	36341.8	485.18 ug/L	3.236	485.18 ppb	3.236	0.67%
QC value within limits for Cr 267.716 Recovery = 97.04%						
Cu 324.752†	130501.9	481.34 ug/L	5.218	481.34 ppb	5.218	1.08%
QC value within limits for Cu 324.752 Recovery = 96.27%						
Fe 238.204 Radial†	477.2	4967.2 ug/L	63.20	4967.2 ppb	63.20	1.27%
QC value within limits for Fe 238.204 Radial Recovery = 99.34%						
K 766.490 Radial†	26402.2	4979.5 ug/L	22.69	4979.5 ppb	22.69	0.46%
QC value within limits for K 766.490 Radial Recovery = 99.59%						
Mg 279.077 IEC†	127.7	5033.2 ug/L	88.05	5033.2 ppb	88.05	1.75%
QC value within limits for Mg 279.077 IEC Recovery = 100.66%						
Mn 257.610†	309812.5	487.02 ug/L	3.374	487.02 ppb	3.374	0.69%
QC value within limits for Mn 257.610 Recovery = 97.40%						
Mo 202.031†	5360.9	485.12 ug/L	1.330	485.12 ppb	1.330	0.27%
QC value within limits for Mo 202.031 Recovery = 97.02%						
Na 589.592 Radial†	30592.4	9308.9 ug/L	29.59	9308.9 ppb	29.59	0.32%
QC value within limits for Na 589.592 Radial Recovery = 93.09%						
Ni 231.604†	15802.8	487.58 ug/L	2.811	487.58 ppb	2.811	0.58%
QC value within limits for Ni 231.604 Recovery = 97.52%						
P 214.914†	4505.0	2350.0 ug/L	8.69	2350.0 ppb	8.69	0.37%
QC value within limits for P 214.914 Recovery = 94.00%						
Pb 220.353†	3076.8	490.19 ug/L	3.412	490.19 ppb	3.412	0.70%
QC value within limits for Pb 220.353 Recovery = 98.04%						
S 181.975 Axial†	788.0	978.01 ug/L	7.995	978.01 ppb	7.995	0.82%
QC value within limits for S 181.975 Axial Recovery = 97.80%						
Sb 206.836†	1226.8	498.43 ug/L	2.289	498.43 ppb	2.289	0.46%
QC value within limits for Sb 206.836 Recovery = 99.69%						
Se 196.026†	821.1	500.51 ug/L	3.268	500.51 ppb	3.268	0.65%
QC value within limits for Se 196.026 Recovery = 100.10%						
Si 251.611†	67799.8	2412.0 ug/L	20.61	2412.0 ppb	20.61	0.85%
QC value within limits for Si 251.611 Recovery = 96.48%						
Sn 189.927†	2132.2	487.87 ug/L	0.678	487.87 ppb	0.678	0.14%
QC value within limits for Sn 189.927 Recovery = 97.57%						
Sr 421.552†	68606.2	488.84 ug/L	0.809	488.84 ppb	0.809	0.17%
QC value within limits for Sr 421.552 Recovery = 97.77%						
Ti 334.940†	243762.8	482.78 ug/L	3.741	482.78 ppb	3.741	0.77%
QC value within limits for Ti 334.940 Recovery = 96.56%						
Tl 190.801†	1074.8	490.47 ug/L	1.462	490.47 ppb	1.462	0.30%
QC value within limits for Tl 190.801 Recovery = 98.09%						
U 409.014†	14484.1	478.62 ug/L	6.510	478.62 ppb	6.510	1.36%
QC value within limits for U 409.014 Recovery = 95.72%						
V 292.402†	62187.9	489.37 ug/L	3.206	489.37 ppb	3.206	0.66%
QC value within limits for V 292.402 Recovery = 97.87%						
Zn 213.857†	45202.4	481.20 ug/L	2.943	481.20 ppb	2.943	0.61%
QC value within limits for Zn 213.857 Recovery = 96.24%						
SiO2†	68261.1	5210.3 ug/L	47.61	5210.3 ppb	47.61	0.91%
QC value within limits for SiO2 Recovery = 97.43%						
All analyte(s) passed QC.						

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/4/2010 18:36:07

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	4755.8	4755.8	100 %		18:37:59
1	Y RADIAL	5024.0	5024.0	99.68 %		18:37:59
1	Al 396.153Radial†	-88.3	-5.7	-5.1891 ug/L	-5.1891 ppb	18:38:19
1	Ca 317.933Radial†	24.3	6.0	10.773 ug/L	10.773 ppb	18:38:19
1	Fe 238.204 Radial†	10.3	3.0	31.158 ug/L	31.158 ppb	18:38:19
1	K 766.490 Radial†	2468.4	157.6	29.754 ug/L	29.754 ppb	18:37:59
1	Mg 279.077 IEC†	0.8	-1.3	-50.354 ug/L	-50.354 ppb	18:38:19
1	Na 589.592 Radial†	-745.1	-6.8	-2.0579 ug/L	-2.0579 ppb	18:37:59
1	Sr 421.552†	12.9	-6.1	-0.0436 ug/L	-0.0436 ppb	18:37:59
1	Sc 361.383	791113.3	791113.3	100.04 %		18:39:16
1	Y 371.029	706020.4	706020.4	99.863 %		18:39:16
1	Ag 328.068†	168.1	-8.4	-0.0320 ug/L	-0.0320 ppb	18:39:16
1	As 188.979†	-34.4	-5.7	-2.4877 ug/L	-2.4877 ppb	18:39:36
1	B 249.677†	-144.4	79.9	1.9818 ug/L	1.9818 ppb	18:39:36
1	Ba 233.527†	1.7	5.8	0.0665 ug/L	0.0665 ppb	18:39:36
1	Be 313.107†	-9566.9	-230.8	-0.0902 ug/L	-0.0902 ppb	18:39:16
1	Cd 226.502†	-170.5	12.2	0.1637 ug/L	0.1637 ppb	18:39:36
1	Co 228.616†	-68.2	-3.8	-0.1133 ug/L	-0.1133 ppb	18:39:36
1	Cr 267.716†	68.3	7.1	0.0960 ug/L	0.0960 ppb	18:39:36
1	Cu 324.752†	7749.8	23.1	0.0892 ug/L	0.0892 ppb	18:39:16
1	Mn 257.610†	431.6	1.0	0.0067 ug/L	0.0067 ppb	18:39:36
1	Mo 202.031†	14.6	2.6	0.2402 ug/L	0.2402 ppb	18:39:36
1	Ni 231.604†	81.3	0.8	0.0244 ug/L	0.0244 ppb	18:39:36
1	P 214.914†	211.3	12.4	6.6747 ug/L	6.6747 ppb	18:39:36
1	Pb 220.353†	-56.9	0.7	0.1013 ug/L	0.1013 ppb	18:39:36
1	S 181.975 Axial†	44.7	3.6	4.4734 ug/L	4.4734 ppb	18:39:36
1	Sb 206.836†	44.9	12.0	4.7283 ug/L	4.7283 ppb	18:39:36
1	Se 196.026†	-22.1	-3.1	-1.7791 ug/L	-1.7791 ppb	18:39:36
1	Si 251.611†	583.3	31.9	1.1349 ug/L	1.1349 ppb	18:39:36
1	Sn 189.927†	18.8	5.7	1.3094 ug/L	1.3094 ppb	18:39:36
1	Ti 334.940†	-1318.8	16.4	0.0399 ug/L	0.0399 ppb	18:39:16
1	Tl 190.801†	-30.8	4.9	2.2417 ug/L	2.2417 ppb	18:39:36
1	U 409.014†	-2497.6	-128.0	-4.2490 ug/L	-4.2490 ppb	18:39:16
1	V 292.402†	-1742.2	-82.2	-0.6490 ug/L	-0.6490 ppb	18:39:16
1	Zn 213.857†	738.0	-59.6	-0.6449 ug/L	-0.6449 ppb	18:39:36
1	SiO2†	555.2	-5.3	-0.4131 ug/L	-0.4131 ppb	18:40:32
2	Sc Radial	4768.0	4768.0	100 %		18:38:24
2	Y RADIAL	5102.7	5102.7	101.2 %		18:38:24
2	Al 396.153Radial†	-94.0	-11.1	-10.164 ug/L	-10.164 ppb	18:38:44
2	Ca 317.933Radial†	25.0	6.7	11.916 ug/L	11.916 ppb	18:38:44
2	Fe 238.204 Radial†	8.3	1.0	10.187 ug/L	10.187 ppb	18:38:44
2	K 766.490 Radial†	2303.0	-13.5	-2.5446 ug/L	-2.5446 ppb	18:38:24
2	Mg 279.077 IEC†	3.8	1.7	67.296 ug/L	67.296 ppb	18:38:44
2	Na 589.592 Radial†	-767.2	-26.9	-8.1794 ug/L	-8.1794 ppb	18:38:24
2	Sr 421.552†	34.0	14.9	0.1061 ug/L	0.1061 ppb	18:38:24
2	Sc 361.383	794486.2	794486.2	100.46 %		18:39:41
2	Y 371.029	708073.0	708073.0	100.15 %		18:39:41
2	Ag 328.068†	129.4	-47.7	-0.2375 ug/L	-0.2375 ppb	18:39:41
2	As 188.979†	-28.6	0.1	0.0597 ug/L	0.0597 ppb	18:40:01
2	B 249.677†	-147.1	77.8	1.9339 ug/L	1.9339 ppb	18:40:01
2	Ba 233.527†	-12.6	-8.6	-0.0989 ug/L	-0.0989 ppb	18:40:01
2	Be 313.107†	-9621.3	-244.3	-0.0954 ug/L	-0.0954 ppb	18:39:41
2	Cd 226.502†	-182.7	0.8	0.0101 ug/L	0.0101 ppb	18:40:01
2	Co 228.616†	-69.1	-4.4	-0.1306 ug/L	-0.1306 ppb	18:40:01
2	Cr 267.716†	89.7	28.1	0.3741 ug/L	0.3741 ppb	18:40:01
2	Cu 324.752†	7885.5	125.3	0.4619 ug/L	0.4619 ppb	18:39:41
2	Mn 257.610†	411.0	-21.3	-0.0353 ug/L	-0.0353 ppb	18:40:01
2	Mo 202.031†	15.0	3.0	0.2679 ug/L	0.2679 ppb	18:40:01
2	Ni 231.604†	71.1	-9.7	-0.3006 ug/L	-0.3006 ppb	18:40:01

2	P 214.914†	217.0	17.1	9.2009 ug/L	9.2009 ppb	18:40:01
2	Pb 220.353†	-70.7	-12.8	-2.0367 ug/L	-2.0367 ppb	18:40:01
2	S 181.975 Axial†	51.7	10.5	12.999 ug/L	12.999 ppb	18:40:01
2	Sb 206.836†	28.8	-4.1	-1.6216 ug/L	-1.6216 ppb	18:40:01
2	Se 196.026†	-16.5	2.6	1.5570 ug/L	1.5570 ppb	18:40:01
2	Si 251.611†	590.8	36.9	1.3120 ug/L	1.3120 ppb	18:40:01
2	Sn 189.927†	13.2	0.1	0.0176 ug/L	0.0176 ppb	18:40:01
2	Ti 334.940†	-1293.1	47.6	0.0898 ug/L	0.0898 ppb	18:39:41
2	Tl 190.801†	-39.1	-3.2	-1.4459 ug/L	-1.4459 ppb	18:40:01
2	U 409.014†	-2342.5	37.0	1.2237 ug/L	1.2237 ppb	18:39:41
2	V 292.402†	-1664.0	3.0	0.0293 ug/L	0.0293 ppb	18:39:41
2	Zn 213.857†	743.0	-57.8	-0.6209 ug/L	-0.6209 ppb	18:40:01
2	SiO2†	583.1	20.1	1.5326 ug/L	1.5326 ppb	18:40:37
3	Sc Radial	4820.9	4820.9	102 %		18:38:49
3	Y RADIAL	5108.4	5108.4	101.4 %		18:38:49
3	Al 396.153Radial†	-92.5	-8.6	-7.8774 ug/L	-7.8774 ppb	18:39:09
3	Ca 317.933Radial†	18.7	0.1	0.2598 ug/L	0.2598 ppb	18:39:09
3	Fe 238.204 Radial†	9.1	1.7	17.952 ug/L	17.952 ppb	18:39:09
3	K 766.490 Radial†	2464.2	120.1	22.682 ug/L	22.682 ppb	18:38:49
3	Mg 279.077 IEC†	3.3	1.1	45.185 ug/L	45.185 ppb	18:39:09
3	Na 589.592 Radial†	-750.6	-2.1	-0.6493 ug/L	-0.6493 ppb	18:38:49
3	Sr 421.552†	23.8	4.5	0.0319 ug/L	0.0319 ppb	18:38:49
3	Sc 361.383	798650.1	798650.1	100.99 %		18:40:07
3	Y 371.029	713547.7	713547.7	100.93 %		18:40:07
3	Ag 328.068†	180.6	2.4	0.0169 ug/L	0.0169 ppb	18:40:07
3	As 188.979†	-23.4	5.5	2.3796 ug/L	2.3796 ppb	18:40:27
3	B 249.677†	-190.3	35.8	0.8859 ug/L	0.8859 ppb	18:40:27
3	Ba 233.527†	-0.4	3.6	0.0415 ug/L	0.0415 ppb	18:40:27
3	Be 313.107†	-9613.6	-186.7	-0.0730 ug/L	-0.0730 ppb	18:40:07
3	Cd 226.502†	-185.5	-1.1	-0.0171 ug/L	-0.0171 ppb	18:40:27
3	Co 228.616†	-54.7	10.2	0.3006 ug/L	0.3006 ppb	18:40:27
3	Cr 267.716†	85.2	23.2	0.3091 ug/L	0.3091 ppb	18:40:27
3	Cu 324.752†	7866.9	66.0	0.2450 ug/L	0.2450 ppb	18:40:07
3	Mn 257.610†	429.4	-5.2	-0.0083 ug/L	-0.0083 ppb	18:40:27
3	Mo 202.031†	5.4	-6.6	-0.5967 ug/L	-0.5967 ppb	18:40:27
3	Ni 231.604†	81.0	-0.2	-0.0077 ug/L	-0.0077 ppb	18:40:27
3	P 214.914†	204.6	3.8	1.9681 ug/L	1.9681 ppb	18:40:27
3	Pb 220.353†	-58.3	-0.2	-0.0411 ug/L	-0.0411 ppb	18:40:27
3	S 181.975 Axial†	48.1	6.6	8.2036 ug/L	8.2036 ppb	18:40:27
3	Sb 206.836†	34.3	1.1	0.4175 ug/L	0.4175 ppb	18:40:27
3	Se 196.026†	-16.3	2.8	1.6888 ug/L	1.6888 ppb	18:40:27
3	Si 251.611†	579.5	22.7	0.8165 ug/L	0.8165 ppb	18:40:27
3	Sn 189.927†	12.2	-1.0	-0.2331 ug/L	-0.2331 ppb	18:40:27
3	Ti 334.940†	-1326.8	21.0	0.0383 ug/L	0.0383 ppb	18:40:07
3	Tl 190.801†	-42.1	-6.0	-2.7142 ug/L	-2.7142 ppb	18:40:27
3	U 409.014†	-2429.0	-36.5	-1.2131 ug/L	-1.2131 ppb	18:40:07
3	V 292.402†	-1725.3	-49.0	-0.3934 ug/L	-0.3934 ppb	18:40:07
3	Zn 213.857†	738.8	-65.7	-0.7088 ug/L	-0.7088 ppb	18:40:27
3	SiO2†	588.4	22.3	1.7199 ug/L	1.7199 ppb	18:40:42

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	794749.9	100.50 %	0.477			0.48%
Sc Radial	4781.6	101 %	0.7			0.72%
Y 371.029	709213.7	100.31 %	0.550			0.55%
Y RADIAL	5078.4	100.8 %	0.94			0.93%
Ag 328.068†	-17.9	-0.0842 ug/L	0.13502	-0.0842 ppb	0.13502	160.34%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-8.5	-7.7435 ug/L	2.49019	-7.7435 ppb	2.49019	32.16%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.0	-0.0161 ug/L	2.43453	-0.0161 ppb	2.43453	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	64.5	1.6005 ug/L	0.61934	1.6005 ppb	0.61934	38.70%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.3	0.0030 ug/L	0.08917	0.0030 ppb	0.08917	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-220.6	-0.0862 ug/L	0.01173	-0.0862 ppb	0.01173	13.61%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.3	7.6496 ug/L	6.42528	7.6496 ppb	6.42528	84.00%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	4.0	0.0522 ug/L	0.09748	0.0522 ppb	0.09748	186.68%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	0.7	0.0189 ug/L	0.24414	0.0189 ppb	0.24414	>999.9%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	19.4	0.2597 ug/L	0.14549	0.2597 ppb	0.14549	56.02%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	71.4	0.2653 ug/L	0.18720	0.2653 ppb	0.18720	70.55%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.9	19.766 ug/L	10.6024	19.766 ppb	10.6024	53.64%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	88.1	16.630 ug/L	16.9782	16.630 ppb	16.9782	102.09%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.5	20.709 ug/L	62.5273	20.709 ppb	62.5273	301.93%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-8.5	-0.0123 ug/L	0.02129	-0.0123 ppb	0.02129	173.22%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-0.3	-0.0295 ug/L	0.49141	-0.0295 ppb	0.49141	>999.9%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-11.9	-3.6289 ug/L	4.00332	-3.6289 ppb	4.00332	110.32%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-3.1	-0.0947 ug/L	0.17908	-0.0947 ppb	0.17908	189.19%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	11.1	5.9479 ug/L	3.67075	5.9479 ppb	3.67075	61.71%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-4.1	-0.6588 ug/L	1.19540	-0.6588 ppb	1.19540	181.44%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	6.9	8.5588 ug/L	4.27401	8.5588 ppb	4.27401	49.94%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	3.0	1.1747 ug/L	3.24193	1.1747 ppb	3.24193	275.97%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.8	0.4889 ug/L	1.96526	0.4889 ppb	1.96526	401.99%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	30.5	1.0878 ug/L	0.25112	1.0878 ppb	0.25112	23.08%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.6	0.3647 ug/L	0.82773	0.3647 ppb	0.82773	226.99%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	4.4	0.0315 ug/L	0.07485	0.0315 ppb	0.07485	237.80%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	28.3	0.0560 ug/L	0.02928	0.0560 ppb	0.02928	52.29%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-1.4	-0.6395 ug/L	2.57448	-0.6395 ppb	2.57448	402.60%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-42.5	-1.4128 ug/L	2.74185	-1.4128 ppb	2.74185	194.07%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-42.7	-0.3377 ug/L	0.34255	-0.3377 ppb	0.34255	101.43%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-61.0	-0.6582 ug/L	0.04542	-0.6582 ppb	0.04542	6.90%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	12.4	0.9465 ug/L	1.18114	0.9465 ppb	1.18114	124.79%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 12
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/4/2010 19:43:53
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4457.4	4457.4	93.9 %		19:45:45
1	Y RADIAL	4720.1	4720.1	93.65 %		19:45:45
1	Al 396.153Radial†	5390.1	5823.9	5308.9 ug/L	5308.9 ppb	19:45:45
1	Ca 317.933Radial†	2840.2	3007.1	5381.3 ug/L	5381.3 ppb	19:46:05
1	Fe 238.204 Radial†	500.8	526.2	5476.2 ug/L	5476.2 ppb	19:46:05
1	K 766.490 Radial†	29212.2	28809.5	5433.7 ug/L	5433.7 ppb	19:45:45
1	Mg 279.077 IEC†	133.5	140.1	5520.8 ug/L	5520.8 ppb	19:46:05
1	Na 589.592 Radial†	30084.1	32782.0	9975.2 ug/L	9975.2 ppb	19:45:45
1	Sr 421.552†	70117.5	74668.8	532.04 ug/L	532.04 ppb	19:45:45
1	Sc 361.383	804239.0	804239.0	101.70 %		19:47:02
1	Y 371.029	709259.1	709259.1	100.32 %		19:47:02
1	Ag 328.068†	100267.4	98416.9	497.55 ug/L	497.55 ppb	19:47:07
1	As 188.979†	1135.6	1145.2	502.19 ug/L	502.19 ppb	19:47:27
1	B 249.677†	19750.7	19645.2	486.20 ug/L	486.20 ppb	19:47:07
1	Ba 233.527†	43663.6	42938.7	499.19 ug/L	499.19 ppb	19:47:07
1	Be 313.107†	1280779.3	1268729.0	497.50 ug/L	497.50 ppb	19:47:02
1	Cd 226.502†	36650.0	36220.8	497.78 ug/L	497.78 ppb	19:47:07
1	Co 228.616†	17325.7	17100.8	508.83 ug/L	508.83 ppb	19:47:07
1	Cr 267.716†	37827.7	37135.0	495.78 ug/L	495.78 ppb	19:47:07
1	Cu 324.752†	144445.8	134310.5	495.41 ug/L	495.41 ppb	19:47:07
1	Mn 257.610†	322353.1	316541.0	497.62 ug/L	497.62 ppb	19:47:07
1	Mo 202.031†	5546.6	5442.0	492.50 ug/L	492.50 ppb	19:47:27
1	Ni 231.604†	16485.4	16129.7	497.66 ug/L	497.66 ppb	19:47:07
1	P 214.914†	4858.1	4578.2	2386.7 ug/L	2386.7 ppb	19:47:27
1	Pb 220.353†	3119.6	3125.0	497.93 ug/L	497.93 ppb	19:47:27
1	S 181.975 Axial†	850.7	795.4	987.11 ug/L	987.11 ppb	19:47:27
1	Sb 206.836†	1308.1	1253.4	509.05 ug/L	509.05 ppb	19:47:27
1	Se 196.026†	833.0	838.1	511.81 ug/L	511.81 ppb	19:47:27
1	Si 251.611†	71338.8	69596.7	2476.0 ug/L	2476.0 ppb	19:47:07
1	Sn 189.927†	2199.0	2149.2	491.82 ug/L	491.82 ppb	19:47:27
1	Ti 334.940†	252765.5	249880.3	494.92 ug/L	494.92 ppb	19:47:07
1	Tl 190.801†	1075.5	1093.2	498.94 ug/L	498.94 ppb	19:47:27
1	U 409.014†	12714.4	14870.7	491.35 ug/L	491.35 ppb	19:47:07
1	V 292.402†	62904.1	63513.3	499.71 ug/L	499.71 ppb	19:47:07
1	Zn 213.857†	47898.8	46301.8	492.86 ug/L	492.86 ppb	19:47:07
1	SiO2†	70667.5	68927.3	5261.1 ug/L	5261.1 ppb	19:48:34
2	Sc Radial	4745.0	4745.0	99.9 %		19:46:10
2	Y RADIAL	4992.2	4992.2	99.05 %		19:46:10
2	Al 396.153Radial†	5367.9	5453.6	4969.8 ug/L	4969.8 ppb	19:46:10
2	Ca 317.933Radial†	2813.7	2797.2	5005.7 ug/L	5005.7 ppb	19:46:30
2	Fe 238.204 Radial†	494.0	487.0	5069.3 ug/L	5069.3 ppb	19:46:30
2	K 766.490 Radial†	29371.2	27082.2	5107.9 ug/L	5107.9 ppb	19:46:10
2	Mg 279.077 IEC†	131.6	129.6	5107.2 ug/L	5107.2 ppb	19:46:30
2	Na 589.592 Radial†	30132.8	30888.0	9398.9 ug/L	9398.9 ppb	19:46:10
2	Sr 421.552†	70243.9	70267.3	500.68 ug/L	500.68 ppb	19:46:10
2	Sc 361.383	809629.4	809629.4	102.38 %		19:47:33
2	Y 371.029	714095.9	714095.9	101.01 %		19:47:33
2	Ag 328.068†	99653.8	97161.2	491.11 ug/L	491.11 ppb	19:47:38
2	As 188.979†	1138.4	1140.5	500.01 ug/L	500.01 ppb	19:47:58
2	B 249.677†	19704.2	19470.5	481.94 ug/L	481.94 ppb	19:47:38
2	Ba 233.527†	43539.8	42531.9	494.46 ug/L	494.46 ppb	19:47:38
2	Be 313.107†	1288860.9	1268238.0	497.29 ug/L	497.29 ppb	19:47:33
2	Cd 226.502†	36701.2	36030.8	495.20 ug/L	495.20 ppb	19:47:38
2	Co 228.616†	17290.1	16952.6	504.44 ug/L	504.44 ppb	19:47:38
2	Cr 267.716†	37839.1	36898.5	492.61 ug/L	492.61 ppb	19:47:38
2	Cu 324.752†	143249.3	132196.2	487.59 ug/L	487.59 ppb	19:47:38
2	Mn 257.610†	321838.4	313927.8	493.49 ug/L	493.49 ppb	19:47:38
2	Mo 202.031†	5594.6	5452.5	493.41 ug/L	493.41 ppb	19:47:58
2	Ni 231.604†	16557.8	16092.5	496.52 ug/L	496.52 ppb	19:47:38

2	P 214.914†	4858.4	4546.7	2371.4 ug/L	2371.4 ppb	19:47:58
2	Pb 220.353†	3122.5	3107.4	495.09 ug/L	495.09 ppb	19:47:58
2	S 181.975 Axial†	862.7	801.6	994.80 ug/L	994.80 ppb	19:47:58
2	Sb 206.836†	1306.7	1243.5	505.17 ug/L	505.17 ppb	19:47:58
2	Se 196.026†	831.5	831.1	506.75 ug/L	506.75 ppb	19:47:58
2	Si 251.611†	71080.6	68877.4	2450.3 ug/L	2450.3 ppb	19:47:38
2	Sn 189.927†	2206.9	2142.6	490.25 ug/L	490.25 ppb	19:47:58
2	Ti 334.940†	251681.3	247166.5	489.53 ug/L	489.53 ppb	19:47:38
2	Tl 190.801†	1070.6	1081.4	493.52 ug/L	493.52 ppb	19:47:58
2	U 409.014†	12689.6	14763.3	487.85 ug/L	487.85 ppb	19:47:38
2	V 292.402†	62979.8	63175.3	497.15 ug/L	497.15 ppb	19:47:38
2	Zn 213.857†	47766.2	45858.7	488.18 ug/L	488.18 ppb	19:47:38
2	SiO2†	72013.2	69779.2	5326.3 ug/L	5326.3 ppb	19:48:39
3	Sc Radial	4742.6	4742.6	99.9 %		19:46:35
3	Y RADIAL	4982.3	4982.3	98.85 %		19:46:35
3	Al 396.153Radial†	5350.5	5439.0	4956.3 ug/L	4956.3 ppb	19:46:35
3	Ca 317.933Radial†	2837.3	2822.2	5050.4 ug/L	5050.4 ppb	19:46:55
3	Fe 238.204 Radial†	496.9	490.2	5102.8 ug/L	5102.8 ppb	19:46:55
3	K 766.490 Radial†	29384.2	27110.5	5113.2 ug/L	5113.2 ppb	19:46:35
3	Mg 279.077 IEC†	132.0	130.0	5124.1 ug/L	5124.1 ppb	19:46:55
3	Na 589.592 Radial†	30075.6	30846.5	9386.2 ug/L	9386.2 ppb	19:46:35
3	Sr 421.552†	70109.7	70169.5	499.98 ug/L	499.98 ppb	19:46:35
3	Sc 361.383	806083.6	806083.6	101.93 %		19:48:03
3	Y 371.029	710271.3	710271.3	100.46 %		19:48:03
3	Ag 328.068†	100231.9	98156.6	496.14 ug/L	496.14 ppb	19:48:09
3	As 188.979†	1138.7	1145.8	502.35 ug/L	502.35 ppb	19:48:29
3	B 249.677†	19839.3	19687.7	487.31 ug/L	487.31 ppb	19:48:09
3	Ba 233.527†	43923.1	43095.0	501.00 ug/L	501.00 ppb	19:48:09
3	Be 313.107†	1282795.2	1267824.8	497.14 ug/L	497.14 ppb	19:48:03
3	Cd 226.502†	36959.4	36441.8	500.85 ug/L	500.85 ppb	19:48:09
3	Co 228.616†	17468.6	17202.0	511.85 ug/L	511.85 ppb	19:48:09
3	Cr 267.716†	38118.7	37335.3	498.45 ug/L	498.45 ppb	19:48:09
3	Cu 324.752†	144399.7	133940.3	494.03 ug/L	494.03 ppb	19:48:09
3	Mn 257.610†	324141.4	317570.0	499.22 ug/L	499.22 ppb	19:48:09
3	Mo 202.031†	5585.8	5468.0	494.81 ug/L	494.81 ppb	19:48:29
3	Ni 231.604†	16660.6	16264.5	501.82 ug/L	501.82 ppb	19:48:09
3	P 214.914†	4874.8	4583.6	2390.1 ug/L	2390.1 ppb	19:48:29
3	Pb 220.353†	3139.0	3137.0	499.79 ug/L	499.79 ppb	19:48:29
3	S 181.975 Axial†	870.0	812.4	1008.3 ug/L	1008.3 ppb	19:48:29
3	Sb 206.836†	1304.8	1247.2	506.66 ug/L	506.66 ppb	19:48:29
3	Se 196.026†	828.9	832.2	507.45 ug/L	507.45 ppb	19:48:29
3	Si 251.611†	71708.9	69799.2	2483.2 ug/L	2483.2 ppb	19:48:09
3	Sn 189.927†	2200.4	2145.7	490.97 ug/L	490.97 ppb	19:48:29
3	Ti 334.940†	253576.1	250106.8	495.35 ug/L	495.35 ppb	19:48:09
3	Tl 190.801†	1082.7	1097.9	501.03 ug/L	501.03 ppb	19:48:29
3	U 409.014†	12580.9	14711.2	486.10 ug/L	486.10 ppb	19:48:09
3	V 292.402†	63360.5	63819.5	502.15 ug/L	502.15 ppb	19:48:09
3	Zn 213.857†	48003.4	46296.6	492.83 ug/L	492.83 ppb	19:48:09
3	SiO2†	71107.5	69200.0	5281.9 ug/L	5281.9 ppb	19:48:44

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	806650.6	102.00 %	0.346			0.34%
Sc Radial	4648.3	97.9 %	3.48			3.56%
Y 371.029	711208.7	100.60 %	0.361			0.36%
Y RADIAL	4898.2	97.18 %	3.062			3.15%
Ag 328.068†	97911.6	494.94 ug/L	3.384	494.94 ppb	3.384	0.68%
QC value within limits for Ag 328.068 Recovery = 98.99%						
Al 396.153Radial†	5572.2	5078.3 ug/L	199.80	5078.3 ppb	199.80	3.93%
QC value within limits for Al 396.153Radial Recovery = 101.57%						
As 188.979†	1143.8	501.52 ug/L	1.311	501.52 ppb	1.311	0.26%
QC value within limits for As 188.979 Recovery = 100.30%						
B 249.677†	19601.1	485.15 ug/L	2.838	485.15 ppb	2.838	0.58%
QC value within limits for B 249.677 Recovery = 97.03%						
Ba 233.527†	42855.2	498.22 ug/L	3.379	498.22 ppb	3.379	0.68%
QC value within limits for Ba 233.527 Recovery = 99.64%						
Be 313.107†	1268263.9	497.31 ug/L	0.177	497.31 ppb	0.177	0.04%
QC value within limits for Be 313.107 Recovery = 99.46%						
Ca 317.933Radial†	2875.5	5145.8 ug/L	205.17	5145.8 ppb	205.17	3.99%

QC value within limits for Ca 317.933 Radial Recovery = 102.92%

Cd 226.502†	36231.1	497.94 ug/L	2.829	497.94 ppb	2.829	0.57%
QC value within limits for Cd 226.502 Recovery = 99.59%						
Co 228.616†	17085.1	508.38 ug/L	3.728	508.38 ppb	3.728	0.73%
QC value within limits for Co 228.616 Recovery = 101.68%						
Cr 267.716†	37122.9	495.61 ug/L	2.920	495.61 ppb	2.920	0.59%
QC value within limits for Cr 267.716 Recovery = 99.12%						
Cu 324.752†	133482.3	492.34 ug/L	4.172	492.34 ppb	4.172	0.85%
QC value within limits for Cu 324.752 Recovery = 98.47%						
Fe 238.204 Radial†	501.1	5216.1 ug/L	225.85	5216.1 ppb	225.85	4.33%
QC value within limits for Fe 238.204 Radial Recovery = 104.32%						
K 766.490 Radial†	27667.4	5218.2 ug/L	186.59	5218.2 ppb	186.59	3.58%
QC value within limits for K 766.490 Radial Recovery = 104.36%						
Mg 279.077 IEC†	133.3	5250.7 ug/L	234.06	5250.7 ppb	234.06	4.46%
QC value within limits for Mg 279.077 IEC Recovery = 105.01%						
Mn 257.610†	316012.9	496.78 ug/L	2.954	496.78 ppb	2.954	0.59%
QC value within limits for Mn 257.610 Recovery = 99.36%						
Mo 202.031†	5454.2	493.57 ug/L	1.165	493.57 ppb	1.165	0.24%
QC value within limits for Mo 202.031 Recovery = 98.71%						
Na 589.592 Radial†	31505.5	9586.7 ug/L	336.44	9586.7 ppb	336.44	3.51%
QC value within limits for Na 589.592 Radial Recovery = 95.87%						
Ni 231.604†	16162.2	498.67 ug/L	2.793	498.67 ppb	2.793	0.56%
QC value within limits for Ni 231.604 Recovery = 99.73%						
P 214.914†	4569.5	2382.7 ug/L	9.97	2382.7 ppb	9.97	0.42%
QC value within limits for P 214.914 Recovery = 95.31%						
Pb 220.353†	3123.2	497.60 ug/L	2.365	497.60 ppb	2.365	0.48%
QC value within limits for Pb 220.353 Recovery = 99.52%						
S 181.975 Axial†	803.2	996.73 ug/L	10.722	996.73 ppb	10.722	1.08%
QC value within limits for S 181.975 Axial Recovery = 99.67%						
Sb 206.836†	1248.0	506.96 ug/L	1.958	506.96 ppb	1.958	0.39%
QC value within limits for Sb 206.836 Recovery = 101.39%						
Se 196.026†	833.8	508.67 ug/L	2.743	508.67 ppb	2.743	0.54%
QC value within limits for Se 196.026 Recovery = 101.73%						
Si 251.611†	69424.4	2469.8 ug/L	17.27	2469.8 ppb	17.27	0.70%
QC value within limits for Si 251.611 Recovery = 98.79%						
Sn 189.927†	2145.8	491.01 ug/L	0.784	491.01 ppb	0.784	0.16%
QC value within limits for Sn 189.927 Recovery = 98.20%						
Sr 421.552†	71701.9	510.90 ug/L	18.311	510.90 ppb	18.311	3.58%
QC value within limits for Sr 421.552 Recovery = 102.18%						
Ti 334.940†	249051.2	493.27 ug/L	3.246	493.27 ppb	3.246	0.66%
QC value within limits for Ti 334.940 Recovery = 98.65%						
Tl 190.801†	1090.8	497.83 ug/L	3.875	497.83 ppb	3.875	0.78%
QC value within limits for Tl 190.801 Recovery = 99.57%						
U 409.014†	14781.7	488.43 ug/L	2.676	488.43 ppb	2.676	0.55%
QC value within limits for U 409.014 Recovery = 97.69%						
V 292.402†	63502.7	499.67 ug/L	2.503	499.67 ppb	2.503	0.50%
QC value within limits for V 292.402 Recovery = 99.93%						
Zn 213.857†	46152.4	491.29 ug/L	2.696	491.29 ppb	2.696	0.55%
QC value within limits for Zn 213.857 Recovery = 98.26%						
SiO2†	69302.2	5289.8 ug/L	33.28	5289.8 ppb	33.28	0.63%
QC value within limits for SiO2 Recovery = 98.92%						

All analyte(s) passed QC.

Sequence No.: 13
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/4/2010 19:50:55
 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	4801.3	4801.3	101 %		19:52:46
1	Y RADIAL	5114.1	5114.1	101.5 %		19:52:46
1	Al 396.153Radial†	-90.0	-6.6	-6.0204 ug/L	-6.0204 ppb	19:53:06
1	Ca 317.933Radial†	27.4	8.8	15.771 ug/L	15.771 ppb	19:53:06
1	Fe 238.204 Radial†	5.8	-1.6	-16.096 ug/L	-16.096 ppb	19:53:06
1	K 766.490 Radial†	2552.1	217.0	40.973 ug/L	40.973 ppb	19:52:46
1	Mg 279.077 IEC†	1.3	-0.8	-32.315 ug/L	-32.315 ppb	19:53:06
1	Na 589.592 Radial†	-773.3	-27.6	-8.4052 ug/L	-8.4052 ppb	19:52:46
1	Sr 421.552†	53.0	33.5	0.2383 ug/L	0.2383 ppb	19:52:46
1	Sc 361.383	790407.7	790407.7	99.949 %		19:54:03
1	Y 371.029	706608.7	706608.7	99.946 %		19:54:03
1	Ag 328.068†	170.6	-5.7	-0.0346 ug/L	-0.0346 ppb	19:54:03
1	As 188.979†	-38.5	-9.9	-4.3074 ug/L	-4.3074 ppb	19:54:23
1	B 249.677†	-218.4	5.7	0.1442 ug/L	0.1442 ppb	19:54:23
1	Ba 233.527†	3.4	7.5	0.0850 ug/L	0.0850 ppb	19:54:23
1	Be 313.107†	-9535.2	-207.6	-0.0812 ug/L	-0.0812 ppb	19:54:03
1	Cd 226.502†	-181.7	0.9	0.0139 ug/L	0.0139 ppb	19:54:23
1	Co 228.616†	-58.6	5.7	0.1703 ug/L	0.1703 ppb	19:54:23
1	Cr 267.716†	67.1	5.9	0.0779 ug/L	0.0779 ppb	19:54:23
1	Cu 324.752†	7974.9	255.2	0.9413 ug/L	0.9413 ppb	19:54:03
1	Mn 257.610†	453.3	23.1	0.0360 ug/L	0.0360 ppb	19:54:23
1	Mo 202.031†	15.3	3.3	0.3000 ug/L	0.3000 ppb	19:54:23
1	Ni 231.604†	112.3	31.8	0.9828 ug/L	0.9828 ppb	19:54:23
1	P 214.914†	189.1	-9.6	-5.3813 ug/L	-5.3813 ppb	19:54:23
1	Pb 220.353†	-76.0	-18.5	-2.9331 ug/L	-2.9331 ppb	19:54:23
1	S 181.975 Axial†	38.1	-2.9	-3.6336 ug/L	-3.6336 ppb	19:54:23
1	Sb 206.836†	37.3	4.5	1.7520 ug/L	1.7520 ppb	19:54:23
1	Se 196.026†	-25.6	-6.7	-4.0091 ug/L	-4.0091 ppb	19:54:23
1	Si 251.611†	729.7	178.9	6.3782 ug/L	6.3782 ppb	19:54:23
1	Sn 189.927†	12.2	-0.8	-0.1832 ug/L	-0.1832 ppb	19:54:23
1	Ti 334.940†	-1328.0	6.1	0.0173 ug/L	0.0173 ppb	19:54:03
1	Tl 190.801†	-40.9	-5.2	-2.3568 ug/L	-2.3568 ppb	19:54:23
1	U 409.014†	-2407.5	-40.1	-1.3286 ug/L	-1.3286 ppb	19:54:03
1	V 292.402†	-1711.3	-52.9	-0.4071 ug/L	-0.4071 ppb	19:54:03
1	Zn 213.857†	767.1	-29.8	-0.3253 ug/L	-0.3253 ppb	19:54:23
1	SiO2†	732.6	172.7	13.206 ug/L	13.206 ppb	19:55:19
2	Sc Radial	4839.6	4839.6	102 %		19:53:11
2	Y RADIAL	5115.3	5115.3	101.5 %		19:53:11
2	Al 396.153Radial†	-73.3	10.5	9.6475 ug/L	9.6475 ppb	19:53:31
2	Ca 317.933Radial†	21.1	2.4	4.3490 ug/L	4.3490 ppb	19:53:31
2	Fe 238.204 Radial†	6.8	-0.6	-6.3349 ug/L	-6.3349 ppb	19:53:31
2	K 766.490 Radial†	2555.4	200.2	37.807 ug/L	37.807 ppb	19:53:11
2	Mg 279.077 IEC†	0.1	-2.0	-77.708 ug/L	-77.708 ppb	19:53:31
2	Na 589.592 Radial†	-780.1	-28.3	-8.6030 ug/L	-8.6030 ppb	19:53:11
2	Sr 421.552†	43.4	23.7	0.1686 ug/L	0.1686 ppb	19:53:11
2	Sc 361.383	788301.0	788301.0	99.682 %		19:54:28
2	Y 371.029	704239.0	704239.0	99.611 %		19:54:28
2	Ag 328.068†	232.3	56.6	0.2783 ug/L	0.2783 ppb	19:54:28
2	As 188.979†	-41.6	-13.2	-5.7214 ug/L	-5.7214 ppb	19:54:49
2	B 249.677†	-197.7	25.9	0.6454 ug/L	0.6454 ppb	19:54:49
2	Ba 233.527†	4.1	8.1	0.0941 ug/L	0.0941 ppb	19:54:49
2	Be 313.107†	-9571.5	-269.5	-0.1055 ug/L	-0.1055 ppb	19:54:28
2	Cd 226.502†	-185.6	-3.6	-0.0476 ug/L	-0.0476 ppb	19:54:49
2	Co 228.616†	-57.5	6.7	0.1989 ug/L	0.1989 ppb	19:54:49
2	Cr 267.716†	45.5	-15.6	-0.2104 ug/L	-0.2104 ppb	19:54:49
2	Cu 324.752†	7953.7	255.3	0.9384 ug/L	0.9384 ppb	19:54:28
2	Mn 257.610†	473.1	44.2	0.0719 ug/L	0.0719 ppb	19:54:49
2	Mo 202.031†	12.5	0.5	0.0476 ug/L	0.0476 ppb	19:54:49
2	Ni 231.604†	78.1	-2.2	-0.0665 ug/L	-0.0665 ppb	19:54:49

2	P 214.914†	209.8	11.7	6.1628 ug/L	6.1628 ppb	19:54:49
2	Pb 220.353†	-47.2	10.1	1.6091 ug/L	1.6091 ppb	19:54:49
2	S 181.975 Axial†	43.0	2.1	2.5911 ug/L	2.5911 ppb	19:54:49
2	Sb 206.836†	33.5	0.8	0.3119 ug/L	0.3119 ppb	19:54:49
2	Se 196.026†	-19.3	-0.4	-0.2230 ug/L	-0.2230 ppb	19:54:49
2	Si 251.611†	736.5	187.7	6.6947 ug/L	6.6947 ppb	19:54:49
2	Sn 189.927†	15.9	2.9	0.6572 ug/L	0.6572 ppb	19:54:49
2	Ti 334.940†	-1350.6	-20.1	-0.0350 ug/L	-0.0350 ppb	19:54:28
2	Tl 190.801†	-36.8	-1.2	-0.5536 ug/L	-0.5536 ppb	19:54:49
2	U 409.014†	-2209.3	152.3	5.0514 ug/L	5.0514 ppb	19:54:28
2	V 292.402†	-1653.4	0.7	0.0151 ug/L	0.0151 ppb	19:54:28
2	Zn 213.857†	757.9	-37.0	-0.3972 ug/L	-0.3972 ppb	19:54:49
2	SiO2†	701.6	143.5	10.983 ug/L	10.983 ppb	19:55:24
3	Sc Radial	4853.5	4853.5	102 %		19:53:36
3	Y RADIAL	5129.8	5129.8	101.8 %		19:53:36
3	Al 396.153Radial†	-82.5	1.8	1.6015 ug/L	1.6015 ppb	19:53:56
3	Ca 317.933Radial†	20.5	1.7	3.1294 ug/L	3.1294 ppb	19:53:56
3	Fe 238.204 Radial†	8.5	1.0	10.436 ug/L	10.436 ppb	19:53:56
3	K 766.490 Radial†	2604.2	240.8	45.470 ug/L	45.470 ppb	19:53:36
3	Mg 279.077 IEC†	1.8	-0.4	-14.995 ug/L	-14.995 ppb	19:53:56
3	Na 589.592 Radial†	-777.0	-23.0	-7.0023 ug/L	-7.0023 ppb	19:53:36
3	Sr 421.552†	18.1	-1.3	-0.0090 ug/L	-0.0090 ppb	19:53:36
3	Sc 361.383	801602.0	801602.0	101.36 %		19:54:54
3	Y 371.029	715201.6	715201.6	101.16 %		19:54:54
3	Ag 328.068†	131.6	-46.6	-0.2259 ug/L	-0.2259 ppb	19:54:54
3	As 188.979†	-35.4	-6.3	-2.7285 ug/L	-2.7285 ppb	19:55:14
3	B 249.677†	-214.4	12.8	0.3143 ug/L	0.3143 ppb	19:55:14
3	Ba 233.527†	-4.0	0.1	0.0018 ug/L	0.0018 ppb	19:55:14
3	Be 313.107†	-9660.4	-197.8	-0.0770 ug/L	-0.0770 ppb	19:54:54
3	Cd 226.502†	-184.0	1.1	0.0134 ug/L	0.0134 ppb	19:55:14
3	Co 228.616†	-48.5	16.5	0.4907 ug/L	0.4907 ppb	19:55:14
3	Cr 267.716†	66.0	3.9	0.0543 ug/L	0.0543 ppb	19:55:14
3	Cu 324.752†	8039.7	207.8	0.7697 ug/L	0.7697 ppb	19:54:54
3	Mn 257.610†	472.6	35.8	0.0579 ug/L	0.0579 ppb	19:55:14
3	Mo 202.031†	13.4	1.2	0.1111 ug/L	0.1111 ppb	19:55:14
3	Ni 231.604†	96.2	14.5	0.4460 ug/L	0.4460 ppb	19:55:14
3	P 214.914†	207.0	5.4	2.7556 ug/L	2.7556 ppb	19:55:14
3	Pb 220.353†	-46.7	11.4	1.8111 ug/L	1.8111 ppb	19:55:14
3	S 181.975 Axial†	43.5	1.9	2.3773 ug/L	2.3773 ppb	19:55:14
3	Sb 206.836†	38.9	5.5	2.1899 ug/L	2.1899 ppb	19:55:14
3	Se 196.026†	-23.5	-4.2	-2.4611 ug/L	-2.4611 ppb	19:55:14
3	Si 251.611†	727.0	166.1	5.9225 ug/L	5.9225 ppb	19:55:14
3	Sn 189.927†	16.8	3.5	0.8009 ug/L	0.8009 ppb	19:55:14
3	Ti 334.940†	-1264.2	87.6	0.1774 ug/L	0.1774 ppb	19:54:54
3	Tl 190.801†	-24.7	11.3	5.1310 ug/L	5.1310 ppb	19:55:14
3	U 409.014†	-2558.0	-155.0	-5.1394 ug/L	-5.1394 ppb	19:54:54
3	V 292.402†	-1652.7	28.8	0.2135 ug/L	0.2135 ppb	19:54:54
3	Zn 213.857†	751.0	-56.4	-0.6110 ug/L	-0.6110 ppb	19:55:14
3	SiO2†	754.2	183.7	14.052 ug/L	14.052 ppb	19:55:29

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793436.9	100.33 %	0.904			0.90%
Sc Radial	4831.5	102 %	0.6			0.56%
Y 371.029	708683.1	100.24 %	0.816			0.81%
Y RADIAL	5119.7	101.6 %	0.17			0.17%
Ag 328.068†	1.4	0.0060 ug/L	0.25453	0.0060 ppb	0.25453	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.9	1.7429 ug/L	7.83488	1.7429 ppb	7.83488	449.53%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-9.8	-4.2524 ug/L	1.49720	-4.2524 ppb	1.49720	35.21%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	14.8	0.3680 ug/L	0.25491	0.3680 ppb	0.25491	69.28%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.2	0.0603 ug/L	0.05085	0.0603 ppb	0.05085	84.29%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-225.0	-0.0879 ug/L	0.01540	-0.0879 ppb	0.01540	17.52%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.3	7.7497 ug/L	6.97320	7.7497 ppb	6.97320	89.98%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-0.5	-0.0068 ug/L	0.03533	-0.0068 ppb	0.03533	522.73%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	9.6	0.2866 ug/L	0.17732	0.2866 ppb	0.17732	61.86%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-2.0	-0.0261 ug/L	0.16012	-0.0261 ppb	0.16012	614.17%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	239.4	0.8832 ug/L	0.09828	0.8832 ppb	0.09828	11.13%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.4	-3.9985 ug/L	13.41951	-3.9985 ppb	13.41951	335.62%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	219.3	41.417 ug/L	3.8508	41.417 ppb	3.8508	9.30%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.1	-41.673 ug/L	32.3871	-41.673 ppb	32.3871	77.72%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	34.4	0.0553 ug/L	0.01809	0.0553 ppb	0.01809	32.72%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	1.7	0.1529 ug/L	0.13130	0.1529 ppb	0.13130	85.88%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-26.3	-8.0035 ug/L	0.87272	-8.0035 ppb	0.87272	10.90%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	14.7	0.4541 ug/L	0.52469	0.4541 ppb	0.52469	115.55%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	2.5	1.1790 ug/L	5.93136	1.1790 ppb	5.93136	503.07%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	1.0	0.1624 ug/L	2.68266	0.1624 ppb	2.68266	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	0.4	0.4449 ug/L	3.53372	0.4449 ppb	3.53372	794.24%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	3.6	1.4179 ug/L	0.98255	1.4179 ppb	0.98255	69.29%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.7	-2.2311 ug/L	1.90348	-2.2311 ppb	1.90348	85.32%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	177.6	6.3318 ug/L	0.38819	6.3318 ppb	0.38819	6.13%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.9	0.4250 ug/L	0.53157	0.4250 ppb	0.53157	125.08%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	18.6	0.1326 ug/L	0.12748	0.1326 ppb	0.12748	96.12%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	24.5	0.0532 ug/L	0.11069	0.0532 ppb	0.11069	207.90%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.6	0.7402 ug/L	3.90799	0.7402 ppb	3.90799	527.96%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-14.3	-0.4722 ug/L	5.14911	-0.4722 ppb	5.14911	>999.9%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-7.8	-0.0595 ug/L	0.31694	-0.0595 ppb	0.31694	532.93%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-41.0	-0.4445 ug/L	0.14861	-0.4445 ppb	0.14861	33.43%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	166.6	12.747 ug/L	1.5850	12.747 ppb	1.5850	12.43%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 21

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/4/2010 20:45:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4495.4	4495.4	94.7 %		20:48:01
1	Y RADIAL	5001.8	5001.8	99.24 %		20:47:41
1	Al 396.153Radial†	5295.5	5675.4	5173.3 ug/L	5173.3 ppb	20:47:41
1	Ca 317.933Radial†	2784.9	2923.0	5230.9 ug/L	5230.9 ppb	20:48:01
1	Fe 238.204 Radial†	466.7	485.7	5055.3 ug/L	5055.3 ppb	20:48:01
1	K 766.490 Radial†	28815.3	28127.1	5305.4 ug/L	5305.4 ppb	20:47:41
1	Mg 279.077 IEC†	130.9	136.1	5363.7 ug/L	5363.7 ppb	20:48:01
1	Na 589.592 Radial†	26602.4	28833.7	8773.8 ug/L	8773.8 ppb	20:47:41
1	Sr 421.552†	66002.8	69691.2	496.57 ug/L	496.57 ppb	20:47:41
1	Sc 361.383	811483.8	811483.8	102.61 %		20:48:58
1	Y 371.029	716325.5	716325.5	101.32 %		20:48:58
1	Ag 328.068†	101161.0	98407.5	497.38 ug/L	497.38 ppb	20:49:03
1	As 188.979†	1142.2	1141.7	500.58 ug/L	500.58 ppb	20:49:23
1	B 249.677†	20055.1	19768.4	489.40 ug/L	489.40 ppb	20:49:03
1	Ba 233.527†	43956.1	42840.4	498.04 ug/L	498.04 ppb	20:49:03
1	Be 313.107†	1281853.4	1258532.0	493.51 ug/L	493.51 ppb	20:48:58
1	Cd 226.502†	36790.9	36036.3	495.28 ug/L	495.28 ppb	20:49:03
1	Co 228.616†	16710.7	16349.4	486.47 ug/L	486.47 ppb	20:49:23
1	Cr 267.716†	38121.6	37089.3	495.16 ug/L	495.16 ppb	20:49:03
1	Cu 324.752†	145951.8	134510.1	496.12 ug/L	496.12 ppb	20:49:03
1	Mn 257.610†	324568.1	315869.6	496.53 ug/L	496.53 ppb	20:49:03
1	Mo 202.031†	5514.1	5361.6	485.20 ug/L	485.20 ppb	20:49:23
1	Ni 231.604†	16573.9	16071.2	495.87 ug/L	495.87 ppb	20:49:03
1	P 214.914†	4799.9	4478.8	2332.8 ug/L	2332.8 ppb	20:49:23
1	Pb 220.353†	3091.8	3070.5	489.26 ug/L	489.26 ppb	20:49:23
1	S 181.975 Axial†	841.7	779.3	967.03 ug/L	967.03 ppb	20:49:23
1	Sb 206.836†	1291.9	1226.1	498.02 ug/L	498.02 ppb	20:49:23
1	Se 196.026†	827.6	825.5	503.40 ug/L	503.40 ppb	20:49:23
1	Si 251.611†	72016.1	69630.4	2477.3 ug/L	2477.3 ppb	20:49:03
1	Sn 189.927†	2164.0	2095.8	479.61 ug/L	479.61 ppb	20:49:23
1	Ti 334.940†	254588.4	249437.8	494.03 ug/L	494.03 ppb	20:49:03
1	Tl 190.801†	1065.3	1073.9	490.25 ug/L	490.25 ppb	20:49:23
1	U 409.014†	12943.7	14982.6	495.11 ug/L	495.11 ppb	20:49:03
1	V 292.402†	63616.7	63655.4	500.78 ug/L	500.78 ppb	20:49:03
1	Zn 213.857†	48174.4	46149.9	491.30 ug/L	491.30 ppb	20:49:03
1	SiO2†	71188.1	68814.4	5252.7 ug/L	5252.7 ppb	20:50:30
2	Sc Radial	4486.9	4486.9	94.5 %		20:48:26
2	Y RADIAL	5015.6	5015.6	99.51 %		20:48:06
2	Al 396.153Radial†	5348.4	5742.0	5234.0 ug/L	5234.0 ppb	20:48:06
2	Ca 317.933Radial†	2784.4	2928.1	5240.0 ug/L	5240.0 ppb	20:48:26
2	Fe 238.204 Radial†	469.0	489.0	5089.8 ug/L	5089.8 ppb	20:48:26
2	K 766.490 Radial†	28982.3	28361.7	5349.6 ug/L	5349.6 ppb	20:48:06
2	Mg 279.077 IEC†	128.9	134.3	5291.0 ug/L	5291.0 ppb	20:48:26
2	Na 589.592 Radial†	26799.2	29095.4	8853.4 ug/L	8853.4 ppb	20:48:06
2	Sr 421.552†	66329.2	70169.2	499.98 ug/L	499.98 ppb	20:48:06
2	Sc 361.383	808478.5	808478.5	102.23 %		20:49:29
2	Y 371.029	713164.5	713164.5	100.87 %		20:49:29
2	Ag 328.068†	100003.9	97642.2	493.54 ug/L	493.54 ppb	20:49:34
2	As 188.979†	1134.7	1138.5	499.18 ug/L	499.18 ppb	20:49:54
2	B 249.677†	19813.3	19604.6	485.30 ug/L	485.30 ppb	20:49:34
2	Ba 233.527†	43603.5	42654.7	495.88 ug/L	495.88 ppb	20:49:34
2	Be 313.107†	1279752.2	1261120.3	494.51 ug/L	494.51 ppb	20:49:29
2	Cd 226.502†	36627.5	36009.8	494.91 ug/L	494.91 ppb	20:49:34
2	Co 228.616†	16854.1	16550.2	492.46 ug/L	492.46 ppb	20:49:54
2	Cr 267.716†	37887.0	36997.9	493.94 ug/L	493.94 ppb	20:49:34
2	Cu 324.752†	143970.3	133100.6	490.93 ug/L	490.93 ppb	20:49:34
2	Mn 257.610†	322171.1	314700.8	494.70 ug/L	494.70 ppb	20:49:34
2	Mo 202.031†	5557.2	5423.7	490.81 ug/L	490.81 ppb	20:49:54
2	Ni 231.604†	16507.0	16065.8	495.70 ug/L	495.70 ppb	20:49:34

2	P 214.914†	4858.1	4553.1	2374.2 ug/L	2374.2 ppb	20:49:54
2	Pb 220.353†	3123.4	3112.6	495.98 ug/L	495.98 ppb	20:49:54
2	S 181.975 Axial†	855.6	795.8	987.61 ug/L	987.61 ppb	20:49:54
2	Sb 206.836†	1311.7	1250.2	507.69 ug/L	507.69 ppb	20:49:54
2	Se 196.026†	837.0	837.6	510.69 ug/L	510.69 ppb	20:49:54
2	Si 251.611†	71472.4	69359.5	2467.6 ug/L	2467.6 ppb	20:49:34
2	Sn 189.927†	2191.7	2130.7	487.59 ug/L	487.59 ppb	20:49:54
2	Ti 334.940†	252170.0	247994.4	491.18 ug/L	491.18 ppb	20:49:34
2	Tl 190.801†	1080.7	1092.7	498.74 ug/L	498.74 ppb	20:49:54
2	U 409.014†	12683.8	14775.3	488.24 ug/L	488.24 ppb	20:49:34
2	V 292.402†	62990.0	63272.9	497.87 ug/L	497.87 ppb	20:49:34
2	Zn 213.857†	47781.8	45940.5	489.05 ug/L	489.05 ppb	20:49:34
2	SiO2†	71392.5	69272.2	5287.5 ug/L	5287.5 ppb	20:50:35
3	Sc Radial	4478.3	4478.3	94.3 %		20:48:51
3	Y RADIAL	4943.3	4943.3	98.08 %		20:48:31
3	Al 396.153Radial†	5281.8	5682.3	5179.5 ug/L	5179.5 ppb	20:48:31
3	Ca 317.933Radial†	2762.9	2911.0	5209.4 ug/L	5209.4 ppb	20:48:51
3	Fe 238.204 Radial†	469.2	490.2	5101.8 ug/L	5101.8 ppb	20:48:51
3	K 766.490 Radial†	28789.7	28216.3	5322.2 ug/L	5322.2 ppb	20:48:31
3	Mg 279.077 IEC†	128.6	134.3	5290.5 ug/L	5290.5 ppb	20:48:51
3	Na 589.592 Radial†	26349.1	28672.6	8724.7 ug/L	8724.7 ppb	20:48:31
3	Sr 421.552†	65522.3	69448.4	494.84 ug/L	494.84 ppb	20:48:31
3	Sc 361.383	813529.8	813529.8	102.87 %		20:50:00
3	Y 371.029	718397.9	718397.9	101.61 %		20:50:00
3	Ag 328.068†	100134.8	97162.1	491.12 ug/L	491.12 ppb	20:50:05
3	As 188.979†	1121.5	1118.8	490.60 ug/L	490.60 ppb	20:50:25
3	B 249.677†	19860.1	19529.7	483.46 ug/L	483.46 ppb	20:50:05
3	Ba 233.527†	43522.1	42310.7	491.89 ug/L	491.89 ppb	20:50:05
3	Be 313.107†	1289567.5	1262888.9	495.20 ug/L	495.20 ppb	20:50:00
3	Cd 226.502†	36636.2	35795.7	491.97 ug/L	491.97 ppb	20:50:05
3	Co 228.616†	16727.9	16325.2	485.76 ug/L	485.76 ppb	20:50:25
3	Cr 267.716†	37846.7	36728.6	490.35 ug/L	490.35 ppb	20:50:05
3	Cu 324.752†	143970.4	132226.3	487.71 ug/L	487.71 ppb	20:50:05
3	Mn 257.610†	321611.0	312199.6	490.77 ug/L	490.77 ppb	20:50:05
3	Mo 202.031†	5528.8	5362.4	485.27 ug/L	485.27 ppb	20:50:25
3	Ni 231.604†	16480.7	15940.0	491.82 ug/L	491.82 ppb	20:50:05
3	P 214.914†	4802.9	4470.0	2329.7 ug/L	2329.7 ppb	20:50:25
3	Pb 220.353†	3083.7	3055.1	486.82 ug/L	486.82 ppb	20:50:25
3	S 181.975 Axial†	845.1	780.4	968.49 ug/L	968.49 ppb	20:50:25
3	Sb 206.836†	1286.2	1217.4	494.61 ug/L	494.61 ppb	20:50:25
3	Se 196.026†	824.1	820.1	500.26 ug/L	500.26 ppb	20:50:25
3	Si 251.611†	71389.5	68844.8	2449.3 ug/L	2449.3 ppb	20:50:05
3	Sn 189.927†	2173.0	2099.3	480.40 ug/L	480.40 ppb	20:50:25
3	Ti 334.940†	252204.2	246496.2	488.21 ug/L	488.21 ppb	20:50:05
3	Tl 190.801†	1073.7	1079.4	492.69 ug/L	492.69 ppb	20:50:25
3	U 409.014†	12659.7	14674.8	484.91 ug/L	484.91 ppb	20:50:05
3	V 292.402†	63032.0	62931.1	495.13 ug/L	495.13 ppb	20:50:05
3	Zn 213.857†	47747.4	45616.8	485.60 ug/L	485.60 ppb	20:50:05
3	SiO2†	71547.3	68989.0	5266.0 ug/L	5266.0 ppb	20:50:40

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	811164.0	102.57 %	0.321			0.31%
Sc Radial	4486.8	94.5 %	0.18			0.19%
Y 371.029	715962.6	101.27 %	0.373			0.37%
Y RADIAL	4986.9	98.94 %	0.761			0.77%
Ag 328.068†	97737.3	494.01 ug/L	3.155	494.01 ppb	3.155	0.64%
QC value within limits for Ag 328.068 Recovery = 98.80%						
Al 396.153Radial†	5699.9	5195.6 ug/L	33.40	5195.6 ppb	33.40	0.64%
QC value within limits for Al 396.153Radial Recovery = 103.91%						
As 188.979†	1133.0	496.79 ug/L	5.403	496.79 ppb	5.403	1.09%
QC value within limits for As 188.979 Recovery = 99.36%						
B 249.677†	19634.3	486.05 ug/L	3.041	486.05 ppb	3.041	0.63%
QC value within limits for B 249.677 Recovery = 97.21%						
Ba 233.527†	42601.9	495.27 ug/L	3.122	495.27 ppb	3.122	0.63%
QC value within limits for Ba 233.527 Recovery = 99.05%						
Be 313.107†	1260847.1	494.40 ug/L	0.851	494.40 ppb	0.851	0.17%
QC value within limits for Be 313.107 Recovery = 98.88%						
Ca 317.933Radial†	2920.7	5226.7 ug/L	15.73	5226.7 ppb	15.73	0.30%

QC value within limits for Ca 317.933 Radial Recovery = 104.53%

Cd 226.502†	35947.3	494.05 ug/L	1.817	494.05 ppb	1.817	0.37%
QC value within limits for Cd 226.502 Recovery = 98.81%						
Co 228.616†	16408.2	488.23 ug/L	3.682	488.23 ppb	3.682	0.75%
QC value within limits for Co 228.616 Recovery = 97.65%						
Cr 267.716†	36938.6	493.15 ug/L	2.502	493.15 ppb	2.502	0.51%
QC value within limits for Cr 267.716 Recovery = 98.63%						
Cu 324.752†	133279.0	491.58 ug/L	4.246	491.58 ppb	4.246	0.86%
QC value within limits for Cu 324.752 Recovery = 98.32%						
Fe 238.204 Radial†	488.3	5082.3 ug/L	24.13	5082.3 ppb	24.13	0.47%
QC value within limits for Fe 238.204 Radial Recovery = 101.65%						
K 766.490 Radial†	28235.1	5325.7 ug/L	22.34	5325.7 ppb	22.34	0.42%
QC value within limits for K 766.490 Radial Recovery = 106.51%						
Mg 279.077 IEC†	134.9	5315.1 ug/L	42.13	5315.1 ppb	42.13	0.79%
QC value within limits for Mg 279.077 IEC Recovery = 106.30%						
Mn 257.610†	314256.7	494.00 ug/L	2.942	494.00 ppb	2.942	0.60%
QC value within limits for Mn 257.610 Recovery = 98.80%						
Mo 202.031†	5382.6	487.09 ug/L	3.222	487.09 ppb	3.222	0.66%
QC value within limits for Mo 202.031 Recovery = 97.42%						
Na 589.592 Radial†	28867.2	8784.0 ug/L	64.92	8784.0 ppb	64.92	0.74%
QC value less than the lower limit for Na 589.592 Radial Recovery = 87.84%						
Ni 231.604†	16025.7	494.46 ug/L	2.291	494.46 ppb	2.291	0.46%
QC value within limits for Ni 231.604 Recovery = 98.89%						
P 214.914†	4500.6	2345.6 ug/L	24.86	2345.6 ppb	24.86	1.06%
QC value within limits for P 214.914 Recovery = 93.82%						
Pb 220.353†	3079.4	490.69 ug/L	4.742	490.69 ppb	4.742	0.97%
QC value within limits for Pb 220.353 Recovery = 98.14%						
S 181.975 Axial†	785.2	974.37 ug/L	11.483	974.37 ppb	11.483	1.18%
QC value within limits for S 181.975 Axial Recovery = 97.44%						
Sb 206.836†	1231.2	500.11 ug/L	6.783	500.11 ppb	6.783	1.36%
QC value within limits for Sb 206.836 Recovery = 100.02%						
Se 196.026†	827.7	504.78 ug/L	5.353	504.78 ppb	5.353	1.06%
QC value within limits for Se 196.026 Recovery = 100.96%						
Si 251.611†	69278.2	2464.7 ug/L	14.22	2464.7 ppb	14.22	0.58%
QC value within limits for Si 251.611 Recovery = 98.59%						
Sn 189.927†	2108.6	482.53 ug/L	4.399	482.53 ppb	4.399	0.91%
QC value within limits for Sn 189.927 Recovery = 96.51%						
Sr 421.552†	69769.6	497.13 ug/L	2.613	497.13 ppb	2.613	0.53%
QC value within limits for Sr 421.552 Recovery = 99.43%						
Ti 334.940†	247976.1	491.14 ug/L	2.909	491.14 ppb	2.909	0.59%
QC value within limits for Ti 334.940 Recovery = 98.23%						
Tl 190.801†	1082.0	493.89 ug/L	4.374	493.89 ppb	4.374	0.89%
QC value within limits for Tl 190.801 Recovery = 98.78%						
U 409.014†	14810.9	489.42 ug/L	5.202	489.42 ppb	5.202	1.06%
QC value within limits for U 409.014 Recovery = 97.88%						
V 292.402†	63286.5	497.93 ug/L	2.822	497.93 ppb	2.822	0.57%
QC value within limits for V 292.402 Recovery = 99.59%						
Zn 213.857†	45902.4	488.65 ug/L	2.870	488.65 ppb	2.870	0.59%
QC value within limits for Zn 213.857 Recovery = 97.73%						
SiO2†	69025.2	5268.7 ug/L	17.60	5268.7 ppb	17.60	0.33%
QC value within limits for SiO2 Recovery = 98.53%						

QC Failed. Continue with analysis.

Sequence No.: 22
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/4/2010 20:52:50
 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	4721.7	4721.7	99.4 %		20:54:42
1	Y RADIAL	5019.8	5019.8	99.60 %		20:54:42
1	Al 396.153Radial†	-84.7	-2.7	-2.4351 ug/L	-2.4351 ppb	20:55:02
1	Ca 317.933Radial†	23.5	5.4	9.5793 ug/L	9.5793 ppb	20:55:02
1	Fe 238.204 Radial†	8.7	1.4	14.906 ug/L	14.906 ppb	20:55:02
1	K 766.490 Radial†	2541.5	248.8	46.995 ug/L	46.995 ppb	20:54:42
1	Mg 279.077 IEC†	2.5	0.4	14.338 ug/L	14.338 ppb	20:55:02
1	Na 589.592 Radial†	-822.4	-89.9	-27.346 ug/L	-27.346 ppb	20:54:42
1	Sr 421.552†	52.9	34.3	0.2442 ug/L	0.2442 ppb	20:54:42
1	Sc 361.383	775745.1	775745.1	98.095 %		20:55:59
1	Y 371.029	694577.3	694577.3	98.244 %		20:55:59
1	Ag 328.068†	209.8	37.4	0.1940 ug/L	0.1940 ppb	20:55:59
1	As 188.979†	-30.4	-2.4	-1.0181 ug/L	-1.0181 ppb	20:56:19
1	B 249.677†	-145.8	75.6	1.8775 ug/L	1.8775 ppb	20:56:19
1	Ba 233.527†	5.7	9.8	0.1116 ug/L	0.1116 ppb	20:56:19
1	Be 313.107†	-9270.3	-117.8	-0.0460 ug/L	-0.0460 ppb	20:55:59
1	Cd 226.502†	-179.0	0.2	-0.0002 ug/L	-0.0002 ppb	20:56:19
1	Co 228.616†	-60.8	2.4	0.0702 ug/L	0.0702 ppb	20:56:19
1	Cr 267.716†	67.2	7.3	0.0990 ug/L	0.0990 ppb	20:56:19
1	Cu 324.752†	7755.0	181.9	0.6762 ug/L	0.6762 ppb	20:55:59
1	Mn 257.610†	479.6	58.4	0.0927 ug/L	0.0927 ppb	20:56:19
1	Mo 202.031†	8.6	-3.2	-0.2911 ug/L	-0.2911 ppb	20:56:19
1	Ni 231.604†	93.7	15.1	0.4650 ug/L	0.4650 ppb	20:56:19
1	P 214.914†	201.7	6.8	3.5495 ug/L	3.5495 ppb	20:56:19
1	Pb 220.353†	-65.2	-8.9	-1.4195 ug/L	-1.4195 ppb	20:56:19
1	S 181.975 Axial†	47.6	7.5	9.2972 ug/L	9.2972 ppb	20:56:19
1	Sb 206.836†	41.0	8.9	3.4771 ug/L	3.4771 ppb	20:56:19
1	Se 196.026†	-17.9	0.7	0.4341 ug/L	0.4341 ppb	20:56:19
1	Si 251.611†	756.2	219.7	7.8404 ug/L	7.8404 ppb	20:56:19
1	Sn 189.927†	11.2	-1.6	-0.3731 ug/L	-0.3731 ppb	20:56:19
1	Ti 334.940†	-1297.9	11.6	0.0268 ug/L	0.0268 ppb	20:55:59
1	Tl 190.801†	-24.6	10.7	4.8344 ug/L	4.8344 ppb	20:56:19
1	U 409.014†	-2569.3	-250.6	-8.3126 ug/L	-8.3126 ppb	20:55:59
1	V 292.402†	-1785.3	-160.6	-1.2695 ug/L	-1.2695 ppb	20:55:59
1	Zn 213.857†	766.7	-15.7	-0.1748 ug/L	-0.1748 ppb	20:56:19
1	SiO2†	744.2	198.3	15.184 ug/L	15.184 ppb	20:57:15
2	Sc Radial	4619.9	4619.9	97.3 %		20:55:07
2	Y RADIAL	4893.2	4893.2	97.08 %		20:55:07
2	Al 396.153Radial†	-85.3	-5.2	-4.7775 ug/L	-4.7775 ppb	20:55:27
2	Ca 317.933Radial†	22.5	4.9	8.7358 ug/L	8.7358 ppb	20:55:27
2	Fe 238.204 Radial†	8.3	1.2	12.743 ug/L	12.743 ppb	20:55:27
2	K 766.490 Radial†	2480.9	242.9	45.872 ug/L	45.872 ppb	20:55:07
2	Mg 279.077 IEC†	-0.2	-2.3	-92.292 ug/L	-92.292 ppb	20:55:27
2	Na 589.592 Radial†	-805.4	-90.7	-27.592 ug/L	-27.592 ppb	20:55:07
2	Sr 421.552†	25.5	7.3	0.0517 ug/L	0.0517 ppb	20:55:07
2	Sc 361.383	779871.4	779871.4	98.617 %		20:56:24
2	Y 371.029	697275.7	697275.7	98.626 %		20:56:24
2	Ag 328.068†	160.2	-14.0	-0.0648 ug/L	-0.0648 ppb	20:56:24
2	As 188.979†	-30.0	-1.8	-0.7854 ug/L	-0.7854 ppb	20:56:44
2	B 249.677†	-167.1	54.8	1.3586 ug/L	1.3586 ppb	20:56:44
2	Ba 233.527†	5.0	9.0	0.1034 ug/L	0.1034 ppb	20:56:44
2	Be 313.107†	-9268.7	-66.3	-0.0258 ug/L	-0.0258 ppb	20:56:24
2	Cd 226.502†	-180.1	-0.0	-0.0022 ug/L	-0.0022 ppb	20:56:44
2	Co 228.616†	-53.1	10.5	0.3136 ug/L	0.3136 ppb	20:56:44
2	Cr 267.716†	62.8	2.5	0.0348 ug/L	0.0348 ppb	20:56:44
2	Cu 324.752†	7753.2	138.2	0.5139 ug/L	0.5139 ppb	20:56:24
2	Mn 257.610†	464.8	40.8	0.0692 ug/L	0.0692 ppb	20:56:44
2	Mo 202.031†	13.0	1.2	0.1116 ug/L	0.1116 ppb	20:56:44
2	Ni 231.604†	99.9	20.8	0.6410 ug/L	0.6410 ppb	20:56:44

2	P 214.914†	206.7	10.8	5.7468 ug/L	5.7468 ppb	20:56:44
2	Pb 220.353†	-55.6	1.2	0.1827 ug/L	0.1827 ppb	20:56:44
2	S 181.975 Axial†	51.8	11.5	14.281 ug/L	14.281 ppb	20:56:44
2	Sb 206.836†	42.9	10.7	4.1810 ug/L	4.1810 ppb	20:56:44
2	Se 196.026†	-21.3	-2.6	-1.5064 ug/L	-1.5064 ppb	20:56:44
2	Si 251.611†	752.5	211.9	7.5547 ug/L	7.5547 ppb	20:56:44
2	Sn 189.927†	12.8	-0.1	-0.0269 ug/L	-0.0269 ppb	20:56:44
2	Ti 334.940†	-1287.2	29.5	0.0699 ug/L	0.0699 ppb	20:56:24
2	Tl 190.801†	-40.3	-5.2	-2.3467 ug/L	-2.3467 ppb	20:56:44
2	U 409.014†	-2519.7	-186.4	-6.1828 ug/L	-6.1828 ppb	20:56:24
2	V 292.402†	-1742.7	-107.8	-0.8509 ug/L	-0.8509 ppb	20:56:24
2	Zn 213.857†	773.5	-12.9	-0.1453 ug/L	-0.1453 ppb	20:56:44
2	SiO2†	754.1	204.4	15.637 ug/L	15.637 ppb	20:57:20
3	Sc Radial	4729.0	4729.0	99.6 %		20:55:32
3	Y RADIAL	5029.1	5029.1	99.78 %		20:55:32
3	Al 396.153Radial†	-78.5	3.7	3.3698 ug/L	3.3698 ppb	20:55:52
3	Ca 317.933Radial†	18.5	0.3	0.5211 ug/L	0.5211 ppb	20:55:52
3	Fe 238.204 Radial†	9.3	2.1	21.361 ug/L	21.361 ppb	20:55:52
3	K 766.490 Radial†	2657.9	361.7	68.320 ug/L	68.320 ppb	20:55:32
3	Mg 279.077 IEC†	4.3	2.2	86.056 ug/L	86.056 ppb	20:55:52
3	Na 589.592 Radial†	-826.3	-92.6	-28.166 ug/L	-28.166 ppb	20:55:32
3	Sr 421.552†	-21.2	-40.2	-0.2866 ug/L	-0.2866 ppb	20:55:32
3	Sc 361.383	782157.2	782157.2	98.906 %		20:56:50
3	Y 371.029	698268.0	698268.0	98.766 %		20:56:50
3	Ag 328.068†	164.5	-10.2	-0.0416 ug/L	-0.0416 ppb	20:56:50
3	As 188.979†	-30.8	-2.5	-1.0809 ug/L	-1.0809 ppb	20:57:10
3	B 249.677†	-154.8	67.7	1.6798 ug/L	1.6798 ppb	20:57:10
3	Ba 233.527†	17.0	21.2	0.2467 ug/L	0.2467 ppb	20:57:10
3	Be 313.107†	-9344.6	-115.5	-0.0453 ug/L	-0.0453 ppb	20:56:50
3	Cd 226.502†	-175.6	5.1	0.0674 ug/L	0.0674 ppb	20:57:10
3	Co 228.616†	-51.2	12.6	0.3765 ug/L	0.3765 ppb	20:57:10
3	Cr 267.716†	80.2	19.9	0.2668 ug/L	0.2668 ppb	20:57:10
3	Cu 324.752†	7744.4	106.4	0.3949 ug/L	0.3949 ppb	20:56:50
3	Mn 257.610†	470.4	45.2	0.0696 ug/L	0.0696 ppb	20:57:10
3	Mo 202.031†	18.4	6.6	0.5989 ug/L	0.5989 ppb	20:57:10
3	Ni 231.604†	100.9	21.5	0.6631 ug/L	0.6631 ppb	20:57:10
3	P 214.914†	192.3	-4.4	-2.4925 ug/L	-2.4925 ppb	20:57:10
3	Pb 220.353†	-76.6	-19.9	-3.1606 ug/L	-3.1606 ppb	20:57:10
3	S 181.975 Axial†	47.0	6.5	8.0810 ug/L	8.0810 ppb	20:57:10
3	Sb 206.836†	42.6	10.2	4.0104 ug/L	4.0104 ppb	20:57:10
3	Se 196.026†	-24.6	-5.9	-3.4625 ug/L	-3.4625 ppb	20:57:10
3	Si 251.611†	735.8	192.8	6.8694 ug/L	6.8694 ppb	20:57:10
3	Sn 189.927†	11.4	-1.5	-0.3540 ug/L	-0.3540 ppb	20:57:10
3	Ti 334.940†	-1344.5	-24.6	-0.0546 ug/L	-0.0546 ppb	20:56:50
3	Tl 190.801†	-29.0	6.3	2.8705 ug/L	2.8705 ppb	20:57:10
3	U 409.014†	-2424.1	-82.3	-2.7313 ug/L	-2.7313 ppb	20:56:50
3	V 292.402†	-1619.2	22.2	0.1743 ug/L	0.1743 ppb	20:56:50
3	Zn 213.857†	785.5	-3.1	-0.0409 ug/L	-0.0409 ppb	20:57:10
3	SiO2†	792.2	240.6	18.397 ug/L	18.397 ppb	20:57:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	779257.9	98.539 %	0.4109			0.42%
Sc Radial	4690.2	98.8 %	1.28			1.30%
Y 371.029	696707.0	98.545 %	0.2702			0.27%
Y RADIAL	4980.7	98.82 %	1.506			1.52%
Ag 328.068†	4.4	0.0292 ug/L	0.14318	0.0292 ppb	0.14318	490.76%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.4	-1.2809 ug/L	4.19450	-1.2809 ppb	4.19450	327.47%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.2	-0.9615 ug/L	0.15567	-0.9615 ppb	0.15567	16.19%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	66.0	1.6386 ug/L	0.26189	1.6386 ppb	0.26189	15.98%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	13.4	0.1539 ug/L	0.08045	0.1539 ppb	0.08045	52.27%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-99.9	-0.0390 ug/L	0.01148	-0.0390 ppb	0.01148	29.41%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.5	6.2788 ug/L	5.00405	6.2788 ppb	5.00405	79.70%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	1.8	0.0217 ug/L	0.03964	0.0217 ppb	0.03964 182.87%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	8.5	0.2534 ug/L	0.16174	0.2534 ppb	0.16174 63.82%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	9.9	0.1335 ug/L	0.11978	0.1335 ppb	0.11978 89.71%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	142.1	0.5283 ug/L	0.14117	0.5283 ppb	0.14117 26.72%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	1.6	16.337 ug/L	4.4833	16.337 ppb	4.4833 27.44%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	284.5	53.729 ug/L	12.6486	53.729 ppb	12.6486 23.54%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	0.1	2.7004 ug/L	89.74170	2.7004 ppb	89.74170 >999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	48.1	0.0771 ug/L	0.01343	0.0771 ppb	0.01343 17.41%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	1.5	0.1398 ug/L	0.44569	0.1398 ppb	0.44569 318.84%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-91.0	-27.702 ug/L	0.4209	-27.702 ppb	0.4209 1.52%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	19.1	0.5897 ug/L	0.10856	0.5897 ppb	0.10856 18.41%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	4.4	2.2679 ug/L	4.26656	2.2679 ppb	4.26656 188.13%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-9.2	-1.4658 ug/L	1.67212	-1.4658 ppb	1.67212 114.08%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	8.5	10.553 ug/L	3.2852	10.553 ppb	3.2852 31.13%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	9.9	3.8895 ug/L	0.36720	3.8895 ppb	0.36720 9.44%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-2.6	-1.5116 ug/L	1.94832	-1.5116 ppb	1.94832 128.89%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	208.1	7.4215 ug/L	0.49904	7.4215 ppb	0.49904 6.72%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-1.1	-0.2513 ug/L	0.19457	-0.2513 ppb	0.19457 77.41%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	0.4	0.0031 ug/L	0.26871	0.0031 ppb	0.26871 >999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	5.5	0.0140 ug/L	0.06322	0.0140 ppb	0.06322 450.72%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	3.9	1.7861 ug/L	3.71134	1.7861 ppb	3.71134 207.79%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-173.1	-5.7422 ug/L	2.81658	-5.7422 ppb	2.81658 49.05%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-82.1	-0.6487 ug/L	0.74282	-0.6487 ppb	0.74282 114.51%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-10.6	-0.1203 ug/L	0.07035	-0.1203 ppb	0.07035 58.46%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	214.4	16.406 ug/L	1.7390	16.406 ppb	1.7390 10.60%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 30

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/4/2010 21:48:18

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	4690.6	4690.6	98.8 %		21:50:10
1	Y RADIAL	4939.0	4939.0	97.99 %		21:50:10
1	Al 396.153Radial†	5276.9	5423.8	4942.0 ug/L	4942.0 ppb	21:50:10
1	Ca 317.933Radial†	2845.6	2862.1	5121.8 ug/L	5121.8 ppb	21:50:30
1	Fe 238.204 Radial†	490.2	488.9	5089.3 ug/L	5089.3 ppb	21:50:30
1	K 766.490 Radial†	28891.3	26937.5	5080.6 ug/L	5080.6 ppb	21:50:10
1	Mg 279.077 IEC†	132.9	132.4	5217.5 ug/L	5217.5 ppb	21:50:30
1	Na 589.592 Radial†	28856.9	29946.5	9112.4 ug/L	9112.4 ppb	21:50:10
1	Sr 421.552†	68281.1	69096.4	492.33 ug/L	492.33 ppb	21:50:10
1	Sc 361.383	795201.0	795201.0	100.55 %		21:51:29
1	Y 371.029	701743.7	701743.7	99.258 %		21:51:29
1	Ag 328.068†	100186.0	99456.6	502.69 ug/L	502.69 ppb	21:51:29
1	As 188.979†	1133.7	1156.0	506.93 ug/L	506.93 ppb	21:51:49
1	B 249.677†	19564.3	19680.6	487.13 ug/L	487.13 ppb	21:51:29
1	Ba 233.527†	43875.9	43637.8	507.31 ug/L	507.31 ppb	21:51:29
1	Be 313.107†	1289649.7	1291864.3	506.59 ug/L	506.59 ppb	21:51:29
1	Cd 226.502†	36062.1	36045.7	495.41 ug/L	495.41 ppb	21:51:49
1	Co 228.616†	17268.5	17237.5	512.90 ug/L	512.90 ppb	21:51:49
1	Cr 267.716†	37932.7	37662.1	502.81 ug/L	502.81 ppb	21:51:29
1	Cu 324.752†	145313.6	136787.8	504.53 ug/L	504.53 ppb	21:51:29
1	Mn 257.610†	328662.4	326418.0	513.11 ug/L	513.11 ppb	21:51:29
1	Mo 202.031†	5605.3	5562.4	503.35 ug/L	503.35 ppb	21:51:49
1	Ni 231.604†	16467.6	16296.2	502.80 ug/L	502.80 ppb	21:51:49
1	P 214.914†	4867.0	4641.3	2419.4 ug/L	2419.4 ppb	21:51:49
1	Pb 220.353†	3139.9	3180.1	506.63 ug/L	506.63 ppb	21:51:49
1	S 181.975 Axial†	853.2	807.5	1002.1 ug/L	1002.1 ppb	21:51:49
1	Sb 206.836†	1292.1	1252.1	508.83 ug/L	508.83 ppb	21:51:49
1	Se 196.026†	824.7	839.1	511.59 ug/L	511.59 ppb	21:51:49
1	Si 251.611†	71421.3	70475.9	2507.2 ug/L	2507.2 ppb	21:51:29
1	Sn 189.927†	2196.7	2171.5	496.90 ug/L	496.90 ppb	21:51:49
1	Ti 334.940†	258590.5	258498.1	511.98 ug/L	511.98 ppb	21:51:29
1	Tl 190.801†	1079.4	1109.2	506.34 ug/L	506.34 ppb	21:51:49
1	V 409.014†	12223.8	14524.9	479.92 ug/L	479.92 ppb	21:51:29
1	U 292.402†	63160.2	64471.0	507.31 ug/L	507.31 ppb	21:51:29
1	Zn 213.857†	47998.0	46935.8	499.68 ug/L	499.68 ppb	21:51:29
1	SiO2†	71740.1	70783.8	5402.9 ug/L	5402.9 ppb	21:52:49
2	Sc Radial	4695.9	4695.9	98.9 %		21:50:35
2	Y RADIAL	4957.3	4957.3	98.36 %		21:50:35
2	Al 396.153Radial†	5384.5	5526.6	5036.0 ug/L	5036.0 ppb	21:50:35
2	Ca 317.933Radial†	2832.0	2845.1	5091.5 ug/L	5091.5 ppb	21:50:55
2	Fe 238.204 Radial†	490.8	489.0	5090.4 ug/L	5090.4 ppb	21:50:55
2	K 766.490 Radial†	29047.9	27062.8	5104.3 ug/L	5104.3 ppb	21:50:35
2	Mg 279.077 IEC†	132.7	132.1	5204.7 ug/L	5204.7 ppb	21:50:55
2	Na 589.592 Radial†	28936.6	29994.1	9126.8 ug/L	9126.8 ppb	21:50:35
2	Sr 421.552†	68918.4	69662.7	496.37 ug/L	496.37 ppb	21:50:35
2	Sc 361.383	792050.2	792050.2	100.16 %		21:51:56
2	Y 371.029	699866.6	699866.6	98.992 %		21:51:56
2	Ag 328.068†	99632.3	99300.1	501.91 ug/L	501.91 ppb	21:51:56
2	As 188.979†	1134.3	1161.2	509.15 ug/L	509.15 ppb	21:52:16
2	B 249.677†	19511.5	19705.2	487.74 ug/L	487.74 ppb	21:51:56
2	Ba 233.527†	43492.7	43428.8	504.88 ug/L	504.88 ppb	21:51:56
2	Be 313.107†	1283850.6	1291176.2	506.31 ug/L	506.31 ppb	21:51:56
2	Cd 226.502†	35990.0	36116.4	496.38 ug/L	496.38 ppb	21:52:16
2	Co 228.616†	17238.3	17275.7	514.04 ug/L	514.04 ppb	21:52:16
2	Cr 267.716†	37764.8	37644.5	502.58 ug/L	502.58 ppb	21:51:56
2	Cu 324.752†	144542.1	136592.5	503.81 ug/L	503.81 ppb	21:51:56
2	Mn 257.610†	325930.6	324990.7	510.87 ug/L	510.87 ppb	21:51:56
2	Mo 202.031†	5609.5	5588.7	505.73 ug/L	505.73 ppb	21:52:16
2	Ni 231.604†	16432.1	16326.0	503.72 ug/L	503.72 ppb	21:52:16

2	P 214.914†	4863.0	4656.6	2427.8 ug/L	2427.8 ppb	21:52:16
2	Pb 220.353†	3126.2	3178.8	506.46 ug/L	506.46 ppb	21:52:16
2	S 181.975 Axial†	843.3	800.9	993.93 ug/L	993.93 ppb	21:52:16
2	Sb 206.836†	1291.6	1256.8	510.69 ug/L	510.69 ppb	21:52:16
2	Se 196.026†	830.3	848.0	516.86 ug/L	516.86 ppb	21:52:16
2	Si 251.611†	70904.5	70242.5	2498.9 ug/L	2498.9 ppb	21:51:56
2	Sn 189.927†	2184.9	2168.4	496.18 ug/L	496.18 ppb	21:52:16
2	Ti 334.940†	256782.7	257716.1	510.43 ug/L	510.43 ppb	21:51:56
2	Tl 190.801†	1076.6	1110.6	506.99 ug/L	506.99 ppb	21:52:16
2	U 409.014†	11997.1	14346.9	474.01 ug/L	474.01 ppb	21:51:56
2	V 292.402†	62819.3	64380.5	506.63 ug/L	506.63 ppb	21:51:56
2	Zn 213.857†	47533.4	46661.8	496.73 ug/L	496.73 ppb	21:51:56
2	SiO2†	71398.1	70726.2	5398.4 ug/L	5398.4 ppb	21:52:54
3	Sc Radial	4760.9	4760.9	100 %		21:51:00
3	Y RADIAL	5004.3	5004.3	99.29 %		21:51:00
3	Al 396.153Radial†	5428.6	5496.3	5008.4 ug/L	5008.4 ppb	21:51:00
3	Ca 317.933Radial†	2818.5	2792.6	4997.4 ug/L	4997.4 ppb	21:51:20
3	Fe 238.204 Radial†	487.6	479.0	4986.5 ug/L	4986.5 ppb	21:51:20
3	K 766.490 Radial†	29437.7	27050.8	5102.0 ug/L	5102.0 ppb	21:51:00
3	Mg 279.077 IEC†	133.2	130.7	5150.6 ug/L	5150.6 ppb	21:51:20
3	Na 589.592 Radial†	29230.4	29887.9	9094.5 ug/L	9094.5 ppb	21:51:00
3	Sr 421.552†	69794.5	69585.6	495.82 ug/L	495.82 ppb	21:51:00
3	Sc 361.383	793700.4	793700.4	100.37 %		21:52:23
3	Y 371.029	701433.9	701433.9	99.214 %		21:52:23
3	Ag 328.068†	99813.0	99273.3	501.74 ug/L	501.74 ppb	21:52:23
3	As 188.979†	1129.9	1154.4	506.18 ug/L	506.18 ppb	21:52:43
3	B 249.677†	19586.6	19739.5	488.62 ug/L	488.62 ppb	21:52:23
3	Ba 233.527†	43727.4	43572.3	506.54 ug/L	506.54 ppb	21:52:23
3	Be 313.107†	1287268.0	1291916.0	506.61 ug/L	506.61 ppb	21:52:23
3	Cd 226.502†	36038.0	36089.5	496.02 ug/L	496.02 ppb	21:52:43
3	Co 228.616†	17241.5	17243.1	513.07 ug/L	513.07 ppb	21:52:43
3	Cr 267.716†	37820.9	37622.0	502.28 ug/L	502.28 ppb	21:52:23
3	Cu 324.752†	145251.8	136999.5	505.31 ug/L	505.31 ppb	21:52:23
3	Mn 257.610†	327389.3	325767.4	512.08 ug/L	512.08 ppb	21:52:23
3	Mo 202.031†	5601.2	5568.8	503.92 ug/L	503.92 ppb	21:52:43
3	Ni 231.604†	16458.4	16318.0	503.48 ug/L	503.48 ppb	21:52:43
3	P 214.914†	4854.2	4637.7	2417.3 ug/L	2417.3 ppb	21:52:43
3	Pb 220.353†	3118.8	3165.0	504.26 ug/L	504.26 ppb	21:52:43
3	S 181.975 Axial†	852.0	807.8	1002.5 ug/L	1002.5 ppb	21:52:43
3	Sb 206.836†	1282.7	1245.2	506.12 ug/L	506.12 ppb	21:52:43
3	Se 196.026†	836.4	852.3	519.17 ug/L	519.17 ppb	21:52:43
3	Si 251.611†	71228.9	70418.5	2505.2 ug/L	2505.2 ppb	21:52:23
3	Sn 189.927†	2187.7	2166.6	495.76 ug/L	495.76 ppb	21:52:43
3	Ti 334.940†	257885.8	258282.1	511.54 ug/L	511.54 ppb	21:52:23
3	Tl 190.801†	1086.1	1117.8	510.27 ug/L	510.27 ppb	21:52:43
3	U 409.014†	12262.7	14586.7	481.98 ug/L	481.98 ppb	21:52:23
3	V 292.402†	63113.3	64543.0	507.89 ug/L	507.89 ppb	21:52:23
3	Zn 213.857†	47660.5	46689.8	497.05 ug/L	497.05 ppb	21:52:23
3	SiO2†	71453.3	70632.9	5391.3 ug/L	5391.3 ppb	21:52:59

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793650.5	100.36 %	0.199			0.20%
Sc Radial	4715.8	99.3 %	0.82			0.83%
Y 371.029	701014.8	99.155 %	0.1423			0.14%
Y RADIAL	4966.9	98.55 %	0.668			0.68%
Ag 328.068†	99343.3	502.12 ug/L	0.507	502.12 ppb	0.507	0.10%
QC value within limits for Ag 328.068 Recovery = 100.42%						
Al 396.153Radial†	5482.2	4995.4 ug/L	48.32	4995.4 ppb	48.32	0.97%
QC value within limits for Al 396.153Radial Recovery = 99.91%						
As 188.979†	1157.2	507.42 ug/L	1.543	507.42 ppb	1.543	0.30%
QC value within limits for As 188.979 Recovery = 101.48%						
B 249.677†	19708.4	487.83 ug/L	0.745	487.83 ppb	0.745	0.15%
QC value within limits for B 249.677 Recovery = 97.57%						
Ba 233.527†	43546.3	506.24 ug/L	1.240	506.24 ppb	1.240	0.25%
QC value within limits for Ba 233.527 Recovery = 101.25%						
Be 313.107†	1291652.2	506.50 ug/L	0.163	506.50 ppb	0.163	0.03%
QC value within limits for Be 313.107 Recovery = 101.30%						
Ca 317.933Radial†	2833.3	5070.2 ug/L	64.89	5070.2 ppb	64.89	1.28%

QC value within limits for Ca 317.933 Radial Recovery = 101.40%

Cd 226.502†	36083.8	495.94 ug/L	0.491	495.94 ppb	0.491	0.10%
QC value within limits for Cd 226.502 Recovery = 99.19%						
Co 228.616†	17252.1	513.33 ug/L	0.617	513.33 ppb	0.617	0.12%
QC value within limits for Co 228.616 Recovery = 102.67%						
Cr 267.716†	37642.9	502.56 ug/L	0.269	502.56 ppb	0.269	0.05%
QC value within limits for Cr 267.716 Recovery = 100.51%						
Cu 324.752†	136793.2	504.55 ug/L	0.746	504.55 ppb	0.746	0.15%
QC value within limits for Cu 324.752 Recovery = 100.91%						
Fe 238.204 Radial†	485.6	5055.4 ug/L	59.70	5055.4 ppb	59.70	1.18%
QC value within limits for Fe 238.204 Radial Recovery = 101.11%						
K 766.490 Radial†	27017.1	5095.6 ug/L	13.07	5095.6 ppb	13.07	0.26%
QC value within limits for K 766.490 Radial Recovery = 101.91%						
Mg 279.077 IEC†	131.7	5191.0 ug/L	35.51	5191.0 ppb	35.51	0.68%
QC value within limits for Mg 279.077 IEC Recovery = 103.82%						
Mn 257.610†	325725.4	512.02 ug/L	1.122	512.02 ppb	1.122	0.22%
QC value within limits for Mn 257.610 Recovery = 102.40%						
Mo 202.031†	5573.3	504.33 ug/L	1.242	504.33 ppb	1.242	0.25%
QC value within limits for Mo 202.031 Recovery = 100.87%						
Na 589.592 Radial†	29942.8	9111.2 ug/L	16.18	9111.2 ppb	16.18	0.18%
QC value within limits for Na 589.592 Radial Recovery = 91.11%						
Ni 231.604†	16313.4	503.33 ug/L	0.475	503.33 ppb	0.475	0.09%
QC value within limits for Ni 231.604 Recovery = 100.67%						
P 214.914†	4645.2	2421.5 ug/L	5.57	2421.5 ppb	5.57	0.23%
QC value within limits for P 214.914 Recovery = 96.86%						
Pb 220.353†	3174.6	505.78 ug/L	1.323	505.78 ppb	1.323	0.26%
QC value within limits for Pb 220.353 Recovery = 101.16%						
S 181.975 Axial†	805.4	999.54 ug/L	4.861	999.54 ppb	4.861	0.49%
QC value within limits for S 181.975 Axial Recovery = 99.95%						
Sb 206.836†	1251.4	508.54 ug/L	2.297	508.54 ppb	2.297	0.45%
QC value within limits for Sb 206.836 Recovery = 101.71%						
Se 196.026†	846.5	515.87 ug/L	3.883	515.87 ppb	3.883	0.75%
QC value within limits for Se 196.026 Recovery = 103.17%						
Si 251.611†	70379.0	2503.8 ug/L	4.35	2503.8 ppb	4.35	0.17%
QC value within limits for Si 251.611 Recovery = 100.15%						
Sn 189.927†	2168.9	496.28 ug/L	0.575	496.28 ppb	0.575	0.12%
QC value within limits for Sn 189.927 Recovery = 99.26%						
Sr 421.552†	69448.2	494.84 ug/L	2.189	494.84 ppb	2.189	0.44%
QC value within limits for Sr 421.552 Recovery = 98.97%						
Ti 334.940†	258165.4	511.32 ug/L	0.799	511.32 ppb	0.799	0.16%
QC value within limits for Ti 334.940 Recovery = 102.26%						
Tl 190.801†	1112.6	507.87 ug/L	2.106	507.87 ppb	2.106	0.41%
QC value within limits for Tl 190.801 Recovery = 101.57%						
U 409.014†	14486.2	478.64 ug/L	4.132	478.64 ppb	4.132	0.86%
QC value within limits for U 409.014 Recovery = 95.73%						
V 292.402†	64464.8	507.28 ug/L	0.633	507.28 ppb	0.633	0.12%
QC value within limits for V 292.402 Recovery = 101.46%						
Zn 213.857†	46762.4	497.82 ug/L	1.619	497.82 ppb	1.619	0.33%
QC value within limits for Zn 213.857 Recovery = 99.56%						
SiO2†	70714.3	5397.5 ug/L	5.83	5397.5 ppb	5.83	0.11%
QC value within limits for SiO2 Recovery = 100.94%						

All analyte(s) passed QC.

Sequence No.: 31

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/4/2010 21:55:09

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	4797.2	4797.2	101 %		21:57:01
1	Y RADIAL	5118.5	5118.5	101.6 %		21:57:01
1	Al 396.153Radial†	-87.2	-3.8	-3.5049 ug/L	-3.5049 ppb	21:57:21
1	Ca 317.933Radial†	22.8	4.4	7.7848 ug/L	7.7848 ppb	21:57:21
1	Fe 238.204 Radial†	6.8	-0.5	-5.6695 ug/L	-5.6695 ppb	21:57:21
1	K 766.490 Radial†	2466.1	134.1	25.321 ug/L	25.321 ppb	21:57:01
1	Mg 279.077 IEC†	2.2	0.0	0.9317 ug/L	0.9317 ppb	21:57:21
1	Na 589.592 Radial†	-814.4	-69.0	-20.988 ug/L	-20.988 ppb	21:57:01
1	Sr 421.552†	16.0	-3.1	-0.0221 ug/L	-0.0221 ppb	21:57:01
1	Sc 361.383	796247.1	796247.1	100.69 %		21:58:18
1	Y 371.029	710893.0	710893.0	100.55 %		21:58:18
1	Ag 328.068†	197.2	19.4	0.0946 ug/L	0.0946 ppb	21:58:18
1	As 188.979†	-34.9	-6.0	-2.6262 ug/L	-2.6262 ppb	21:58:38
1	B 249.677†	-338.3	-111.7	-2.7778 ug/L	-2.7778 ppb	21:58:38
1	Ba 233.527†	-3.3	0.8	0.0082 ug/L	0.0082 ppb	21:58:38
1	Be 313.107†	-9360.9	35.5	0.0140 ug/L	0.0140 ppb	21:58:18
1	Cd 226.502†	-178.4	5.4	0.0755 ug/L	0.0755 ppb	21:58:38
1	Co 228.616†	-59.8	5.0	0.1485 ug/L	0.1485 ppb	21:58:38
1	Cr 267.716†	56.3	-5.3	-0.0711 ug/L	-0.0711 ppb	21:58:38
1	Cu 324.752†	7775.0	-1.8	-0.0071 ug/L	-0.0071 ppb	21:58:18
1	Mn 257.610†	456.0	22.4	0.0347 ug/L	0.0347 ppb	21:58:38
1	Mo 202.031†	11.1	-1.0	-0.0890 ug/L	-0.0890 ppb	21:58:38
1	Ni 231.604†	78.4	-2.6	-0.0814 ug/L	-0.0814 ppb	21:58:38
1	P 214.914†	213.1	12.8	6.9746 ug/L	6.9746 ppb	21:58:38
1	Pb 220.353†	-74.8	-16.8	-2.6596 ug/L	-2.6596 ppb	21:58:38
1	S 181.975 Axial†	43.4	2.0	2.5194 ug/L	2.5194 ppb	21:58:38
1	Sb 206.836†	42.0	8.9	3.4839 ug/L	3.4839 ppb	21:58:38
1	Se 196.026†	-23.6	-4.4	-2.6426 ug/L	-2.6426 ppb	21:58:38
1	Si 251.611†	640.7	85.1	3.0375 ug/L	3.0375 ppb	21:58:38
1	Sn 189.927†	14.8	1.6	0.3719 ug/L	0.3719 ppb	21:58:38
1	Ti 334.940†	-1327.5	16.3	0.0330 ug/L	0.0330 ppb	21:58:18
1	Tl 190.801†	-31.9	4.0	1.8091 ug/L	1.8091 ppb	21:58:38
1	U 409.014†	-2365.7	19.1	0.6330 ug/L	0.6330 ppb	21:58:18
1	V 292.402†	-1690.0	-19.2	-0.1480 ug/L	-0.1480 ppb	21:58:18
1	Zn 213.857†	757.5	-44.9	-0.4815 ug/L	-0.4815 ppb	21:58:38
1	SiO2†	637.1	72.4	5.5408 ug/L	5.5408 ppb	21:59:34
2	Sc Radial	4788.5	4788.5	101 %		21:57:26
2	Y RADIAL	5092.7	5092.7	101.0 %		21:57:26
2	Al 396.153Radial†	-85.0	-1.8	-1.7215 ug/L	-1.7215 ppb	21:57:46
2	Ca 317.933Radial†	23.8	5.3	9.5611 ug/L	9.5611 ppb	21:57:46
2	Fe 238.204 Radial†	7.5	0.2	2.0118 ug/L	2.0118 ppb	21:57:46
2	K 766.490 Radial†	2538.0	209.8	39.615 ug/L	39.615 ppb	21:57:26
2	Mg 279.077 IEC†	0.6	-1.5	-60.105 ug/L	-60.105 ppb	21:57:46
2	Na 589.592 Radial†	-834.8	-90.6	-27.578 ug/L	-27.578 ppb	21:57:26
2	Sr 421.552†	23.8	4.6	0.0330 ug/L	0.0330 ppb	21:57:26
2	Sc 361.383	809944.7	809944.7	102.42 %		21:58:43
2	Y 371.029	722098.7	722098.7	102.14 %		21:58:43
2	Ag 328.068†	214.9	33.3	0.1648 ug/L	0.1648 ppb	21:58:43
2	As 188.979†	-21.2	7.9	3.4370 ug/L	3.4370 ppb	21:59:03
2	B 249.677†	-331.5	-99.4	-2.4734 ug/L	-2.4734 ppb	21:59:03
2	Ba 233.527†	0.6	4.7	0.0537 ug/L	0.0537 ppb	21:59:03
2	Be 313.107†	-9476.2	80.2	0.0321 ug/L	0.0321 ppb	21:58:43
2	Cd 226.502†	-167.1	19.4	0.2681 ug/L	0.2681 ppb	21:59:03
2	Co 228.616†	-54.3	11.4	0.3388 ug/L	0.3388 ppb	21:59:03
2	Cr 267.716†	97.4	33.9	0.4508 ug/L	0.4508 ppb	21:59:03
2	Cu 324.752†	7996.0	83.4	0.3060 ug/L	0.3060 ppb	21:58:43
2	Mn 257.610†	477.6	35.9	0.0590 ug/L	0.0590 ppb	21:59:03
2	Mo 202.031†	21.4	9.0	0.8105 ug/L	0.8105 ppb	21:59:03
2	Ni 231.604†	111.8	28.6	0.8842 ug/L	0.8842 ppb	21:59:03

2	P 214.914†	201.7	-1.9	-1.1125 ug/L	-1.1125 ppb	21:59:03
2	Pb 220.353†	-76.2	-16.9	-2.6859 ug/L	-2.6859 ppb	21:59:03
2	S 181.975 Axial†	51.4	9.2	11.399 ug/L	11.399 ppb	21:59:03
2	Sb 206.836†	36.2	2.5	0.9897 ug/L	0.9897 ppb	21:59:03
2	Se 196.026†	-10.4	8.9	5.2669 ug/L	5.2669 ppb	21:59:03
2	Si 251.611†	661.7	94.9	3.3749 ug/L	3.3749 ppb	21:59:03
2	Sn 189.927†	12.6	-0.8	-0.1817 ug/L	-0.1817 ppb	21:59:03
2	Ti 334.940†	-1189.5	173.3	0.3480 ug/L	0.3480 ppb	21:58:43
2	Tl 190.801†	-33.8	2.7	1.2116 ug/L	1.2116 ppb	21:59:03
2	U 409.014†	-2327.7	95.9	3.1797 ug/L	3.1797 ppb	21:58:43
2	V 292.402†	-1716.5	-16.6	-0.1136 ug/L	-0.1136 ppb	21:58:43
2	Zn 213.857†	763.1	-52.2	-0.5672 ug/L	-0.5672 ppb	21:59:03
2	SiO2†	668.1	92.0	7.0187 ug/L	7.0187 ppb	21:59:39
3	Sc Radial	4907.5	4907.5	103 %		21:57:51
3	Y RADIAL	5206.2	5206.2	103.3 %		21:57:51
3	Al 396.153Radial†	-73.8	11.1	10.148 ug/L	10.148 ppb	21:58:11
3	Ca 317.933Radial†	24.0	5.0	8.8947 ug/L	8.8947 ppb	21:58:11
3	Fe 238.204 Radial†	6.9	-0.6	-6.2760 ug/L	-6.2760 ppb	21:58:11
3	K 766.490 Radial†	2443.2	57.0	10.779 ug/L	10.779 ppb	21:57:51
3	Mg 279.077 IEC†	3.6	1.4	54.447 ug/L	54.447 ppb	21:58:11
3	Na 589.592 Radial†	-871.1	-105.7	-32.150 ug/L	-32.150 ppb	21:57:51
3	Sr 421.552†	23.8	4.1	0.0291 ug/L	0.0291 ppb	21:57:51
3	Sc 361.383	806637.1	806637.1	102.00 %		21:59:09
3	Y 371.029	719768.0	719768.0	101.81 %		21:59:09
3	Ag 328.068†	189.0	8.8	0.0399 ug/L	0.0399 ppb	21:59:09
3	As 188.979†	-26.0	3.1	1.3564 ug/L	1.3564 ppb	21:59:29
3	B 249.677†	-344.2	-113.2	-2.8135 ug/L	-2.8135 ppb	21:59:29
3	Ba 233.527†	5.5	9.4	0.1089 ug/L	0.1089 ppb	21:59:29
3	Be 313.107†	-9329.8	185.7	0.0733 ug/L	0.0733 ppb	21:59:09
3	Cd 226.502†	-168.4	17.5	0.2420 ug/L	0.2420 ppb	21:59:29
3	Co 228.616†	-59.7	5.8	0.1732 ug/L	0.1732 ppb	21:59:29
3	Cr 267.716†	48.6	-13.6	-0.1828 ug/L	-0.1828 ppb	21:59:29
3	Cu 324.752†	8068.9	186.8	0.6869 ug/L	0.6869 ppb	21:59:09
3	Mn 257.610†	492.2	52.1	0.0790 ug/L	0.0790 ppb	21:59:29
3	Mo 202.031†	12.7	0.4	0.0384 ug/L	0.0384 ppb	21:59:29
3	Ni 231.604†	95.6	13.2	0.4085 ug/L	0.4085 ppb	21:59:29
3	P 214.914†	211.2	8.2	4.3006 ug/L	4.3006 ppb	21:59:29
3	Pb 220.353†	-74.6	-15.7	-2.4829 ug/L	-2.4829 ppb	21:59:29
3	S 181.975 Axial†	44.8	2.9	3.5862 ug/L	3.5862 ppb	21:59:29
3	Sb 206.836†	37.9	4.3	1.6520 ug/L	1.6520 ppb	21:59:29
3	Se 196.026†	-21.2	-1.8	-1.0974 ug/L	-1.0974 ppb	21:59:29
3	Si 251.611†	647.0	83.2	2.9653 ug/L	2.9653 ppb	21:59:29
3	Sn 189.927†	7.6	-5.6	-1.2850 ug/L	-1.2850 ppb	21:59:29
3	Ti 334.940†	-1220.3	138.4	0.2696 ug/L	0.2696 ppb	21:59:09
3	Tl 190.801†	-33.6	2.8	1.2644 ug/L	1.2644 ppb	21:59:29
3	U 409.014†	-2311.9	102.1	3.3861 ug/L	3.3861 ppb	21:59:09
3	V 292.402†	-1672.4	19.7	0.1619 ug/L	0.1619 ppb	21:59:09
3	Zn 213.857†	760.1	-52.1	-0.5623 ug/L	-0.5623 ppb	21:59:29
3	SiO2†	640.9	68.0	5.2043 ug/L	5.2043 ppb	21:59:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804276.3	101.70 %		0.904			0.89%
Sc Radial	4831.1	102 %		1.4			1.37%
Y 371.029	717586.6	101.50 %		0.836			0.82%
Y RADIAL	5139.1	102.0 %		1.18			1.16%
Ag 328.068†	20.5	0.0998 ug/L		0.06261	0.0998 ppb	0.06261	62.74%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	1.8	1.6407 ug/L		7.42169	1.6407 ppb	7.42169	452.34%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.7	0.7224 ug/L		3.08091	0.7224 ppb	3.08091	426.48%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-108.1	-2.6882 ug/L		0.18692	-2.6882 ppb	0.18692	6.95%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	4.9	0.0569 ug/L		0.05038	0.0569 ppb	0.05038	88.49%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	100.5	0.0398 ug/L		0.03038	0.0398 ppb	0.03038	76.34%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.9	8.7469 ug/L		0.89732	8.7469 ppb	0.89732	10.26%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	14.1	0.1952 ug/L	0.10445	0.1952 ppb	0.10445	53.51%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	7.4	0.2202 ug/L	0.10349	0.2202 ppb	0.10349	47.00%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	5.0	0.0656 ug/L	0.33819	0.0656 ppb	0.33819	515.35%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	89.5	0.3286 ug/L	0.34757	0.3286 ppb	0.34757	105.77%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.3	-3.3112 ug/L	4.61987	-3.3112 ppb	4.61987	139.52%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	133.6	25.238 ug/L	14.4183	25.238 ppb	14.4183	57.13%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.0	-1.5754 ug/L	57.31703	-1.5754 ppb	57.31703	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	36.8	0.0576 ug/L	0.02223	0.0576 ppb	0.02223	38.62%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.8	0.2533 ug/L	0.48674	0.2533 ppb	0.48674	192.13%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-88.4	-26.905 ug/L	5.6111	-26.905 ppb	5.6111	20.85%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	13.1	0.4038 ug/L	0.48284	0.4038 ppb	0.48284	119.58%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	6.4	3.3876 ug/L	4.12011	3.3876 ppb	4.12011	121.62%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-16.4	-2.6095 ug/L	0.11037	-2.6095 ppb	0.11037	4.23%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	4.7	5.8348 ug/L	4.84793	5.8348 ppb	4.84793	83.09%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	5.2	2.0418 ug/L	1.29203	2.0418 ppb	1.29203	63.28%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.9	0.5090 ug/L	4.19230	0.5090 ppb	4.19230	823.67%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	87.7	3.1259 ug/L	0.21861	3.1259 ppb	0.21861	6.99%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.6	-0.3649 ug/L	0.84353	-0.3649 ppb	0.84353	231.15%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	1.9	0.0133 ug/L	0.03074	0.0133 ppb	0.03074	230.38%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	109.4	0.2169 ug/L	0.16400	0.2169 ppb	0.16400	75.62%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	3.1	1.4284 ug/L	0.33077	1.4284 ppb	0.33077	23.16%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	72.4	2.3996 ug/L	1.53341	2.3996 ppb	1.53341	63.90%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-5.4	-0.0332 ug/L	0.16986	-0.0332 ppb	0.16986	511.18%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-49.7	-0.5370 ug/L	0.04816	-0.5370 ppb	0.04816	8.97%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	77.5	5.9213 ug/L	0.96518	5.9213 ppb	0.96518	16.30%	
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: 3/4/2010 22:43:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4848.1	4848.1	102 %		22:44:52
1	Y RADIAL	5117.2	5117.2	101.5 %		22:44:52
1	Al 396.153Radial†	5350.6	5322.5	4849.8 ug/L	4849.8 ppb	22:44:52
1	Ca 317.933Radial†	2820.1	2743.6	4909.7 ug/L	4909.7 ppb	22:45:12
1	Fe 238.204 Radial†	479.1	462.0	4809.6 ug/L	4809.6 ppb	22:45:12
1	K 766.490 Radial†	28987.5	26081.9	4919.3 ug/L	4919.3 ppb	22:44:52
1	Mg 279.077 IEC†	132.9	128.1	5046.5 ug/L	5046.5 ppb	22:45:12
1	Na 589.592 Radial†	28453.8	28603.0	8703.6 ug/L	8703.6 ppb	22:44:52
1	Sr 421.552†	68261.7	66832.6	476.20 ug/L	476.20 ppb	22:44:52
1	Sc 361.383	817323.1	817323.1	103.35 %		22:46:11
1	Y 371.029	721177.3	721177.3	102.01 %		22:46:11
1	Ag 328.068†	100795.6	97349.7	492.00 ug/L	492.00 ppb	22:46:11
1	As 188.979†	1136.8	1128.5	494.84 ug/L	494.84 ppb	22:46:31
1	B 249.677†	19808.5	19390.3	480.00 ug/L	480.00 ppb	22:46:11
1	Ba 233.527†	44046.5	42621.8	495.50 ug/L	495.50 ppb	22:46:11
1	Be 313.107†	1298161.8	1265386.6	496.20 ug/L	496.20 ppb	22:46:11
1	Cd 226.502†	36025.9	35040.0	481.60 ug/L	481.60 ppb	22:46:31
1	Co 228.616†	17265.4	16769.7	498.97 ug/L	498.97 ppb	22:46:31
1	Cr 267.716†	38224.2	36923.1	492.95 ug/L	492.95 ppb	22:46:11
1	Cu 324.752†	146481.3	134006.2	494.26 ug/L	494.26 ppb	22:46:11
1	Mn 257.610†	330717.1	319559.4	502.32 ug/L	502.32 ppb	22:46:11
1	Mo 202.031†	5615.8	5421.7	490.60 ug/L	490.60 ppb	22:46:31
1	Ni 231.604†	16469.4	15854.7	489.18 ug/L	489.18 ppb	22:46:31
1	P 214.914†	4869.4	4512.6	2351.7 ug/L	2351.7 ppb	22:46:31
1	Pb 220.353†	3127.3	3083.3	491.25 ug/L	491.25 ppb	22:46:31
1	S 181.975 Axial†	855.4	786.6	976.26 ug/L	976.26 ppb	22:46:31
1	Sb 206.836†	1278.2	1203.9	489.45 ug/L	489.45 ppb	22:46:31
1	Se 196.026†	832.4	824.4	502.15 ug/L	502.15 ppb	22:46:31
1	Si 251.611†	71757.8	68879.1	2450.4 ug/L	2450.4 ppb	22:46:11
1	Sn 189.927†	2192.7	2108.6	482.48 ug/L	482.48 ppb	22:46:31
1	Ti 334.940†	260184.7	253080.1	501.24 ug/L	501.24 ppb	22:46:11
1	Tl 190.801†	1079.4	1080.1	493.09 ug/L	493.09 ppb	22:46:31
1	U 409.014†	12258.5	14229.5	470.18 ug/L	470.18 ppb	22:46:11
1	V 292.402†	63745.4	63337.0	498.36 ug/L	498.36 ppb	22:46:11
1	Zn 213.857†	48232.2	45870.4	488.38 ug/L	488.38 ppb	22:46:11
1	SiO2†	71304.9	68431.7	5223.2 ug/L	5223.2 ppb	22:47:31
2	Sc Radial	4769.3	4769.3	100 %		22:45:17
2	Y RADIAL	5015.7	5015.7	99.52 %		22:45:17
2	Al 396.153Radial†	5406.3	5464.5	4980.1 ug/L	4980.1 ppb	22:45:17
2	Ca 317.933Radial†	2802.9	2772.1	4960.7 ug/L	4960.7 ppb	22:45:37
2	Fe 238.204 Radial†	480.6	471.2	4905.3 ug/L	4905.3 ppb	22:45:37
2	K 766.490 Radial†	29240.0	26802.1	5055.2 ug/L	5055.2 ppb	22:45:17
2	Mg 279.077 IEC†	134.8	132.1	5204.2 ug/L	5204.2 ppb	22:45:37
2	Na 589.592 Radial†	28589.5	29198.4	8884.7 ug/L	8884.7 ppb	22:45:17
2	Sr 421.552†	68743.5	68416.4	487.49 ug/L	487.49 ppb	22:45:17
2	Sc 361.383	818240.4	818240.4	103.47 %		22:46:38
2	Y 371.029	722001.5	722001.5	102.12 %		22:46:38
2	Ag 328.068†	101700.8	98115.2	495.88 ug/L	495.88 ppb	22:46:38
2	As 188.979†	1132.1	1122.8	492.42 ug/L	492.42 ppb	22:46:59
2	B 249.677†	19989.9	19544.1	483.82 ug/L	483.82 ppb	22:46:38
2	Ba 233.527†	44528.9	43040.2	500.36 ug/L	500.36 ppb	22:46:38
2	Be 313.107†	1309165.4	1274613.3	499.82 ug/L	499.82 ppb	22:46:38
2	Cd 226.502†	35665.6	34652.6	476.27 ug/L	476.27 ppb	22:46:59
2	Co 228.616†	17122.1	16612.5	494.28 ug/L	494.28 ppb	22:46:59
2	Cr 267.716†	38536.0	37183.0	496.41 ug/L	496.41 ppb	22:46:38
2	Cu 324.752†	147888.9	135207.7	498.69 ug/L	498.69 ppb	22:46:38
2	Mn 257.610†	333287.0	321684.4	505.66 ug/L	505.66 ppb	22:46:38
2	Mo 202.031†	5574.7	5375.9	486.47 ug/L	486.47 ppb	22:46:59
2	Ni 231.604†	16310.9	15683.6	483.90 ug/L	483.90 ppb	22:46:59

2	P 214.914†	4816.5	4456.2	2320.2 ug/L	2320.2 ppb	22:46:59
2	Pb 220.353†	3101.9	3055.4	486.83 ug/L	486.83 ppb	22:46:59
2	S 181.975 Axial†	834.6	765.6	950.08 ug/L	950.08 ppb	22:46:59
2	Sb 206.836†	1291.0	1214.8	493.63 ug/L	493.63 ppb	22:46:59
2	Se 196.026†	830.9	822.0	500.97 ug/L	500.97 ppb	22:46:59
2	Si 251.611†	72431.7	69452.6	2470.9 ug/L	2470.9 ppb	22:46:38
2	Sn 189.927†	2193.0	2106.4	482.00 ug/L	482.00 ppb	22:46:59
2	Ti 334.940†	262405.1	254943.8	504.92 ug/L	504.92 ppb	22:46:38
2	Tl 190.801†	1060.9	1061.0	484.53 ug/L	484.53 ppb	22:46:59
2	U 409.014†	12617.0	14562.7	481.20 ug/L	481.20 ppb	22:46:38
2	V 292.402†	64216.0	63722.8	501.30 ug/L	501.30 ppb	22:46:38
2	Zn 213.857†	48666.6	46238.0	492.34 ug/L	492.34 ppb	22:46:38
2	SiO2†	71403.2	68449.4	5224.7 ug/L	5224.7 ppb	22:47:36
3	Sc Radial	4737.8	4737.8	99.8 %		22:45:42
3	Y RADIAL	5011.3	5011.3	99.43 %		22:45:42
3	Al 396.153Radial†	5366.8	5460.7	4976.1 ug/L	4976.1 ppb	22:45:42
3	Ca 317.933Radial†	2846.3	2834.1	5071.7 ug/L	5071.7 ppb	22:46:02
3	Fe 238.204 Radial†	484.4	478.1	4977.4 ug/L	4977.4 ppb	22:46:02
3	K 766.490 Radial†	28907.4	26662.1	5028.7 ug/L	5028.7 ppb	22:45:42
3	Mg 279.077 IEC†	136.4	134.6	5304.9 ug/L	5304.9 ppb	22:46:02
3	Na 589.592 Radial†	28227.9	29025.0	8832.0 ug/L	8832.0 ppb	22:45:42
3	Sr 421.552†	68002.7	68128.4	485.43 ug/L	485.43 ppb	22:45:42
3	Sc 361.383	804181.6	804181.6	101.69 %		22:47:06
3	Y 371.029	711098.8	711098.8	100.58 %		22:47:06
3	Ag 328.068†	99303.8	97476.4	492.68 ug/L	492.68 ppb	22:47:06
3	As 188.979†	1131.8	1141.6	500.56 ug/L	500.56 ppb	22:47:26
3	B 249.677†	19445.3	19346.2	478.87 ug/L	478.87 ppb	22:47:06
3	Ba 233.527†	43301.4	42585.6	495.08 ug/L	495.08 ppb	22:47:06
3	Be 313.107†	1277422.2	1265517.6	496.25 ug/L	496.25 ppb	22:47:06
3	Cd 226.502†	35800.9	35388.4	486.38 ug/L	486.38 ppb	22:47:26
3	Co 228.616†	17131.0	16910.6	503.18 ug/L	503.18 ppb	22:47:26
3	Cr 267.716†	37576.2	36890.3	492.51 ug/L	492.51 ppb	22:47:06
3	Cu 324.752†	144134.5	134014.6	494.30 ug/L	494.30 ppb	22:47:06
3	Mn 257.610†	324393.7	318570.3	500.77 ug/L	500.77 ppb	22:47:06
3	Mo 202.031†	5584.7	5479.9	495.88 ug/L	495.88 ppb	22:47:26
3	Ni 231.604†	16375.4	16022.7	494.36 ug/L	494.36 ppb	22:47:26
3	P 214.914†	4809.5	4530.7	2361.5 ug/L	2361.5 ppb	22:47:26
3	Pb 220.353†	3094.2	3100.2	493.96 ug/L	493.96 ppb	22:47:26
3	S 181.975 Axial†	844.1	789.0	979.16 ug/L	979.16 ppb	22:47:26
3	Sb 206.836†	1296.5	1242.1	504.64 ug/L	504.64 ppb	22:47:26
3	Se 196.026†	815.1	820.5	500.27 ug/L	500.27 ppb	22:47:26
3	Si 251.611†	70491.2	68768.2	2446.4 ug/L	2446.4 ppb	22:47:06
3	Sn 189.927†	2187.2	2137.8	489.17 ug/L	489.17 ppb	22:47:26
3	Ti 334.940†	255504.9	252591.9	500.27 ug/L	500.27 ppb	22:47:06
3	Tl 190.801†	1069.9	1087.8	496.56 ug/L	496.56 ppb	22:47:26
3	U 409.014†	12160.0	14326.4	473.37 ug/L	473.37 ppb	22:47:06
3	V 292.402†	62493.3	63113.6	496.68 ug/L	496.68 ppb	22:47:06
3	Zn 213.857†	47288.4	45704.9	486.54 ug/L	486.54 ppb	22:47:06
3	SiO2†	71015.3	69274.4	5287.6 ug/L	5287.6 ppb	22:47:41

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813248.3	102.84 %	0.995			0.97%
Sc Radial	4785.1	101 %	1.2			1.19%
Y 371.029	718092.6	101.57 %	0.859			0.85%
Y RADIAL	5048.1	100.2 %	1.19			1.19%
Ag 328.068†	97647.1	493.52 ug/L	2.071	493.52 ppb	2.071	0.42%
QC value within limits for Ag 328.068 Recovery = 98.70%						
Al 396.153Radial†	5415.9	4935.3 ug/L	74.08	4935.3 ppb	74.08	1.50%
QC value within limits for Al 396.153Radial Recovery = 98.71%						
As 188.979†	1131.0	495.94 ug/L	4.180	495.94 ppb	4.180	0.84%
QC value within limits for As 188.979 Recovery = 99.19%						
B 249.677†	19426.9	480.90 ug/L	2.598	480.90 ppb	2.598	0.54%
QC value within limits for B 249.677 Recovery = 96.18%						
Ba 233.527†	42749.2	496.98 ug/L	2.935	496.98 ppb	2.935	0.59%
QC value within limits for Ba 233.527 Recovery = 99.40%						
Be 313.107†	1268505.9	497.43 ug/L	2.075	497.43 ppb	2.075	0.42%
QC value within limits for Be 313.107 Recovery = 99.49%						
Ca 317.933Radial†	2783.2	4980.7 ug/L	82.80	4980.7 ppb	82.80	1.66%

QC value within limits for Ca 317.933 Radial Recovery = 99.61%

Cd 226.502† 35027.0 481.42 ug/L 5.059 481.42 ppb 5.059 1.05%

QC value within limits for Cd 226.502 Recovery = 96.28%

Co 228.616† 16764.3 498.81 ug/L 4.451 498.81 ppb 4.451 0.89%

QC value within limits for Co 228.616 Recovery = 99.76%

Cr 267.716† 36998.8 493.95 ug/L 2.140 493.95 ppb 2.140 0.43%

QC value within limits for Cr 267.716 Recovery = 98.79%

Cu 324.752† 134409.5 495.75 ug/L 2.547 495.75 ppb 2.547 0.51%

QC value within limits for Cu 324.752 Recovery = 99.15%

Fe 238.204 Radial† 470.4 4897.5 ug/L 84.15 4897.5 ppb 84.15 1.72%

QC value within limits for Fe 238.204 Radial Recovery = 97.95%

K 766.490 Radial† 26515.4 5001.1 ug/L 72.06 5001.1 ppb 72.06 1.44%

QC value within limits for K 766.490 Radial Recovery = 100.02%

Mg 279.077 IEC† 131.6 5185.2 ug/L 130.23 5185.2 ppb 130.23 2.51%

QC value within limits for Mg 279.077 IEC Recovery = 103.70%

Mn 257.610† 319938.0 502.91 ug/L 2.499 502.91 ppb 2.499 0.50%

QC value within limits for Mn 257.610 Recovery = 100.58%

Mo 202.031† 5425.8 490.98 ug/L 4.717 490.98 ppb 4.717 0.96%

QC value within limits for Mo 202.031 Recovery = 98.20%

Na 589.592 Radial† 28942.1 8806.7 ug/L 93.18 8806.7 ppb 93.18 1.06%

QC value less than the lower limit for Na 589.592 Radial Recovery = 88.07%

Ni 231.604† 15853.7 489.15 ug/L 5.231 489.15 ppb 5.231 1.07%

QC value within limits for Ni 231.604 Recovery = 97.83%

P 214.914† 4499.9 2344.4 ug/L 21.59 2344.4 ppb 21.59 0.92%

QC value within limits for P 214.914 Recovery = 93.78%

Pb 220.353† 3079.7 490.68 ug/L 3.599 490.68 ppb 3.599 0.73%

QC value within limits for Pb 220.353 Recovery = 98.14%

S 181.975 Axial† 780.4 968.50 ug/L 16.019 968.50 ppb 16.019 1.65%

QC value within limits for S 181.975 Axial Recovery = 96.85%

Sb 206.836† 1220.3 495.91 ug/L 7.846 495.91 ppb 7.846 1.58%

QC value within limits for Sb 206.836 Recovery = 99.18%

Se 196.026† 822.3 501.13 ug/L 0.949 501.13 ppb 0.949 0.19%

QC value within limits for Se 196.026 Recovery = 100.23%

Si 251.611† 69033.3 2455.9 ug/L 13.15 2455.9 ppb 13.15 0.54%

QC value within limits for Si 251.611 Recovery = 98.24%

Sn 189.927† 2117.6 484.55 ug/L 4.010 484.55 ppb 4.010 0.83%

QC value within limits for Sn 189.927 Recovery = 96.91%

Sr 421.552† 67792.4 483.04 ug/L 6.011 483.04 ppb 6.011 1.24%

QC value within limits for Sr 421.552 Recovery = 96.61%

Ti 334.940† 253538.6 502.14 ug/L 2.452 502.14 ppb 2.452 0.49%

QC value within limits for Ti 334.940 Recovery = 100.43%

Tl 190.801† 1076.3 491.39 ug/L 6.193 491.39 ppb 6.193 1.26%

QC value within limits for Tl 190.801 Recovery = 98.28%

U 409.014† 14372.9 474.92 ug/L 5.674 474.92 ppb 5.674 1.19%

QC value within limits for U 409.014 Recovery = 94.98%

V 292.402† 63391.1 498.78 ug/L 2.336 498.78 ppb 2.336 0.47%

QC value within limits for V 292.402 Recovery = 99.76%

Zn 213.857† 45937.8 489.09 ug/L 2.964 489.09 ppb 2.964 0.61%

QC value within limits for Zn 213.857 Recovery = 97.82%

Sio2† 68718.5 5245.2 ug/L 36.73 5245.2 ppb 36.73 0.70%

QC value within limits for Sio2 Recovery = 98.09%

QC Failed. Continue with analysis.

Sequence No.: 39

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/4/2010 22:49:51

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	4763.7	4763.7	100 %		22:51:43
1	Y RADIAL	5041.1	5041.1	100.0 %		22:51:43
1	Al 396.153Radial†	-73.9	8.9	8.1032 ug/L	8.1032 ppb	22:52:03
1	Ca 317.933Radial†	23.1	4.8	8.5453 ug/L	8.5453 ppb	22:52:03
1	Fe 238.204 Radial†	10.1	2.8	28.814 ug/L	28.814 ppb	22:52:03
1	K 766.490 Radial†	2343.7	29.2	5.5323 ug/L	5.5323 ppb	22:51:43
1	Mg 279.077 IEC†	0.7	-1.4	-57.093 ug/L	-57.093 ppb	22:52:03
1	Na 589.592 Radial†	-864.6	-124.6	-37.924 ug/L	-37.924 ppb	22:51:43
1	Sr 421.552†	40.9	21.8	0.1551 ug/L	0.1551 ppb	22:51:43
1	Sc 361.383	796400.3	796400.3	100.71 %		22:53:00
1	Y 371.029	710999.7	710999.7	100.57 %		22:53:00
1	Ag 328.068†	208.6	30.7	0.1629 ug/L	0.1629 ppb	22:53:00
1	As 188.979†	-33.0	-4.1	-1.7895 ug/L	-1.7895 ppb	22:53:20
1	B 249.677†	-288.2	-62.0	-1.5458 ug/L	-1.5458 ppb	22:53:20
1	Ba 233.527†	4.8	8.8	0.1030 ug/L	0.1030 ppb	22:53:20
1	Be 313.107†	-9305.3	92.5	0.0363 ug/L	0.0363 ppb	22:53:00
1	Cd 226.502†	-173.0	10.8	0.1463 ug/L	0.1463 ppb	22:53:20
1	Co 228.616†	-58.5	6.3	0.1869 ug/L	0.1869 ppb	22:53:20
1	Cr 267.716†	75.2	13.5	0.1801 ug/L	0.1801 ppb	22:53:20
1	Cu 324.752†	7917.0	137.7	0.5096 ug/L	0.5096 ppb	22:53:00
1	Mn 257.610†	461.6	27.9	0.0490 ug/L	0.0490 ppb	22:53:20
1	Mo 202.031†	13.6	1.5	0.1370 ug/L	0.1370 ppb	22:53:20
1	Ni 231.604†	104.4	23.2	0.7149 ug/L	0.7149 ppb	22:53:20
1	P 214.914†	202.2	1.9	0.9163 ug/L	0.9163 ppb	22:53:20
1	Pb 220.353†	-68.4	-10.4	-1.6550 ug/L	-1.6550 ppb	22:53:20
1	S 181.975 Axial†	38.0	-3.3	-4.0897 ug/L	-4.0897 ppb	22:53:20
1	Sb 206.836†	44.8	11.6	4.5429 ug/L	4.5429 ppb	22:53:20
1	Se 196.026†	-21.2	-2.1	-1.1630 ug/L	-1.1630 ppb	22:53:20
1	Si 251.611†	571.0	15.9	0.5639 ug/L	0.5639 ppb	22:53:20
1	Sn 189.927†	7.0	-6.1	-1.4031 ug/L	-1.4031 ppb	22:53:20
1	Ti 334.940†	-1314.5	29.5	0.0642 ug/L	0.0642 ppb	22:53:00
1	Tl 190.801†	-22.3	13.6	6.1460 ug/L	6.1460 ppb	22:53:20
1	U 409.014†	-2386.6	-1.3	-0.0456 ug/L	-0.0456 ppb	22:53:00
1	V 292.402†	-1672.8	-1.8	-0.0172 ug/L	-0.0172 ppb	22:53:00
1	Zn 213.857†	762.5	-40.1	-0.4408 ug/L	-0.4408 ppb	22:53:20
1	SiO2†	599.9	35.4	2.7046 ug/L	2.7046 ppb	22:54:16
2	Sc Radial	4767.2	4767.2	100 %		22:52:08
2	Y RADIAL	5073.6	5073.6	100.7 %		22:52:08
2	Al 396.153Radial†	-76.2	6.5	5.9763 ug/L	5.9763 ppb	22:52:28
2	Ca 317.933Radial†	27.0	8.7	15.513 ug/L	15.513 ppb	22:52:28
2	Fe 238.204 Radial†	7.0	-0.3	-3.5739 ug/L	-3.5739 ppb	22:52:28
2	K 766.490 Radial†	2409.7	93.2	17.598 ug/L	17.598 ppb	22:52:08
2	Mg 279.077 IEC†	3.6	1.5	57.328 ug/L	57.328 ppb	22:52:28
2	Na 589.592 Radial†	-825.6	-85.1	-25.909 ug/L	-25.909 ppb	22:52:08
2	Sr 421.552†	27.2	8.2	0.0580 ug/L	0.0580 ppb	22:52:08
2	Sc 361.383	797346.1	797346.1	100.83 %		22:53:25
2	Y 371.029	711197.3	711197.3	100.60 %		22:53:25
2	Ag 328.068†	190.7	12.7	0.0606 ug/L	0.0606 ppb	22:53:25
2	As 188.979†	-27.0	1.8	0.7951 ug/L	0.7951 ppb	22:53:45
2	B 249.677†	-331.2	-104.2	-2.5925 ug/L	-2.5925 ppb	22:53:45
2	Ba 233.527†	-0.0	4.0	0.0475 ug/L	0.0475 ppb	22:53:45
2	Be 313.107†	-9360.8	48.4	0.0192 ug/L	0.0192 ppb	22:53:25
2	Cd 226.502†	-181.8	2.3	0.0336 ug/L	0.0336 ppb	22:53:45
2	Co 228.616†	-56.4	8.4	0.2513 ug/L	0.2513 ppb	22:53:45
2	Cr 267.716†	63.3	1.6	0.0200 ug/L	0.0200 ppb	22:53:45
2	Cu 324.752†	7872.9	84.6	0.3095 ug/L	0.3095 ppb	22:53:25
2	Mn 257.610†	421.5	-12.4	-0.0222 ug/L	-0.0222 ppb	22:53:45
2	Mo 202.031†	16.9	4.8	0.4361 ug/L	0.4361 ppb	22:53:45
2	Ni 231.604†	88.7	7.5	0.2315 ug/L	0.2315 ppb	22:53:45

2	P 214.914†	203.9	3.4	1.7840 ug/L	1.7840 ppb	22:53:45
2	Pb 220.353†	-59.7	-1.7	-0.2596 ug/L	-0.2596 ppb	22:53:45
2	S 181.975 Axial†	46.3	4.9	6.0659 ug/L	6.0659 ppb	22:53:45
2	Sb 206.836†	38.3	5.1	2.0434 ug/L	2.0434 ppb	22:53:45
2	Se 196.026†	-20.2	-1.1	-0.6561 ug/L	-0.6561 ppb	22:53:45
2	Si 251.611†	576.8	21.0	0.7418 ug/L	0.7418 ppb	22:53:45
2	Sn 189.927†	18.2	5.0	1.1511 ug/L	1.1511 ppb	22:53:45
2	Ti 334.940†	-1274.3	70.8	0.1358 ug/L	0.1358 ppb	22:53:25
2	Tl 190.801†	-36.0	-0.0	-0.0191 ug/L	-0.0191 ppb	22:53:45
2	U 409.014†	-2255.4	131.7	4.3685 ug/L	4.3685 ppb	22:53:25
2	V 292.402†	-1614.9	57.7	0.4640 ug/L	0.4640 ppb	22:53:25
2	Zn 213.857†	752.3	-51.2	-0.5514 ug/L	-0.5514 ppb	22:53:45
2	SiO2†	589.4	24.3	1.8462 ug/L	1.8462 ppb	22:54:21
3	Sc Radial	4792.0	4792.0	101 %		22:52:33
3	Y RADIAL	5088.5	5088.5	101.0 %		22:52:33
3	Al 396.153Radial†	-78.3	4.9	4.4719 ug/L	4.4719 ppb	22:52:53
3	Ca 317.933Radial†	17.9	-0.6	-1.0141 ug/L	-1.0141 ppb	22:52:53
3	Fe 238.204 Radial†	10.0	2.7	27.797 ug/L	27.797 ppb	22:52:53
3	K 766.490 Radial†	2424.7	95.7	18.079 ug/L	18.079 ppb	22:52:33
3	Mg 279.077 IEC†	5.0	2.9	113.67 ug/L	113.67 ppb	22:52:53
3	Na 589.592 Radial†	-873.4	-128.3	-39.043 ug/L	-39.043 ppb	22:52:33
3	Sr 421.552†	19.8	0.7	0.0049 ug/L	0.0049 ppb	22:52:33
3	Sc 361.383	787587.4	787587.4	99.592 %		22:53:51
3	Y 371.029	702915.1	702915.1	99.424 %		22:53:51
3	Ag 328.068†	199.9	24.3	0.1353 ug/L	0.1353 ppb	22:53:51
3	As 188.979†	-34.7	-6.2	-2.6953 ug/L	-2.6953 ppb	22:54:11
3	B 249.677†	-333.6	-110.7	-2.7588 ug/L	-2.7588 ppb	22:54:11
3	Ba 233.527†	14.5	18.6	0.2168 ug/L	0.2168 ppb	22:54:11
3	Be 313.107†	-9255.6	39.0	0.0156 ug/L	0.0156 ppb	22:53:51
3	Cd 226.502†	-174.5	7.4	0.0986 ug/L	0.0986 ppb	22:54:11
3	Co 228.616†	-44.6	19.6	0.5837 ug/L	0.5837 ppb	22:54:11
3	Cr 267.716†	59.4	-1.5	-0.0178 ug/L	-0.0178 ppb	22:54:11
3	Cu 324.752†	7799.6	107.8	0.4019 ug/L	0.4019 ppb	22:53:51
3	Mn 257.610†	457.5	28.9	0.0435 ug/L	0.0435 ppb	22:54:11
3	Mo 202.031†	15.9	4.0	0.3625 ug/L	0.3625 ppb	22:54:11
3	Ni 231.604†	92.9	12.7	0.3932 ug/L	0.3932 ppb	22:54:11
3	P 214.914†	204.0	6.0	3.1624 ug/L	3.1624 ppb	22:54:11
3	Pb 220.353†	-60.6	-3.3	-0.5303 ug/L	-0.5303 ppb	22:54:11
3	S 181.975 Axial†	46.6	5.8	7.1601 ug/L	7.1601 ppb	22:54:11
3	Sb 206.836†	37.8	5.1	1.9853 ug/L	1.9853 ppb	22:54:11
3	Se 196.026†	-18.7	0.2	0.1799 ug/L	0.1799 ppb	22:54:11
3	Si 251.611†	602.7	54.0	1.9219 ug/L	1.9219 ppb	22:54:11
3	Sn 189.927†	12.0	-1.0	-0.2263 ug/L	-0.2263 ppb	22:54:11
3	Ti 334.940†	-1268.2	61.3	0.1143 ug/L	0.1143 ppb	22:53:51
3	Tl 190.801†	-27.9	7.7	3.4940 ug/L	3.4940 ppb	22:54:11
3	U 409.014†	-2508.7	-150.3	-4.9879 ug/L	-4.9879 ppb	22:53:51
3	V 292.402†	-1624.2	28.4	0.2144 ug/L	0.2144 ppb	22:53:51
3	Zn 213.857†	750.6	-43.7	-0.4763 ug/L	-0.4763 ppb	22:54:11
3	SiO2†	599.1	41.2	3.1433 ug/L	3.1433 ppb	22:54:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793777.9	100.38 %	0.681			0.68%
Sc Radial	4774.3	101 %	0.3			0.32%
Y 371.029	708370.7	100.20 %	0.668			0.67%
Y RADIAL	5067.8	100.5 %	0.48			0.48%
Ag 328.068†	22.5	0.1196 ug/L	0.05293	0.1196 ppb	0.05293	44.26%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	6.8	6.1838 ug/L	1.82451	6.1838 ppb	1.82451	29.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.8	-1.2299 ug/L	1.81125	-1.2299 ppb	1.81125	147.27%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-92.3	-2.2991 ug/L	0.65761	-2.2991 ppb	0.65761	28.60%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.5	0.1224 ug/L	0.08633	0.1224 ppb	0.08633	70.51%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	60.0	0.0237 ug/L	0.01107	0.0237 ppb	0.01107	46.71%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.3	7.6815 ug/L	8.29749	7.6815 ppb	8.29749	108.02%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	6.9	0.0929 ug/L	0.05654	0.0929 ppb	0.05654	60.89%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	11.4	0.3406 ug/L	0.21296	0.3406 ppb	0.21296	62.52%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	4.5	0.0608 ug/L	0.10507	0.0608 ppb	0.10507	172.92%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	110.1	0.4070 ug/L	0.10014	0.4070 ppb	0.10014	24.60%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.7	17.679 ug/L	18.4124	17.679 ppb	18.4124	104.15%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	72.7	13.737 ug/L	7.1092	13.737 ppb	7.1092	51.75%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.0	37.967 ug/L	87.0112	37.967 ppb	87.0112	229.17%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	14.8	0.0235 ug/L	0.03961	0.0235 ppb	0.03961	168.81%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	3.4	0.3119 ug/L	0.15586	0.3119 ppb	0.15586	49.98%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-112.7	-34.292 ug/L	7.2814	-34.292 ppb	7.2814	21.23%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	14.5	0.4465 ug/L	0.24605	0.4465 ppb	0.24605	55.10%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	3.8	1.9542 ug/L	1.13272	1.9542 ppb	1.13272	57.96%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-5.1	-0.8150 ug/L	0.73997	-0.8150 ppb	0.73997	90.79%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.5	3.0454 ug/L	6.20340	3.0454 ppb	6.20340	203.70%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	7.3	2.8572 ug/L	1.46017	2.8572 ppb	1.46017	51.10%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.0	-0.5464 ug/L	0.67814	-0.5464 ppb	0.67814	124.12%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	30.3	1.0759 ug/L	0.73805	1.0759 ppb	0.73805	68.60%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.7	-0.1594 ug/L	1.27840	-0.1594 ppb	1.27840	801.86%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	10.2	0.0727 ug/L	0.07615	0.0727 ppb	0.07615	104.78%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	53.9	0.1048 ug/L	0.03678	0.1048 ppb	0.03678	35.11%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	7.1	3.2070 ug/L	3.09256	3.2070 ppb	3.09256	96.43%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-6.6	-0.2217 ug/L	4.68073	-0.2217 ppb	4.68073	>999.9%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	28.1	0.2204 ug/L	0.24066	0.2204 ppb	0.24066	109.20%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-45.0	-0.4895 ug/L	0.05647	-0.4895 ppb	0.05647	11.54%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	33.6	2.5647 ug/L	0.65979	2.5647 ppb	0.65979	25.73%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 47
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/4/2010 23:44:45
 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	4728.9	4728.9	99.6 %		23:46:37
1	Y RADIAL	5008.6	5008.6	99.37 %		23:46:37
1	Al 396.153Radial†	5439.9	5544.3	5052.9 ug/L	5052.9 ppb	23:46:37
1	Ca 317.933Radial†	2819.4	2812.4	5032.9 ug/L	5032.9 ppb	23:46:57
1	Fe 238.204 Radial†	485.2	479.9	4995.4 ug/L	4995.4 ppb	23:46:57
1	K 766.490 Radial†	29355.7	27166.8	5123.8 ug/L	5123.8 ppb	23:46:37
1	Mg 279.077 IEC†	135.0	133.4	5258.5 ug/L	5258.5 ppb	23:46:57
1	Na 589.592 Radial†	29958.1	30815.4	9376.8 ug/L	9376.8 ppb	23:46:37
1	Sr 421.552†	70322.9	70586.4	502.95 ug/L	502.95 ppb	23:46:37
1	Sc 361.383	808954.8	808954.8	102.29 %		23:47:54
1	Y 371.029	713593.0	713593.0	100.93 %		23:47:54
1	Ag 328.068†	101330.5	98881.5	499.75 ug/L	499.75 ppb	23:47:59
1	As 188.979†	1139.5	1142.5	500.94 ug/L	500.94 ppb	23:48:19
1	B 249.677†	19770.1	19550.9	483.99 ug/L	483.99 ppb	23:47:59
1	Ba 233.527†	44125.3	43139.7	501.52 ug/L	501.52 ppb	23:47:59
1	Be 313.107†	1289592.5	1270002.8	498.00 ug/L	498.00 ppb	23:47:54
1	Cd 226.502†	36871.5	36227.2	497.92 ug/L	497.92 ppb	23:47:59
1	Co 228.616†	16760.3	16448.8	489.43 ug/L	489.43 ppb	23:48:19
1	Cr 267.716†	38310.4	37390.0	499.17 ug/L	499.17 ppb	23:47:59
1	Cu 324.752†	145799.1	134805.5	497.21 ug/L	497.21 ppb	23:47:59
1	Mn 257.610†	325689.5	317954.7	499.80 ug/L	499.80 ppb	23:47:59
1	Mo 202.031†	5560.2	5423.5	490.79 ug/L	490.79 ppb	23:48:19
1	Ni 231.604†	16684.0	16229.3	500.75 ug/L	500.75 ppb	23:47:59
1	P 214.914†	4800.3	4493.8	2340.9 ug/L	2340.9 ppb	23:48:19
1	Pb 220.353†	3104.6	3092.5	492.73 ug/L	492.73 ppb	23:48:19
1	S 181.975 Axial†	845.7	785.7	975.04 ug/L	975.04 ppb	23:48:19
1	Sb 206.836†	1281.4	1219.8	495.76 ug/L	495.76 ppb	23:48:19
1	Se 196.026†	817.7	818.3	498.98 ug/L	498.98 ppb	23:48:19
1	Si 251.611†	71744.0	69583.8	2475.6 ug/L	2475.6 ppb	23:47:59
1	Sn 189.927†	2188.6	2126.4	486.57 ug/L	486.57 ppb	23:48:19
1	Ti 334.940†	255177.9	250789.7	496.69 ug/L	496.69 ppb	23:47:59
1	Tl 190.801†	1062.2	1074.0	490.34 ug/L	490.34 ppb	23:48:19
1	U 409.014†	12915.7	14994.7	495.51 ug/L	495.51 ppb	23:47:59
1	V 292.402†	63800.2	64028.7	503.76 ug/L	503.76 ppb	23:47:59
1	Zn 213.857†	48270.1	46390.2	493.86 ug/L	493.86 ppb	23:47:59
1	SiO2†	70991.8	68839.4	5254.4 ug/L	5254.4 ppb	23:49:26
2	Sc Radial	4792.4	4792.4	101 %		23:47:02
2	Y RADIAL	5037.3	5037.3	99.94 %		23:47:02
2	Al 396.153Radial†	5383.1	5415.7	4935.1 ug/L	4935.1 ppb	23:47:02
2	Ca 317.933Radial†	2822.3	2777.9	4971.1 ug/L	4971.1 ppb	23:47:22
2	Fe 238.204 Radial†	486.5	474.7	4941.8 ug/L	4941.8 ppb	23:47:22
2	K 766.490 Radial†	29212.8	26635.1	5023.5 ug/L	5023.5 ppb	23:47:02
2	Mg 279.077 IEC†	131.9	128.5	5064.8 ug/L	5064.8 ppb	23:47:22
2	Na 589.592 Radial†	29689.4	30151.0	9174.6 ug/L	9174.6 ppb	23:47:02
2	Sr 421.552†	69910.8	69243.3	493.38 ug/L	493.38 ppb	23:47:02
2	Sc 361.383	809569.6	809569.6	102.37 %		23:48:25
2	Y 371.029	715090.6	715090.6	101.15 %		23:48:25
2	Ag 328.068†	99798.3	97309.6	491.83 ug/L	491.83 ppb	23:48:30
2	As 188.979†	1133.3	1135.7	497.88 ug/L	497.88 ppb	23:48:50
2	B 249.677†	19486.2	19259.0	476.75 ug/L	476.75 ppb	23:48:30
2	Ba 233.527†	43401.8	42400.2	492.93 ug/L	492.93 ppb	23:48:30
2	Be 313.107†	1293142.2	1272513.0	498.96 ug/L	498.96 ppb	23:48:25
2	Cd 226.502†	36367.8	35707.7	490.77 ug/L	490.77 ppb	23:48:30
2	Co 228.616†	16709.2	16386.4	487.60 ug/L	487.60 ppb	23:48:50
2	Cr 267.716†	37818.2	36880.7	492.38 ug/L	492.38 ppb	23:48:30
2	Cu 324.752†	143929.4	132870.9	490.07 ug/L	490.07 ppb	23:48:30
2	Mn 257.610†	320795.9	312932.7	491.92 ug/L	491.92 ppb	23:48:30
2	Mo 202.031†	5576.6	5435.4	491.86 ug/L	491.86 ppb	23:48:50
2	Ni 231.604†	16382.7	15922.7	491.29 ug/L	491.29 ppb	23:48:30

2	P 214.914†	4817.5	4507.0	2349.4 ug/L	2349.4 ppb	23:48:50
2	Pb 220.353†	3086.7	3072.7	489.58 ug/L	489.58 ppb	23:48:50
2	S 181.975 Axial†	840.5	780.0	967.98 ug/L	967.98 ppb	23:48:50
2	Sb 206.836†	1294.2	1231.4	500.30 ug/L	500.30 ppb	23:48:50
2	Se 196.026†	819.0	819.0	499.24 ug/L	499.24 ppb	23:48:50
2	Si 251.611†	70609.0	68421.9	2434.1 ug/L	2434.1 ppb	23:48:30
2	Sn 189.927†	2181.0	2117.4	484.50 ug/L	484.50 ppb	23:48:50
2	Ti 334.940†	251495.5	247003.2	489.20 ug/L	489.20 ppb	23:48:30
2	Tl 190.801†	1083.5	1094.1	499.36 ug/L	499.36 ppb	23:48:50
2	U 409.014†	12623.8	14699.9	485.76 ug/L	485.76 ppb	23:48:30
2	V 292.402†	63162.1	63357.9	498.56 ug/L	498.56 ppb	23:48:30
2	Zn 213.857†	47559.9	45660.6	486.10 ug/L	486.10 ppb	23:48:30
2	SiO2†	70147.7	67962.1	5187.3 ug/L	5187.3 ppb	23:49:31
3	Sc Radial	4740.4	4740.4	99.8 %		23:47:27
3	Y RADIAL	4983.0	4983.0	98.87 %		23:47:27
3	Al 396.153Radial†	5324.4	5415.3	4934.7 ug/L	4934.7 ppb	23:47:27
3	Ca 317.933Radial†	2842.1	2828.4	5061.5 ug/L	5061.5 ppb	23:47:47
3	Fe 238.204 Radial†	490.3	483.8	5036.4 ug/L	5036.4 ppb	23:47:47
3	K 766.490 Radial†	28874.0	26612.9	5019.3 ug/L	5019.3 ppb	23:47:27
3	Mg 279.077 IEC†	135.5	133.6	5266.2 ug/L	5266.2 ppb	23:47:47
3	Na 589.592 Radial†	29366.2	30149.7	9174.2 ug/L	9174.2 ppb	23:47:27
3	Sr 421.552†	68997.7	69087.8	492.27 ug/L	492.27 ppb	23:47:27
3	Sc 361.383	809927.3	809927.3	102.42 %		23:48:56
3	Y 371.029	716079.4	716079.4	101.29 %		23:48:56
3	Ag 328.068†	99798.3	97266.5	491.64 ug/L	491.64 ppb	23:49:01
3	As 188.979†	1134.8	1136.7	498.32 ug/L	498.32 ppb	23:49:21
3	B 249.677†	19532.4	19295.6	477.63 ug/L	477.63 ppb	23:49:01
3	Ba 233.527†	43481.5	42459.3	493.62 ug/L	493.62 ppb	23:49:01
3	Be 313.107†	1290167.7	1269050.7	497.61 ug/L	497.61 ppb	23:48:56
3	Cd 226.502†	36456.1	35778.3	491.73 ug/L	491.73 ppb	23:49:01
3	Co 228.616†	16837.2	16504.2	491.10 ug/L	491.10 ppb	23:49:21
3	Cr 267.716†	37856.9	36902.3	492.67 ug/L	492.67 ppb	23:49:01
3	Cu 324.752†	143603.8	132490.9	488.68 ug/L	488.68 ppb	23:49:01
3	Mn 257.610†	321488.2	313470.3	492.76 ug/L	492.76 ppb	23:49:01
3	Mo 202.031†	5602.6	5458.4	493.94 ug/L	493.94 ppb	23:49:21
3	Ni 231.604†	16520.8	16050.4	495.23 ug/L	495.23 ppb	23:49:01
3	P 214.914†	4835.6	4522.6	2358.1 ug/L	2358.1 ppb	23:49:21
3	Pb 220.353†	3109.2	3093.3	492.85 ug/L	492.85 ppb	23:49:21
3	S 181.975 Axial†	845.3	784.3	973.34 ug/L	973.34 ppb	23:49:21
3	Sb 206.836†	1297.4	1233.9	501.44 ug/L	501.44 ppb	23:49:21
3	Se 196.026†	823.3	822.8	501.75 ug/L	501.75 ppb	23:49:21
3	Si 251.611†	70557.9	68341.5	2431.2 ug/L	2431.2 ppb	23:49:01
3	Sn 189.927†	2205.3	2140.2	489.72 ug/L	489.72 ppb	23:49:21
3	Ti 334.940†	251710.7	247104.8	489.40 ug/L	489.40 ppb	23:49:01
3	Tl 190.801†	1079.8	1090.1	497.51 ug/L	497.51 ppb	23:49:21
3	U 409.014†	12415.0	14490.6	478.81 ug/L	478.81 ppb	23:49:01
3	V 292.402†	63110.3	63280.2	497.96 ug/L	497.96 ppb	23:49:01
3	Zn 213.857†	47692.4	45769.5	487.23 ug/L	487.23 ppb	23:49:01
3	SiO2†	70692.1	68463.4	5225.6 ug/L	5225.6 ppb	23:49:37

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	809483.9	102.36 %	0.062			0.06%
Sc Radial	4753.9	100 %	0.7			0.71%
Y 371.029	714921.0	101.12 %	0.177			0.18%
Y RADIAL	5009.6	99.39 %	0.540			0.54%
Ag 328.068†	97819.2	494.41 ug/L	4.630	494.41 ppb	4.630	0.94%
QC value within limits for Ag 328.068 Recovery = 98.88%						
Al 396.153Radial†	5458.4	4974.2 ug/L	68.12	4974.2 ppb	68.12	1.37%
QC value within limits for Al 396.153Radial Recovery = 99.48%						
As 188.979†	1138.3	499.05 ug/L	1.651	499.05 ppb	1.651	0.33%
QC value within limits for As 188.979 Recovery = 99.81%						
B 249.677†	19368.5	479.46 ug/L	3.952	479.46 ppb	3.952	0.82%
QC value within limits for B 249.677 Recovery = 95.89%						
Ba 233.527†	42666.4	496.02 ug/L	4.773	496.02 ppb	4.773	0.96%
QC value within limits for Ba 233.527 Recovery = 99.20%						
Be 313.107†	1270522.2	498.19 ug/L	0.697	498.19 ppb	0.697	0.14%
QC value within limits for Be 313.107 Recovery = 99.64%						
Ca 317.933Radial†	2806.2	5021.9 ug/L	46.17	5021.9 ppb	46.17	0.92%

QC value within limits for Ca 317.933 Radial Recovery = 100.44%

Cd 226.502†	35904.4	493.47 ug/L	3.877	493.47 ppb	3.877	0.79%
QC value within limits for Cd 226.502 Recovery = 98.69%						
Co 228.616†	16446.5	489.38 ug/L	1.754	489.38 ppb	1.754	0.36%
QC value within limits for Co 228.616 Recovery = 97.88%						
Cr 267.716†	37057.7	494.74 ug/L	3.842	494.74 ppb	3.842	0.78%
QC value within limits for Cr 267.716 Recovery = 98.95%						
Cu 324.752†	133389.1	491.99 ug/L	4.574	491.99 ppb	4.574	0.93%
QC value within limits for Cu 324.752 Recovery = 98.40%						
Fe 238.204 Radial†	479.5	4991.2 ug/L	47.43	4991.2 ppb	47.43	0.95%
QC value within limits for Fe 238.204 Radial Recovery = 99.82%						
K 766.490 Radial†	26804.9	5055.6 ug/L	59.17	5055.6 ppb	59.17	1.17%
QC value within limits for K 766.490 Radial Recovery = 101.11%						
Mg 279.077 IEC†	131.9	5196.5 ug/L	114.09	5196.5 ppb	114.09	2.20%
QC value within limits for Mg 279.077 IEC Recovery = 103.93%						
Mn 257.610†	314785.9	494.83 ug/L	4.330	494.83 ppb	4.330	0.88%
QC value within limits for Mn 257.610 Recovery = 98.97%						
Mo 202.031†	5439.1	492.19 ug/L	1.602	492.19 ppb	1.602	0.33%
QC value within limits for Mo 202.031 Recovery = 98.44%						
Na 589.592 Radial†	30372.1	9241.9 ug/L	116.84	9241.9 ppb	116.84	1.26%
QC value within limits for Na 589.592 Radial Recovery = 92.42%						
Ni 231.604†	16067.5	495.75 ug/L	4.755	495.75 ppb	4.755	0.96%
QC value within limits for Ni 231.604 Recovery = 99.15%						
P 214.914†	4507.8	2349.5 ug/L	8.63	2349.5 ppb	8.63	0.37%
QC value within limits for P 214.914 Recovery = 93.98%						
Pb 220.353†	3086.2	491.72 ug/L	1.857	491.72 ppb	1.857	0.38%
QC value within limits for Pb 220.353 Recovery = 98.34%						
S 181.975 Axial†	783.3	972.12 ug/L	3.686	972.12 ppb	3.686	0.38%
QC value within limits for S 181.975 Axial Recovery = 97.21%						
Sb 206.836†	1228.4	499.17 ug/L	3.005	499.17 ppb	3.005	0.60%
QC value within limits for Sb 206.836 Recovery = 99.83%						
Se 196.026†	820.0	499.99 ug/L	1.531	499.99 ppb	1.531	0.31%
QC value within limits for Se 196.026 Recovery = 100.00%						
Si 251.611†	68782.4	2447.0 ug/L	24.81	2447.0 ppb	24.81	1.01%
QC value within limits for Si 251.611 Recovery = 97.88%						
Sn 189.927†	2128.0	486.93 ug/L	2.631	486.93 ppb	2.631	0.54%
QC value within limits for Sn 189.927 Recovery = 97.39%						
Sr 421.552†	69639.1	496.20 ug/L	5.872	496.20 ppb	5.872	1.18%
QC value within limits for Sr 421.552 Recovery = 99.24%						
Ti 334.940†	248299.2	491.76 ug/L	4.266	491.76 ppb	4.266	0.87%
QC value within limits for Ti 334.940 Recovery = 98.35%						
Tl 190.801†	1086.1	495.74 ug/L	4.765	495.74 ppb	4.765	0.96%
QC value within limits for Tl 190.801 Recovery = 99.15%						
U 409.014†	14728.4	486.69 ug/L	8.391	486.69 ppb	8.391	1.72%
QC value within limits for U 409.014 Recovery = 97.34%						
V 292.402†	63555.6	500.09 ug/L	3.188	500.09 ppb	3.188	0.64%
QC value within limits for V 292.402 Recovery = 100.02%						
Zn 213.857†	45940.1	489.06 ug/L	4.193	489.06 ppb	4.193	0.86%
QC value within limits for Zn 213.857 Recovery = 97.81%						
SiO2†	68421.6	5222.4 ug/L	33.69	5222.4 ppb	33.69	0.65%
QC value within limits for SiO2 Recovery = 97.66%						

All analyte(s) passed QC.

Sequence No.: 48
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/4/2010 23:51:46
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4714.7	4714.7	99.3 %		23:53:39
1	Y RADIAL	5026.1	5026.1	99.72 %		23:53:39
1	Al 396.153Radial†	-76.8	5.2	4.7107 ug/L	4.7107 ppb	23:53:59
1	Ca 317.933Radial†	20.2	2.1	3.7627 ug/L	3.7627 ppb	23:53:59
1	Fe 238.204 Radial†	7.1	-0.1	-1.3926 ug/L	-1.3926 ppb	23:53:59
1	K 766.490 Radial†	2399.7	109.8	20.747 ug/L	20.747 ppb	23:53:39
1	Mg 279.077 IEC†	0.6	-1.5	-58.394 ug/L	-58.394 ppb	23:53:59
1	Na 589.592 Radial†	-853.9	-122.8	-37.378 ug/L	-37.378 ppb	23:53:39
1	Sr 421.552†	38.2	19.6	0.1394 ug/L	0.1394 ppb	23:53:39
1	Sc 361.383	793136.7	793136.7	100.29 %		23:54:55
1	Y 371.029	710797.7	710797.7	100.54 %		23:54:55
1	Ag 328.068†	194.2	17.2	0.0823 ug/L	0.0823 ppb	23:54:55
1	As 188.979†	-27.2	1.5	0.6641 ug/L	0.6641 ppb	23:55:15
1	B 249.677†	-326.8	-101.6	-2.5281 ug/L	-2.5281 ppb	23:55:15
1	Ba 233.527†	14.9	18.9	0.2193 ug/L	0.2193 ppb	23:55:15
1	Be 313.107†	-9298.5	61.3	0.0240 ug/L	0.0240 ppb	23:54:55
1	Cd 226.502†	-176.6	6.5	0.0909 ug/L	0.0909 ppb	23:55:15
1	Co 228.616†	-58.8	5.7	0.1702 ug/L	0.1702 ppb	23:55:15
1	Cr 267.716†	76.9	15.5	0.2048 ug/L	0.2048 ppb	23:55:15
1	Cu 324.752†	7926.6	179.6	0.6601 ug/L	0.6601 ppb	23:54:55
1	Mn 257.610†	456.5	24.7	0.0410 ug/L	0.0410 ppb	23:55:15
1	Mo 202.031†	17.5	5.5	0.4973 ug/L	0.4973 ppb	23:55:15
1	Ni 231.604†	100.1	19.3	0.5951 ug/L	0.5951 ppb	23:55:15
1	P 214.914†	211.7	12.3	6.5363 ug/L	6.5363 ppb	23:55:15
1	Pb 220.353†	-57.0	0.7	0.1169 ug/L	0.1169 ppb	23:55:15
1	S 181.975 Axial†	45.1	3.9	4.8492 ug/L	4.8492 ppb	23:55:15
1	Sb 206.836†	33.7	0.7	0.3001 ug/L	0.3001 ppb	23:55:15
1	Se 196.026†	-26.5	-7.5	-4.4370 ug/L	-4.4370 ppb	23:55:15
1	Si 251.611†	577.4	24.5	0.8685 ug/L	0.8685 ppb	23:55:15
1	Sn 189.927†	12.9	-0.2	-0.0542 ug/L	-0.0542 ppb	23:55:15
1	Ti 334.940†	-1335.9	2.7	0.0088 ug/L	0.0088 ppb	23:54:55
1	Tl 190.801†	-30.1	5.7	2.5741 ug/L	2.5741 ppb	23:55:15
1	U 409.014†	-2246.6	128.6	4.2644 ug/L	4.2644 ppb	23:54:55
1	V 292.402†	-1668.0	-3.8	-0.0151 ug/L	-0.0151 ppb	23:54:55
1	Zn 213.857†	733.0	-66.4	-0.7179 ug/L	-0.7179 ppb	23:55:15
1	SiO2†	653.8	91.5	6.9906 ug/L	6.9906 ppb	23:56:11
2	Sc Radial	4749.6	4749.6	100 %		23:54:04
2	Y RADIAL	5042.8	5042.8	100.1 %		23:54:04
2	Al 396.153Radial†	-79.9	2.6	2.3844 ug/L	2.3844 ppb	23:54:24
2	Ca 317.933Radial†	18.0	-0.2	-0.3864 ug/L	-0.3864 ppb	23:54:24
2	Fe 238.204 Radial†	5.8	-1.5	-15.758 ug/L	-15.758 ppb	23:54:24
2	K 766.490 Radial†	2420.7	113.1	21.369 ug/L	21.369 ppb	23:54:04
2	Mg 279.077 IEC†	2.4	0.3	10.553 ug/L	10.553 ppb	23:54:24
2	Na 589.592 Radial†	-867.6	-130.2	-39.615 ug/L	-39.615 ppb	23:54:04
2	Sr 421.552†	39.3	20.3	0.1448 ug/L	0.1448 ppb	23:54:04
2	Sc 361.383	782255.8	782255.8	98.918 %		23:55:21
2	Y 371.029	701307.8	701307.8	99.196 %		23:55:21
2	Ag 328.068†	140.9	-34.1	-0.1775 ug/L	-0.1775 ppb	23:55:21
2	As 188.979†	-19.8	8.6	3.7362 ug/L	3.7362 ppb	23:55:41
2	B 249.677†	-345.0	-124.6	-3.0965 ug/L	-3.0965 ppb	23:55:41
2	Ba 233.527†	5.1	9.2	0.1041 ug/L	0.1041 ppb	23:55:41
2	Be 313.107†	-9064.3	169.0	0.0662 ug/L	0.0662 ppb	23:55:21
2	Cd 226.502†	-189.6	-9.0	-0.1223 ug/L	-0.1223 ppb	23:55:41
2	Co 228.616†	-45.6	18.3	0.5453 ug/L	0.5453 ppb	23:55:41
2	Cr 267.716†	80.9	20.6	0.2736 ug/L	0.2736 ppb	23:55:41
2	Cu 324.752†	7750.4	111.4	0.4110 ug/L	0.4110 ppb	23:55:21
2	Mn 257.610†	455.7	30.3	0.0456 ug/L	0.0456 ppb	23:55:41
2	Mo 202.031†	20.8	9.0	0.8160 ug/L	0.8160 ppb	23:55:41
2	Ni 231.604†	103.5	24.1	0.7445 ug/L	0.7445 ppb	23:55:41

2	P 214.914†	198.1	1.4	0.6920 ug/L	0.6920 ppb	23:55:41
2	Pb 220.353†	-69.1	-12.3	-1.9520 ug/L	-1.9520 ppb	23:55:41
2	S 181.975 Axial†	34.7	-5.9	-7.3665 ug/L	-7.3665 ppb	23:55:41
2	Sb 206.836†	37.1	4.7	1.8486 ug/L	1.8486 ppb	23:55:41
2	Se 196.026†	-22.5	-3.8	-2.2788 ug/L	-2.2788 ppb	23:55:41
2	Si 251.611†	597.8	53.2	1.8875 ug/L	1.8875 ppb	23:55:41
2	Sn 189.927†	11.6	-1.3	-0.3036 ug/L	-0.3036 ppb	23:55:41
2	Ti 334.940†	-1310.2	10.2	0.0200 ug/L	0.0200 ppb	23:55:21
2	Tl 190.801†	-32.0	3.3	1.5134 ug/L	1.5134 ppb	23:55:41
2	U 409.014†	-2398.8	-56.4	-1.8682 ug/L	-1.8682 ppb	23:55:21
2	V 292.402†	-1739.8	-99.5	-0.7625 ug/L	-0.7625 ppb	23:55:21
2	Zn 213.857†	728.1	-61.3	-0.6612 ug/L	-0.6612 ppb	23:55:41
2	SiO2†	579.9	26.0	1.9639 ug/L	1.9639 ppb	23:56:16
3	Sc Radial	4744.3	4744.3	99.9 %		23:54:29
3	Y RADIAL	5071.5	5071.5	100.6 %		23:54:29
3	Al 396.153Radial†	-78.1	4.3	3.9191 ug/L	3.9191 ppb	23:54:49
3	Ca 317.933Radial†	27.0	8.8	15.709 ug/L	15.709 ppb	23:54:49
3	Fe 238.204 Radial†	6.2	-1.1	-11.128 ug/L	-11.128 ppb	23:54:49
3	K 766.490 Radial†	2444.1	139.2	26.285 ug/L	26.285 ppb	23:54:29
3	Mg 279.077 IEC†	-0.0	-2.2	-85.105 ug/L	-85.105 ppb	23:54:49
3	Na 589.592 Radial†	-851.7	-115.3	-35.074 ug/L	-35.074 ppb	23:54:29
3	Sr 421.552†	-0.3	-19.3	-0.1373 ug/L	-0.1373 ppb	23:54:29
3	Sc 361.383	786505.3	786505.3	99.455 %		23:55:46
3	Y 371.029	705646.0	705646.0	99.810 %		23:55:46
3	Ag 328.068†	238.1	63.0	0.3160 ug/L	0.3160 ppb	23:55:46
3	As 188.979†	-34.9	-6.5	-2.8067 ug/L	-2.8067 ppb	23:56:06
3	B 249.677†	-342.6	-120.3	-2.9899 ug/L	-2.9899 ppb	23:56:06
3	Ba 233.527†	16.8	20.9	0.2425 ug/L	0.2425 ppb	23:56:06
3	Be 313.107†	-9167.8	114.5	0.0449 ug/L	0.0449 ppb	23:55:46
3	Cd 226.502†	-181.2	0.4	0.0065 ug/L	0.0065 ppb	23:56:06
3	Co 228.616†	-51.7	12.3	0.3677 ug/L	0.3677 ppb	23:56:06
3	Cr 267.716†	63.9	3.0	0.0417 ug/L	0.0417 ppb	23:56:06
3	Cu 324.752†	7787.8	106.7	0.3951 ug/L	0.3951 ppb	23:55:46
3	Mn 257.610†	454.7	26.7	0.0444 ug/L	0.0444 ppb	23:56:06
3	Mo 202.031†	13.9	2.0	0.1760 ug/L	0.1760 ppb	23:56:06
3	Ni 231.604†	104.2	24.3	0.7493 ug/L	0.7493 ppb	23:56:06
3	P 214.914†	209.5	11.8	6.3584 ug/L	6.3584 ppb	23:56:06
3	Pb 220.353†	-74.4	-17.3	-2.7424 ug/L	-2.7424 ppb	23:56:06
3	S 181.975 Axial†	45.0	4.2	5.2017 ug/L	5.2017 ppb	23:56:06
3	Sb 206.836†	37.1	4.4	1.7463 ug/L	1.7463 ppb	23:56:06
3	Se 196.026†	-20.9	-2.1	-1.2426 ug/L	-1.2426 ppb	23:56:06
3	Si 251.611†	586.1	38.2	1.3602 ug/L	1.3602 ppb	23:56:06
3	Sn 189.927†	16.2	3.2	0.7392 ug/L	0.7392 ppb	23:56:06
3	Ti 334.940†	-1310.1	17.5	0.0453 ug/L	0.0453 ppb	23:55:46
3	Tl 190.801†	-25.8	9.8	4.4338 ug/L	4.4338 ppb	23:56:06
3	U 409.014†	-2462.6	-107.5	-3.5628 ug/L	-3.5628 ppb	23:55:46
3	V 292.402†	-1637.3	13.1	0.0973 ug/L	0.0973 ppb	23:55:46
3	Zn 213.857†	744.0	-49.2	-0.5323 ug/L	-0.5323 ppb	23:56:06
3	SiO2†	616.5	59.6	4.5527 ug/L	4.5527 ppb	23:56:22

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	787299.3	99.556 %	0.6934			0.70%
Sc Radial	4736.2	99.8 %	0.40			0.40%
Y 371.029	705917.2	99.848 %	0.6720			0.67%
Y RADIAL	5046.8	100.1 %	0.46			0.45%
Ag 328.068†	15.4	0.0736 ug/L	0.24687	0.0736 ppb	0.24687	335.35%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.0	3.6714 ug/L	1.18280	3.6714 ppb	1.18280	32.22%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.2	0.5312 ug/L	3.27344	0.5312 ppb	3.27344	616.22%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-115.5	-2.8715 ug/L	0.30216	-2.8715 ppb	0.30216	10.52%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	16.3	0.1886 ug/L	0.07414	0.1886 ppb	0.07414	39.31%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	114.9	0.0450 ug/L	0.02109	0.0450 ppb	0.02109	46.86%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.6	6.3616 ug/L	8.35630	6.3616 ppb	8.35630	131.35%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-0.7	-0.0083 ug/L	0.10736	-0.0083 ppb	0.10736	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	12.1	0.3611 ug/L	0.18760	0.3611 ppb	0.18760	51.95%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	13.0	0.1733 ug/L	0.11910	0.1733 ppb	0.11910	68.71%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	132.6	0.4888 ug/L	0.14863	0.4888 ppb	0.14863	30.41%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.9	-9.4261 ug/L	7.33230	-9.4261 ppb	7.33230	77.79%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	120.7	22.801 ug/L	3.0340	22.801 ppb	3.0340	13.31%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.1	-44.315 ug/L	49.3586	-44.315 ppb	49.3586	111.38%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	27.2	0.0437 ug/L	0.00237	0.0437 ppb	0.00237	5.43%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.5	0.4964 ug/L	0.31998	0.4964 ppb	0.31998	64.45%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-122.8	-37.356 ug/L	2.2706	-37.356 ppb	2.2706	6.08%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	22.6	0.6963 ug/L	0.08768	0.6963 ppb	0.08768	12.59%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	8.5	4.5289 ug/L	3.32407	4.5289 ppb	3.32407	73.40%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-9.6	-1.5258 ug/L	1.47653	-1.5258 ppb	1.47653	96.77%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.7	0.8948 ug/L	7.15665	0.8948 ppb	7.15665	799.80%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.3	1.2984 ug/L	0.86599	1.2984 ppb	0.86599	66.70%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-4.4	-2.6528 ug/L	1.62973	-2.6528 ppb	1.62973	61.43%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	38.6	1.3721 ug/L	0.50961	1.3721 ppb	0.50961	37.14%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	0.5	0.1271 ug/L	0.54456	0.1271 ppb	0.54456	428.33%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	6.9	0.0490 ug/L	0.16137	0.0490 ppb	0.16137	329.41%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	10.1	0.0247 ug/L	0.01870	0.0247 ppb	0.01870	75.78%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	6.3	2.8404 ug/L	1.47826	2.8404 ppb	1.47826	52.04%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-11.7	-0.3888 ug/L	4.11797	-0.3888 ppb	4.11797	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-30.1	-0.2268 ug/L	0.46739	-0.2268 ppb	0.46739	206.11%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-59.0	-0.6372 ug/L	0.09509	-0.6372 ppb	0.09509	14.92%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	59.0	4.5024 ug/L	2.51376	4.5024 ppb	2.51376	55.83%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 56

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/5/2010 00:47:08

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	4332.8	4332.8	91.3 %		00:48:59
1	Y RADIAL	4577.3	4577.3	90.82 %		00:48:59
1	Al 396.153Radial†	5498.4	6107.7	5570.0 ug/L	5570.0 ppb	00:48:59
1	Ca 317.933Radial†	2791.7	3041.0	5441.9 ug/L	5441.9 ppb	00:49:19
1	Fe 238.204 Radial†	481.1	520.0	5410.4 ug/L	5410.4 ppb	00:49:19
1	K 766.490 Radial†	29668.9	30204.7	5697.1 ug/L	5697.1 ppb	00:48:59
1	Mg 279.077 IEC†	132.2	142.8	5626.1 ug/L	5626.1 ppb	00:49:19
1	Na 589.592 Radial†	29737.3	33323.4	10140 ug/L	10140 ppb	00:48:59
1	Sr 421.552†	70318.9	77037.1	548.91 ug/L	548.91 ppb	00:48:59
1	Sc 361.383	849425.7	849425.7	107.41 %		00:50:17
1	Y 371.029	751651.2	751651.2	106.32 %		00:50:17
1	Ag 328.068†	103166.6	95871.2	484.72 ug/L	484.72 ppb	00:50:22
1	As 188.979†	1131.8	1082.3	474.81 ug/L	474.81 ppb	00:50:42
1	B 249.677†	20413.1	19228.8	475.99 ug/L	475.99 ppb	00:50:22
1	Ba 233.527†	44888.9	41795.4	485.92 ug/L	485.92 ppb	00:50:22
1	Be 313.107†	1281018.5	1201955.8	471.35 ug/L	471.35 ppb	00:50:17
1	Cd 226.502†	37736.6	35315.3	485.33 ug/L	485.33 ppb	00:50:22
1	Co 228.616†	16616.9	15534.6	462.20 ug/L	462.20 ppb	00:50:42
1	Cr 267.716†	39235.2	36466.6	486.86 ug/L	486.86 ppb	00:50:22
1	Cu 324.752†	148807.2	130815.2	482.52 ug/L	482.52 ppb	00:50:22
1	Mn 257.610†	331960.9	308623.8	485.17 ug/L	485.17 ppb	00:50:22
1	Mo 202.031†	5537.0	5143.0	465.46 ug/L	465.46 ppb	00:50:42
1	Ni 231.604†	17003.0	15749.2	485.95 ug/L	485.95 ppb	00:50:22
1	P 214.914†	4784.5	4255.5	2214.0 ug/L	2214.0 ppb	00:50:42
1	Pb 220.353†	3092.5	2936.6	468.03 ug/L	468.03 ppb	00:50:42
1	S 181.975 Axial†	839.1	740.2	918.41 ug/L	918.41 ppb	00:50:42
1	Sb 206.836†	1276.6	1155.7	469.69 ug/L	469.69 ppb	00:50:42
1	Se 196.026†	808.9	772.1	472.45 ug/L	472.45 ppb	00:50:42
1	Si 251.611†	73190.3	67588.8	2404.7 ug/L	2404.7 ppb	00:50:22
1	Sn 189.927†	2178.3	2014.9	461.13 ug/L	461.13 ppb	00:50:42
1	Ti 334.940†	260558.8	243914.0	483.10 ug/L	483.10 ppb	00:50:22
1	Tl 190.801†	1068.1	1030.1	470.37 ug/L	470.37 ppb	00:50:42
1	U 409.014†	13096.4	14561.4	481.12 ug/L	481.12 ppb	00:50:22
1	V 292.402†	65348.6	62498.6	491.46 ug/L	491.46 ppb	00:50:22
1	Zn 213.857†	49390.3	45184.9	480.96 ug/L	480.96 ppb	00:50:22
1	SiO2†	70602.0	65169.8	4974.3 ug/L	4974.3 ppb	00:51:49
2	Sc Radial	4334.7	4334.7	91.3 %		00:49:24
2	Y RADIAL	4558.1	4558.1	90.43 %		00:49:24
2	Al 396.153Radial†	5404.2	6001.8	5471.9 ug/L	5471.9 ppb	00:49:24
2	Ca 317.933Radial†	2791.0	3038.8	5438.0 ug/L	5438.0 ppb	00:49:44
2	Fe 238.204 Radial†	481.8	520.4	5415.9 ug/L	5415.9 ppb	00:49:44
2	K 766.490 Radial†	29032.4	29493.1	5562.8 ug/L	5562.8 ppb	00:49:24
2	Mg 279.077 IEC†	132.9	143.5	5653.0 ug/L	5653.0 ppb	00:49:44
2	Na 589.592 Radial†	28939.6	32435.3	9869.7 ug/L	9869.7 ppb	00:49:24
2	Sr 421.552†	68445.8	74951.5	534.05 ug/L	534.05 ppb	00:49:24
2	Sc 361.383	808796.2	808796.2	102.27 %		00:50:47
2	Y 371.029	714914.9	714914.9	101.12 %		00:50:47
2	Ag 328.068†	99617.7	97226.2	491.55 ug/L	491.55 ppb	00:50:53
2	As 188.979†	1122.4	1126.1	493.82 ug/L	493.82 ppb	00:51:13
2	B 249.677†	19652.3	19439.6	481.16 ug/L	481.16 ppb	00:50:53
2	Ba 233.527†	43344.6	42384.8	492.76 ug/L	492.76 ppb	00:50:53
2	Be 313.107†	1294035.0	1274593.7	499.78 ug/L	499.78 ppb	00:50:47
2	Cd 226.502†	36542.3	35912.4	493.54 ug/L	493.54 ppb	00:50:53
2	Co 228.616†	16674.4	16367.9	487.03 ug/L	487.03 ppb	00:51:13
2	Cr 267.716†	38008.4	37102.0	495.34 ug/L	495.34 ppb	00:50:53
2	Cu 324.752†	142858.3	131958.0	486.73 ug/L	486.73 ppb	00:50:53
2	Mn 257.610†	321012.4	313444.0	492.74 ug/L	492.74 ppb	00:50:53
2	Mo 202.031†	5537.2	5402.1	488.89 ug/L	488.89 ppb	00:51:13
2	Ni 231.604†	16476.4	16029.5	494.59 ug/L	494.59 ppb	00:50:53

2	P 214.914†	4793.3	4487.9	2339.5 ug/L	2339.5 ppb	00:51:13
2	Pb 220.353†	3096.1	3084.7	491.58 ug/L	491.58 ppb	00:51:13
2	S 181.975 Axial†	844.3	784.5	973.46 ug/L	973.46 ppb	00:51:13
2	Sb 206.836†	1289.2	1227.6	498.76 ug/L	498.76 ppb	00:51:13
2	Se 196.026†	814.2	815.1	498.04 ug/L	498.04 ppb	00:51:13
2	Si 251.611†	70633.2	68511.4	2437.3 ug/L	2437.3 ppb	00:50:53
2	Sn 189.927†	2177.4	2115.9	484.23 ug/L	484.23 ppb	00:51:13
2	Ti 334.940†	251033.3	246786.1	488.79 ug/L	488.79 ppb	00:50:53
2	Tl 190.801†	1070.7	1082.6	494.13 ug/L	494.13 ppb	00:51:13
2	U 409.014†	12429.2	14521.4	479.78 ug/L	479.78 ppb	00:50:53
2	V 292.402†	63014.0	63272.2	497.78 ug/L	497.78 ppb	00:50:53
2	Zn 213.857†	47701.5	45843.5	487.97 ug/L	487.97 ppb	00:50:53
2	SiO2†	70160.8	68040.3	5193.3 ug/L	5193.3 ppb	00:51:54
3	Sc Radial	4751.8	4751.8	100 %		00:49:50
3	Y RADIAL	5027.8	5027.8	99.75 %		00:49:50
3	Al 396.153Radial†	5342.3	5420.4	4939.3 ug/L	4939.3 ppb	00:49:50
3	Ca 317.933Radial†	2792.6	2772.1	4960.7 ug/L	4960.7 ppb	00:50:10
3	Fe 238.204 Radial†	478.2	470.5	4898.0 ug/L	4898.0 ppb	00:50:10
3	K 766.490 Radial†	28978.7	26648.4	5026.1 ug/L	5026.1 ppb	00:49:50
3	Mg 279.077 IEC†	130.5	128.3	5056.7 ug/L	5056.7 ppb	00:50:10
3	Na 589.592 Radial†	28661.3	29375.1	8938.5 ug/L	8938.5 ppb	00:49:50
3	Sr 421.552†	68173.1	68098.8	485.22 ug/L	485.22 ppb	00:49:50
3	Sc 361.383	798681.6	798681.6	101.00 %		00:51:18
3	Y 371.029	706121.7	706121.7	99.877 %		00:51:18
3	Ag 328.068†	99266.8	98112.3	495.85 ug/L	495.85 ppb	00:51:23
3	As 188.979†	1121.8	1139.4	499.49 ug/L	499.49 ppb	00:51:43
3	B 249.677†	19603.1	19634.2	486.07 ug/L	486.07 ppb	00:51:23
3	Ba 233.527†	42977.1	42557.6	494.76 ug/L	494.76 ppb	00:51:23
3	Be 313.107†	1275206.3	1271974.1	498.76 ug/L	498.76 ppb	00:51:18
3	Cd 226.502†	36046.3	35873.7	493.06 ug/L	493.06 ppb	00:51:23
3	Co 228.616†	16595.6	16496.4	490.87 ug/L	490.87 ppb	00:51:43
3	Cr 267.716†	37523.7	37092.8	495.20 ug/L	495.20 ppb	00:51:23
3	Cu 324.752†	141870.6	132749.0	489.62 ug/L	489.62 ppb	00:51:23
3	Mn 257.610†	317894.0	314331.3	494.11 ug/L	494.11 ppb	00:51:23
3	Mo 202.031†	5529.6	5463.1	494.36 ug/L	494.36 ppb	00:51:43
3	Ni 231.604†	16327.7	16086.3	496.34 ug/L	496.34 ppb	00:51:23
3	P 214.914†	4781.9	4536.0	2365.3 ug/L	2365.3 ppb	00:51:43
3	Pb 220.353†	3081.4	3108.5	495.27 ug/L	495.27 ppb	00:51:43
3	S 181.975 Axial†	834.9	785.7	975.01 ug/L	975.01 ppb	00:51:43
3	Sb 206.836†	1282.7	1237.2	502.73 ug/L	502.73 ppb	00:51:43
3	Se 196.026†	811.2	822.2	501.08 ug/L	501.08 ppb	00:51:43
3	Si 251.611†	70003.8	68762.9	2446.2 ug/L	2446.2 ppb	00:51:23
3	Sn 189.927†	2177.9	2143.4	490.45 ug/L	490.45 ppb	00:51:43
3	Ti 334.940†	249058.1	247938.9	491.05 ug/L	491.05 ppb	00:51:23
3	Tl 190.801†	1069.6	1094.7	499.64 ug/L	499.64 ppb	00:51:43
3	U 409.014†	12475.5	14721.2	486.46 ug/L	486.46 ppb	00:51:23
3	V 292.402†	62429.6	63473.8	499.50 ug/L	499.50 ppb	00:51:23
3	Zn 213.857†	47193.5	45931.2	488.98 ug/L	488.98 ppb	00:51:23
3	SiO2†	70536.8	69281.4	5288.2 ug/L	5288.2 ppb	00:51:59

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	818967.8	103.56 %	3.396			3.28%
Sc Radial	4473.1	94.2 %	5.08			5.40%
Y 371.029	724229.3	102.44 %	3.416			3.33%
Y RADIAL	4721.0	93.67 %	5.274			5.63%
Ag 328.068†	97069.9	490.71 ug/L	5.614	490.71 ppb	5.614	1.14%
QC value within limits for Ag 328.068 Recovery = 98.14%						
Al 396.153Radial†	5843.3	5327.1 ug/L	339.38	5327.1 ppb	339.38	6.37%
QC value within limits for Al 396.153Radial Recovery = 106.54%						
As 188.979†	1115.9	489.38 ug/L	12.925	489.38 ppb	12.925	2.64%
QC value within limits for As 188.979 Recovery = 97.88%						
B 249.677†	19434.2	481.08 ug/L	5.042	481.08 ppb	5.042	1.05%
QC value within limits for B 249.677 Recovery = 96.22%						
Ba 233.527†	42245.9	491.15 ug/L	4.637	491.15 ppb	4.637	0.94%
QC value within limits for Ba 233.527 Recovery = 98.23%						
Be 313.107†	1249507.8	489.96 ug/L	16.129	489.96 ppb	16.129	3.29%
QC value within limits for Be 313.107 Recovery = 97.99%						
Ca 317.933Radial†	2950.6	5280.2 ug/L	276.66	5280.2 ppb	276.66	5.24%

QC value within limits for Ca 317.933 Radial Recovery = 105.60%

Cd	226.502†	35700.5	490.64 ug/L	4.611	490.64 ppb	4.611	0.94%
QC value within limits for Cd 226.502 Recovery = 98.13%							
Co	228.616†	16133.0	480.03 ug/L	15.566	480.03 ppb	15.566	3.24%
QC value within limits for Co 228.616 Recovery = 96.01%							
Cr	267.716†	36887.1	492.47 ug/L	4.859	492.47 ppb	4.859	0.99%
QC value within limits for Cr 267.716 Recovery = 98.49%							
Cu	324.752†	131840.7	486.29 ug/L	3.572	486.29 ppb	3.572	0.73%
QC value within limits for Cu 324.752 Recovery = 97.26%							
Fe	238.204 Radial†	503.6	5241.4 ug/L	297.46	5241.4 ppb	297.46	5.68%
QC value within limits for Fe 238.204 Radial Recovery = 104.83%							
K	766.490 Radial†	28782.1	5428.7 ug/L	355.01	5428.7 ppb	355.01	6.54%
QC value within limits for K 766.490 Radial Recovery = 108.57%							
Mg	279.077 IEC†	138.2	5445.3 ug/L	336.79	5445.3 ppb	336.79	6.18%
QC value within limits for Mg 279.077 IEC Recovery = 108.91%							
Mn	257.610†	312133.0	490.67 ug/L	4.815	490.67 ppb	4.815	0.98%
QC value within limits for Mn 257.610 Recovery = 98.13%							
Mo	202.031†	5336.1	482.90 ug/L	15.352	482.90 ppb	15.352	3.18%
QC value within limits for Mo 202.031 Recovery = 96.58%							
Na	589.592 Radial†	31711.3	9649.4 ug/L	630.28	9649.4 ppb	630.28	6.53%
QC value within limits for Na 589.592 Radial Recovery = 96.49%							
Ni	231.604†	15955.0	492.29 ug/L	5.563	492.29 ppb	5.563	1.13%
QC value within limits for Ni 231.604 Recovery = 98.46%							
P	214.914†	4426.4	2306.3 ug/L	80.91	2306.3 ppb	80.91	3.51%
QC value within limits for P 214.914 Recovery = 92.25%							
Pb	220.353†	3043.3	484.96 ug/L	14.776	484.96 ppb	14.776	3.05%
QC value within limits for Pb 220.353 Recovery = 96.99%							
S	181.975 Axial†	770.1	955.63 ug/L	32.244	955.63 ppb	32.244	3.37%
QC value within limits for S 181.975 Axial Recovery = 95.56%							
Sb	206.836†	1206.8	490.39 ug/L	18.037	490.39 ppb	18.037	3.68%
QC value within limits for Sb 206.836 Recovery = 98.08%							
Se	196.026†	803.1	490.52 ug/L	15.727	490.52 ppb	15.727	3.21%
QC value within limits for Se 196.026 Recovery = 98.10%							
Si	251.611†	68287.7	2429.4 ug/L	21.86	2429.4 ppb	21.86	0.90%
QC value within limits for Si 251.611 Recovery = 97.18%							
Sn	189.927†	2091.4	478.60 ug/L	15.448	478.60 ppb	15.448	3.23%
QC value within limits for Sn 189.927 Recovery = 95.72%							
Sr	421.552†	73362.5	522.73 ug/L	33.320	522.73 ppb	33.320	6.37%
QC value within limits for Sr 421.552 Recovery = 104.55%							
Ti	334.940†	246213.0	487.65 ug/L	4.096	487.65 ppb	4.096	0.84%
QC value within limits for Ti 334.940 Recovery = 97.53%							
Tl	190.801†	1069.1	488.05 ug/L	15.557	488.05 ppb	15.557	3.19%
QC value within limits for Tl 190.801 Recovery = 97.61%							
U	409.014†	14601.3	482.46 ug/L	3.536	482.46 ppb	3.536	0.73%
QC value within limits for U 409.014 Recovery = 96.49%							
V	292.402†	63081.5	496.25 ug/L	4.236	496.25 ppb	4.236	0.85%
QC value within limits for V 292.402 Recovery = 99.25%							
Zn	213.857†	45653.2	485.97 ug/L	4.369	485.97 ppb	4.369	0.90%
QC value within limits for Zn 213.857 Recovery = 97.19%							
SiO2†		67497.2	5151.9 ug/L	160.97	5151.9 ppb	160.97	3.12%
QC value within limits for SiO2 Recovery = 96.34%							

All analyte(s) passed QC.

Sequence No.: 57

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/5/2010 00:54:09

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	5372.7	5372.7	113 %		00:56:01
1	Y RADIAL	5689.2	5689.2	112.9 %		00:56:01
1	Al 396.153Radial†	-81.8	10.2	9.3195 ug/L	9.3195 ppb	00:56:21
1	Ca 317.933Radial†	24.1	3.0	5.3714 ug/L	5.3714 ppb	00:56:21
1	Fe 238.204 Radial†	7.6	-0.5	-5.3495 ug/L	-5.3495 ppb	00:56:21
1	K 766.490 Radial†	2657.7	41.9	7.9020 ug/L	7.9020 ppb	00:56:01
1	Mg 279.077 IEC†	1.5	-0.8	-31.864 ug/L	-31.864 ppb	00:56:21
1	Na 589.592 Radial†	-818.6	13.7	4.1615 ug/L	4.1615 ppb	00:56:01
1	Sr 421.552†	43.2	19.3	0.1371 ug/L	0.1371 ppb	00:56:01
1	Sc 361.383	794658.3	794658.3	100.49 %		00:57:18
1	Y 371.029	714447.6	714447.6	101.05 %		00:57:18
1	Ag 328.068†	194.5	17.1	0.0865 ug/L	0.0865 ppb	00:57:18
1	As 188.979†	-32.1	-3.3	-1.4381 ug/L	-1.4381 ppb	00:57:38
1	B 249.677†	-209.1	16.1	0.4009 ug/L	0.4009 ppb	00:57:38
1	Ba 233.527†	13.9	17.8	0.2068 ug/L	0.2068 ppb	00:57:38
1	Be 313.107†	-9047.8	328.5	0.1288 ug/L	0.1288 ppb	00:57:18
1	Cd 226.502†	-168.9	14.6	0.2008 ug/L	0.2008 ppb	00:57:38
1	Co 228.616†	-58.0	6.7	0.1985 ug/L	0.1985 ppb	00:57:38
1	Cr 267.716†	87.1	25.5	0.3408 ug/L	0.3408 ppb	00:57:38
1	Cu 324.752†	7804.7	43.2	0.1601 ug/L	0.1601 ppb	00:57:18
1	Mn 257.610†	470.3	37.6	0.0598 ug/L	0.0598 ppb	00:57:38
1	Mo 202.031†	16.1	4.1	0.3695 ug/L	0.3695 ppb	00:57:38
1	Ni 231.604†	98.2	17.3	0.5330 ug/L	0.5330 ppb	00:57:38
1	P 214.914†	198.4	-1.4	-0.7686 ug/L	-0.7686 ppb	00:57:38
1	Pb 220.353†	-55.2	2.6	0.4154 ug/L	0.4154 ppb	00:57:38
1	S 181.975 Axial†	47.7	6.5	8.0174 ug/L	8.0174 ppb	00:57:38
1	Sb 206.836†	33.7	0.7	0.2562 ug/L	0.2562 ppb	00:57:38
1	Se 196.026†	-21.9	-2.8	-1.6959 ug/L	-1.6959 ppb	00:57:38
1	Si 251.611†	674.3	119.9	4.2698 ug/L	4.2698 ppb	00:57:38
1	Sn 189.927†	10.3	-2.8	-0.6385 ug/L	-0.6385 ppb	00:57:38
1	Ti 334.940†	-1282.8	58.1	0.1192 ug/L	0.1192 ppb	00:57:18
1	Tl 190.801†	-26.8	9.1	4.1038 ug/L	4.1038 ppb	00:57:38
1	U 409.014†	-2436.5	-56.0	-1.8586 ug/L	-1.8586 ppb	00:57:18
1	V 292.402†	-1643.7	23.6	0.1847 ug/L	0.1847 ppb	00:57:18
1	Zn 213.857†	781.6	-19.5	-0.2119 ug/L	-0.2119 ppb	00:57:38
1	SiO2†	687.1	123.4	9.4329 ug/L	9.4329 ppb	00:58:34
2	Sc Radial	4666.0	4666.0	98.3 %		00:56:26
2	Y RADIAL	4969.0	4969.0	98.59 %		00:56:26
2	Al 396.153Radial†	-72.4	8.8	8.0482 ug/L	8.0482 ppb	00:56:46
2	Ca 317.933Radial†	22.8	5.0	8.8989 ug/L	8.8989 ppb	00:56:46
2	Fe 238.204 Radial†	5.1	-2.1	-21.460 ug/L	-21.460 ppb	00:56:46
2	K 766.490 Radial†	2531.2	268.9	50.785 ug/L	50.785 ppb	00:56:26
2	Mg 279.077 IEC†	1.2	-0.9	-33.685 ug/L	-33.685 ppb	00:56:46
2	Na 589.592 Radial†	-867.2	-145.3	-44.225 ug/L	-44.225 ppb	00:56:26
2	Sr 421.552†	5.6	-13.3	-0.0947 ug/L	-0.0947 ppb	00:56:26
2	Sc 361.383	783518.8	783518.8	99.078 %		00:57:43
2	Y 371.029	703439.0	703439.0	99.498 %		00:57:43
2	Ag 328.068†	310.6	137.1	0.6886 ug/L	0.6886 ppb	00:57:43
2	As 188.979†	-20.3	8.1	3.5228 ug/L	3.5228 ppb	00:58:03
2	B 249.677†	-178.4	44.2	1.1022 ug/L	1.1022 ppb	00:58:03
2	Ba 233.527†	12.5	16.6	0.1925 ug/L	0.1925 ppb	00:58:03
2	Be 313.107†	-8925.6	323.8	0.1268 ug/L	0.1268 ppb	00:57:43
2	Cd 226.502†	-186.4	-5.6	-0.0753 ug/L	-0.0753 ppb	00:58:03
2	Co 228.616†	-62.0	1.8	0.0559 ug/L	0.0559 ppb	00:58:03
2	Cr 267.716†	66.2	5.6	0.0780 ug/L	0.0780 ppb	00:58:03
2	Cu 324.752†	7636.7	-15.9	-0.0557 ug/L	-0.0557 ppb	00:57:43
2	Mn 257.610†	509.1	83.4	0.1303 ug/L	0.1303 ppb	00:58:03
2	Mo 202.031†	22.1	10.3	0.9301 ug/L	0.9301 ppb	00:58:03
2	Ni 231.604†	98.3	18.7	0.5772 ug/L	0.5772 ppb	00:58:03

2	P 214.914†	204.1	7.2	3.9445 ug/L	3.9445 ppb	00:58:03
2	Pb 220.353†	-60.9	-4.0	-0.6291 ug/L	-0.6291 ppb	00:58:03
2	S 181.975 Axial†	44.6	4.0	4.9647 ug/L	4.9647 ppb	00:58:03
2	Sb 206.836†	40.3	7.8	3.1009 ug/L	3.1009 ppb	00:58:03
2	Se 196.026†	-23.2	-4.5	-2.7134 ug/L	-2.7134 ppb	00:58:03
2	Si 251.611†	693.9	149.2	5.3093 ug/L	5.3093 ppb	00:58:03
2	Sn 189.927†	15.3	2.4	0.5490 ug/L	0.5490 ppb	00:58:03
2	Ti 334.940†	-1301.4	21.2	0.0492 ug/L	0.0492 ppb	00:57:43
2	Tl 190.801†	-33.7	1.7	0.7840 ug/L	0.7840 ppb	00:58:03
2	U 409.014†	-2573.4	-228.7	-7.5809 ug/L	-7.5809 ppb	00:57:43
2	V 292.402†	-1623.7	20.5	0.1604 ug/L	0.1604 ppb	00:57:43
2	Zn 213.857†	777.6	-12.4	-0.1341 ug/L	-0.1341 ppb	00:58:03
2	SiO2†	693.7	139.8	10.674 ug/L	10.674 ppb	00:58:39
3	Sc Radial	4766.8	4766.8	100 %		00:56:51
3	Y RADIAL	5054.3	5054.3	100.3 %		00:56:51
3	Al 396.153Radial†	-72.4	10.4	9.5007 ug/L	9.5007 ppb	00:57:11
3	Ca 317.933Radial†	21.1	2.7	4.8676 ug/L	4.8676 ppb	00:57:11
3	Fe 238.204 Radial†	8.1	0.8	8.2300 ug/L	8.2300 ppb	00:57:11
3	K 766.490 Radial†	2702.1	384.7	72.659 ug/L	72.659 ppb	00:56:51
3	Mg 279.077 IEC†	0.4	-1.7	-68.200 ug/L	-68.200 ppb	00:57:11
3	Na 589.592 Radial†	-939.0	-198.2	-60.313 ug/L	-60.313 ppb	00:56:51
3	Sr 421.552†	28.3	9.3	0.0659 ug/L	0.0659 ppb	00:56:51
3	Sc 361.383	790041.0	790041.0	99.902 %		00:58:09
3	Y 371.029	709066.5	709066.5	100.29 %		00:58:09
3	Ag 328.068†	163.4	-12.9	-0.0577 ug/L	-0.0577 ppb	00:58:09
3	As 188.979†	-36.4	-7.8	-3.4091 ug/L	-3.4091 ppb	00:58:29
3	B 249.677†	-222.8	1.2	0.0275 ug/L	0.0275 ppb	00:58:29
3	Ba 233.527†	-6.1	-2.1	-0.0241 ug/L	-0.0241 ppb	00:58:29
3	Be 313.107†	-9146.8	176.8	0.0696 ug/L	0.0696 ppb	00:58:09
3	Cd 226.502†	-184.3	-1.9	-0.0269 ug/L	-0.0269 ppb	00:58:29
3	Co 228.616†	-52.4	11.9	0.3530 ug/L	0.3530 ppb	00:58:29
3	Cr 267.716†	85.5	24.3	0.3265 ug/L	0.3265 ppb	00:58:29
3	Cu 324.752†	7725.3	9.1	0.0365 ug/L	0.0365 ppb	00:58:09
3	Mn 257.610†	475.4	45.4	0.0750 ug/L	0.0750 ppb	00:58:29
3	Mo 202.031†	13.8	1.8	0.1621 ug/L	0.1621 ppb	00:58:29
3	Ni 231.604†	96.2	15.8	0.4887 ug/L	0.4887 ppb	00:58:29
3	P 214.914†	217.8	19.2	10.395 ug/L	10.395 ppb	00:58:29
3	Pb 220.353†	-69.9	-12.4	-1.9703 ug/L	-1.9703 ppb	00:58:29
3	S 181.975 Axial†	40.1	-0.9	-1.1660 ug/L	-1.1660 ppb	00:58:29
3	Sb 206.836†	37.2	4.3	1.6929 ug/L	1.6929 ppb	00:58:29
3	Se 196.026†	-21.2	-2.2	-1.3105 ug/L	-1.3105 ppb	00:58:29
3	Si 251.611†	693.3	142.8	5.0905 ug/L	5.0905 ppb	00:58:29
3	Sn 189.927†	11.6	-1.5	-0.3349 ug/L	-0.3349 ppb	00:58:29
3	Ti 334.940†	-1235.1	98.4	0.2031 ug/L	0.2031 ppb	00:58:09
3	Tl 190.801†	-28.8	6.9	3.1122 ug/L	3.1122 ppb	00:58:29
3	U 409.014†	-2502.3	-136.2	-4.5171 ug/L	-4.5171 ppb	00:58:09
3	V 292.402†	-1634.3	23.4	0.1727 ug/L	0.1727 ppb	00:58:09
3	Zn 213.857†	775.7	-20.8	-0.2279 ug/L	-0.2279 ppb	00:58:29
3	SiO2†	690.3	130.7	9.9961 ug/L	9.9961 ppb	00:58:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	789406.0	99.822 %	0.7077			0.71%
Sc Radial	4935.2	104 %	8.1			7.74%
Y 371.029	708984.4	100.28 %	0.779			0.78%
Y RADIAL	5237.5	103.9 %	7.81			7.51%
Ag 328.068†	47.1	0.2391 ug/L	0.39587	0.2391 ppb	0.39587	165.54%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.8	8.9561 ug/L	0.79153	8.9561 ppb	0.79153	8.84%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.0	-0.4415 ug/L	3.57178	-0.4415 ppb	3.57178	809.09%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	20.5	0.5102 ug/L	0.54564	0.5102 ppb	0.54564	106.95%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.8	0.1251 ug/L	0.12935	0.1251 ppb	0.12935	103.42%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	276.4	0.1084 ug/L	0.03359	0.1084 ppb	0.03359	30.99%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.6	6.3793 ug/L	2.19654	6.3793 ppb	2.19654	34.43%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	2.4	0.0329 ug/L	0.14743	0.0329 ppb	0.14743	448.70%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	6.8	0.2025 ug/L	0.14857	0.2025 ppb	0.14857	73.38%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	18.5	0.2484 ug/L	0.14779	0.2484 ppb	0.14779	59.49%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	12.1	0.0469 ug/L	0.10829	0.0469 ppb	0.10829	230.67%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.6	-6.1930 ug/L	14.86278	-6.1930 ppb	14.86278	239.99%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	231.8	43.782 ug/L	32.9414	43.782 ppb	32.9414	75.24%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.1	-44.583 ug/L	20.4731	-44.583 ppb	20.4731	45.92%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	55.5	0.0884 ug/L	0.03712	0.0884 ppb	0.03712	42.01%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	5.4	0.4872 ug/L	0.39731	0.4872 ppb	0.39731	81.54%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-110.0	-33.459 ug/L	33.5586	-33.459 ppb	33.5586	100.30%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	17.3	0.5330 ug/L	0.04425	0.5330 ppb	0.04425	8.30%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	8.3	4.5237 ug/L	5.60439	4.5237 ppb	5.60439	123.89%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-4.6	-0.7280 ug/L	1.19594	-0.7280 ppb	1.19594	164.28%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.2	3.9387 ug/L	4.67690	3.9387 ppb	4.67690	118.74%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.3	1.6833 ug/L	1.42233	1.6833 ppb	1.42233	84.49%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.2	-1.9066 ug/L	0.72483	-1.9066 ppb	0.72483	38.02%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	137.3	4.8899 ug/L	0.54802	4.8899 ppb	0.54802	11.21%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.6	-0.1415 ug/L	0.61693	-0.1415 ppb	0.61693	436.10%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	5.1	0.0361 ug/L	0.11878	0.0361 ppb	0.11878	329.01%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	59.3	0.1238 ug/L	0.07701	0.1238 ppb	0.07701	62.19%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.9	2.6667 ug/L	1.70414	2.6667 ppb	1.70414	63.90%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-140.3	-4.6522 ug/L	2.86354	-4.6522 ppb	2.86354	61.55%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	22.5	0.1726 ug/L	0.01215	0.1726 ppb	0.01215	7.04%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-17.6	-0.1913 ug/L	0.05020	-0.1913 ppb	0.05020	26.24%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	131.3	10.035 ug/L	0.6217	10.035 ppb	0.6217	6.20%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 62

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/5/2010 01:29:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4759.6	4759.6	100 %		01:30:59
1	Y RADIAL	5017.4	5017.4	99.55 %		01:30:59
1	Al 396.153Radial†	5477.8	5546.8	5054.7 ug/L	5054.7 ppb	01:30:59
1	Ca 317.933Radial†	2822.2	2797.0	5005.3 ug/L	5005.3 ppb	01:31:19
1	Fe 238.204 Radial†	484.4	476.0	4955.2 ug/L	4955.2 ppb	01:31:19
1	K 766.490 Radial†	29854.6	27474.6	5181.9 ug/L	5181.9 ppb	01:30:59
1	Mg 279.077 IEC†	135.0	132.5	5221.8 ug/L	5221.8 ppb	01:31:19
1	Na 589.592 Radial†	30155.8	30818.8	9377.8 ug/L	9377.8 ppb	01:30:59
1	Sr 421.552†	70887.0	70693.9	503.72 ug/L	503.72 ppb	01:30:59
1	Sc 361.383	802133.5	802133.5	101.43 %		01:32:16
1	Y 371.029	709408.0	709408.0	100.34 %		01:32:16
1	Ag 328.068†	100927.4	99326.5	501.99 ug/L	501.99 ppb	01:32:21
1	As 188.979†	1146.9	1159.3	508.19 ug/L	508.19 ppb	01:32:41
1	B 249.677†	19688.8	19635.1	486.03 ug/L	486.03 ppb	01:32:21
1	Ba 233.527†	43782.2	43168.3	501.85 ug/L	501.85 ppb	01:32:21
1	Be 313.107†	1299248.8	1290243.5	505.92 ug/L	505.92 ppb	01:32:16
1	Cd 226.502†	36794.6	36457.9	501.09 ug/L	501.09 ppb	01:32:21
1	Co 228.616†	17329.5	17149.3	510.30 ug/L	510.30 ppb	01:32:21
1	Cr 267.716†	38278.8	37677.3	503.01 ug/L	503.01 ppb	01:32:21
1	Cu 324.752†	144317.9	134557.3	496.29 ug/L	496.29 ppb	01:32:21
1	Mn 257.610†	323534.5	318537.6	500.72 ug/L	500.72 ppb	01:32:21
1	Mo 202.031†	5635.6	5544.0	501.68 ug/L	501.68 ppb	01:32:41
1	Ni 231.604†	16602.1	16287.3	502.53 ug/L	502.53 ppb	01:32:21
1	P 214.914†	4869.9	4602.4	2400.0 ug/L	2400.0 ppb	01:32:41
1	Pb 220.353†	3151.7	3164.7	504.23 ug/L	504.23 ppb	01:32:41
1	S 181.975 Axial†	850.6	797.5	989.72 ug/L	989.72 ppb	01:32:41
1	Sb 206.836†	1288.8	1237.8	503.22 ug/L	503.22 ppb	01:32:41
1	Se 196.026†	823.2	830.5	506.17 ug/L	506.17 ppb	01:32:41
1	Si 251.611†	71216.2	69659.9	2478.1 ug/L	2478.1 ppb	01:32:21
1	Sn 189.927†	2216.0	2171.7	496.92 ug/L	496.92 ppb	01:32:41
1	Ti 334.940†	253349.4	251108.4	497.32 ug/L	497.32 ppb	01:32:21
1	Tl 190.801†	1092.2	1112.5	507.68 ug/L	507.68 ppb	01:32:41
1	U 409.014†	12724.9	14913.9	492.83 ug/L	492.83 ppb	01:32:21
1	V 292.402†	63621.1	64382.5	506.66 ug/L	506.66 ppb	01:32:21
1	Zn 213.857†	48378.7	46898.6	499.32 ug/L	499.32 ppb	01:32:21
1	SiO2†	71296.4	69729.8	5322.3 ug/L	5322.3 ppb	01:33:48
2	Sc Radial	4671.2	4671.2	98.4 %		01:31:24
2	Y RADIAL	4941.0	4941.0	98.03 %		01:31:24
2	Al 396.153Radial†	5360.3	5530.8	5039.9 ug/L	5039.9 ppb	01:31:24
2	Ca 317.933Radial†	2843.3	2871.7	5139.0 ug/L	5139.0 ppb	01:31:44
2	Fe 238.204 Radial†	491.2	492.0	5121.6 ug/L	5121.6 ppb	01:31:44
2	K 766.490 Radial†	29348.7	27523.8	5191.2 ug/L	5191.2 ppb	01:31:24
2	Mg 279.077 IEC†	132.3	132.3	5214.1 ug/L	5214.1 ppb	01:31:44
2	Na 589.592 Radial†	29352.9	30571.9	9302.6 ug/L	9302.6 ppb	01:31:24
2	Sr 421.552†	68965.0	70078.2	499.33 ug/L	499.33 ppb	01:31:24
2	Sc 361.383	795604.3	795604.3	100.61 %		01:32:47
2	Y 371.029	704741.1	704741.1	99.682 %		01:32:47
2	Ag 328.068†	101283.5	100497.0	507.93 ug/L	507.93 ppb	01:32:52
2	As 188.979†	1151.0	1172.7	514.09 ug/L	514.09 ppb	01:33:12
2	B 249.677†	19754.8	19860.1	491.59 ug/L	491.59 ppb	01:32:52
2	Ba 233.527†	43806.0	43546.2	506.25 ug/L	506.25 ppb	01:32:52
2	Be 313.107†	1287476.4	1289054.0	505.47 ug/L	505.47 ppb	01:32:47
2	Cd 226.502†	36700.1	36661.6	503.88 ug/L	503.88 ppb	01:32:52
2	Co 228.616†	17308.9	17269.0	513.85 ug/L	513.85 ppb	01:32:52
2	Cr 267.716†	38237.7	37946.1	506.60 ug/L	506.60 ppb	01:32:52
2	Cu 324.752†	145009.7	136412.5	503.14 ug/L	503.14 ppb	01:32:52
2	Mn 257.610†	323563.1	321183.8	504.89 ug/L	504.89 ppb	01:32:52
2	Mo 202.031†	5628.0	5582.1	505.13 ug/L	505.13 ppb	01:33:12
2	Ni 231.604†	16559.2	16378.9	505.36 ug/L	505.36 ppb	01:32:52

2	P 214.914†	4851.2	4623.2	2409.8 ug/L	2409.8 ppb	01:33:12
2	Pb 220.353†	3136.6	3175.2	505.88 ug/L	505.88 ppb	01:33:12
2	S 181.975 Axial†	848.2	802.1	995.38 ug/L	995.38 ppb	01:33:12
2	Sb 206.836†	1302.9	1262.2	512.89 ug/L	512.89 ppb	01:33:12
2	Se 196.026†	839.9	853.8	520.37 ug/L	520.37 ppb	01:33:12
2	Si 251.611†	71332.8	70352.0	2502.8 ug/L	2502.8 ppb	01:32:52
2	Sn 189.927†	2202.0	2175.7	497.84 ug/L	497.84 ppb	01:33:12
2	Ti 334.940†	253864.4	253670.1	502.41 ug/L	502.41 ppb	01:32:52
2	Tl 190.801†	1092.3	1121.5	511.79 ug/L	511.79 ppb	01:33:12
2	U 409.014†	12818.9	15110.3	499.31 ug/L	499.31 ppb	01:32:52
2	V 292.402†	63789.9	65065.0	511.99 ug/L	511.99 ppb	01:32:52
2	Zn 213.857†	48367.3	47278.7	503.35 ug/L	503.35 ppb	01:32:52
2	SiO2†	71690.7	70698.5	5396.3 ug/L	5396.3 ppb	01:33:53
3	Sc Radial	4694.3	4694.3	98.9 %		01:31:49
3	Y RADIAL	4932.7	4932.7	97.87 %		01:31:49
3	Al 396.153Radial†	5396.6	5540.8	5049.2 ug/L	5049.2 ppb	01:31:49
3	Ca 317.933Radial†	2796.7	2810.3	5029.2 ug/L	5029.2 ppb	01:32:09
3	Fe 238.204 Radial†	483.7	482.0	5017.6 ug/L	5017.6 ppb	01:32:09
3	K 766.490 Radial†	29342.9	27371.4	5162.5 ug/L	5162.5 ppb	01:31:49
3	Mg 279.077 IEC†	131.5	130.9	5156.9 ug/L	5156.9 ppb	01:32:09
3	Na 589.592 Radial†	29561.5	30636.2	9322.2 ug/L	9322.2 ppb	01:31:49
3	Sr 421.552†	69372.0	70145.5	499.81 ug/L	499.81 ppb	01:31:49
3	Sc 361.383	801885.5	801885.5	101.40 %		01:33:17
3	Y 371.029	709746.6	709746.6	100.39 %		01:33:17
3	Ag 328.068†	100910.2	99340.3	502.08 ug/L	502.08 ppb	01:33:23
3	As 188.979†	1145.5	1158.3	507.77 ug/L	507.77 ppb	01:33:43
3	B 249.677†	19726.4	19678.2	487.10 ug/L	487.10 ppb	01:33:23
3	Ba 233.527†	43826.7	43225.5	502.52 ug/L	502.52 ppb	01:33:23
3	Be 313.107†	1296244.5	1287677.0	504.92 ug/L	504.92 ppb	01:33:17
3	Cd 226.502†	36759.3	36434.3	500.76 ug/L	500.76 ppb	01:33:23
3	Co 228.616†	17318.3	17143.5	510.12 ug/L	510.12 ppb	01:33:23
3	Cr 267.716†	38262.4	37672.8	502.95 ug/L	502.95 ppb	01:33:23
3	Cu 324.752†	144400.4	134682.6	496.76 ug/L	496.76 ppb	01:33:23
3	Mn 257.610†	323962.6	319058.4	501.54 ug/L	501.54 ppb	01:33:23
3	Mo 202.031†	5620.8	5531.2	500.52 ug/L	500.52 ppb	01:33:43
3	Ni 231.604†	16631.9	16321.8	503.59 ug/L	503.59 ppb	01:33:23
3	P 214.914†	4859.0	4593.1	2394.8 ug/L	2394.8 ppb	01:33:43
3	Pb 220.353†	3149.6	3163.6	504.04 ug/L	504.04 ppb	01:33:43
3	S 181.975 Axial†	855.5	802.7	996.12 ug/L	996.12 ppb	01:33:43
3	Sb 206.836†	1292.0	1241.3	504.57 ug/L	504.57 ppb	01:33:43
3	Se 196.026†	832.0	839.5	511.65 ug/L	511.65 ppb	01:33:43
3	Si 251.611†	71281.7	69746.2	2481.2 ug/L	2481.2 ppb	01:33:23
3	Sn 189.927†	2210.6	2167.0	495.84 ug/L	495.84 ppb	01:33:43
3	Ti 334.940†	253418.5	251253.7	497.62 ug/L	497.62 ppb	01:33:23
3	Tl 190.801†	1078.8	1099.6	501.87 ug/L	501.87 ppb	01:33:43
3	U 409.014†	12745.0	14937.6	493.61 ug/L	493.61 ppb	01:33:23
3	V 292.402†	63688.1	64468.0	507.29 ug/L	507.29 ppb	01:33:23
3	Zn 213.857†	48392.8	46927.2	499.61 ug/L	499.61 ppb	01:33:23
3	SiO2†	70775.0	69237.3	5284.6 ug/L	5284.6 ppb	01:33:58

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	799874.4	101.15 %	0.468			0.46%
Sc Radial	4708.4	99.2 %	0.97			0.97%
Y 371.029	707965.2	100.14 %	0.396			0.40%
Y RADIAL	4963.7	98.48 %	0.926			0.94%
Ag 328.068†	99721.3	504.00 ug/L	3.407	504.00 ppb	3.407	0.68%
QC value within limits for Ag 328.068 Recovery = 100.80%						
Al 396.153Radial†	5539.4	5047.9 ug/L	7.49	5047.9 ppb	7.49	0.15%
QC value within limits for Al 396.153Radial Recovery = 100.96%						
As 188.979†	1163.4	510.02 ug/L	3.532	510.02 ppb	3.532	0.69%
QC value within limits for As 188.979 Recovery = 102.00%						
B 249.677†	19724.5	488.24 ug/L	2.950	488.24 ppb	2.950	0.60%
QC value within limits for B 249.677 Recovery = 97.65%						
Ba 233.527†	43313.3	503.54 ug/L	2.371	503.54 ppb	2.371	0.47%
QC value within limits for Ba 233.527 Recovery = 100.71%						
Be 313.107†	1288991.5	505.43 ug/L	0.502	505.43 ppb	0.502	0.10%
QC value within limits for Be 313.107 Recovery = 101.09%						
Ca 317.933Radial†	2826.3	5057.8 ug/L	71.30	5057.8 ppb	71.30	1.41%

QC value within limits for Ca 317.933 Radial Recovery = 101.16%

Cd 226.502†	36517.9	501.91 ug/L	1.712	501.91 ppb	1.712	0.34%
QC value within limits for Cd 226.502 Recovery = 100.38%						
Co 228.616†	17187.3	511.42 ug/L	2.106	511.42 ppb	2.106	0.41%
QC value within limits for Co 228.616 Recovery = 102.28%						
Cr 267.716†	37765.4	504.19 ug/L	2.091	504.19 ppb	2.091	0.41%
QC value within limits for Cr 267.716 Recovery = 100.84%						
Cu 324.752†	135217.5	498.73 ug/L	3.827	498.73 ppb	3.827	0.77%
QC value within limits for Cu 324.752 Recovery = 99.75%						
Fe 238.204 Radial†	483.3	5031.5 ug/L	84.03	5031.5 ppb	84.03	1.67%
QC value within limits for Fe 238.204 Radial Recovery = 100.63%						
K 766.490 Radial†	27456.6	5178.6 ug/L	14.67	5178.6 ppb	14.67	0.28%
QC value within limits for K 766.490 Radial Recovery = 103.57%						
Mg 279.077 IEC†	131.9	5197.6 ug/L	35.45	5197.6 ppb	35.45	0.68%
QC value within limits for Mg 279.077 IEC Recovery = 103.95%						
Mn 257.610†	319593.3	502.38 ug/L	2.210	502.38 ppb	2.210	0.44%
QC value within limits for Mn 257.610 Recovery = 100.48%						
Mo 202.031†	5552.5	502.44 ug/L	2.401	502.44 ppb	2.401	0.48%
QC value within limits for Mo 202.031 Recovery = 100.49%						
Na 589.592 Radial†	30675.6	9334.2 ug/L	38.98	9334.2 ppb	38.98	0.42%
QC value within limits for Na 589.592 Radial Recovery = 93.34%						
Ni 231.604†	16329.3	503.83 ug/L	1.427	503.83 ppb	1.427	0.28%
QC value within limits for Ni 231.604 Recovery = 100.77%						
P 214.914†	4606.2	2401.6 ug/L	7.61	2401.6 ppb	7.61	0.32%
QC value within limits for P 214.914 Recovery = 96.06%						
Pb 220.353†	3167.8	504.72 ug/L	1.014	504.72 ppb	1.014	0.20%
QC value within limits for Pb 220.353 Recovery = 100.94%						
S 181.975 Axial†	800.7	993.74 ug/L	3.499	993.74 ppb	3.499	0.35%
QC value within limits for S 181.975 Axial Recovery = 99.37%						
Sb 206.836†	1247.1	506.89 ug/L	5.236	506.89 ppb	5.236	1.03%
QC value within limits for Sb 206.836 Recovery = 101.38%						
Se 196.026†	841.3	512.73 ug/L	7.159	512.73 ppb	7.159	1.40%
QC value within limits for Se 196.026 Recovery = 102.55%						
Si 251.611†	69919.4	2487.4 ug/L	13.42	2487.4 ppb	13.42	0.54%
QC value within limits for Si 251.611 Recovery = 99.50%						
Sn 189.927†	2171.4	496.87 ug/L	0.998	496.87 ppb	0.998	0.20%
QC value within limits for Sn 189.927 Recovery = 99.37%						
Sr 421.552†	70305.9	500.95 ug/L	2.407	500.95 ppb	2.407	0.48%
QC value within limits for Sr 421.552 Recovery = 100.19%						
Ti 334.940†	252010.7	499.11 ug/L	2.857	499.11 ppb	2.857	0.57%
QC value within limits for Ti 334.940 Recovery = 99.82%						
Tl 190.801†	1111.2	507.11 ug/L	4.984	507.11 ppb	4.984	0.98%
QC value within limits for Tl 190.801 Recovery = 101.42%						
U 409.014†	14987.3	495.25 ug/L	3.540	495.25 ppb	3.540	0.71%
QC value within limits for U 409.014 Recovery = 99.05%						
V 292.402†	64638.5	508.65 ug/L	2.911	508.65 ppb	2.911	0.57%
QC value within limits for V 292.402 Recovery = 101.73%						
Zn 213.857†	47034.9	500.76 ug/L	2.249	500.76 ppb	2.249	0.45%
QC value within limits for Zn 213.857 Recovery = 100.15%						
SiO2†	69888.6	5334.4 ug/L	56.82	5334.4 ppb	56.82	1.07%
QC value within limits for SiO2 Recovery = 99.75%						

All analyte(s) passed QC.

Sequence No.: 63

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/5/2010 01:36:09

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	4663.3	4663.3	98.2 %		01:38:01
1	Y RADIAL	4979.1	4979.1	98.79 %		01:38:01
1	Al 396.153Radial†	-76.9	4.2	3.8215 ug/L	3.8215 ppb	01:38:21
1	Ca 317.933Radial†	19.3	1.4	2.4416 ug/L	2.4416 ppb	01:38:21
1	Fe 238.204 Radial†	8.2	1.1	11.300 ug/L	11.300 ppb	01:38:21
1	K 766.490 Radial†	2504.5	243.3	45.952 ug/L	45.952 ppb	01:38:01
1	Mg 279.077 IEC†	6.5	4.5	178.16 ug/L	178.16 ppb	01:38:21
1	Na 589.592 Radial†	-868.2	-146.9	-44.686 ug/L	-44.686 ppb	01:38:01
1	Sr 421.552†	4.1	-14.8	-0.1055 ug/L	-0.1055 ppb	01:38:01
1	Sc 361.383	796356.8	796356.8	100.70 %		01:39:18
1	Y 371.029	711397.9	711397.9	100.62 %		01:39:18
1	Ag 328.068†	253.0	74.7	0.3804 ug/L	0.3804 ppb	01:39:23
1	As 188.979†	-35.0	-6.2	-2.6840 ug/L	-2.6840 ppb	01:39:43
1	B 249.677†	-314.0	-87.6	-2.1812 ug/L	-2.1812 ppb	01:39:43
1	Ba 233.527†	5.0	9.0	0.1043 ug/L	0.1043 ppb	01:39:43
1	Be 313.107†	-9194.9	201.6	0.0792 ug/L	0.0792 ppb	01:39:23
1	Cd 226.502†	-187.9	-4.0	-0.0563 ug/L	-0.0563 ppb	01:39:43
1	Co 228.616†	-49.3	15.4	0.4560 ug/L	0.4560 ppb	01:39:43
1	Cr 267.716†	73.0	11.3	0.1511 ug/L	0.1511 ppb	01:39:43
1	Cu 324.752†	7763.1	-14.6	-0.0521 ug/L	-0.0521 ppb	01:39:23
1	Mn 257.610†	476.0	42.3	0.0602 ug/L	0.0602 ppb	01:39:43
1	Mo 202.031†	10.7	-1.4	-0.1258 ug/L	-0.1258 ppb	01:39:43
1	Ni 231.604†	100.7	19.5	0.6008 ug/L	0.6008 ppb	01:39:43
1	P 214.914†	198.1	-2.1	-1.1425 ug/L	-1.1425 ppb	01:39:43
1	Pb 220.353†	-62.9	-5.0	-0.7901 ug/L	-0.7901 ppb	01:39:43
1	S 181.975 Axial†	42.2	0.9	1.1227 ug/L	1.1227 ppb	01:39:43
1	Sb 206.836†	32.3	-0.8	-0.3085 ug/L	-0.3085 ppb	01:39:43
1	Se 196.026†	-12.4	6.6	3.9507 ug/L	3.9507 ppb	01:39:43
1	Si 251.611†	609.0	53.6	1.9145 ug/L	1.9145 ppb	01:39:43
1	Sn 189.927†	16.5	3.3	0.7623 ug/L	0.7623 ppb	01:39:43
1	Ti 334.940†	-1276.9	66.7	0.1190 ug/L	0.1190 ppb	01:39:23
1	Tl 190.801†	-22.0	13.8	6.2671 ug/L	6.2671 ppb	01:39:43
1	U 409.014†	-2460.1	-74.4	-2.4685 ug/L	-2.4685 ppb	01:39:18
1	V 292.402†	-1683.5	-12.4	-0.1015 ug/L	-0.1015 ppb	01:39:23
1	Zn 213.857†	780.5	-22.2	-0.2442 ug/L	-0.2442 ppb	01:39:43
1	SiO2†	655.7	90.8	6.9545 ug/L	6.9545 ppb	01:40:49
2	Sc Radial	4668.5	4668.5	98.3 %		01:38:26
2	Y RADIAL	4955.7	4955.7	98.32 %		01:38:26
2	Al 396.153Radial†	-68.6	12.7	11.625 ug/L	11.625 ppb	01:38:46
2	Ca 317.933Radial†	21.8	3.9	6.9857 ug/L	6.9857 ppb	01:38:46
2	Fe 238.204 Radial†	6.7	-0.4	-4.5673 ug/L	-4.5673 ppb	01:38:46
2	K 766.490 Radial†	2545.1	281.7	53.209 ug/L	53.209 ppb	01:38:26
2	Mg 279.077 IEC†	-1.0	-3.1	-121.65 ug/L	-121.65 ppb	01:38:46
2	Na 589.592 Radial†	-871.8	-149.6	-45.508 ug/L	-45.508 ppb	01:38:26
2	Sr 421.552†	22.8	4.2	0.0301 ug/L	0.0301 ppb	01:38:26
2	Sc 361.383	793883.0	793883.0	100.39 %		01:39:48
2	Y 371.029	709571.4	709571.4	100.37 %		01:39:48
2	Ag 328.068†	271.4	93.9	0.4732 ug/L	0.4732 ppb	01:39:53
2	As 188.979†	-20.0	8.6	3.7555 ug/L	3.7555 ppb	01:40:13
2	B 249.677†	-319.0	-93.5	-2.3254 ug/L	-2.3254 ppb	01:40:13
2	Ba 233.527†	16.1	20.0	0.2316 ug/L	0.2316 ppb	01:40:13
2	Be 313.107†	-9132.4	235.4	0.0920 ug/L	0.0920 ppb	01:39:53
2	Cd 226.502†	-167.7	15.6	0.2145 ug/L	0.2145 ppb	01:40:13
2	Co 228.616†	-56.1	8.5	0.2553 ug/L	0.2553 ppb	01:40:13
2	Cr 267.716†	68.6	7.1	0.0969 ug/L	0.0969 ppb	01:40:13
2	Cu 324.752†	7889.5	135.2	0.5014 ug/L	0.5014 ppb	01:39:53
2	Mn 257.610†	453.7	21.5	0.0383 ug/L	0.0383 ppb	01:40:13
2	Mo 202.031†	22.4	10.4	0.9364 ug/L	0.9364 ppb	01:40:13
2	Ni 231.604†	115.2	34.3	1.0581 ug/L	1.0581 ppb	01:40:13

2	P 214.914†	197.4	-2.2	-1.2831 ug/L	-1.2831 ppb	01:40:13
2	Pb 220.353†	-66.7	-9.0	-1.4171 ug/L	-1.4171 ppb	01:40:13
2	S 181.975 Axial†	45.1	3.9	4.8405 ug/L	4.8405 ppb	01:40:13
2	Sb 206.836†	36.3	3.3	1.2885 ug/L	1.2885 ppb	01:40:13
2	Se 196.026†	-13.0	6.0	3.5449 ug/L	3.5449 ppb	01:40:13
2	Si 251.611†	616.9	63.3	2.2474 ug/L	2.2474 ppb	01:40:13
2	Sn 189.927†	5.0	-8.1	-1.8391 ug/L	-1.8391 ppb	01:40:13
2	Ti 334.940†	-1366.0	-26.0	-0.0384 ug/L	-0.0384 ppb	01:39:53
2	Tl 190.801†	-37.3	-1.5	-0.6821 ug/L	-0.6821 ppb	01:40:13
2	U 409.014†	-2533.1	-154.7	-5.1298 ug/L	-5.1298 ppb	01:39:48
2	V 292.402†	-1696.3	-30.4	-0.2341 ug/L	-0.2341 ppb	01:39:53
2	Zn 213.857†	782.6	-17.7	-0.1973 ug/L	-0.1973 ppb	01:40:13
2	SiO2†	619.1	56.4	4.2874 ug/L	4.2874 ppb	01:40:54
3	Sc Radial	4653.6	4653.6	98.0 %		01:38:51
3	Y RADIAL	4925.4	4925.4	97.72 %		01:38:51
3	Al 396.153Radial†	-67.0	14.1	12.883 ug/L	12.883 ppb	01:39:11
3	Ca 317.933Radial†	21.6	3.8	6.7579 ug/L	6.7579 ppb	01:39:11
3	Fe 238.204 Radial†	6.6	-0.6	-5.9702 ug/L	-5.9702 ppb	01:39:11
3	K 766.490 Radial†	2488.6	232.3	43.885 ug/L	43.885 ppb	01:38:51
3	Mg 279.077 IEC†	5.1	3.1	121.64 ug/L	121.64 ppb	01:39:11
3	Na 589.592 Radial†	-877.0	-157.7	-47.979 ug/L	-47.979 ppb	01:38:51
3	Sr 421.552†	3.1	-15.8	-0.1127 ug/L	-0.1127 ppb	01:38:51
3	Sc 361.383	784001.0	784001.0	99.139 %		01:40:18
3	Y 371.029	700825.0	700825.0	99.128 %		01:40:18
3	Ag 328.068†	246.6	72.3	0.3671 ug/L	0.3671 ppb	01:40:23
3	As 188.979†	-32.2	-3.9	-1.6946 ug/L	-1.6946 ppb	01:40:43
3	B 249.677†	-321.2	-99.8	-2.4812 ug/L	-2.4812 ppb	01:40:43
3	Ba 233.527†	4.5	8.5	0.0979 ug/L	0.0979 ppb	01:40:43
3	Be 313.107†	-9074.7	179.0	0.0703 ug/L	0.0703 ppb	01:40:23
3	Cd 226.502†	-190.0	-9.0	-0.1247 ug/L	-0.1247 ppb	01:40:43
3	Co 228.616†	-58.1	5.8	0.1715 ug/L	0.1715 ppb	01:40:43
3	Cr 267.716†	73.2	12.6	0.1705 ug/L	0.1705 ppb	01:40:43
3	Cu 324.752†	7819.7	163.9	0.6091 ug/L	0.6091 ppb	01:40:23
3	Mn 257.610†	485.2	59.0	0.0871 ug/L	0.0871 ppb	01:40:43
3	Mo 202.031†	14.0	2.2	0.1974 ug/L	0.1974 ppb	01:40:43
3	Ni 231.604†	104.5	24.9	0.7698 ug/L	0.7698 ppb	01:40:43
3	P 214.914†	195.0	-2.1	-1.2604 ug/L	-1.2604 ppb	01:40:43
3	Pb 220.353†	-74.1	-17.3	-2.7380 ug/L	-2.7380 ppb	01:40:43
3	S 181.975 Axial†	39.0	-1.7	-2.1240 ug/L	-2.1240 ppb	01:40:43
3	Sb 206.836†	38.3	5.7	2.2550 ug/L	2.2550 ppb	01:40:43
3	Se 196.026†	-21.7	-2.9	-1.7163 ug/L	-1.7163 ppb	01:40:43
3	Si 251.611†	603.4	57.4	2.0461 ug/L	2.0461 ppb	01:40:43
3	Sn 189.927†	15.7	2.8	0.6364 ug/L	0.6364 ppb	01:40:43
3	Ti 334.940†	-1256.9	67.0	0.1274 ug/L	0.1274 ppb	01:40:23
3	Tl 190.801†	-42.3	-6.9	-3.1469 ug/L	-3.1469 ppb	01:40:43
3	U 409.014†	-2606.7	-260.8	-8.6467 ug/L	-8.6467 ppb	01:40:18
3	V 292.402†	-1681.2	-36.5	-0.2943 ug/L	-0.2943 ppb	01:40:23
3	Zn 213.857†	791.5	1.0	0.0064 ug/L	0.0064 ppb	01:40:43
3	SiO2†	610.3	55.3	4.2243 ug/L	4.2243 ppb	01:40:59

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	791413.6	100.08 %	0.827			0.83%
Sc Radial	4661.8	98.2 %	0.16			0.16%
Y 371.029	707264.8	100.04 %	0.799			0.80%
Y RADIAL	4953.4	98.28 %	0.535			0.54%
Ag 328.068†	80.3	0.4069 ug/L	0.05783	0.4069 ppb	0.05783	14.21%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.3	9.4431 ug/L	4.90884	9.4431 ppb	4.90884	51.98%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.5	-0.2077 ug/L	3.46769	-0.2077 ppb	3.46769	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-93.6	-2.3293 ug/L	0.15003	-2.3293 ppb	0.15003	6.44%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	12.5	0.1446 ug/L	0.07540	0.1446 ppb	0.07540	52.14%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	205.3	0.0805 ug/L	0.01089	0.0805 ppb	0.01089	13.53%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.0	5.3951 ug/L	2.56029	5.3951 ppb	2.56029	47.46%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	0.9	0.0111 ug/L	0.17941	0.0111 ppb	0.17941	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	9.9	0.2943 ug/L	0.14621	0.2943 ppb	0.14621	49.68%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	10.3	0.1395 ug/L	0.03817	0.1395 ppb	0.03817	27.36%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	94.8	0.3528 ug/L	0.35476	0.3528 ppb	0.35476	100.55%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.0	0.2543 ug/L	9.59183	0.2543 ppb	9.59183	>999.9%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	252.4	47.682 ug/L	4.8968	47.682 ppb	4.8968	10.27%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.5	59.380 ug/L	159.3074	59.380 ppb	159.3074	268.28%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	40.9	0.0618 ug/L	0.02444	0.0618 ppb	0.02444	39.53%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	3.7	0.3360 ug/L	0.54449	0.3360 ppb	0.54449	162.06%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-151.4	-46.058 ug/L	1.7138	-46.058 ppb	1.7138	3.72%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	26.2	0.8095 ug/L	0.23123	0.8095 ppb	0.23123	28.56%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-2.1	-1.2287 ug/L	0.07552	-1.2287 ppb	0.07552	6.15%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-10.4	-1.6484 ug/L	0.99433	-1.6484 ppb	0.99433	60.32%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	1.0	1.2797 ug/L	3.48491	1.2797 ppb	3.48491	272.32%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	2.7	1.0783 ug/L	1.29462	1.0783 ppb	1.29462	120.06%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.2	1.9265 ug/L	3.16121	1.9265 ppb	3.16121	164.09%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	58.1	2.0693 ug/L	0.16762	2.0693 ppb	0.16762	8.10%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.6	-0.1468 ug/L	1.46693	-0.1468 ppb	1.46693	999.49%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-8.8	-0.0627 ug/L	0.08044	-0.0627 ppb	0.08044	128.29%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	35.9	0.0693 ug/L	0.09336	0.0693 ppb	0.09336	134.66%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	1.8	0.8127 ug/L	4.88176	0.8127 ppb	4.88176	600.66%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-163.3	-5.4150 ug/L	3.09901	-5.4150 ppb	3.09901	57.23%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-26.4	-0.2100 ug/L	0.09863	-0.2100 ppb	0.09863	46.97%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-13.0	-0.1450 ug/L	0.13323	-0.1450 ppb	0.13323	91.88%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	67.5	5.1554 ug/L	1.55840	5.1554 ppb	1.55840	30.23%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/5/2010 02:31:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4816.7	4816.7	101 %		02:33:06
1	Y RADIAL	5084.0	5084.0	100.9 %		02:33:06
1	Al 396.153Radial†	5384.9	5390.5	4909.8 ug/L	4909.8 ppb	02:33:06
1	Ca 317.933Radial†	2743.6	2686.1	4807.0 ug/L	4807.0 ppb	02:33:26
1	Fe 238.204 Radial†	469.6	455.6	4744.1 ug/L	4744.1 ppb	02:33:26
1	K 766.490 Radial†	29440.8	26713.7	5038.5 ug/L	5038.5 ppb	02:33:06
1	Mg 279.077 IEC†	127.3	123.4	4862.6 ug/L	4862.6 ppb	02:33:26
1	Na 589.592 Radial†	28613.3	28941.8	8806.7 ug/L	8806.7 ppb	02:33:06
1	Sr 421.552†	68005.8	67016.0	477.51 ug/L	477.51 ppb	02:33:06
1	Sc 361.383	749736.4	749736.4	94.806 %		02:34:23
1	Y 371.029	663892.7	663892.7	93.904 %		02:34:23
1	Ag 328.068†	98068.0	103264.3	521.76 ug/L	521.76 ppb	02:34:29
1	As 188.979†	1144.5	1235.8	541.45 ug/L	541.45 ppb	02:34:49
1	B 249.677†	19249.3	20528.1	508.22 ug/L	508.22 ppb	02:34:29
1	Ba 233.527†	42392.5	44719.0	519.87 ug/L	519.87 ppb	02:34:29
1	Be 313.107†	1320484.6	1402162.2	549.75 ug/L	549.75 ppb	02:34:23
1	Cd 226.502†	35805.6	37949.9	521.64 ug/L	521.64 ppb	02:34:29
1	Co 228.616†	16786.9	17771.0	528.84 ug/L	528.84 ppb	02:34:29
1	Cr 267.716†	37114.9	39087.0	521.82 ug/L	521.82 ppb	02:34:29
1	Cu 324.752†	140093.9	140045.4	516.51 ug/L	516.51 ppb	02:34:29
1	Mn 257.610†	313741.7	330500.1	519.51 ug/L	519.51 ppb	02:34:29
1	Mo 202.031†	5639.5	5936.5	537.14 ug/L	537.14 ppb	02:34:49
1	Ni 231.604†	16126.2	16929.3	522.34 ug/L	522.34 ppb	02:34:29
1	P 214.914†	4873.3	4941.5	2580.4 ug/L	2580.4 ppb	02:34:49
1	Pb 220.353†	3160.9	3391.6	540.31 ug/L	540.31 ppb	02:34:49
1	S 181.975 Axial†	851.3	856.9	1063.5 ug/L	1063.5 ppb	02:34:49
1	Sb 206.836†	1310.7	1349.7	548.35 ug/L	548.35 ppb	02:34:49
1	Se 196.026†	826.8	891.1	541.77 ug/L	541.77 ppb	02:34:49
1	Si 251.611†	69289.3	72534.3	2580.2 ug/L	2580.2 ppb	02:34:29
1	Sn 189.927†	2211.3	2319.3	530.63 ug/L	530.63 ppb	02:34:49
1	Ti 334.940†	245177.0	259944.2	514.81 ug/L	514.81 ppb	02:34:29
1	Tl 190.801†	1098.3	1194.1	544.81 ug/L	544.81 ppb	02:34:49
1	U 409.014†	12446.9	15497.4	512.16 ug/L	512.16 ppb	02:34:29
1	V 292.402†	61599.1	66633.3	524.67 ug/L	524.67 ppb	02:34:29
1	Zn 213.857†	46988.9	48766.0	519.26 ug/L	519.26 ppb	02:34:29
1	SiO2†	71739.2	75109.3	5733.0 ug/L	5733.0 ppb	02:35:56
2	Sc Radial	4740.4	4740.4	99.8 %		02:33:31
2	Y RADIAL	4971.1	4971.1	98.63 %		02:33:31
2	Al 396.153Radial†	5335.8	5426.7	4944.3 ug/L	4944.3 ppb	02:33:31
2	Ca 317.933Radial†	2794.4	2780.5	4975.9 ug/L	4975.9 ppb	02:33:51
2	Fe 238.204 Radial†	476.6	470.0	4894.1 ug/L	4894.1 ppb	02:33:51
2	K 766.490 Radial†	29422.8	27162.4	5123.2 ug/L	5123.2 ppb	02:33:31
2	Mg 279.077 IEC†	130.4	128.5	5064.7 ug/L	5064.7 ppb	02:33:51
2	Na 589.592 Radial†	28626.8	29409.0	8948.8 ug/L	8948.8 ppb	02:33:31
2	Sr 421.552†	68042.1	68130.3	485.45 ug/L	485.45 ppb	02:33:31
2	Sc 361.383	787433.3	787433.3	99.573 %		02:34:54
2	Y 371.029	696816.1	696816.1	98.561 %		02:34:54
2	Ag 328.068†	101530.8	101790.0	514.39 ug/L	514.39 ppb	02:34:59
2	As 188.979†	1136.9	1170.4	513.06 ug/L	513.06 ppb	02:35:20
2	B 249.677†	19993.4	20303.5	502.62 ug/L	502.62 ppb	02:34:59
2	Ba 233.527†	43936.3	44128.8	513.02 ug/L	513.02 ppb	02:34:59
2	Be 313.107†	1292107.9	1306984.7	512.49 ug/L	512.49 ppb	02:34:54
2	Cd 226.502†	37157.4	37499.5	515.43 ug/L	515.43 ppb	02:34:59
2	Co 228.616†	17464.2	17603.5	523.81 ug/L	523.81 ppb	02:34:59
2	Cr 267.716†	38514.7	38618.8	515.58 ug/L	515.58 ppb	02:34:59
2	Cu 324.752†	144908.1	137806.2	508.27 ug/L	508.27 ppb	02:34:59
2	Mn 257.610†	324893.8	325857.5	512.22 ug/L	512.22 ppb	02:34:59
2	Mo 202.031†	5621.0	5633.2	509.73 ug/L	509.73 ppb	02:35:20
2	Ni 231.604†	16776.2	16767.7	517.35 ug/L	517.35 ppb	02:34:59

2	P 214.914†	4855.1	4677.1	2438.3 ug/L	2438.3 ppb	02:35:20
2	Pb 220.353†	3140.8	3211.8	511.70 ug/L	511.70 ppb	02:35:20
2	S 181.975 Axial†	856.5	819.1	1016.6 ug/L	1016.6 ppb	02:35:20
2	Sb 206.836†	1294.3	1266.9	514.97 ug/L	514.97 ppb	02:35:20
2	Se 196.026†	841.2	863.8	525.81 ug/L	525.81 ppb	02:35:20
2	Si 251.611†	71598.7	71354.7	2538.5 ug/L	2538.5 ppb	02:34:59
2	Sn 189.927†	2214.9	2211.4	505.99 ug/L	505.99 ppb	02:35:20
2	Ti 334.940†	254350.7	256776.8	508.55 ug/L	508.55 ppb	02:34:59
2	Tl 190.801†	1085.1	1125.5	513.63 ug/L	513.63 ppb	02:35:20
2	U 409.014†	12651.6	15074.5	498.13 ug/L	498.13 ppb	02:34:59
2	V 292.402†	64065.9	66000.2	519.33 ug/L	519.33 ppb	02:34:59
2	Zn 213.857†	48634.2	48045.6	511.54 ug/L	511.54 ppb	02:34:59
2	SiO2†	71396.6	71142.6	5430.2 ug/L	5430.2 ppb	02:36:01
3	Sc Radial	4448.6	4448.6	93.7 %		02:33:56
3	Y RADIAL	4668.1	4668.1	92.62 %		02:33:56
3	Al 396.153Radial†	5447.9	5896.9	5375.0 ug/L	5375.0 ppb	02:33:56
3	Ca 317.933Radial†	2834.7	3007.1	5381.3 ug/L	5381.3 ppb	02:34:16
3	Fe 238.204 Radial†	486.7	512.2	5331.4 ug/L	5331.4 ppb	02:34:16
3	K 766.490 Radial†	29613.0	29298.6	5526.2 ug/L	5526.2 ppb	02:33:56
3	Mg 279.077 IEC†	134.4	141.4	5570.8 ug/L	5570.8 ppb	02:34:16
3	Na 589.592 Radial†	28527.4	31183.8	9488.9 ug/L	9488.9 ppb	02:33:56
3	Sr 421.552†	68599.9	73196.4	521.55 ug/L	521.55 ppb	02:33:56
3	Sc 361.383	791941.6	791941.6	100.14 %		02:35:25
3	Y 371.029	700252.4	700252.4	99.047 %		02:35:25
3	Ag 328.068†	101699.9	101378.4	512.44 ug/L	512.44 ppb	02:35:30
3	As 188.979†	1139.3	1166.3	511.39 ug/L	511.39 ppb	02:35:50
3	B 249.677†	20147.8	20343.3	503.55 ug/L	503.55 ppb	02:35:30
3	Ba 233.527†	44270.3	44211.1	513.98 ug/L	513.98 ppb	02:35:30
3	Be 313.107†	1311886.2	1319347.6	517.33 ug/L	517.33 ppb	02:35:25
3	Cd 226.502†	37275.4	37404.8	514.08 ug/L	514.08 ppb	02:35:30
3	Co 228.616†	17553.2	17592.5	523.47 ug/L	523.47 ppb	02:35:30
3	Cr 267.716†	38728.7	38612.2	515.49 ug/L	515.49 ppb	02:35:30
3	Cu 324.752†	145553.5	137622.2	507.61 ug/L	507.61 ppb	02:35:30
3	Mn 257.610†	326970.8	326074.0	512.58 ug/L	512.58 ppb	02:35:30
3	Mo 202.031†	5625.4	5605.4	507.26 ug/L	507.26 ppb	02:35:50
3	Ni 231.604†	16850.5	16746.0	516.68 ug/L	516.68 ppb	02:35:30
3	P 214.914†	4871.6	4665.8	2432.0 ug/L	2432.0 ppb	02:35:50
3	Pb 220.353†	3149.5	3202.6	510.30 ug/L	510.30 ppb	02:35:50
3	S 181.975 Axial†	857.5	815.2	1011.6 ug/L	1011.6 ppb	02:35:50
3	Sb 206.836†	1301.8	1267.0	514.87 ug/L	514.87 ppb	02:35:50
3	Se 196.026†	835.9	853.7	520.80 ug/L	520.80 ppb	02:35:50
3	Si 251.611†	72016.9	71363.1	2538.8 ug/L	2538.8 ppb	02:35:30
3	Sn 189.927†	2210.8	2194.6	502.20 ug/L	502.20 ppb	02:35:50
3	Ti 334.940†	255701.2	256671.2	508.35 ug/L	508.35 ppb	02:35:30
3	Tl 190.801†	1080.0	1114.2	508.53 ug/L	508.53 ppb	02:35:50
3	U 409.014†	12814.0	15164.3	501.06 ug/L	501.06 ppb	02:35:30
3	V 292.402†	64284.7	65852.3	518.10 ug/L	518.10 ppb	02:35:30
3	Zn 213.857†	48885.3	48018.3	511.19 ug/L	511.19 ppb	02:35:30
3	SiO2†	71963.4	71300.5	5442.3 ug/L	5442.3 ppb	02:36:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	776370.4	98.174 %	2.9306			2.99%
Sc Radial	4668.6	98.3 %	4.09			4.16%
Y 371.029	686987.0	97.171 %	2.8394			2.92%
Y RADIAL	4907.7	97.37 %	4.268			4.38%
Ag 328.068†	102144.2	516.20 ug/L	4.914	516.20 ppb	4.914	0.95%
QC value within limits for Ag 328.068 Recovery = 103.24%						
Al 396.153Radial†	5571.4	5076.4 ug/L	259.20	5076.4 ppb	259.20	5.11%
QC value within limits for Al 396.153Radial Recovery = 101.53%						
As 188.979†	1190.8	521.97 ug/L	16.894	521.97 ppb	16.894	3.24%
QC value within limits for As 188.979 Recovery = 104.39%						
B 249.677†	20391.6	504.80 ug/L	3.001	504.80 ppb	3.001	0.59%
QC value within limits for B 249.677 Recovery = 100.96%						
Ba 233.527†	44353.0	515.62 ug/L	3.708	515.62 ppb	3.708	0.72%
QC value within limits for Ba 233.527 Recovery = 103.12%						
Be 313.107†	1342831.5	526.52 ug/L	20.256	526.52 ppb	20.256	3.85%
QC value within limits for Be 313.107 Recovery = 105.30%						
Ca 317.933Radial†	2824.6	5054.7 ug/L	295.20	5054.7 ppb	295.20	5.84%

QC value within limits for Ca 317.933 Radial Recovery = 101.09%							
Cd	226.502†	37618.1	517.05 ug/L	4.032	517.05 ppb	4.032	0.78%
QC value within limits for Cd 226.502 Recovery = 103.41%							
Co	228.616†	17655.7	525.37 ug/L	3.010	525.37 ppb	3.010	0.57%
QC value within limits for Co 228.616 Recovery = 105.07%							
Cr	267.716†	38772.7	517.63 ug/L	3.628	517.63 ppb	3.628	0.70%
QC value within limits for Cr 267.716 Recovery = 103.53%							
Cu	324.752†	138491.3	510.80 ug/L	4.960	510.80 ppb	4.960	0.97%
QC value within limits for Cu 324.752 Recovery = 102.16%							
Fe	238.204 Radial†	479.3	4989.9 ug/L	305.12	4989.9 ppb	305.12	6.11%
QC value within limits for Fe 238.204 Radial Recovery = 99.80%							
K	766.490 Radial†	27724.9	5229.3 ug/L	260.59	5229.3 ppb	260.59	4.98%
QC value within limits for K 766.490 Radial Recovery = 104.59%							
Mg	279.077 IEC†	131.1	5166.0 ug/L	364.84	5166.0 ppb	364.84	7.06%
QC value within limits for Mg 279.077 IEC Recovery = 103.32%							
Mn	257.610†	327477.2	514.77 ug/L	4.107	514.77 ppb	4.107	0.80%
QC value within limits for Mn 257.610 Recovery = 102.95%							
Mo	202.031†	5725.0	518.04 ug/L	16.583	518.04 ppb	16.583	3.20%
QC value within limits for Mo 202.031 Recovery = 103.61%							
Na	589.592 Radial†	29844.9	9081.4 ug/L	359.93	9081.4 ppb	359.93	3.96%
QC value within limits for Na 589.592 Radial Recovery = 90.81%							
Ni	231.604†	16814.3	518.79 ug/L	3.089	518.79 ppb	3.089	0.60%
QC value within limits for Ni 231.604 Recovery = 103.76%							
P	214.914†	4761.5	2483.6 ug/L	83.93	2483.6 ppb	83.93	3.38%
QC value within limits for P 214.914 Recovery = 99.34%							
Pb	220.353†	3268.7	520.77 ug/L	16.935	520.77 ppb	16.935	3.25%
QC value within limits for Pb 220.353 Recovery = 104.15%							
S	181.975 Axial†	830.4	1030.6 ug/L	28.62	1030.6 ppb	28.62	2.78%
QC value within limits for S 181.975 Axial Recovery = 103.06%							
Sb	206.836†	1294.6	526.07 ug/L	19.302	526.07 ppb	19.302	3.67%
QC value within limits for Sb 206.836 Recovery = 105.21%							
Se	196.026†	869.5	529.46 ug/L	10.955	529.46 ppb	10.955	2.07%
QC value within limits for Se 196.026 Recovery = 105.89%							
Si	251.611†	71750.7	2552.5 ug/L	24.00	2552.5 ppb	24.00	0.94%
QC value within limits for Si 251.611 Recovery = 102.10%							
Sn	189.927†	2241.8	512.94 ug/L	15.442	512.94 ppb	15.442	3.01%
QC value within limits for Sn 189.927 Recovery = 102.59%							
Sr	421.552†	69447.6	494.83 ug/L	23.471	494.83 ppb	23.471	4.74%
QC value within limits for Sr 421.552 Recovery = 98.97%							
Ti	334.940†	257797.4	510.57 ug/L	3.673	510.57 ppb	3.673	0.72%
QC value within limits for Ti 334.940 Recovery = 102.11%							
Tl	190.801†	1144.6	522.32 ug/L	19.645	522.32 ppb	19.645	3.76%
QC value within limits for Tl 190.801 Recovery = 104.46%							
U	409.014†	15245.4	503.78 ug/L	7.400	503.78 ppb	7.400	1.47%
QC value within limits for U 409.014 Recovery = 100.76%							
V	292.402†	66161.9	520.70 ug/L	3.493	520.70 ppb	3.493	0.67%
QC value within limits for V 292.402 Recovery = 104.14%							
Zn	213.857†	48276.6	514.00 ug/L	4.563	514.00 ppb	4.563	0.89%
QC value within limits for Zn 213.857 Recovery = 102.80%							
SiO2†		72517.4	5535.1 ug/L	171.42	5535.1 ppb	171.42	3.10%
QC value within limits for SiO2 Recovery = 103.51%							

All analyte(s) passed QC.

Sequence No.: 72

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/5/2010 02:38:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4613.8	4613.8	97.2 %		02:40:09
1	Y RADIAL	4898.9	4898.9	97.20 %		02:40:09
1	Al 396.153Radial†	-65.2	15.4	14.107 ug/L	14.107 ppb	02:40:29
1	Ca 317.933Radial†	18.9	1.2	2.1248 ug/L	2.1248 ppb	02:40:29
1	Fe 238.204 Radial†	8.3	1.2	12.968 ug/L	12.968 ppb	02:40:29
1	K 766.490 Radial†	2658.6	429.2	81.068 ug/L	81.068 ppb	02:40:09
1	Mg 279.077 IEC†	1.5	-0.6	-24.237 ug/L	-24.237 ppb	02:40:29
1	Na 589.592 Radial†	-905.6	-194.9	-59.301 ug/L	-59.301 ppb	02:40:09
1	Sr 421.552†	53.0	35.6	0.2539 ug/L	0.2539 ppb	02:40:09
1	Sc 361.383	796256.1	796256.1	100.69 %		02:41:26
1	Y 371.029	711528.3	711528.3	100.64 %		02:41:26
1	Ag 328.068†	243.6	65.5	0.3293 ug/L	0.3293 ppb	02:41:26
1	As 188.979†	-23.2	5.5	2.4138 ug/L	2.4138 ppb	02:41:46
1	B 249.677†	-216.0	9.7	0.2399 ug/L	0.2399 ppb	02:41:46
1	Ba 233.527†	18.1	22.0	0.2540 ug/L	0.2540 ppb	02:41:46
1	Be 313.107†	-9037.8	356.5	0.1396 ug/L	0.1396 ppb	02:41:26
1	Cd 226.502†	-182.0	1.9	0.0252 ug/L	0.0252 ppb	02:41:46
1	Co 228.616†	-61.1	3.7	0.1092 ug/L	0.1092 ppb	02:41:46
1	Cr 267.716†	72.9	11.2	0.1480 ug/L	0.1480 ppb	02:41:46
1	Cu 324.752†	7665.6	-110.5	-0.4071 ug/L	-0.4071 ppb	02:41:26
1	Mn 257.610†	493.7	59.9	0.0964 ug/L	0.0964 ppb	02:41:46
1	Mo 202.031†	15.8	3.7	0.3351 ug/L	0.3351 ppb	02:41:46
1	Ni 231.604†	92.0	10.9	0.3355 ug/L	0.3355 ppb	02:41:46
1	P 214.914†	196.6	-3.6	-1.8654 ug/L	-1.8654 ppb	02:41:46
1	Pb 220.353†	-70.3	-12.3	-1.9504 ug/L	-1.9504 ppb	02:41:46
1	S 181.975 Axial†	41.2	-0.1	-0.1427 ug/L	-0.1427 ppb	02:41:46
1	Sb 206.836†	44.4	11.2	4.3893 ug/L	4.3893 ppb	02:41:46
1	Se 196.026†	-22.5	-3.4	-1.9684 ug/L	-1.9684 ppb	02:41:46
1	Si 251.611†	713.1	157.1	5.5972 ug/L	5.5972 ppb	02:41:46
1	Sn 189.927†	8.9	-4.2	-0.9709 ug/L	-0.9709 ppb	02:41:46
1	Ti 334.940†	-1322.6	21.2	0.0441 ug/L	0.0441 ppb	02:41:26
1	Tl 190.801†	-25.0	10.8	4.9199 ug/L	4.9199 ppb	02:41:46
1	U 409.014†	-2377.9	7.0	0.2304 ug/L	0.2304 ppb	02:41:26
1	V 292.402†	-1780.5	-109.0	-0.8439 ug/L	-0.8439 ppb	02:41:26
1	Zn 213.857†	792.1	-10.6	-0.1174 ug/L	-0.1174 ppb	02:41:46
1	SiO2†	692.7	127.6	9.7578 ug/L	9.7578 ppb	02:42:42
2	Sc Radial	4731.8	4731.8	99.7 %		02:40:34
2	Y RADIAL	4988.6	4988.6	98.98 %		02:40:34
2	Al 396.153Radial†	-76.2	6.0	5.4873 ug/L	5.4873 ppb	02:40:54
2	Ca 317.933Radial†	21.9	3.7	6.7031 ug/L	6.7031 ppb	02:40:54
2	Fe 238.204 Radial†	8.2	0.9	9.8442 ug/L	9.8442 ppb	02:40:54
2	K 766.490 Radial†	2589.1	291.2	54.987 ug/L	54.987 ppb	02:40:34
2	Mg 279.077 IEC†	0.6	-1.5	-59.112 ug/L	-59.112 ppb	02:40:54
2	Na 589.592 Radial†	-798.1	-63.7	-19.384 ug/L	-19.384 ppb	02:40:34
2	Sr 421.552†	16.0	-2.9	-0.0207 ug/L	-0.0207 ppb	02:40:34
2	Sc 361.383	798467.7	798467.7	100.97 %		02:41:52
2	Y 371.029	712995.8	712995.8	100.85 %		02:41:52
2	Ag 328.068†	225.7	47.0	0.2382 ug/L	0.2382 ppb	02:41:52
2	As 188.979†	-25.0	3.9	1.6785 ug/L	1.6785 ppb	02:42:12
2	B 249.677†	-188.7	37.3	0.9265 ug/L	0.9265 ppb	02:42:12
2	Ba 233.527†	16.0	19.9	0.2301 ug/L	0.2301 ppb	02:42:12
2	Be 313.107†	-9097.0	322.7	0.1264 ug/L	0.1264 ppb	02:41:52
2	Cd 226.502†	-170.0	14.2	0.1947 ug/L	0.1947 ppb	02:42:12
2	Co 228.616†	-68.1	-3.1	-0.0913 ug/L	-0.0913 ppb	02:42:12
2	Cr 267.716†	58.9	-2.9	-0.0390 ug/L	-0.0390 ppb	02:42:12
2	Cu 324.752†	7729.6	-68.3	-0.2510 ug/L	-0.2510 ppb	02:41:52
2	Mn 257.610†	477.9	42.9	0.0708 ug/L	0.0708 ppb	02:42:12
2	Mo 202.031†	17.1	4.9	0.4470 ug/L	0.4470 ppb	02:42:12
2	Ni 231.604†	97.4	16.0	0.4926 ug/L	0.4926 ppb	02:42:12

2	P 214.914†	202.1	1.3	0.7301 ug/L	0.7301 ppb	02:42:12
2	Pb 220.353†	-58.5	-0.4	-0.0680 ug/L	-0.0680 ppb	02:42:12
2	S 181.975 Axial†	39.2	-2.3	-2.8123 ug/L	-2.8123 ppb	02:42:12
2	Sb 206.836†	30.4	-2.8	-1.0984 ug/L	-1.0984 ppb	02:42:12
2	Se 196.026†	-17.6	1.5	0.9372 ug/L	0.9372 ppb	02:42:12
2	Si 251.611†	694.2	136.3	4.8569 ug/L	4.8569 ppb	02:42:12
2	Sn 189.927†	10.4	-2.7	-0.6270 ug/L	-0.6270 ppb	02:42:12
2	Ti 334.940†	-1312.0	35.3	0.0760 ug/L	0.0760 ppb	02:41:52
2	Tl 190.801†	-29.3	6.7	3.0502 ug/L	3.0502 ppb	02:42:12
2	U 409.014†	-2404.7	-13.1	-0.4347 ug/L	-0.4347 ppb	02:41:52
2	V 292.402†	-1718.7	-42.9	-0.3304 ug/L	-0.3304 ppb	02:41:52
2	Zn 213.857†	793.4	-11.5	-0.1274 ug/L	-0.1274 ppb	02:42:12
2	SiO2†	669.8	103.0	7.8733 ug/L	7.8733 ppb	02:42:47
3	Sc Radial	4709.8	4709.8	99.2 %		02:41:00
3	Y RADIAL	4997.5	4997.5	99.15 %		02:41:00
3	Al 396.153Radial†	-65.8	16.2	14.765 ug/L	14.765 ppb	02:41:20
3	Ca 317.933Radial†	21.3	3.2	5.7581 ug/L	5.7581 ppb	02:41:20
3	Fe 238.204 Radial†	8.0	0.8	8.0512 ug/L	8.0512 ppb	02:41:20
3	K 766.490 Radial†	2622.9	337.4	63.726 ug/L	63.726 ppb	02:41:00
3	Mg 279.077 IEC†	3.0	0.9	34.668 ug/L	34.668 ppb	02:41:20
3	Na 589.592 Radial†	-896.6	-166.8	-50.768 ug/L	-50.768 ppb	02:41:00
3	Sr 421.552†	37.5	18.8	0.1342 ug/L	0.1342 ppb	02:41:00
3	Sc 361.383	799937.5	799937.5	101.15 %		02:42:17
3	Y 371.029	714556.1	714556.1	101.07 %		02:42:17
3	Ag 328.068†	249.5	70.2	0.3555 ug/L	0.3555 ppb	02:42:17
3	As 188.979†	-30.0	-1.1	-0.4638 ug/L	-0.4638 ppb	02:42:37
3	B 249.677†	-231.9	-5.0	-0.1269 ug/L	-0.1269 ppb	02:42:37
3	Ba 233.527†	-5.9	-1.8	-0.0220 ug/L	-0.0220 ppb	02:42:37
3	Be 313.107†	-9138.0	298.7	0.1171 ug/L	0.1171 ppb	02:42:17
3	Cd 226.502†	-191.0	-6.2	-0.0870 ug/L	-0.0870 ppb	02:42:37
3	Co 228.616†	-49.7	15.3	0.4550 ug/L	0.4550 ppb	02:42:37
3	Cr 267.716†	56.6	-5.3	-0.0697 ug/L	-0.0697 ppb	02:42:37
3	Cu 324.752†	7702.9	-108.8	-0.3988 ug/L	-0.3988 ppb	02:42:17
3	Mn 257.610†	480.8	44.9	0.0699 ug/L	0.0699 ppb	02:42:37
3	Mo 202.031†	18.4	6.2	0.5629 ug/L	0.5629 ppb	02:42:37
3	Ni 231.604†	84.6	3.2	0.0970 ug/L	0.0970 ppb	02:42:37
3	P 214.914†	196.9	-4.2	-2.1887 ug/L	-2.1887 ppb	02:42:37
3	Pb 220.353†	-68.5	-10.2	-1.6179 ug/L	-1.6179 ppb	02:42:37
3	S 181.975 Axial†	45.0	3.5	4.2955 ug/L	4.2955 ppb	02:42:37
3	Sb 206.836†	36.0	2.8	1.0910 ug/L	1.0910 ppb	02:42:37
3	Se 196.026†	-23.2	-4.0	-2.3459 ug/L	-2.3459 ppb	02:42:37
3	Si 251.611†	702.4	143.2	5.1009 ug/L	5.1009 ppb	02:42:37
3	Sn 189.927†	12.5	-0.7	-0.1614 ug/L	-0.1614 ppb	02:42:37
3	Ti 334.940†	-1305.8	43.9	0.0864 ug/L	0.0864 ppb	02:42:17
3	Tl 190.801†	-31.6	4.5	2.0305 ug/L	2.0305 ppb	02:42:37
3	U 409.014†	-2501.6	-104.4	-3.4635 ug/L	-3.4635 ppb	02:42:17
3	V 292.402†	-1753.5	-74.2	-0.5754 ug/L	-0.5754 ppb	02:42:17
3	Zn 213.857†	792.5	-13.8	-0.1493 ug/L	-0.1493 ppb	02:42:37
3	SiO2†	677.2	109.1	8.3345 ug/L	8.3345 ppb	02:42:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	798220.4	100.94 %	0.234			0.23%
Sc Radial	4685.1	98.7 %	1.32			1.34%
Y 371.029	713026.7	100.85 %	0.214			0.21%
Y RADIAL	4961.6	98.44 %	1.083			1.10%
Ag 328.068†	60.9	0.3077 ug/L	0.06157	0.3077 ppb	0.06157	20.01%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.5	11.453 ug/L	5.1769	11.453 ppb	5.1769	45.20%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.8	1.2095 ug/L	1.49502	1.2095 ppb	1.49502	123.61%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	14.0	0.3465 ug/L	0.53475	0.3465 ppb	0.53475	154.33%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	13.4	0.1540 ug/L	0.15294	0.1540 ppb	0.15294	99.29%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	326.0	0.1277 ug/L	0.01130	0.1277 ppb	0.01130	8.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.7	4.8620 ug/L	2.41713	4.8620 ppb	2.41713	49.72%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	3.3	0.0443 ug/L	0.14187	0.0443 ppb	0.14187 320.32%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	5.3	0.1576 ug/L	0.27634	0.1576 ppb	0.27634 175.30%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	1.0	0.0131 ug/L	0.11784	0.0131 ppb	0.11784 898.78%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-95.8	-0.3523 ug/L	0.08782	-0.3523 ppb	0.08782 24.93%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	1.0	10.288 ug/L	2.4881	10.288 ppb	2.4881 24.18%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	352.6	66.594 ug/L	13.2747	66.594 ppb	13.2747 19.93%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-0.4	-16.227 ug/L	47.4006	-16.227 ppb	47.4006 292.11%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	49.2	0.0790 ug/L	0.01503	0.0790 ppb	0.01503 19.03%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	4.9	0.4484 ug/L	0.11390	0.4484 ppb	0.11390 25.40%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-141.8	-43.151 ug/L	21.0203	-43.151 ppb	21.0203 48.71%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	10.0	0.3084 ug/L	0.19918	0.3084 ppb	0.19918 64.59%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-2.2	-1.1080 ug/L	1.60002	-1.1080 ppb	1.60002 144.41%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-7.7	-1.2121 ug/L	1.00466	-1.2121 ppb	1.00466 82.89%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	0.4	0.4468 ug/L	3.59035	0.4468 ppb	3.59035 803.54%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	3.7	1.4606 ug/L	2.76243	1.4606 ppb	2.76243 189.13%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-1.9	-1.1257 ug/L	1.79647	-1.1257 ppb	1.79647 159.59%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	145.5	5.1850 ug/L	0.37723	5.1850 ppb	0.37723 7.28%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-2.6	-0.5864 ug/L	0.40630	-0.5864 ppb	0.40630 69.28%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	17.2	0.1225 ug/L	0.13767	0.1225 ppb	0.13767 112.43%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	33.5	0.0688 ug/L	0.02200	0.0688 ppb	0.02200 31.97%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	7.4	3.3335 ug/L	1.46537	3.3335 ppb	1.46537 43.96%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-36.8	-1.2226 ug/L	1.96894	-1.2226 ppb	1.96894 161.04%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-75.4	-0.5832 ug/L	0.25684	-0.5832 ppb	0.25684 44.04%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-11.9	-0.1314 ug/L	0.01632	-0.1314 ppb	0.01632 12.43%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	113.3	8.6552 ug/L	0.98237	8.6552 ppb	0.98237 11.35%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 81

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/5/2010 03:41:31

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	4662.8	4662.8	98.2 %		03:43:24
1	Y RADIAL	4905.1	4905.1	97.32 %		03:43:24
1	Al 396.153Radial†	5446.9	5628.8	5129.6 ug/L	5129.6 ppb	03:43:24
1	Ca 317.933Radial†	2842.6	2876.2	5147.1 ug/L	5147.1 ppb	03:43:44
1	Fe 238.204 Radial†	485.1	486.7	5066.8 ug/L	5066.8 ppb	03:43:44
1	K 766.490 Radial†	29702.3	27937.8	5269.4 ug/L	5269.4 ppb	03:43:24
1	Mg 279.077 IEC†	134.4	134.8	5309.9 ug/L	5309.9 ppb	03:43:44
1	Na 589.592 Radial†	29254.7	30525.9	9288.7 ug/L	9288.7 ppb	03:43:24
1	Sr 421.552†	69526.2	70776.6	504.30 ug/L	504.30 ppb	03:43:24
1	Sc 361.383	800142.7	800142.7	101.18 %		03:44:41
1	Y 371.029	708277.9	708277.9	100.18 %		03:44:41
1	Ag 328.068†	101179.9	99823.6	504.53 ug/L	504.53 ppb	03:44:46
1	As 188.979†	1158.5	1173.7	514.47 ug/L	514.47 ppb	03:45:06
1	B 249.677†	19583.6	19579.4	484.62 ug/L	484.62 ppb	03:44:46
1	Ba 233.527†	43882.3	43374.6	504.26 ug/L	504.26 ppb	03:44:46
1	Be 313.107†	1318378.2	1312336.9	514.57 ug/L	514.57 ppb	03:44:41
1	Cd 226.502†	36988.1	36739.4	504.95 ug/L	504.95 ppb	03:44:46
1	Co 228.616†	17389.6	17251.2	513.33 ug/L	513.33 ppb	03:44:46
1	Cr 267.716†	38423.0	37913.7	506.16 ug/L	506.16 ppb	03:44:46
1	Cu 324.752†	144548.8	135139.5	498.44 ug/L	498.44 ppb	03:44:46
1	Mn 257.610†	324420.8	320207.2	503.35 ug/L	503.35 ppb	03:44:46
1	Mo 202.031†	5653.8	5575.9	504.57 ug/L	504.57 ppb	03:45:06
1	Ni 231.604†	16686.0	16410.9	506.34 ug/L	506.34 ppb	03:44:46
1	P 214.914†	4898.1	4642.2	2421.2 ug/L	2421.2 ppb	03:45:06
1	Pb 220.353†	3164.8	3185.4	507.53 ug/L	507.53 ppb	03:45:06
1	S 181.975 Axial†	856.0	805.0	999.00 ug/L	999.00 ppb	03:45:06
1	Sb 206.836†	1294.7	1246.8	506.82 ug/L	506.82 ppb	03:45:06
1	Se 196.026†	844.3	853.4	520.01 ug/L	520.01 ppb	03:45:06
1	Si 251.611†	71531.9	70146.6	2495.5 ug/L	2495.5 ppb	03:44:46
1	Sn 189.927†	2218.3	2179.4	498.69 ug/L	498.69 ppb	03:45:06
1	Ti 334.940†	253903.1	252277.0	499.64 ug/L	499.64 ppb	03:44:46
1	Tl 190.801†	1100.1	1122.9	512.43 ug/L	512.43 ppb	03:45:06
1	U 409.014†	12840.8	15059.7	497.64 ug/L	497.64 ppb	03:44:46
1	V 292.402†	63856.9	64771.6	509.71 ug/L	509.71 ppb	03:44:46
1	Zn 213.857†	48492.0	47129.2	501.75 ug/L	501.75 ppb	03:44:46
1	SiO2†	72732.8	71324.3	5444.2 ug/L	5444.2 ppb	03:46:13
2	Sc Radial	4566.7	4566.7	96.2 %		03:43:49
2	Y RADIAL	4816.2	4816.2	95.56 %		03:43:49
2	Al 396.153Radial†	5380.9	5676.8	5172.5 ug/L	5172.5 ppb	03:43:49
2	Ca 317.933Radial†	2794.2	2886.8	5166.0 ug/L	5166.0 ppb	03:44:09
2	Fe 238.204 Radial†	478.8	490.5	5106.8 ug/L	5106.8 ppb	03:44:09
2	K 766.490 Radial†	29385.4	28244.4	5327.3 ug/L	5327.3 ppb	03:43:49
2	Mg 279.077 IEC†	133.2	136.3	5373.0 ug/L	5373.0 ppb	03:44:09
2	Na 589.592 Radial†	28612.7	30484.8	9276.2 ug/L	9276.2 ppb	03:43:49
2	Sr 421.552†	68067.9	70749.2	504.11 ug/L	504.11 ppb	03:43:49
2	Sc 361.383	772754.2	772754.2	97.717 %		03:45:12
2	Y 371.029	683575.4	683575.4	96.688 %		03:45:12
2	Ag 328.068†	103274.0	105510.8	533.21 ug/L	533.21 ppb	03:45:17
2	As 188.979†	1164.8	1220.6	535.10 ug/L	535.10 ppb	03:45:37
2	B 249.677†	20144.6	20839.6	515.87 ug/L	515.87 ppb	03:45:17
2	Ba 233.527†	44821.7	45873.1	533.30 ug/L	533.30 ppb	03:45:17
2	Be 313.107†	1346225.7	1387017.0	543.85 ug/L	543.85 ppb	03:45:12
2	Cd 226.502†	37686.5	38749.7	532.61 ug/L	532.61 ppb	03:45:17
2	Co 228.616†	17752.4	18231.6	542.49 ug/L	542.49 ppb	03:45:17
2	Cr 267.716†	39204.6	40059.5	534.81 ug/L	534.81 ppb	03:45:17
2	Cu 324.752†	147953.3	143686.9	529.96 ug/L	529.96 ppb	03:45:17
2	Mn 257.610†	331454.7	338769.7	532.51 ug/L	532.51 ppb	03:45:17
2	Mo 202.031†	5696.9	5818.1	526.47 ug/L	526.47 ppb	03:45:37
2	Ni 231.604†	17056.6	17374.7	536.08 ug/L	536.08 ppb	03:45:17

2	P 214.914†	4917.8	4833.9	2519.1 ug/L	2519.1 ppb	03:45:37
2	Pb 220.353†	3180.9	3312.7	527.79 ug/L	527.79 ppb	03:45:37
2	S 181.975 Axial†	866.5	845.7	1049.5 ug/L	1049.5 ppb	03:45:37
2	Sb 206.836†	1319.9	1317.8	535.45 ug/L	535.45 ppb	03:45:37
2	Se 196.026†	849.8	888.6	541.08 ug/L	541.08 ppb	03:45:37
2	Si 251.611†	73105.5	74262.7	2642.0 ug/L	2642.0 ppb	03:45:17
2	Sn 189.927†	2227.4	2266.3	518.57 ug/L	518.57 ppb	03:45:37
2	Ti 334.940†	259503.8	266902.7	528.60 ug/L	528.60 ppb	03:45:17
2	Tl 190.801†	1090.1	1151.3	525.49 ug/L	525.49 ppb	03:45:37
2	U 409.014†	12916.0	15586.4	515.04 ug/L	515.04 ppb	03:45:17
2	V 292.402†	65324.4	68510.2	539.04 ug/L	539.04 ppb	03:45:17
2	Zn 213.857†	49479.7	49838.6	530.63 ug/L	530.63 ppb	03:45:17
2	SiO2†	72648.1	73785.5	5631.9 ug/L	5631.9 ppb	03:46:18
3	Sc Radial	4706.0	4706.0	99.1 %		03:44:14
3	Y RADIAL	4997.0	4997.0	99.14 %		03:44:14
3	Al 396.153Radial†	5334.6	5464.6	4978.6 ug/L	4978.6 ppb	03:44:14
3	Ca 317.933Radial†	2835.0	2842.0	5085.8 ug/L	5085.8 ppb	03:44:34
3	Fe 238.204 Radial†	482.3	479.4	4990.9 ug/L	4990.9 ppb	03:44:34
3	K 766.490 Radial†	29262.6	27216.4	5133.3 ug/L	5133.3 ppb	03:44:14
3	Mg 279.077 IEC†	135.1	134.2	5289.9 ug/L	5289.9 ppb	03:44:34
3	Na 589.592 Radial†	28284.6	29273.5	8907.6 ug/L	8907.6 ppb	03:44:14
3	Sr 421.552†	67618.3	68201.4	485.95 ug/L	485.95 ppb	03:44:14
3	Sc 361.383	786084.8	786084.8	99.402 %		03:45:42
3	Y 371.029	695392.9	695392.9	98.360 %		03:45:42
3	Ag 328.068†	102170.6	102608.6	518.54 ug/L	518.54 ppb	03:45:48
3	As 188.979†	1156.7	1192.3	522.66 ug/L	522.66 ppb	03:46:08
3	B 249.677†	19977.3	20321.7	503.05 ug/L	503.05 ppb	03:45:48
3	Ba 233.527†	44321.5	44592.1	518.40 ug/L	518.40 ppb	03:45:48
3	Be 313.107†	1308473.0	1325674.2	519.82 ug/L	519.82 ppb	03:45:42
3	Cd 226.502†	37244.2	37650.8	517.50 ug/L	517.50 ppb	03:45:48
3	Co 228.616†	17579.3	17749.4	528.15 ug/L	528.15 ppb	03:45:48
3	Cr 267.716†	38759.8	38931.6	519.75 ug/L	519.75 ppb	03:45:48
3	Cu 324.752†	146462.0	139619.1	514.95 ug/L	514.95 ppb	03:45:48
3	Mn 257.610†	327885.8	329427.2	517.83 ug/L	517.83 ppb	03:45:48
3	Mo 202.031†	5697.2	5719.5	517.54 ug/L	517.54 ppb	03:46:08
3	Ni 231.604†	16803.2	16823.8	519.08 ug/L	519.08 ppb	03:45:48
3	P 214.914†	4903.4	4734.0	2467.8 ug/L	2467.8 ppb	03:46:08
3	Pb 220.353†	3173.0	3249.6	517.72 ug/L	517.72 ppb	03:46:08
3	S 181.975 Axial†	861.5	825.7	1024.7 ug/L	1024.7 ppb	03:46:08
3	Sb 206.836†	1317.5	1292.6	525.23 ug/L	525.23 ppb	03:46:08
3	Se 196.026†	853.5	877.6	534.22 ug/L	534.22 ppb	03:46:08
3	Si 251.611†	72186.9	72069.9	2563.9 ug/L	2563.9 ppb	03:45:48
3	Sn 189.927†	2227.4	2227.7	509.74 ug/L	509.74 ppb	03:46:08
3	Ti 334.940†	256529.1	259406.6	513.75 ug/L	513.75 ppb	03:45:48
3	Tl 190.801†	1093.8	1136.1	518.48 ug/L	518.48 ppb	03:46:08
3	U 409.014†	12922.4	15368.7	507.87 ug/L	507.87 ppb	03:45:48
3	V 292.402†	64500.0	66547.2	523.69 ug/L	523.69 ppb	03:45:48
3	Zn 213.857†	49068.0	48565.8	517.10 ug/L	517.10 ppb	03:45:48
3	SiO2†	72083.4	71956.5	5492.2 ug/L	5492.2 ppb	03:46:23

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	786327.2	99.433 %	1.7319			1.74%
Sc Radial	4645.2	97.8 %	1.50			1.53%
Y 371.029	695748.8	98.410 %	1.7476			1.78%
Y RADIAL	4906.1	97.34 %	1.794			1.84%
Ag 328.068†	102647.7	518.76 ug/L	14.342	518.76 ppb	14.342	2.76%
QC value within limits for Ag 328.068 Recovery = 103.75%						
Al 396.153Radial†	5590.1	5093.6 ug/L	101.86	5093.6 ppb	101.86	2.00%
QC value within limits for Al 396.153Radial Recovery = 101.87%						
As 188.979†	1195.5	524.08 ug/L	10.388	524.08 ppb	10.388	1.98%
QC value within limits for As 188.979 Recovery = 104.82%						
B 249.677†	20246.9	501.18 ug/L	15.708	501.18 ppb	15.708	3.13%
QC value within limits for B 249.677 Recovery = 100.24%						
Ba 233.527†	44613.2	518.65 ug/L	14.521	518.65 ppb	14.521	2.80%
QC value within limits for Ba 233.527 Recovery = 103.73%						
Be 313.107†	1341676.0	526.08 ug/L	15.613	526.08 ppb	15.613	2.97%
QC value within limits for Be 313.107 Recovery = 105.22%						
Ca 317.933Radial†	2868.3	5133.0 ug/L	41.91	5133.0 ppb	41.91	0.82%

QC value within limits for Ca 317.933 Radial Recovery = 102.66%						
Cd 226.502†	37713.3	518.35 ug/L	13.847	518.35 ppb	13.847	2.67%
QC value within limits for Cd 226.502 Recovery = 103.67%						
Co 228.616†	17744.0	527.99 ug/L	14.581	527.99 ppb	14.581	2.76%
QC value within limits for Co 228.616 Recovery = 105.60%						
Cr 267.716†	38968.3	520.24 ug/L	14.330	520.24 ppb	14.330	2.75%
QC value within limits for Cr 267.716 Recovery = 104.05%						
Cu 324.752†	139481.8	514.45 ug/L	15.765	514.45 ppb	15.765	3.06%
QC value within limits for Cu 324.752 Recovery = 102.89%						
Fe 238.204 Radial†	485.5	5054.8 ug/L	58.86	5054.8 ppb	58.86	1.16%
QC value within limits for Fe 238.204 Radial Recovery = 101.10%						
K 766.490 Radial†	27799.5	5243.3 ug/L	99.56	5243.3 ppb	99.56	1.90%
QC value within limits for K 766.490 Radial Recovery = 104.87%						
Mg 279.077 IEC†	135.1	5324.3 ug/L	43.39	5324.3 ppb	43.39	0.82%
QC value within limits for Mg 279.077 IEC Recovery = 106.49%						
Mn 257.610†	329468.0	517.90 ug/L	14.582	517.90 ppb	14.582	2.82%
QC value within limits for Mn 257.610 Recovery = 103.58%						
Mo 202.031†	5704.5	516.19 ug/L	11.011	516.19 ppb	11.011	2.13%
QC value within limits for Mo 202.031 Recovery = 103.24%						
Na 589.592 Radial†	30094.7	9157.5 ug/L	216.50	9157.5 ppb	216.50	2.36%
QC value within limits for Na 589.592 Radial Recovery = 91.57%						
Ni 231.604†	16869.8	520.50 ug/L	14.919	520.50 ppb	14.919	2.87%
QC value within limits for Ni 231.604 Recovery = 104.10%						
P 214.914†	4736.7	2469.4 ug/L	48.98	2469.4 ppb	48.98	1.98%
QC value within limits for P 214.914 Recovery = 98.77%						
Pb 220.353†	3249.2	517.68 ug/L	10.130	517.68 ppb	10.130	1.96%
QC value within limits for Pb 220.353 Recovery = 103.54%						
S 181.975 Axial†	825.4	1024.4 ug/L	25.26	1024.4 ppb	25.26	2.47%
QC value within limits for S 181.975 Axial Recovery = 102.44%						
Sb 206.836†	1285.7	522.50 ug/L	14.509	522.50 ppb	14.509	2.78%
QC value within limits for Sb 206.836 Recovery = 104.50%						
Se 196.026†	873.2	531.77 ug/L	10.746	531.77 ppb	10.746	2.02%
QC value within limits for Se 196.026 Recovery = 106.35%						
Si 251.611†	72159.7	2567.1 ug/L	73.32	2567.1 ppb	73.32	2.86%
QC value within limits for Si 251.611 Recovery = 102.68%						
Sn 189.927†	2224.5	509.00 ug/L	9.959	509.00 ppb	9.959	1.96%
QC value within limits for Sn 189.927 Recovery = 101.80%						
Sr 421.552†	69909.1	498.12 ug/L	10.538	498.12 ppb	10.538	2.12%
QC value within limits for Sr 421.552 Recovery = 99.62%						
Ti 334.940†	259528.8	514.00 ug/L	14.479	514.00 ppb	14.479	2.82%
QC value within limits for Ti 334.940 Recovery = 102.80%						
Tl 190.801†	1136.8	518.80 ug/L	6.539	518.80 ppb	6.539	1.26%
QC value within limits for Tl 190.801 Recovery = 103.76%						
U 409.014†	15338.3	506.85 ug/L	8.742	506.85 ppb	8.742	1.72%
QC value within limits for U 409.014 Recovery = 101.37%						
V 292.402†	66609.7	524.15 ug/L	14.670	524.15 ppb	14.670	2.80%
QC value within limits for V 292.402 Recovery = 104.83%						
Zn 213.857†	48511.2	516.49 ug/L	14.447	516.49 ppb	14.447	2.80%
QC value within limits for Zn 213.857 Recovery = 103.30%						
SiO2†	72355.4	5522.8 ug/L	97.53	5522.8 ppb	97.53	1.77%
QC value within limits for SiO2 Recovery = 103.28%						

All analyte(s) passed QC.

Sequence No.: 82

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/5/2010 03:48:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4773.1	4773.1	101 %		03:50:26
1	Y RADIAL	5065.1	5065.1	100.5 %		03:50:26
1	Al 396.153Radial†	-59.5	23.3	21.327 ug/L	21.327 ppb	03:50:46
1	Ca 317.933Radial†	21.6	3.3	5.8526 ug/L	5.8526 ppb	03:50:46
1	Fe 238.204 Radial†	6.1	-1.2	-12.590 ug/L	-12.590 ppb	03:50:46
1	K 766.490 Radial†	2487.7	167.8	31.709 ug/L	31.709 ppb	03:50:26
1	Mg 279.077 IEC†	2.4	0.3	11.764 ug/L	11.764 ppb	03:50:46
1	Na 589.592 Radial†	-879.6	-137.9	-41.951 ug/L	-41.951 ppb	03:50:26
1	Sr 421.552†	51.7	32.5	0.2317 ug/L	0.2317 ppb	03:50:26
1	Sc 361.383	800257.9	800257.9	101.19 %		03:51:43
1	Y 371.029	714681.1	714681.1	101.09 %		03:51:43
1	Ag 328.068†	274.2	94.5	0.4700 ug/L	0.4700 ppb	03:51:43
1	As 188.979†	-30.8	-1.8	-0.7986 ug/L	-0.7986 ppb	03:52:03
1	B 249.677†	-371.6	-143.0	-3.5557 ug/L	-3.5557 ppb	03:52:03
1	Ba 233.527†	4.3	8.3	0.0954 ug/L	0.0954 ppb	03:52:03
1	Be 313.107†	-9122.8	317.4	0.1245 ug/L	0.1245 ppb	03:51:43
1	Cd 226.502†	-197.0	-12.0	-0.1640 ug/L	-0.1640 ppb	03:52:03
1	Co 228.616†	-52.5	12.5	0.3717 ug/L	0.3717 ppb	03:52:03
1	Cr 267.716†	55.7	-6.2	-0.0827 ug/L	-0.0827 ppb	03:52:03
1	Cu 324.752†	7776.5	-39.0	-0.1449 ug/L	-0.1449 ppb	03:51:43
1	Mn 257.610†	501.1	64.7	0.0999 ug/L	0.0999 ppb	03:52:03
1	Mo 202.031†	14.1	2.0	0.1768 ug/L	0.1768 ppb	03:52:03
1	Ni 231.604†	89.2	7.7	0.2374 ug/L	0.2374 ppb	03:52:03
1	P 214.914†	196.7	-4.5	-2.4060 ug/L	-2.4060 ppb	03:52:03
1	Pb 220.353†	-56.7	1.5	0.2371 ug/L	0.2371 ppb	03:52:03
1	S 181.975 Axial†	42.1	0.6	0.6949 ug/L	0.6949 ppb	03:52:03
1	Sb 206.836†	36.8	3.5	1.3680 ug/L	1.3680 ppb	03:52:03
1	Se 196.026†	-19.6	-0.4	-0.2433 ug/L	-0.2433 ppb	03:52:03
1	Si 251.611†	657.4	98.5	3.5115 ug/L	3.5115 ppb	03:52:03
1	Sn 189.927†	9.2	-3.9	-0.8962 ug/L	-0.8962 ppb	03:52:03
1	Ti 334.940†	-1278.3	71.5	0.1413 ug/L	0.1413 ppb	03:51:43
1	Tl 190.801†	-31.0	5.1	2.3078 ug/L	2.3078 ppb	03:52:03
1	U 409.014†	-2380.2	16.5	0.5481 ug/L	0.5481 ppb	03:51:43
1	V 292.402†	-1695.8	-16.4	-0.1220 ug/L	-0.1220 ppb	03:51:43
1	Zn 213.857†	757.3	-49.0	-0.5254 ug/L	-0.5254 ppb	03:52:03
1	SiO2†	683.4	115.0	8.7928 ug/L	8.7928 ppb	03:52:59
2	Sc Radial	4758.4	4758.4	100 %		03:50:51
2	Y RADIAL	5076.3	5076.3	100.7 %		03:50:51
2	Al 396.153Radial†	-66.2	16.5	15.039 ug/L	15.039 ppb	03:51:11
2	Ca 317.933Radial†	17.2	-1.1	-2.0186 ug/L	-2.0186 ppb	03:51:11
2	Fe 238.204 Radial†	7.3	-0.0	-0.0065 ug/L	-0.0065 ppb	03:51:11
2	K 766.490 Radial†	2609.5	297.0	56.107 ug/L	56.107 ppb	03:50:51
2	Mg 279.077 IEC†	2.1	0.0	0.9339 ug/L	0.9339 ppb	03:51:11
2	Na 589.592 Radial†	-868.0	-129.0	-39.267 ug/L	-39.267 ppb	03:50:51
2	Sr 421.552†	18.4	-0.6	-0.0040 ug/L	-0.0040 ppb	03:50:51
2	Sc 361.383	720281.8	720281.8	91.081 %		03:52:08
2	Y 371.029	643597.2	643597.2	91.033 %		03:52:08
2	Ag 328.068†	235.7	82.3	0.4182 ug/L	0.4182 ppb	03:52:08
2	As 188.979†	-33.2	-7.9	-3.4174 ug/L	-3.4174 ppb	03:52:29
2	B 249.677†	-368.3	-180.2	-4.4808 ug/L	-4.4808 ppb	03:52:29
2	Ba 233.527†	10.0	15.0	0.1706 ug/L	0.1706 ppb	03:52:29
2	Be 313.107†	-9166.6	-731.7	-0.2861 ug/L	-0.2861 ppb	03:52:08
2	Cd 226.502†	-199.1	-36.0	-0.4965 ug/L	-0.4965 ppb	03:52:29
2	Co 228.616†	-53.2	6.0	0.1796 ug/L	0.1796 ppb	03:52:29
2	Cr 267.716†	69.9	15.5	0.2099 ug/L	0.2099 ppb	03:52:29
2	Cu 324.752†	7747.6	782.5	2.8931 ug/L	2.8931 ppb	03:52:08
2	Mn 257.610†	459.7	74.3	0.1166 ug/L	0.1166 ppb	03:52:29
2	Mo 202.031†	17.5	7.2	0.6505 ug/L	0.6505 ppb	03:52:29
2	Ni 231.604†	110.4	40.8	1.2583 ug/L	1.2583 ppb	03:52:29

2	P 214.914†	194.4	14.6	7.3595 ug/L	7.3595 ppb	03:52:29
2	Pb 220.353†	-82.4	-32.9	-5.2241 ug/L	-5.2241 ppb	03:52:29
2	S 181.975 Axial†	48.2	11.8	14.703 ug/L	14.703 ppb	03:52:29
2	Sb 206.836†	38.4	9.3	3.6626 ug/L	3.6626 ppb	03:52:29
2	Se 196.026†	-23.0	-6.3	-3.7224 ug/L	-3.7224 ppb	03:52:29
2	Si 251.611†	662.3	176.0	6.2689 ug/L	6.2689 ppb	03:52:29
2	Sn 189.927†	14.7	3.0	0.6945 ug/L	0.6945 ppb	03:52:29
2	Ti 334.940†	-1170.7	49.4	0.1031 ug/L	0.1031 ppb	03:52:08
2	Tl 190.801†	-36.2	-4.0	-1.8150 ug/L	-1.8150 ppb	03:52:29
2	U 409.014†	-2504.6	-381.3	-12.642 ug/L	-12.642 ppb	03:52:08
2	V 292.402†	-1668.5	-172.6	-1.3551 ug/L	-1.3551 ppb	03:52:08
2	Zn 213.857†	780.4	59.6	0.6283 ug/L	0.6283 ppb	03:52:29
2	SiO2†	677.8	183.9	14.052 ug/L	14.052 ppb	03:53:04
3	Sc Radial	4684.3	4684.3	98.7 %		03:51:16
3	Y RADIAL	4944.9	4944.9	98.11 %		03:51:16
3	Al 396.153Radial†	-53.3	28.5	26.045 ug/L	26.045 ppb	03:51:36
3	Ca 317.933Radial†	22.5	4.6	8.2266 ug/L	8.2266 ppb	03:51:36
3	Fe 238.204 Radial†	8.4	1.2	12.791 ug/L	12.791 ppb	03:51:36
3	K 766.490 Radial†	2507.7	235.0	44.397 ug/L	44.397 ppb	03:51:16
3	Mg 279.077 IEC†	3.8	1.7	68.935 ug/L	68.935 ppb	03:51:36
3	Na 589.592 Radial†	-864.4	-139.1	-42.326 ug/L	-42.326 ppb	03:51:16
3	Sr 421.552†	22.3	3.7	0.0260 ug/L	0.0260 ppb	03:51:16
3	Sc 361.383	793799.4	793799.4	100.38 %		03:52:34
3	Y 371.029	708830.0	708830.0	100.26 %		03:52:34
3	Ag 328.068†	283.8	106.3	0.5407 ug/L	0.5407 ppb	03:52:34
3	As 188.979†	-25.1	3.6	1.5838 ug/L	1.5838 ppb	03:52:54
3	B 249.677†	-370.2	-144.5	-3.5967 ug/L	-3.5967 ppb	03:52:54
3	Ba 233.527†	17.8	21.8	0.2535 ug/L	0.2535 ppb	03:52:54
3	Be 313.107†	-9149.1	217.9	0.0853 ug/L	0.0853 ppb	03:52:34
3	Cd 226.502†	-184.6	-1.3	-0.0187 ug/L	-0.0187 ppb	03:52:54
3	Co 228.616†	-57.6	7.0	0.2084 ug/L	0.2084 ppb	03:52:54
3	Cr 267.716†	79.1	17.6	0.2365 ug/L	0.2365 ppb	03:52:54
3	Cu 324.752†	7765.7	12.7	0.0490 ug/L	0.0490 ppb	03:52:34
3	Mn 257.610†	492.0	59.7	0.0922 ug/L	0.0922 ppb	03:52:54
3	Mo 202.031†	16.4	4.4	0.3958 ug/L	0.3958 ppb	03:52:54
3	Ni 231.604†	101.7	20.8	0.6423 ug/L	0.6423 ppb	03:52:54
3	P 214.914†	192.7	-6.9	-3.7470 ug/L	-3.7470 ppb	03:52:54
3	Pb 220.353†	-59.4	-1.6	-0.2549 ug/L	-0.2549 ppb	03:52:54
3	S 181.975 Axial†	50.4	9.2	11.376 ug/L	11.376 ppb	03:52:54
3	Sb 206.836†	29.4	-3.6	-1.4004 ug/L	-1.4004 ppb	03:52:54
3	Se 196.026†	-20.2	-1.2	-0.6636 ug/L	-0.6636 ppb	03:52:54
3	Si 251.611†	648.4	94.8	3.3767 ug/L	3.3767 ppb	03:52:54
3	Sn 189.927†	10.4	-2.7	-0.6152 ug/L	-0.6152 ppb	03:52:54
3	Ti 334.940†	-1332.5	7.2	0.0108 ug/L	0.0108 ppb	03:52:34
3	Tl 190.801†	-24.0	11.7	5.3248 ug/L	5.3248 ppb	03:52:54
3	U 409.014†	-2455.8	-78.0	-2.5873 ug/L	-2.5873 ppb	03:52:34
3	V 292.402†	-1638.0	27.5	0.2132 ug/L	0.2132 ppb	03:52:34
3	Zn 213.857†	764.3	-35.8	-0.3912 ug/L	-0.3912 ppb	03:52:54
3	SiO2†	655.1	92.3	7.0501 ug/L	7.0501 ppb	03:53:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	771446.4	97.551 %	5.6179			5.76%
Sc Radial	4738.6	99.8 %	1.00			1.00%
Y 371.029	689036.1	97.460 %	5.5814			5.73%
Y RADIAL	5028.8	99.77 %	1.445			1.45%
Ag 328.068†	94.4	0.4763 ug/L	0.06150	0.4763 ppb	0.06150	12.91%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	22.7	20.804 ug/L	5.5219	20.804 ppb	5.5219	26.54%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.0	-0.8774 ug/L	2.50153	-0.8774 ppb	2.50153	285.12%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-155.9	-3.8777 ug/L	0.52267	-3.8777 ppb	0.52267	13.48%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	15.0	0.1732 ug/L	0.07904	0.1732 ppb	0.07904	45.64%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-65.5	-0.0254 ug/L	0.22656	-0.0254 ppb	0.22656	890.65%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.2	4.0202 ug/L	5.36273	4.0202 ppb	5.36273	133.39%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd	226.502†	-16.4	-0.2264 ug/L	0.24492	-0.2264 ppb	0.24492 108.19%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co	228.616†	8.5	0.2532 ug/L	0.10357	0.2532 ppb	0.10357 40.90%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr	267.716†	9.0	0.1212 ug/L	0.17711	0.1212 ppb	0.17711 146.10%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	252.1	0.9324 ug/L	1.70076	0.9324 ppb	1.70076 182.41%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	238.204 Radial†	0.0	0.0649 ug/L	12.69048	0.0649 ppb	12.69048 >999.9%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K	766.490 Radial†	233.3	44.071 ug/L	12.2024	44.071 ppb	12.2024 27.69%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg	279.077 IEC†	0.7	27.211 ug/L	36.5378	27.211 ppb	36.5378 134.28%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn	257.610†	66.2	0.1029 ug/L	0.01248	0.1029 ppb	0.01248 12.13%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo	202.031†	4.5	0.4077 ug/L	0.23706	0.4077 ppb	0.23706 58.15%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592 Radial†	-135.3	-41.181 ug/L	1.6684	-41.181 ppb	1.6684 4.05%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni	231.604†	23.1	0.7127 ug/L	0.51409	0.7127 ppb	0.51409 72.14%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	1.1	0.4022 ug/L	6.06242	0.4022 ppb	6.06242 >999.9%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb	220.353†	-11.0	-1.7473 ug/L	3.02104	-1.7473 ppb	3.02104 172.90%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S	181.975 Axial†	7.2	8.9246 ug/L	7.31884	8.9246 ppb	7.31884 82.01%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb	206.836†	3.1	1.2101 ug/L	2.53516	1.2101 ppb	2.53516 209.51%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	-2.6	-1.5431 ug/L	1.89900	-1.5431 ppb	1.89900 123.06%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si	251.611†	123.1	4.3857 ug/L	1.63227	4.3857 ppb	1.63227 37.22%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn	189.927†	-1.2	-0.2723 ug/L	0.84894	-0.2723 ppb	0.84894 311.78%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	421.552†	11.9	0.0846 ug/L	0.12828	0.0846 ppb	0.12828 151.71%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti	334.940†	42.7	0.0851 ug/L	0.06707	0.0851 ppb	0.06707 78.83%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl	190.801†	4.3	1.9392 ug/L	3.58414	1.9392 ppb	3.58414 184.83%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U	409.014†	-147.6	-4.8937 ug/L	6.89093	-4.8937 ppb	6.89093 140.81%
QC value within limits for U 409.014 Recovery = Not calculated						
V	292.402†	-53.8	-0.4213 ug/L	0.82593	-0.4213 ppb	0.82593 196.05%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn	213.857†	-8.4	-0.0961 ug/L	0.63092	-0.0961 ppb	0.63092 656.33%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†		130.4	9.9649 ug/L	3.64520	9.9649 ppb	3.64520 36.58%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 83

Sample ID: 1202042566|952949|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 100

Date Collected: 3/5/2010 03:55:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042566|952949|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4758.2	4758.2	100 %		03:57:14
1	Y RADIAL	5037.0	5037.0	99.94 %		03:57:14
1	Al 396.153Radial†	-67.9	14.7	13.467 ug/L	13.467 ppb	03:57:34
1	Ca 317.933Radial†	21.4	3.1	5.4815 ug/L	5.4815 ppb	03:57:34
1	Fe 238.204 Radial†	7.6	0.3	3.3500 ug/L	3.3500 ppb	03:57:34
1	K 766.490 Radial†	2592.6	280.3	52.901 ug/L	52.901 ppb	03:57:14
1	Mg 279.077 IEC†	1.7	-0.4	-17.347 ug/L	-17.347 ppb	03:57:34
1	Na 589.592 Radial†	-535.4	202.9	61.727 ug/L	61.727 ppb	03:57:14
1	Sr 421.552†	83.7	64.5	0.4598 ug/L	0.4598 ppb	03:57:14
1	Sc 361.383	800568.5	800568.5	101.23 %		03:58:31
1	Y 371.029	721309.2	721309.2	102.03 %		03:58:31
1	Ag 328.068†	138.4	-39.7	-0.1950 ug/L	-0.1950 ppb	03:58:31
1	As 188.979†	-30.3	-1.3	-0.5598 ug/L	-0.5598 ppb	03:58:51
1	B 249.677†	-438.6	-209.0	-5.1982 ug/L	-5.1982 ppb	03:58:51
1	Ba 233.527†	9.4	13.3	0.1542 ug/L	0.1542 ppb	03:58:51
1	Be 313.107†	-9117.8	325.9	0.1282 ug/L	0.1282 ppb	03:58:31
1	Cd 226.502†	-186.9	-2.0	-0.0285 ug/L	-0.0285 ppb	03:58:51
1	Co 228.616†	-66.0	-0.8	-0.0257 ug/L	-0.0257 ppb	03:58:51
1	Cr 267.716†	66.8	4.8	0.0658 ug/L	0.0658 ppb	03:58:51
1	Cu 324.752†	7800.3	-18.5	-0.0657 ug/L	-0.0657 ppb	03:58:31
1	Mn 257.610†	567.0	129.6	0.2047 ug/L	0.2047 ppb	03:58:51
1	Mo 202.031†	8.7	-3.4	-0.3101 ug/L	-0.3101 ppb	03:58:51
1	Ni 231.604†	75.6	-5.8	-0.1800 ug/L	-0.1800 ppb	03:58:51
1	P 214.914†	209.2	7.8	4.3362 ug/L	4.3362 ppb	03:58:51
1	Pb 220.353†	-69.4	-11.0	-1.7467 ug/L	-1.7467 ppb	03:58:51
1	S 181.975 Axial†	46.7	5.1	6.3638 ug/L	6.3638 ppb	03:58:51
1	Sb 206.836†	30.2	-3.1	-1.0436 ug/L	-1.0436 ppb	03:58:51
1	Se 196.026†	-21.1	-1.8	-1.0860 ug/L	-1.0860 ppb	03:58:51
1	Si 251.611†	861.1	299.5	10.684 ug/L	10.684 ppb	03:58:51
1	Sn 189.927†	59.5	45.7	10.449 ug/L	10.449 ppb	03:58:51
1	Ti 334.940†	-1185.2	164.0	0.3290 ug/L	0.3290 ppb	03:58:31
1	Tl 190.801†	-29.9	6.2	2.8107 ug/L	2.8107 ppb	03:58:51
1	U 409.014†	-2527.8	-128.4	-4.2569 ug/L	-4.2569 ppb	03:58:31
1	V 292.402†	-1672.9	6.8	0.0393 ug/L	0.0393 ppb	03:58:31
1	Zn 213.857†	752.5	-54.0	-0.5794 ug/L	-0.5794 ppb	03:58:51
1	SiO2†	885.2	314.0	24.039 ug/L	24.039 ppb	03:59:47
2	Sc Radial	4761.8	4761.8	100 %		03:57:39
2	Y RADIAL	5022.0	5022.0	99.64 %		03:57:39
2	Al 396.153Radial†	-79.1	3.6	3.3359 ug/L	3.3359 ppb	03:57:59
2	Ca 317.933Radial†	21.0	2.7	4.8261 ug/L	4.8261 ppb	03:57:59
2	Fe 238.204 Radial†	9.6	2.3	24.356 ug/L	24.356 ppb	03:57:59
2	K 766.490 Radial†	2537.4	223.3	42.124 ug/L	42.124 ppb	03:57:39
2	Mg 279.077 IEC†	2.2	0.1	3.3013 ug/L	3.3013 ppb	03:57:59
2	Na 589.592 Radial†	-463.8	274.6	83.563 ug/L	83.563 ppb	03:57:39
2	Sr 421.552†	-7.3	-26.2	-0.1870 ug/L	-0.1870 ppb	03:57:39
2	Sc 361.383	795497.3	795497.3	100.59 %		03:58:56
2	Y 371.029	713506.1	713506.1	100.92 %		03:58:56
2	Ag 328.068†	158.2	-19.2	-0.0914 ug/L	-0.0914 ppb	03:58:56
2	As 188.979†	-29.5	-0.7	-0.2948 ug/L	-0.2948 ppb	03:59:16
2	B 249.677†	-426.9	-200.2	-4.9825 ug/L	-4.9825 ppb	03:59:16
2	Ba 233.527†	7.2	11.1	0.1286 ug/L	0.1286 ppb	03:59:16
2	Be 313.107†	-9141.2	245.1	0.0968 ug/L	0.0968 ppb	03:58:56
2	Cd 226.502†	-189.7	-6.0	-0.0840 ug/L	-0.0840 ppb	03:59:16
2	Co 228.616†	-55.6	9.0	0.2666 ug/L	0.2666 ppb	03:59:16
2	Cr 267.716†	51.8	-9.7	-0.1296 ug/L	-0.1296 ppb	03:59:16
2	Cu 324.752†	7678.4	-90.6	-0.3328 ug/L	-0.3328 ppb	03:58:56
2	Mn 257.610†	593.4	159.5	0.2528 ug/L	0.2528 ppb	03:59:16
2	Mo 202.031†	4.4	-7.6	-0.6856 ug/L	-0.6856 ppb	03:59:16
2	Ni 231.604†	104.8	23.7	0.7315 ug/L	0.7315 ppb	03:59:16

2	P 214.914†	210.4	10.3	5.7754 ug/L	5.7754 ppb	03:59:16
2	Pb 220.353†	-58.0	-0.2	-0.0309 ug/L	-0.0309 ppb	03:59:16
2	S 181.975 Axial†	43.4	2.1	2.5781 ug/L	2.5781 ppb	03:59:16
2	Sb 206.836†	38.9	5.8	2.4682 ug/L	2.4682 ppb	03:59:16
2	Se 196.026†	-11.8	7.3	4.3707 ug/L	4.3707 ppb	03:59:16
2	Si 251.611†	858.0	301.8	10.771 ug/L	10.771 ppb	03:59:16
2	Sn 189.927†	69.0	55.5	12.693 ug/L	12.693 ppb	03:59:16
2	Ti 334.940†	-1141.2	200.2	0.3972 ug/L	0.3972 ppb	03:58:56
2	Tl 190.801†	-32.5	3.4	1.5558 ug/L	1.5558 ppb	03:59:16
2	U 409.014†	-2387.2	-4.5	-0.1533 ug/L	-0.1533 ppb	03:58:56
2	V 292.402†	-1752.9	-83.2	-0.6602 ug/L	-0.6602 ppb	03:58:56
2	Zn 213.857†	740.3	-61.3	-0.6666 ug/L	-0.6666 ppb	03:59:16
2	SiO2†	875.7	310.2	23.757 ug/L	23.757 ppb	03:59:52
3	Sc Radial	4819.0	4819.0	101 %		03:58:04
3	Y RADIAL	5096.0	5096.0	101.1 %		03:58:04
3	Al 396.153Radial†	-63.3	20.1	18.446 ug/L	18.446 ppb	03:58:24
3	Ca 317.933Radial†	24.8	6.2	11.066 ug/L	11.066 ppb	03:58:24
3	Fe 238.204 Radial†	9.8	2.4	24.440 ug/L	24.440 ppb	03:58:24
3	K 766.490 Radial†	2660.4	314.4	59.334 ug/L	59.334 ppb	03:58:04
3	Mg 279.077 IEC†	0.8	-1.3	-52.020 ug/L	-52.020 ppb	03:58:24
3	Na 589.592 Radial†	-533.9	211.0	64.217 ug/L	64.217 ppb	03:58:04
3	Sr 421.552†	52.5	32.8	0.2337 ug/L	0.2337 ppb	03:58:04
3	Sc 361.383	794230.1	794230.1	100.43 %		03:59:21
3	Y 371.029	712613.4	712613.4	100.80 %		03:59:21
3	Ag 328.068†	236.7	59.2	0.3036 ug/L	0.3036 ppb	03:59:21
3	As 188.979†	-24.8	3.9	1.7031 ug/L	1.7031 ppb	03:59:41
3	B 249.677†	-428.0	-201.9	-5.0261 ug/L	-5.0261 ppb	03:59:41
3	Ba 233.527†	22.7	26.7	0.3096 ug/L	0.3096 ppb	03:59:41
3	Be 313.107†	-9102.4	269.3	0.1064 ug/L	0.1064 ppb	03:59:21
3	Cd 226.502†	-196.9	-13.4	-0.1862 ug/L	-0.1862 ppb	03:59:41
3	Co 228.616†	-52.6	11.9	0.3538 ug/L	0.3538 ppb	03:59:41
3	Cr 267.716†	71.3	9.8	0.1306 ug/L	0.1306 ppb	03:59:41
3	Cu 324.752†	7697.0	-59.8	-0.2198 ug/L	-0.2198 ppb	03:59:21
3	Mn 257.610†	573.9	141.0	0.2260 ug/L	0.2260 ppb	03:59:41
3	Mo 202.031†	11.0	-1.0	-0.0902 ug/L	-0.0902 ppb	03:59:41
3	Ni 231.604†	104.2	23.3	0.7179 ug/L	0.7179 ppb	03:59:41
3	P 214.914†	207.1	7.4	4.1300 ug/L	4.1300 ppb	03:59:41
3	Pb 220.353†	-72.6	-14.8	-2.3471 ug/L	-2.3471 ppb	03:59:41
3	S 181.975 Axial†	45.1	3.8	4.7678 ug/L	4.7678 ppb	03:59:41
3	Sb 206.836†	36.7	3.6	1.5910 ug/L	1.5910 ppb	03:59:41
3	Se 196.026†	-13.2	5.9	3.5367 ug/L	3.5367 ppb	03:59:41
3	Si 251.611†	852.4	297.6	10.615 ug/L	10.615 ppb	03:59:41
3	Sn 189.927†	62.2	48.9	11.166 ug/L	11.166 ppb	03:59:41
3	Ti 334.940†	-1114.2	225.3	0.4518 ug/L	0.4518 ppb	03:59:21
3	Tl 190.801†	-24.7	11.1	5.0345 ug/L	5.0345 ppb	03:59:41
3	U 409.014†	-2354.7	24.0	0.7933 ug/L	0.7933 ppb	03:59:21
3	V 292.402†	-1679.0	-12.4	-0.1014 ug/L	-0.1014 ppb	03:59:21
3	Zn 213.857†	742.8	-57.7	-0.6276 ug/L	-0.6276 ppb	03:59:41
3	SiO2†	882.6	318.4	24.371 ug/L	24.371 ppb	03:59:57

Mean Data: 1202042566|952949|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	796765.3	100.75 %	0.424			0.42%
Sc Radial	4779.7	101 %	0.7			0.71%
Y 371.029	715809.6	101.25 %	0.677			0.67%
Y RADIAL	5051.6	100.2 %	0.78			0.77%
Ag 328.068†	0.1	0.0057 ug/L	0.26313	0.0057 ppb	0.26313	>999.9%
Al 396.153Radial†	12.8	11.750 ug/L	7.7001	11.750 ppb	7.7001	65.53%
As 188.979†	0.6	0.2828 ug/L	1.23711	0.2828 ppb	1.23711	437.39%
B 249.677†	-203.7	-5.0689 ug/L	0.11406	-5.0689 ppb	0.11406	2.25%
Ba 233.527†	17.0	0.1975 ug/L	0.09797	0.1975 ppb	0.09797	49.62%
Be 313.107†	280.1	0.1105 ug/L	0.01611	0.1105 ppb	0.01611	14.58%
Ca 317.933Radial†	4.0	7.1247 ug/L	3.42936	7.1247 ppb	3.42936	48.13%
Cd 226.502†	-7.1	-0.0996 ug/L	0.08001	-0.0996 ppb	0.08001	80.37%
Co 228.616†	6.7	0.1982 ug/L	0.19876	0.1982 ppb	0.19876	100.27%
Cr 267.716†	1.6	0.0223 ug/L	0.13548	0.0223 ppb	0.13548	608.31%
Cu 324.752†	-56.3	-0.2061 ug/L	0.13410	-0.2061 ppb	0.13410	65.07%
Fe 238.204 Radial†	1.7	17.382 ug/L	12.1520	17.382 ppb	12.1520	69.91%
K 766.490 Radial†	272.6	51.453 ug/L	8.6958	51.453 ppb	8.6958	16.90%

Mg 279.077 IEC†	-0.6	-22.022 ug/L	27.9551	-22.022 ppb	27.9551	126.94%
Mn 257.610†	143.4	0.2279 ug/L	0.02412	0.2279 ppb	0.02412	10.59%
Mo 202.031†	-4.0	-0.3620 ug/L	0.30104	-0.3620 ppb	0.30104	83.17%
Na 589.592 Radial†	229.5	69.836 ug/L	11.9531	69.836 ppb	11.9531	17.12%
Ni 231.604†	13.7	0.4231 ug/L	0.52237	0.4231 ppb	0.52237	123.47%
P 214.914†	8.5	4.7472 ug/L	0.89640	4.7472 ppb	0.89640	18.88%
Pb 220.353†	-8.7	-1.3749 ug/L	1.20203	-1.3749 ppb	1.20203	87.43%
S 181.975 Axial†	3.7	4.5699 ug/L	1.90061	4.5699 ppb	1.90061	41.59%
Sb 206.836†	2.1	1.0052 ug/L	1.82768	1.0052 ppb	1.82768	181.82%
Se 196.026†	3.8	2.2738 ug/L	2.93942	2.2738 ppb	2.93942	129.27%
Si 251.611†	299.6	10.690 ug/L	0.0781	10.690 ppb	0.0781	0.73%
Sn 189.927†	50.0	11.436 ug/L	1.1463	11.436 ppb	1.1463	10.02%
Sr 421.552†	23.7	0.1689 ug/L	0.32825	0.1689 ppb	0.32825	194.38%
Ti 334.940†	196.5	0.3926 ug/L	0.06152	0.3926 ppb	0.06152	15.67%
Tl 190.801†	6.9	3.1337 ug/L	1.76172	3.1337 ppb	1.76172	56.22%
U 409.014†	-36.3	-1.2056 ug/L	2.68451	-1.2056 ppb	2.68451	222.67%
V 292.402†	-29.6	-0.2408 ug/L	0.36996	-0.2408 ppb	0.36996	153.66%
Zn 213.857†	-57.7	-0.6245 ug/L	0.04364	-0.6245 ppb	0.04364	6.99%
SiO2†	314.2	24.056 ug/L	0.3069	24.056 ppb	0.3069	1.28%

Sequence No.: 84

Sample ID: 1202042567|952949|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 3/5/2010 04:02:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042567|952949|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4741.3	4741.3	99.9 %		04:04:02
1	Y RADIAL	4984.0	4984.0	98.89 %		04:04:02
1	Al 396.153Radial†	5387.2	5477.2	4991.4 ug/L	4991.4 ppb	04:04:02
1	Ca 317.933Radial†	2812.2	2797.9	5006.9 ug/L	5006.9 ppb	04:04:22
1	Fe 238.204 Radial†	483.0	476.4	4958.8 ug/L	4958.8 ppb	04:04:22
1	K 766.490 Radial†	29395.1	27129.1	5118.6 ug/L	5118.6 ppb	04:04:02
1	Mg 279.077 IEC†	132.3	130.4	5138.9 ug/L	5138.9 ppb	04:04:22
1	Na 589.592 Radial†	14499.2	15256.4	4642.3 ug/L	4642.3 ppb	04:04:02
1	Sr 421.552†	69159.6	69236.5	493.33 ug/L	493.33 ppb	04:04:02
1	Sc 361.383	817324.9	817324.9	103.35 %		04:05:21
1	Y 371.029	724118.2	724118.2	102.42 %		04:05:21
1	Ag 328.068†	97842.3	94492.0	477.72 ug/L	477.72 ppb	04:05:21
1	As 188.979†	1132.1	1124.0	492.92 ug/L	492.92 ppb	04:05:41
1	B 249.677†	19744.3	19328.1	478.46 ug/L	478.46 ppb	04:05:21
1	Ba 233.527†	44585.8	43143.5	501.57 ug/L	501.57 ppb	04:05:21
1	Be 313.107†	1296985.2	1264245.5	495.77 ug/L	495.77 ppb	04:05:21
1	Cd 226.502†	35838.8	34858.9	479.11 ug/L	479.11 ppb	04:05:41
1	Co 228.616†	16886.8	16403.3	488.07 ug/L	488.07 ppb	04:05:41
1	Cr 267.716†	38837.4	37516.3	500.87 ug/L	500.87 ppb	04:05:21
1	Cu 324.752†	149177.2	136614.4	503.88 ug/L	503.88 ppb	04:05:21
1	Mn 257.610†	334080.4	322812.9	507.44 ug/L	507.44 ppb	04:05:21
1	Mo 202.031†	5634.5	5439.8	492.25 ug/L	492.25 ppb	04:05:41
1	Ni 231.604†	16841.6	16214.8	500.30 ug/L	500.30 ppb	04:05:41
1	P 214.914†	1215.5	977.2	431.99 ug/L	431.99 ppb	04:05:41
1	Pb 220.353†	3131.3	3087.2	491.89 ug/L	491.89 ppb	04:05:41
1	S 181.975 Axial†	4165.9	3989.7	4955.1 ug/L	4955.1 ppb	04:05:41
1	Sb 206.836†	1401.1	1322.7	536.35 ug/L	536.35 ppb	04:05:41
1	Se 196.026†	824.8	817.0	498.10 ug/L	498.10 ppb	04:05:41
1	Si 251.611†	142714.3	137533.7	4898.9 ug/L	4898.9 ppb	04:05:21
1	Sn 189.927†	2268.7	2182.1	499.29 ug/L	499.29 ppb	04:05:41
1	Ti 334.940†	262388.3	255211.6	505.46 ug/L	505.46 ppb	04:05:21
1	Tl 190.801†	1095.8	1096.0	500.39 ug/L	500.39 ppb	04:05:41
1	U 409.014†	12971.7	14919.5	493.02 ug/L	493.02 ppb	04:05:21
1	V 292.402†	65256.6	64799.1	509.75 ug/L	509.75 ppb	04:05:21
1	Zn 213.857†	48729.5	46351.5	493.44 ug/L	493.44 ppb	04:05:21
1	SiO2†	142910.9	137714.8	10525 ug/L	10525 ppb	04:06:41
2	Sc Radial	4712.2	4712.2	99.2 %		04:04:27
2	Y RADIAL	4965.1	4965.1	98.51 %		04:04:27
2	Al 396.153Radial†	5355.9	5478.9	4992.8 ug/L	4992.8 ppb	04:04:27
2	Ca 317.933Radial†	2803.5	2806.4	5022.2 ug/L	5022.2 ppb	04:04:47
2	Fe 238.204 Radial†	486.0	482.5	5021.9 ug/L	5021.9 ppb	04:04:47
2	K 766.490 Radial†	29367.7	27283.1	5147.7 ug/L	5147.7 ppb	04:04:27
2	Mg 279.077 IEC†	134.6	133.5	5261.1 ug/L	5261.1 ppb	04:04:47
2	Na 589.592 Radial†	14391.9	15237.9	4636.7 ug/L	4636.7 ppb	04:04:27
2	Sr 421.552†	68866.0	69368.1	494.27 ug/L	494.27 ppb	04:04:27
2	Sc 361.383	814454.6	814454.6	102.99 %		04:05:48
2	Y 371.029	720177.0	720177.0	101.87 %		04:05:48
2	Ag 328.068†	97541.0	94533.0	477.95 ug/L	477.95 ppb	04:05:48
2	As 188.979†	1143.5	1138.9	499.45 ug/L	499.45 ppb	04:06:09
2	B 249.677†	19744.1	19395.2	480.11 ug/L	480.11 ppb	04:05:48
2	Ba 233.527†	44374.8	43090.7	500.96 ug/L	500.96 ppb	04:05:48
2	Be 313.107†	1292298.0	1264116.8	495.72 ug/L	495.72 ppb	04:05:48
2	Cd 226.502†	35880.5	35021.6	481.34 ug/L	481.34 ppb	04:06:09
2	Co 228.616†	16929.0	16502.0	491.00 ug/L	491.00 ppb	04:06:09
2	Cr 267.716†	38687.8	37503.5	500.70 ug/L	500.70 ppb	04:05:48
2	Cu 324.752†	148604.3	136566.8	503.71 ug/L	503.71 ppb	04:05:48
2	Mn 257.610†	333605.9	323491.4	508.51 ug/L	508.51 ppb	04:05:48
2	Mo 202.031†	5647.9	5472.0	495.17 ug/L	495.17 ppb	04:06:09
2	Ni 231.604†	16926.9	16355.0	504.63 ug/L	504.63 ppb	04:06:09

2	P 214.914†	1216.7	982.6	434.91 ug/L	434.91 ppb	04:06:09
2	Pb 220.353†	3160.9	3126.7	498.15 ug/L	498.15 ppb	04:06:09
2	S 181.975 Axial†	4160.3	3998.5	4966.1 ug/L	4966.1 ppb	04:06:09
2	Sb 206.836†	1404.8	1331.2	539.78 ug/L	539.78 ppb	04:06:09
2	Se 196.026†	841.4	836.0	509.53 ug/L	509.53 ppb	04:06:09
2	Si 251.611†	142701.2	138007.6	4915.7 ug/L	4915.7 ppb	04:05:48
2	Sn 189.927†	2277.7	2198.5	503.05 ug/L	503.05 ppb	04:06:09
2	Ti 334.940†	262076.2	255803.2	506.62 ug/L	506.62 ppb	04:05:48
2	Tl 190.801†	1101.8	1105.5	504.73 ug/L	504.73 ppb	04:06:09
2	U 409.014†	12813.2	14809.9	489.38 ug/L	489.38 ppb	04:05:48
2	V 292.402†	65060.5	64831.3	510.03 ug/L	510.03 ppb	04:05:48
2	Zn 213.857†	48591.8	46383.9	493.75 ug/L	493.75 ppb	04:05:48
2	SiO2†	141278.8	136617.3	10441 ug/L	10441 ppb	04:06:46
3	Sc Radial	4859.3	4859.3	102 %		04:04:52
3	Y RADIAL	5108.4	5108.4	101.4 %		04:04:52
3	Al 396.153Radial†	5473.5	5430.5	4948.3 ug/L	4948.3 ppb	04:04:52
3	Ca 317.933Radial†	2827.4	2744.3	4911.1 ug/L	4911.1 ppb	04:05:12
3	Fe 238.204 Radial†	487.5	469.1	4883.0 ug/L	4883.0 ppb	04:05:12
3	K 766.490 Radial†	29692.1	26704.6	5038.4 ug/L	5038.4 ppb	04:04:52
3	Mg 279.077 IEC†	134.7	129.5	5103.4 ug/L	5103.4 ppb	04:05:12
3	Na 589.592 Radial†	14705.1	15105.0	4596.3 ug/L	4596.3 ppb	04:04:52
3	Sr 421.552†	70579.5	68942.2	491.23 ug/L	491.23 ppb	04:04:52
3	Sc 361.383	806951.1	806951.1	102.04 %		04:06:16
3	Y 371.029	713609.5	713609.5	100.94 %		04:06:16
3	Ag 328.068†	96521.0	94414.2	477.30 ug/L	477.30 ppb	04:06:16
3	As 188.979†	1141.5	1147.3	503.03 ug/L	503.03 ppb	04:06:36
3	B 249.677†	19494.2	19328.6	478.46 ug/L	478.46 ppb	04:06:16
3	Ba 233.527†	44000.4	43124.5	501.35 ug/L	501.35 ppb	04:06:16
3	Be 313.107†	1277732.8	1261510.6	494.70 ug/L	494.70 ppb	04:06:16
3	Cd 226.502†	35721.5	35189.7	483.67 ug/L	483.67 ppb	04:06:36
3	Co 228.616†	16907.5	16633.7	494.94 ug/L	494.94 ppb	04:06:36
3	Cr 267.716†	38376.6	37547.8	501.28 ug/L	501.28 ppb	04:06:16
3	Cu 324.752†	146787.5	136128.0	502.08 ug/L	502.08 ppb	04:06:16
3	Mn 257.610†	330284.3	323248.2	508.12 ug/L	508.12 ppb	04:06:16
3	Mo 202.031†	5642.1	5517.3	499.25 ug/L	499.25 ppb	04:06:36
3	Ni 231.604†	16847.2	16429.8	506.94 ug/L	506.94 ppb	04:06:36
3	P 214.914†	1228.0	1004.6	447.31 ug/L	447.31 ppb	04:06:36
3	Pb 220.353†	3121.3	3116.4	496.53 ug/L	496.53 ppb	04:06:36
3	S 181.975 Axial†	4148.2	4024.2	4997.9 ug/L	4997.9 ppb	04:06:36
3	Sb 206.836†	1396.9	1336.1	541.79 ug/L	541.79 ppb	04:06:36
3	Se 196.026†	826.4	828.9	505.01 ug/L	505.01 ppb	04:06:36
3	Si 251.611†	141283.9	137907.1	4912.1 ug/L	4912.1 ppb	04:06:16
3	Sn 189.927†	2260.3	2202.1	503.85 ug/L	503.85 ppb	04:06:36
3	Ti 334.940†	259232.1	255382.2	505.78 ug/L	505.78 ppb	04:06:16
3	Tl 190.801†	1104.6	1118.2	510.44 ug/L	510.44 ppb	04:06:36
3	U 409.014†	12778.9	14892.0	492.11 ug/L	492.11 ppb	04:06:16
3	V 292.402†	64376.9	64748.7	509.46 ug/L	509.46 ppb	04:06:16
3	Zn 213.857†	48147.2	46387.0	493.79 ug/L	493.79 ppb	04:06:16
3	SiO2†	141037.4	137656.3	10520 ug/L	10520 ppb	04:06:52

Mean Data: 1202042567|952949|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	812910.2	102.79 %	0.677			0.66%
Sc Radial	4771.0	100 %	1.6			1.63%
Y 371.029	719301.6	101.74 %	0.751			0.74%
Y RADIAL	5019.2	99.58 %	1.544			1.55%
Ag 328.068†	94479.7	477.66 ug/L	0.326	477.66 ppb	0.326	0.07%
Al 396.153Radial†	5462.2	4977.5 ug/L	25.30	4977.5 ppb	25.30	0.51%
As 188.979†	1136.7	498.47 ug/L	5.122	498.47 ppb	5.122	1.03%
B 249.677†	19350.6	479.01 ug/L	0.952	479.01 ppb	0.952	0.20%
Ba 233.527†	43119.5	501.30 ug/L	0.309	501.30 ppb	0.309	0.06%
Be 313.107†	1263291.0	495.39 ug/L	0.604	495.39 ppb	0.604	0.12%
Ca 317.933Radial†	2782.9	4980.0 ug/L	60.21	4980.0 ppb	60.21	1.21%
Cd 226.502†	35023.4	481.37 ug/L	2.280	481.37 ppb	2.280	0.47%
Co 228.616†	16513.0	491.33 ug/L	3.447	491.33 ppb	3.447	0.70%
Cr 267.716†	37522.6	500.95 ug/L	0.302	500.95 ppb	0.302	0.06%
Cu 324.752†	136436.4	503.22 ug/L	0.992	503.22 ppb	0.992	0.20%
Fe 238.204 Radial†	476.0	4954.6 ug/L	69.55	4954.6 ppb	69.55	1.40%
K 766.490 Radial†	27038.9	5101.6 ug/L	56.56	5101.6 ppb	56.56	1.11%

Mg 279.077 IEC†	131.1	5167.8 ug/L	82.73	5167.8 ppb	82.73	1.60%
Mn 257.610†	323184.2	508.02 ug/L	0.540	508.02 ppb	0.540	0.11%
Mo 202.031†	5476.4	495.56 ug/L	3.516	495.56 ppb	3.516	0.71%
Na 589.592 Radial†	15199.8	4625.1 ug/L	25.12	4625.1 ppb	25.12	0.54%
Ni 231.604†	16333.2	503.96 ug/L	3.368	503.96 ppb	3.368	0.67%
P 214.914†	988.2	438.07 ug/L	8.134	438.07 ppb	8.134	1.86%
Pb 220.353†	3110.1	495.53 ug/L	3.251	495.53 ppb	3.251	0.66%
S 181.975 Axial†	4004.2	4973.0 ug/L	22.23	4973.0 ppb	22.23	0.45%
Sb 206.836†	1330.0	539.31 ug/L	2.750	539.31 ppb	2.750	0.51%
Se 196.026†	827.3	504.21 ug/L	5.754	504.21 ppb	5.754	1.14%
Si 251.611†	137816.1	4908.9 ug/L	8.88	4908.9 ppb	8.88	0.18%
Sn 189.927†	2194.2	502.06 ug/L	2.436	502.06 ppb	2.436	0.49%
Sr 421.552†	69182.3	492.94 ug/L	1.553	492.94 ppb	1.553	0.32%
Ti 334.940†	255465.7	505.95 ug/L	0.601	505.95 ppb	0.601	0.12%
Tl 190.801†	1106.6	505.19 ug/L	5.039	505.19 ppb	5.039	1.00%
U 409.014†	14873.8	491.50 ug/L	1.896	491.50 ppb	1.896	0.39%
V 292.402†	64793.0	509.75 ug/L	0.280	509.75 ppb	0.280	0.05%
Zn 213.857†	46374.1	493.66 ug/L	0.193	493.66 ppb	0.193	0.04%
SiO2†	137329.5	10495 ug/L	47.2	10495 ppb	47.2	0.45%

Sequence No.: 86

Sample ID: 246871001|952949|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/5/2010 04:15:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246871001|952949|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4807.5	4807.5	101 %		04:17:46
1	Y RADIAL	5079.9	5079.9	100.8 %		04:17:46
1	Al 396.153Radial†	-37.8	45.1	41.317 ug/L	41.317 ppb	04:18:06
1	Ca 317.933Radial†	63.7	44.6	79.855 ug/L	79.855 ppb	04:18:06
1	Fe 238.204 Radial†	11.0	3.6	37.446 ug/L	37.446 ppb	04:18:06
1	K 766.490 Radial†	3806.4	1452.5	274.17 ug/L	274.17 ppb	04:17:46
1	Mg 279.077 IEC†	2.4	0.2	9.2194 ug/L	9.2194 ppb	04:18:06
1	Na 589.592 Radial†	-62.8	675.1	205.42 ug/L	205.42 ppb	04:17:46
1	Sr 421.552†	75.8	55.9	0.3977 ug/L	0.3977 ppb	04:17:46
1	Sc 361.383	804538.8	804538.8	101.74 %		04:19:03
1	Y 371.029	722696.7	722696.7	102.22 %		04:19:03
1	Ag 328.068†	162.4	-16.9	-0.0758 ug/L	-0.0758 ppb	04:19:03
1	As 188.979†	-33.9	-4.8	-2.0459 ug/L	-2.0459 ppb	04:19:23
1	B 249.677†	706.0	918.2	22.828 ug/L	22.828 ppb	04:19:03
1	Ba 233.527†	62.3	65.3	0.7590 ug/L	0.7590 ppb	04:19:23
1	Be 313.107†	-9265.8	224.7	0.0905 ug/L	0.0905 ppb	04:19:03
1	Cd 226.502†	-191.6	-5.7	-0.0813 ug/L	-0.0813 ppb	04:19:23
1	Co 228.616†	-66.1	-0.6	-0.0223 ug/L	-0.0223 ppb	04:19:23
1	Cr 267.716†	81.5	18.9	0.2513 ug/L	0.2513 ppb	04:19:23
1	Cu 324.752†	8892.5	1017.0	3.7514 ug/L	3.7514 ppb	04:19:03
1	Mn 257.610†	1556.4	1099.4	1.7305 ug/L	1.7305 ppb	04:19:23
1	Mo 202.031†	8.6	-3.5	-0.3131 ug/L	-0.3131 ppb	04:19:23
1	Ni 231.604†	115.8	33.4	1.0303 ug/L	1.0303 ppb	04:19:23
1	P 214.914†	216.2	13.7	6.6687 ug/L	6.6687 ppb	04:19:23
1	Pb 220.353†	-72.1	-13.4	-2.1161 ug/L	-2.1161 ppb	04:19:23
1	S 181.975 Axial†	64.0	21.8	27.105 ug/L	27.105 ppb	04:19:23
1	Sb 206.836†	42.6	9.0	3.5203 ug/L	3.5203 ppb	04:19:23
1	Se 196.026†	-15.3	3.9	2.4227 ug/L	2.4227 ppb	04:19:23
1	Si 251.611†	44894.3	43577.1	1554.1 ug/L	1554.1 ppb	04:19:03
1	Sn 189.927†	15.3	2.0	0.4731 ug/L	0.4731 ppb	04:19:23
1	Ti 334.940†	-771.2	576.7	1.1509 ug/L	1.1509 ppb	04:19:03
1	Tl 190.801†	-39.9	-3.5	-1.5692 ug/L	-1.5692 ppb	04:19:23
1	U 409.014†	-2312.0	96.1	3.1813 ug/L	3.1813 ppb	04:19:03
1	V 292.402†	-1653.1	34.4	0.2625 ug/L	0.2625 ppb	04:19:03
1	Zn 213.857†	1090.1	274.2	2.9293 ug/L	2.9293 ppb	04:19:23
1	SiO2†	44738.7	43415.0	3322.2 ug/L	3322.2 ppb	04:20:19
2	Sc Radial	4888.8	4888.8	103 %		04:18:11
2	Y RADIAL	5117.6	5117.6	101.5 %		04:18:11
2	Al 396.153Radial†	-42.4	41.3	37.767 ug/L	37.767 ppb	04:18:31
2	Ca 317.933Radial†	57.6	37.7	67.380 ug/L	67.380 ppb	04:18:31
2	Fe 238.204 Radial†	9.4	1.9	19.243 ug/L	19.243 ppb	04:18:31
2	K 766.490 Radial†	3770.2	1354.8	255.72 ug/L	255.72 ppb	04:18:11
2	Mg 279.077 IEC†	4.3	2.1	82.939 ug/L	82.939 ppb	04:18:31
2	Na 589.592 Radial†	-94.9	644.9	196.23 ug/L	196.23 ppb	04:18:11
2	Sr 421.552†	48.0	27.7	0.1967 ug/L	0.1967 ppb	04:18:11
2	Sc 361.383	801368.0	801368.0	101.33 %		04:19:28
2	Y 371.029	718954.6	718954.6	101.69 %		04:19:28
2	Ag 328.068†	204.4	25.3	0.1298 ug/L	0.1298 ppb	04:19:28
2	As 188.979†	-27.5	1.5	0.6500 ug/L	0.6500 ppb	04:19:48
2	B 249.677†	653.5	869.2	21.611 ug/L	21.611 ppb	04:19:28
2	Ba 233.527†	72.1	75.2	0.8729 ug/L	0.8729 ppb	04:19:48
2	Be 313.107†	-9291.3	163.6	0.0667 ug/L	0.0667 ppb	04:19:28
2	Cd 226.502†	-177.9	7.1	0.0969 ug/L	0.0969 ppb	04:19:48
2	Co 228.616†	-63.8	1.4	0.0402 ug/L	0.0402 ppb	04:19:48
2	Cr 267.716†	91.4	29.0	0.3854 ug/L	0.3854 ppb	04:19:48
2	Cu 324.752†	8901.3	1060.3	3.9099 ug/L	3.9099 ppb	04:19:28
2	Mn 257.610†	1538.8	1088.1	1.7080 ug/L	1.7080 ppb	04:19:48
2	Mo 202.031†	17.6	5.4	0.4928 ug/L	0.4928 ppb	04:19:48
2	Ni 231.604†	110.2	28.2	0.8709 ug/L	0.8709 ppb	04:19:48

2	P 214.914†	227.6	25.7	13.172 ug/L	13.172 ppb	04:19:48
2	Pb 220.353†	-69.7	-11.3	-1.7848 ug/L	-1.7848 ppb	04:19:48
2	S 181.975 Axial†	64.6	22.7	28.148 ug/L	28.148 ppb	04:19:48
2	Sb 206.836†	21.7	-11.5	-4.5024 ug/L	-4.5024 ppb	04:19:48
2	Se 196.026†	-22.6	-3.4	-1.9414 ug/L	-1.9414 ppb	04:19:48
2	Si 251.611†	44700.2	43560.2	1553.5 ug/L	1553.5 ppb	04:19:28
2	Sn 189.927†	11.9	-1.3	-0.2874 ug/L	-0.2874 ppb	04:19:48
2	Ti 334.940†	-742.4	602.1	1.1934 ug/L	1.1934 ppb	04:19:28
2	Tl 190.801†	-38.1	-1.9	-0.8250 ug/L	-0.8250 ppb	04:19:48
2	U 409.014†	-2293.2	105.7	3.5003 ug/L	3.5003 ppb	04:19:28
2	V 292.402†	-1659.9	21.3	0.1765 ug/L	0.1765 ppb	04:19:28
2	Zn 213.857†	1082.2	270.6	2.8942 ug/L	2.8942 ppb	04:19:48
2	SiO2†	44239.7	43096.6	3297.9 ug/L	3297.9 ppb	04:20:24
3	Sc Radial	4874.3	4874.3	103 %		04:18:36
3	Y RADIAL	5130.1	5130.1	101.8 %		04:18:36
3	Al 396.153Radial†	-26.9	56.3	51.521 ug/L	51.521 ppb	04:18:56
3	Ca 317.933Radial†	58.4	38.6	69.121 ug/L	69.121 ppb	04:18:56
3	Fe 238.204 Radial†	10.4	2.9	29.616 ug/L	29.616 ppb	04:18:56
3	K 766.490 Radial†	3794.8	1389.7	262.32 ug/L	262.32 ppb	04:18:36
3	Mg 279.077 IEC†	3.3	1.1	43.375 ug/L	43.375 ppb	04:18:56
3	Na 589.592 Radial†	-135.2	605.4	184.21 ug/L	184.21 ppb	04:18:36
3	Sr 421.552†	65.6	45.0	0.3198 ug/L	0.3198 ppb	04:18:36
3	Sc 361.383	805238.8	805238.8	101.82 %		04:19:53
3	Y 371.029	723198.6	723198.6	102.29 %		04:19:53
3	Ag 328.068†	162.9	-16.5	-0.0777 ug/L	-0.0777 ppb	04:19:53
3	As 188.979†	-34.1	-4.8	-2.0859 ug/L	-2.0859 ppb	04:20:13
3	B 249.677†	681.0	893.0	22.203 ug/L	22.203 ppb	04:19:53
3	Ba 233.527†	63.0	65.9	0.7642 ug/L	0.7642 ppb	04:20:13
3	Be 313.107†	-9337.2	162.6	0.0663 ug/L	0.0663 ppb	04:19:53
3	Cd 226.502†	-176.0	9.8	0.1325 ug/L	0.1325 ppb	04:20:13
3	Co 228.616†	-62.8	2.6	0.0757 ug/L	0.0757 ppb	04:20:13
3	Cr 267.716†	90.9	28.1	0.3737 ug/L	0.3737 ppb	04:20:13
3	Cu 324.752†	8837.3	955.3	3.5239 ug/L	3.5239 ppb	04:19:53
3	Mn 257.610†	1539.3	1081.3	1.6999 ug/L	1.6999 ppb	04:20:13
3	Mo 202.031†	10.5	-1.7	-0.1465 ug/L	-0.1465 ppb	04:20:13
3	Ni 231.604†	125.6	42.9	1.3244 ug/L	1.3244 ppb	04:20:13
3	P 214.914†	208.2	5.6	2.3357 ug/L	2.3357 ppb	04:20:13
3	Pb 220.353†	-59.6	-1.1	-0.1591 ug/L	-0.1591 ppb	04:20:13
3	S 181.975 Axial†	58.4	16.3	20.213 ug/L	20.213 ppb	04:20:13
3	Sb 206.836†	46.6	12.9	5.0536 ug/L	5.0536 ppb	04:20:13
3	Se 196.026†	-15.8	3.4	2.0951 ug/L	2.0951 ppb	04:20:13
3	Si 251.611†	44793.8	43440.1	1549.2 ug/L	1549.2 ppb	04:19:53
3	Sn 189.927†	12.5	-0.8	-0.1643 ug/L	-0.1643 ppb	04:20:13
3	Ti 334.940†	-756.0	592.3	1.1783 ug/L	1.1783 ppb	04:19:53
3	Tl 190.801†	-30.3	6.0	2.7254 ug/L	2.7254 ppb	04:20:13
3	U 409.014†	-2354.5	56.3	1.8633 ug/L	1.8633 ppb	04:19:53
3	V 292.402†	-1742.0	-51.5	-0.4033 ug/L	-0.4033 ppb	04:19:53
3	Zn 213.857†	1084.7	268.0	2.8623 ug/L	2.8623 ppb	04:20:13
3	SiO2†	44860.5	43496.4	3328.5 ug/L	3328.5 ppb	04:20:29

Mean Data: 246871001|952949|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	803715.2	101.63 %	0.261			0.26%
Sc Radial	4856.9	102 %	0.9			0.89%
Y 371.029	721616.7	102.07 %	0.328			0.32%
Y RADIAL	5109.2	101.4 %	0.52			0.51%
Ag 328.068†	-2.7	-0.0079 ug/L	0.11923	-0.0079 ppb	0.11923	>999.9%
Al 396.153Radial†	47.5	43.535 ug/L	7.1402	43.535 ppb	7.1402	16.40%
As 188.979†	-2.7	-1.1606 ug/L	1.56811	-1.1606 ppb	1.56811	135.11%
B 249.677†	893.5	22.214 ug/L	0.6083	22.214 ppb	0.6083	2.74%
Ba 233.527†	68.8	0.7987 ug/L	0.06432	0.7987 ppb	0.06432	8.05%
Be 313.107†	183.6	0.0745 ug/L	0.01388	0.0745 ppb	0.01388	18.63%
Ca 317.933Radial†	40.3	72.119 ug/L	6.7566	72.119 ppb	6.7566	9.37%
Cd 226.502†	3.7	0.0494 ug/L	0.11457	0.0494 ppb	0.11457	232.15%
Co 228.616†	1.1	0.0312 ug/L	0.04963	0.0312 ppb	0.04963	159.07%
Cr 267.716†	25.3	0.3368 ug/L	0.07429	0.3368 ppb	0.07429	22.06%
Cu 324.752†	1010.9	3.7284 ug/L	0.19402	3.7284 ppb	0.19402	5.20%
Fe 238.204 Radial†	2.8	28.768 ug/L	9.1307	28.768 ppb	9.1307	31.74%
K 766.490 Radial†	1399.0	264.07 ug/L	9.346	264.07 ppb	9.346	3.54%

Mg 279.077 IEC†	1.1	45.178 ug/L	36.8927	45.178 ppb	36.8927	81.66%
Mn 257.610†	1089.6	1.7128 ug/L	0.01589	1.7128 ppb	0.01589	0.93%
Mo 202.031†	0.1	0.0111 ug/L	0.42541	0.0111 ppb	0.42541	>999.9%
Na 589.592 Radial†	641.8	195.29 ug/L	10.636	195.29 ppb	10.636	5.45%
Ni 231.604†	34.8	1.0752 ug/L	0.23004	1.0752 ppb	0.23004	21.39%
P 214.914†	15.0	7.3922 ug/L	5.45439	7.3922 ppb	5.45439	73.79%
Pb 220.353†	-8.6	-1.3533 ug/L	1.04742	-1.3533 ppb	1.04742	77.40%
S 181.975 Axial†	20.3	25.155 ug/L	4.3119	25.155 ppb	4.3119	17.14%
Sb 206.836†	3.5	1.3571 ug/L	5.13212	1.3571 ppb	5.13212	378.16%
Se 196.026†	1.3	0.8588 ug/L	2.43056	0.8588 ppb	2.43056	283.01%
Si 251.611†	43525.8	1552.3 ug/L	2.66	1552.3 ppb	2.66	0.17%
Sn 189.927†	-0.0	0.0071 ug/L	0.40822	0.0071 ppb	0.40822	>999.9%
Sr 421.552†	42.8	0.3047 ug/L	0.10138	0.3047 ppb	0.10138	33.27%
Ti 334.940†	590.4	1.1742 ug/L	0.02155	1.1742 ppb	0.02155	1.84%
Tl 190.801†	0.2	0.1104 ug/L	2.29503	0.1104 ppb	2.29503	>999.9%
U 409.014†	86.0	2.8483 ug/L	0.86779	2.8483 ppb	0.86779	30.47%
V 292.402†	1.4	0.0119 ug/L	0.36215	0.0119 ppb	0.36215	>999.9%
Zn 213.857†	271.0	2.8953 ug/L	0.03351	2.8953 ppb	0.03351	1.16%
SiO2†	43336.0	3316.2 ug/L	16.18	3316.2 ppb	16.18	0.49%

Sequence No.: 88

Sample ID: 1202042568|952949|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 3/5/2010 04:29:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042568|952949|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4866.0	4866.0	102 %		04:31:22
1	Y RADIAL	5160.9	5160.9	102.4 %		04:31:22
1	Al 396.153Radial†	-57.6	26.3	24.043 ug/L	24.043 ppb	04:31:42
1	Ca 317.933Radial†	27.4	8.5	15.164 ug/L	15.164 ppb	04:31:42
1	Fe 238.204 Radial†	12.0	4.5	46.365 ug/L	46.365 ppb	04:31:42
1	K 766.490 Radial†	2460.8	94.4	17.820 ug/L	17.820 ppb	04:31:22
1	Mg 279.077 IEC†	-0.4	-2.5	-99.394 ug/L	-99.394 ppb	04:31:42
1	Na 589.592 Radial†	-819.6	-62.7	-19.069 ug/L	-19.069 ppb	04:31:22
1	Sr 421.552†	89.2	68.1	0.4849 ug/L	0.4849 ppb	04:31:22
1	Sc 361.383	795193.1	795193.1	100.55 %		04:32:39
1	Y 371.029	709672.3	709672.3	100.38 %		04:32:39
1	Ag 328.068†	153.2	-24.1	-0.1044 ug/L	-0.1044 ppb	04:32:39
1	As 188.979†	-40.4	-11.5	-4.9874 ug/L	-4.9874 ppb	04:32:59
1	B 249.677†	-439.4	-212.8	-5.2998 ug/L	-5.2998 ppb	04:32:59
1	Ba 233.527†	36.3	40.1	0.4657 ug/L	0.4657 ppb	04:32:59
1	Be 313.107†	-8996.5	385.6	0.1530 ug/L	0.1530 ppb	04:32:39
1	Cd 226.502†	-189.9	-6.3	-0.0913 ug/L	-0.0913 ppb	04:32:59
1	Co 228.616†	-54.2	10.5	0.3092 ug/L	0.3092 ppb	04:32:59
1	Cr 267.716†	79.9	18.3	0.2461 ug/L	0.2461 ppb	04:32:59
1	Cu 324.752†	7846.2	79.3	0.2973 ug/L	0.2973 ppb	04:32:39
1	Mn 257.610†	757.0	322.3	0.5151 ug/L	0.5151 ppb	04:32:59
1	Mo 202.031†	15.5	3.4	0.3137 ug/L	0.3137 ppb	04:32:59
1	Ni 231.604†	98.5	17.5	0.5396 ug/L	0.5396 ppb	04:32:59
1	P 214.914†	212.3	12.3	6.5964 ug/L	6.5964 ppb	04:32:59
1	Pb 220.353†	-72.7	-14.8	-2.3501 ug/L	-2.3501 ppb	04:32:59
1	S 181.975 Axial†	44.2	2.9	3.5928 ug/L	3.5928 ppb	04:32:59
1	Sb 206.836†	23.6	-9.4	-3.6738 ug/L	-3.6738 ppb	04:32:59
1	Se 196.026†	-23.3	-4.2	-2.3584 ug/L	-2.3584 ppb	04:32:59
1	Si 251.611†	827.8	272.1	9.7009 ug/L	9.7009 ppb	04:32:59
1	Sn 189.927†	12.4	-0.7	-0.1583 ug/L	-0.1583 ppb	04:32:59
1	Ti 334.940†	-872.8	466.7	0.9367 ug/L	0.9367 ppb	04:32:39
1	Tl 190.801†	-34.1	1.8	0.8302 ug/L	0.8302 ppb	04:32:59
1	U 409.014†	-2520.1	-137.6	-4.5697 ug/L	-4.5697 ppb	04:32:39
1	V 292.402†	-1696.4	-27.7	-0.2296 ug/L	-0.2296 ppb	04:32:39
1	Zn 213.857†	739.0	-62.3	-0.6805 ug/L	-0.6805 ppb	04:32:59
1	SiO2†	857.5	292.5	22.371 ug/L	22.371 ppb	04:33:55
2	Sc Radial	4806.8	4806.8	101 %		04:31:47
2	Y RADIAL	5130.7	5130.7	101.8 %		04:31:47
2	Al 396.153Radial†	-62.0	21.2	19.379 ug/L	19.379 ppb	04:32:07
2	Ca 317.933Radial†	23.4	4.9	8.7019 ug/L	8.7019 ppb	04:32:07
2	Fe 238.204 Radial†	11.2	3.8	39.705 ug/L	39.705 ppb	04:32:07
2	K 766.490 Radial†	2547.4	209.4	39.549 ug/L	39.549 ppb	04:31:47
2	Mg 279.077 IEC†	4.4	2.2	88.528 ug/L	88.528 ppb	04:32:07
2	Na 589.592 Radial†	-860.1	-112.5	-34.231 ug/L	-34.231 ppb	04:31:47
2	Sr 421.552†	32.4	13.1	0.0933 ug/L	0.0933 ppb	04:31:47
2	Sc 361.383	796582.4	796582.4	100.73 %		04:33:05
2	Y 371.029	710517.8	710517.8	100.50 %		04:33:05
2	Ag 328.068†	262.1	83.8	0.4362 ug/L	0.4362 ppb	04:33:05
2	As 188.979†	-35.6	-6.7	-2.9158 ug/L	-2.9158 ppb	04:33:25
2	B 249.677†	-448.8	-221.3	-5.5114 ug/L	-5.5114 ppb	04:33:25
2	Ba 233.527†	37.1	40.8	0.4749 ug/L	0.4749 ppb	04:33:25
2	Be 313.107†	-9118.3	280.3	0.1122 ug/L	0.1122 ppb	04:33:05
2	Cd 226.502†	-197.5	-13.4	-0.1889 ug/L	-0.1889 ppb	04:33:25
2	Co 228.616†	-45.6	19.0	0.5652 ug/L	0.5652 ppb	04:33:25
2	Cr 267.716†	78.4	16.6	0.2235 ug/L	0.2235 ppb	04:33:25
2	Cu 324.752†	7849.9	69.3	0.2598 ug/L	0.2598 ppb	04:33:05
2	Mn 257.610†	758.9	322.9	0.5077 ug/L	0.5077 ppb	04:33:25
2	Mo 202.031†	18.6	6.5	0.5935 ug/L	0.5935 ppb	04:33:25
2	Ni 231.604†	104.1	22.9	0.7064 ug/L	0.7064 ppb	04:33:25

2	P 214.914†	221.8	21.4	11.508 ug/L	11.508 ppb	04:33:25
2	Pb 220.353†	-60.7	-2.8	-0.4383 ug/L	-0.4383 ppb	04:33:25
2	S 181.975 Axial†	44.5	3.2	3.9127 ug/L	3.9127 ppb	04:33:25
2	Sb 206.836†	39.6	6.4	2.5115 ug/L	2.5115 ppb	04:33:25
2	Se 196.026†	-28.3	-9.1	-5.3271 ug/L	-5.3271 ppb	04:33:25
2	Si 251.611†	818.4	261.3	9.3129 ug/L	9.3129 ppb	04:33:25
2	Sn 189.927†	11.7	-1.4	-0.3299 ug/L	-0.3299 ppb	04:33:25
2	Ti 334.940†	-776.7	563.6	1.1121 ug/L	1.1121 ppb	04:33:05
2	Tl 190.801†	-38.7	-2.7	-1.2368 ug/L	-1.2368 ppb	04:33:25
2	U 409.014†	-2497.9	-111.2	-3.6928 ug/L	-3.6928 ppb	04:33:05
2	V 292.402†	-1659.1	12.2	0.0909 ug/L	0.0909 ppb	04:33:05
2	Zn 213.857†	757.6	-45.2	-0.4964 ug/L	-0.4964 ppb	04:33:25
2	SiO2†	861.3	294.7	22.536 ug/L	22.536 ppb	04:34:00
3	Sc Radial	4777.8	4777.8	101 %		04:32:12
3	Y RADIAL	5053.0	5053.0	100.3 %		04:32:12
3	Al 396.153Radial†	-52.5	30.3	27.784 ug/L	27.784 ppb	04:32:33
3	Ca 317.933Radial†	21.0	2.6	4.6801 ug/L	4.6801 ppb	04:32:33
3	Fe 238.204 Radial†	11.4	4.1	42.178 ug/L	42.178 ppb	04:32:33
3	K 766.490 Radial†	2523.9	201.4	38.045 ug/L	38.045 ppb	04:32:12
3	Mg 279.077 IEC†	2.1	-0.0	-0.2801 ug/L	-0.2801 ppb	04:32:33
3	Na 589.592 Radial†	-887.7	-145.1	-44.139 ug/L	-44.139 ppb	04:32:12
3	Sr 421.552†	52.5	33.2	0.2365 ug/L	0.2365 ppb	04:32:12
3	Sc 361.383	789767.2	789767.2	99.868 %		04:33:30
3	Y 371.029	704875.8	704875.8	99.701 %		04:33:30
3	Ag 328.068†	197.6	21.4	0.1191 ug/L	0.1191 ppb	04:33:30
3	As 188.979†	-25.8	2.8	1.2448 ug/L	1.2448 ppb	04:33:50
3	B 249.677†	-436.2	-212.5	-5.2932 ug/L	-5.2932 ppb	04:33:50
3	Ba 233.527†	45.0	49.1	0.5702 ug/L	0.5702 ppb	04:33:50
3	Be 313.107†	-9020.7	299.9	0.1193 ug/L	0.1193 ppb	04:33:30
3	Cd 226.502†	-188.0	-5.6	-0.0807 ug/L	-0.0807 ppb	04:33:50
3	Co 228.616†	-56.1	8.2	0.2417 ug/L	0.2417 ppb	04:33:50
3	Cr 267.716†	75.5	14.4	0.1921 ug/L	0.1921 ppb	04:33:50
3	Cu 324.752†	7722.4	8.8	0.0351 ug/L	0.0351 ppb	04:33:30
3	Mn 257.610†	756.8	327.4	0.5185 ug/L	0.5185 ppb	04:33:50
3	Mo 202.031†	10.7	-1.3	-0.1125 ug/L	-0.1125 ppb	04:33:50
3	Ni 231.604†	106.5	26.1	0.8060 ug/L	0.8060 ppb	04:33:50
3	P 214.914†	212.1	13.5	7.3184 ug/L	7.3184 ppb	04:33:50
3	Pb 220.353†	-64.7	-7.2	-1.1475 ug/L	-1.1475 ppb	04:33:50
3	S 181.975 Axial†	40.1	-0.9	-1.1415 ug/L	-1.1415 ppb	04:33:50
3	Sb 206.836†	37.5	4.7	1.8410 ug/L	1.8410 ppb	04:33:50
3	Se 196.026†	-16.2	2.7	1.7228 ug/L	1.7228 ppb	04:33:50
3	Si 251.611†	831.4	281.4	10.036 ug/L	10.036 ppb	04:33:50
3	Sn 189.927†	18.7	5.6	1.2845 ug/L	1.2845 ppb	04:33:50
3	Ti 334.940†	-887.5	446.1	0.8845 ug/L	0.8845 ppb	04:33:30
3	Tl 190.801†	-35.4	0.2	0.1049 ug/L	0.1049 ppb	04:33:50
3	U 409.014†	-2377.3	-11.8	-0.3975 ug/L	-0.3975 ppb	04:33:30
3	V 292.402†	-1700.6	-43.6	-0.3478 ug/L	-0.3478 ppb	04:33:30
3	Zn 213.857†	745.6	-50.7	-0.5565 ug/L	-0.5565 ppb	04:33:50
3	SiO2†	856.0	296.9	22.719 ug/L	22.719 ppb	04:34:05

Mean Data: 1202042568|952949|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793847.6	100.38 %		0.455			0.45%
Sc Radial	4816.9	101 %		0.9			0.93%
Y 371.029	708355.3	100.19 %		0.430			0.43%
Y RADIAL	5114.9	101.5 %		1.10			1.09%
Ag 328.068†	27.0	0.1503 ug/L		0.27164	0.1503 ppb	0.27164	180.69%
Al 396.153Radial†	25.9	23.735 ug/L		4.2108	23.735 ppb	4.2108	17.74%
As 188.979†	-5.1	-2.2194 ug/L		3.17387	-2.2194 ppb	3.17387	143.00%
B 249.677†	-215.5	-5.3681 ug/L		0.12411	-5.3681 ppb	0.12411	2.31%
Ba 233.527†	43.3	0.5036 ug/L		0.05783	0.5036 ppb	0.05783	11.48%
Be 313.107†	321.9	0.1282 ug/L		0.02177	0.1282 ppb	0.02177	16.98%
Ca 317.933Radial†	5.3	9.5154 ug/L		5.28911	9.5154 ppb	5.28911	55.58%
Cd 226.502†	-8.4	-0.1203 ug/L		0.05963	-0.1203 ppb	0.05963	49.57%
Co 228.616†	12.6	0.3720 ug/L		0.17068	0.3720 ppb	0.17068	45.88%
Cr 267.716†	16.4	0.2206 ug/L		0.02711	0.2206 ppb	0.02711	12.29%
Cu 324.752†	52.5	0.1974 ug/L		0.14182	0.1974 ppb	0.14182	71.84%
Fe 238.204 Radial†	4.1	42.749 ug/L		3.3663	42.749 ppb	3.3663	7.87%
K 766.490 Radial†	168.4	31.804 ug/L		12.1344	31.804 ppb	12.1344	38.15%

Mg 279.077 IEC†	-0.1	-3.7153 ug/L	94.00850	-3.7153 ppb	94.00850 >999.9%
Mn 257.610†	324.2	0.5137 ug/L	0.00553	0.5137 ppb	0.00553 1.08%
Mo 202.031†	2.9	0.2649 ug/L	0.35553	0.2649 ppb	0.35553 134.21%
Na 589.592 Radial†	-106.7	-32.480 ug/L	12.6266	-32.480 ppb	12.6266 38.88%
Ni 231.604†	22.2	0.6840 ug/L	0.13462	0.6840 ppb	0.13462 19.68%
P 214.914†	15.7	8.4744 ug/L	2.65223	8.4744 ppb	2.65223 31.30%
Pb 220.353†	-8.3	-1.3120 ug/L	0.96645	-1.3120 ppb	0.96645 73.66%
S 181.975 Axial†	1.7	2.1214 ug/L	2.83023	2.1214 ppb	2.83023 133.42%
Sb 206.836†	0.6	0.2262 ug/L	3.39414	0.2262 ppb	3.39414 >999.9%
Se 196.026†	-3.5	-1.9876 ug/L	3.53957	-1.9876 ppb	3.53957 178.09%
Si 251.611†	271.6	9.6832 ug/L	0.36179	9.6832 ppb	0.36179 3.74%
Sn 189.927†	1.2	0.2655 ug/L	0.88669	0.2655 ppb	0.88669 334.01%
Sr 421.552†	38.1	0.2716 ug/L	0.19817	0.2716 ppb	0.19817 72.97%
Ti 334.940†	492.2	0.9778 ug/L	0.11921	0.9778 ppb	0.11921 12.19%
Tl 190.801†	-0.2	-0.1006 ug/L	1.04869	-0.1006 ppb	1.04869 >999.9%
U 409.014†	-86.9	-2.8867 ug/L	2.19983	-2.8867 ppb	2.19983 76.21%
V 292.402†	-19.7	-0.1622 ug/L	0.22698	-0.1622 ppb	0.22698 139.98%
Zn 213.857†	-52.8	-0.5778 ug/L	0.09390	-0.5778 ppb	0.09390 16.25%
SiO2†	294.7	22.542 ug/L	0.1739	22.542 ppb	0.1739 0.77%

Sequence No.: 89

Sample ID: 1202042569|952949|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 106

Date Collected: 3/5/2010 04:36:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042569|952949|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4828.4	4828.4	102 %		04:38:10
1	Y RADIAL	5024.0	5024.0	99.68 %		04:38:10
1	Al 396.153Radial†	5510.1	5500.7	5012.5 ug/L	5012.5 ppb	04:38:10
1	Ca 317.933Radial†	2813.1	2747.9	4917.5 ug/L	4917.5 ppb	04:38:30
1	Fe 238.204 Radial†	483.4	468.1	4872.8 ug/L	4872.8 ppb	04:38:30
1	K 766.490 Radial†	29972.2	27165.6	5125.5 ug/L	5125.5 ppb	04:38:10
1	Mg 279.077 IEC†	130.4	126.1	4968.1 ug/L	4968.1 ppb	04:38:30
1	Na 589.592 Radial†	14614.0	15107.4	4597.0 ug/L	4597.0 ppb	04:38:10
1	Sr 421.552†	70528.5	69333.4	494.02 ug/L	494.02 ppb	04:38:10
1	Sc 361.383	813767.3	813767.3	102.90 %		04:39:29
1	Y 371.029	721175.3	721175.3	102.01 %		04:39:29
1	Ag 328.068†	97716.9	94784.0	479.17 ug/L	479.17 ppb	04:39:29
1	As 188.979†	1140.1	1136.5	498.38 ug/L	498.38 ppb	04:39:49
1	B 249.677†	19724.1	19392.0	480.04 ug/L	480.04 ppb	04:39:29
1	Ba 233.527†	44594.7	43340.8	503.87 ug/L	503.87 ppb	04:39:29
1	Be 313.107†	1300854.1	1273491.3	499.39 ug/L	499.39 ppb	04:39:29
1	Cd 226.502†	36048.2	35214.0	484.01 ug/L	484.01 ppb	04:39:49
1	Co 228.616†	17111.1	16692.8	496.69 ug/L	496.69 ppb	04:39:49
1	Cr 267.716†	38912.4	37753.5	504.03 ug/L	504.03 ppb	04:39:29
1	Cu 324.752†	149928.1	137975.1	508.89 ug/L	508.89 ppb	04:39:29
1	Mn 257.610†	334906.9	325029.2	510.92 ug/L	510.92 ppb	04:39:29
1	Mo 202.031†	5713.2	5540.0	501.31 ug/L	501.31 ppb	04:39:49
1	Ni 231.604†	17053.4	16491.9	508.85 ug/L	508.85 ppb	04:39:49
1	P 214.914†	1229.7	996.2	441.41 ug/L	441.41 ppb	04:39:49
1	Pb 220.353†	3175.4	3143.4	500.83 ug/L	500.83 ppb	04:39:49
1	S 181.975 Axial†	4165.0	4006.5	4976.0 ug/L	4976.0 ppb	04:39:49
1	Sb 206.836†	1407.6	1335.0	541.47 ug/L	541.47 ppb	04:39:49
1	Se 196.026†	835.2	830.7	506.07 ug/L	506.07 ppb	04:39:49
1	Si 251.611†	141815.8	137264.2	4889.2 ug/L	4889.2 ppb	04:39:29
1	Sn 189.927†	2291.7	2214.0	506.58 ug/L	506.58 ppb	04:39:49
1	Ti 334.940†	263148.2	257059.9	509.12 ug/L	509.12 ppb	04:39:29
1	Tl 190.801†	1103.7	1108.3	505.98 ug/L	505.98 ppb	04:39:49
1	U 409.014†	13004.6	15006.4	495.90 ug/L	495.90 ppb	04:39:29
1	V 292.402†	65528.2	65339.1	514.08 ug/L	514.08 ppb	04:39:29
1	Zn 213.857†	48574.6	46407.1	493.99 ug/L	493.99 ppb	04:39:29
1	SiO2†	144678.1	140036.6	10702 ug/L	10702 ppb	04:40:50
2	Sc Radial	4878.2	4878.2	103 %		04:38:36
2	Y RADIAL	5107.7	5107.7	101.3 %		04:38:36
2	Al 396.153Radial†	5542.8	5477.3	4991.0 ug/L	4991.0 ppb	04:38:36
2	Ca 317.933Radial†	2797.2	2704.2	4839.3 ug/L	4839.3 ppb	04:38:56
2	Fe 238.204 Radial†	477.3	457.3	4761.4 ug/L	4761.4 ppb	04:38:56
2	K 766.490 Radial†	30139.2	27027.7	5099.5 ug/L	5099.5 ppb	04:38:36
2	Mg 279.077 IEC†	131.2	125.6	4947.9 ug/L	4947.9 ppb	04:38:56
2	Na 589.592 Radial†	14514.4	14863.9	4522.9 ug/L	4522.9 ppb	04:38:36
2	Sr 421.552†	70838.7	68928.3	491.14 ug/L	491.14 ppb	04:38:36
2	Sc 361.383	812320.6	812320.6	102.72 %		04:39:57
2	Y 371.029	717636.3	717636.3	101.51 %		04:39:57
2	Ag 328.068†	97373.8	94619.1	478.31 ug/L	478.31 ppb	04:39:57
2	As 188.979†	1145.8	1144.1	501.63 ug/L	501.63 ppb	04:40:17
2	B 249.677†	19644.2	19348.3	478.97 ug/L	478.97 ppb	04:39:57
2	Ba 233.527†	44486.1	43312.2	503.53 ug/L	503.53 ppb	04:39:57
2	Be 313.107†	1294783.4	1269832.9	497.96 ug/L	497.96 ppb	04:39:57
2	Cd 226.502†	36042.5	35270.8	484.80 ug/L	484.80 ppb	04:40:17
2	Co 228.616†	17133.3	16744.0	498.22 ug/L	498.22 ppb	04:40:17
2	Cr 267.716†	38924.7	37832.8	505.08 ug/L	505.08 ppb	04:39:57
2	Cu 324.752†	149835.1	138144.1	509.51 ug/L	509.51 ppb	04:39:57
2	Mn 257.610†	334857.9	325561.1	511.74 ug/L	511.74 ppb	04:39:57
2	Mo 202.031†	5727.2	5563.6	503.42 ug/L	503.42 ppb	04:40:17
2	Ni 231.604†	17053.7	16521.7	509.77 ug/L	509.77 ppb	04:40:17

2	P 214.914†	1231.8	1000.3	443.62 ug/L	443.62 ppb	04:40:17
2	Pb 220.353†	3167.9	3141.5	500.54 ug/L	500.54 ppb	04:40:17
2	S 181.975 Axial†	4191.4	4039.3	5016.7 ug/L	5016.7 ppb	04:40:17
2	Sb 206.836†	1422.7	1352.1	548.22 ug/L	548.22 ppb	04:40:17
2	Se 196.026†	835.8	832.6	506.98 ug/L	506.98 ppb	04:40:17
2	Si 251.611†	141725.0	137421.2	4894.7 ug/L	4894.7 ppb	04:39:57
2	Sn 189.927†	2286.5	2212.9	506.31 ug/L	506.31 ppb	04:40:17
2	Ti 334.940†	262631.2	257012.0	509.01 ug/L	509.01 ppb	04:39:57
2	Tl 190.801†	1104.1	1110.6	507.01 ug/L	507.01 ppb	04:40:17
2	U 409.014†	13016.4	15040.3	497.04 ug/L	497.04 ppb	04:39:57
2	V 292.402†	65309.6	65239.7	513.36 ug/L	513.36 ppb	04:39:57
2	Zn 213.857†	48496.9	46415.5	494.09 ug/L	494.09 ppb	04:39:57
2	SiO2†	141786.5	137472.0	10506 ug/L	10506 ppb	04:40:55
3	Sc Radial	4819.6	4819.6	102 %		04:39:01
3	Y RADIAL	5078.2	5078.2	100.8 %		04:39:01
3	Al 396.153Radial†	5522.9	5523.2	5033.4 ug/L	5033.4 ppb	04:39:01
3	Ca 317.933Radial†	2827.9	2767.5	4952.6 ug/L	4952.6 ppb	04:39:21
3	Fe 238.204 Radial†	481.2	466.8	4859.4 ug/L	4859.4 ppb	04:39:21
3	K 766.490 Radial†	29899.7	27147.9	5122.2 ug/L	5122.2 ppb	04:39:01
3	Mg 279.077 IEC†	132.1	128.0	5044.0 ug/L	5044.0 ppb	04:39:21
3	Na 589.592 Radial†	14337.0	14860.7	4521.9 ug/L	4521.9 ppb	04:39:01
3	Sr 421.552†	70168.3	69104.9	492.39 ug/L	492.39 ppb	04:39:01
3	Sc 361.383	823525.5	823525.5	104.14 %		04:40:24
3	Y 371.029	728354.1	728354.1	103.02 %		04:40:24
3	Ag 328.068†	98726.7	94628.5	478.38 ug/L	478.38 ppb	04:40:24
3	As 188.979†	1135.6	1119.1	490.82 ug/L	490.82 ppb	04:40:44
3	B 249.677†	20070.8	19497.7	482.70 ug/L	482.70 ppb	04:40:24
3	Ba 233.527†	45028.4	43243.7	502.74 ug/L	502.74 ppb	04:40:24
3	Be 313.107†	1310294.7	1267577.5	497.08 ug/L	497.08 ppb	04:40:24
3	Cd 226.502†	35800.6	34561.1	475.03 ug/L	475.03 ppb	04:40:44
3	Co 228.616†	16990.6	16380.0	487.37 ug/L	487.37 ppb	04:40:44
3	Cr 267.716†	39271.6	37650.4	502.65 ug/L	502.65 ppb	04:40:24
3	Cu 324.752†	152115.7	138349.4	510.27 ug/L	510.27 ppb	04:40:24
3	Mn 257.610†	338206.9	324341.7	509.83 ug/L	509.83 ppb	04:40:24
3	Mo 202.031†	5702.5	5464.0	494.44 ug/L	494.44 ppb	04:40:44
3	Ni 231.604†	16980.0	16225.0	500.62 ug/L	500.62 ppb	04:40:44
3	P 214.914†	1213.3	966.2	424.83 ug/L	424.83 ppb	04:40:44
3	Pb 220.353†	3150.1	3082.5	491.16 ug/L	491.16 ppb	04:40:44
3	S 181.975 Axial†	4162.4	3956.0	4913.2 ug/L	4913.2 ppb	04:40:44
3	Sb 206.836†	1406.1	1317.4	534.25 ug/L	534.25 ppb	04:40:44
3	Se 196.026†	816.3	802.8	489.48 ug/L	489.48 ppb	04:40:44
3	Si 251.611†	143596.9	137341.5	4892.0 ug/L	4892.0 ppb	04:40:24
3	Sn 189.927†	2277.1	2173.6	497.35 ug/L	497.35 ppb	04:40:44
3	Ti 334.940†	266298.6	257055.0	509.11 ug/L	509.11 ppb	04:40:24
3	Tl 190.801†	1106.1	1097.9	501.29 ug/L	501.29 ppb	04:40:44
3	U 409.014†	13281.5	15122.5	499.76 ug/L	499.76 ppb	04:40:24
3	V 292.402†	66100.9	65134.5	512.41 ug/L	512.41 ppb	04:40:24
3	Zn 213.857†	49014.3	46270.0	492.57 ug/L	492.57 ppb	04:40:24
3	SiO2†	140533.9	134391.0	10271 ug/L	10271 ppb	04:41:00

Mean Data: 1202042569|952949|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	816537.8	103.25 %	0.771			0.75%
Sc Radial	4842.1	102 %	0.7			0.65%
Y 371.029	722388.6	102.18 %	0.772			0.76%
Y RADIAL	5070.0	100.6 %	0.84			0.84%
Ag 328.068†	94677.2	478.62 ug/L	0.481	478.62 ppb	0.481	0.10%
Al 396.153Radial†	5500.4	5012.3 ug/L	21.24	5012.3 ppb	21.24	0.42%
As 188.979†	1133.2	496.94 ug/L	5.545	496.94 ppb	5.545	1.12%
B 249.677†	19412.7	480.57 ug/L	1.920	480.57 ppb	1.920	0.40%
Ba 233.527†	43298.9	503.38 ug/L	0.580	503.38 ppb	0.580	0.12%
Be 313.107†	1270300.5	498.14 ug/L	1.168	498.14 ppb	1.168	0.23%
Ca 317.933Radial†	2739.9	4903.1 ug/L	57.99	4903.1 ppb	57.99	1.18%
Cd 226.502†	35015.3	481.28 ug/L	5.427	481.28 ppb	5.427	1.13%
Co 228.616†	16605.6	494.09 ug/L	5.874	494.09 ppb	5.874	1.19%
Cr 267.716†	37745.6	503.92 ug/L	1.220	503.92 ppb	1.220	0.24%
Cu 324.752†	138156.2	509.56 ug/L	0.690	509.56 ppb	0.690	0.14%
Fe 238.204 Radial†	464.1	4831.2 ug/L	60.82	4831.2 ppb	60.82	1.26%
K 766.490 Radial†	27113.7	5115.7 ug/L	14.14	5115.7 ppb	14.14	0.28%

Mg 279.077 IEC†	126.5	4986.7 ug/L	50.67	4986.7 ppb	50.67	1.02%
Mn 257.610†	324977.3	510.83 ug/L	0.958	510.83 ppb	0.958	0.19%
Mo 202.031†	5522.5	499.72 ug/L	4.699	499.72 ppb	4.699	0.94%
Na 589.592 Radial†	14944.0	4547.3 ug/L	43.06	4547.3 ppb	43.06	0.95%
Ni 231.604†	16412.9	506.42 ug/L	5.040	506.42 ppb	5.040	1.00%
P 214.914†	987.6	436.62 ug/L	10.272	436.62 ppb	10.272	2.35%
Pb 220.353†	3122.5	497.51 ug/L	5.504	497.51 ppb	5.504	1.11%
S 181.975 Axial†	4000.6	4968.6 ug/L	52.16	4968.6 ppb	52.16	1.05%
Sb 206.836†	1334.8	541.31 ug/L	6.985	541.31 ppb	6.985	1.29%
Se 196.026†	822.0	500.84 ug/L	9.852	500.84 ppb	9.852	1.97%
Si 251.611†	137342.3	4892.0 ug/L	2.79	4892.0 ppb	2.79	0.06%
Sn 189.927†	2200.2	503.41 ug/L	5.249	503.41 ppb	5.249	1.04%
Sr 421.552†	69122.2	492.52 ug/L	1.447	492.52 ppb	1.447	0.29%
Ti 334.940†	257042.3	509.08 ug/L	0.057	509.08 ppb	0.057	0.01%
Tl 190.801†	1105.6	504.76 ug/L	3.049	504.76 ppb	3.049	0.60%
U 409.014†	15056.4	497.57 ug/L	1.981	497.57 ppb	1.981	0.40%
V 292.402†	65237.7	513.28 ug/L	0.840	513.28 ppb	0.840	0.16%
Zn 213.857†	46364.2	493.55 ug/L	0.850	493.55 ppb	0.850	0.17%
SiO2†	137299.9	10493 ug/L	216.2	10493 ppb	216.2	2.06%

Sequence No.: 90

Sample ID: 1202042570|952949|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 107

Date Collected: 3/5/2010 04:43:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042570|952949|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4481.1	4481.1	94.4 %		04:45:25
1	Y RADIAL	4998.8	4998.8	99.18 %		04:45:05
1	Al 396.153Radial†	-72.0	6.2	5.6853 ug/L	5.6853 ppb	04:45:25
1	Ca 317.933Radial†	18.7	1.5	2.7726 ug/L	2.7726 ppb	04:45:25
1	Fe 238.204 Radial†	7.4	0.5	5.6974 ug/L	5.6974 ppb	04:45:25
1	K 766.490 Radial†	2589.6	437.0	82.550 ug/L	82.550 ppb	04:45:05
1	Mg 279.077 IEC†	0.3	-1.8	-70.339 ug/L	-70.339 ppb	04:45:25
1	Na 589.592 Radial†	-884.8	-200.4	-60.991 ug/L	-60.991 ppb	04:45:05
1	Sr 421.552†	25.5	8.1	0.0578 ug/L	0.0578 ppb	04:45:05
1	Sc 361.383	796478.6	796478.6	100.72 %		04:46:22
1	Y 371.029	715953.1	715953.1	101.27 %		04:46:22
1	Ag 328.068†	173.0	-4.7	-0.0240 ug/L	-0.0240 ppb	04:46:22
1	As 188.979†	-30.9	-2.1	-0.8910 ug/L	-0.8910 ppb	04:46:42
1	B 249.677†	-339.5	-112.8	-2.8071 ug/L	-2.8071 ppb	04:46:42
1	Ba 233.527†	21.5	25.3	0.2925 ug/L	0.2925 ppb	04:46:42
1	Be 313.107†	-9140.7	256.9	0.1011 ug/L	0.1011 ppb	04:46:22
1	Cd 226.502†	-189.5	-5.6	-0.0772 ug/L	-0.0772 ppb	04:46:42
1	Co 228.616†	-55.2	9.6	0.2841 ug/L	0.2841 ppb	04:46:42
1	Cr 267.716†	69.2	7.5	0.0998 ug/L	0.0998 ppb	04:46:42
1	Cu 324.752†	7746.4	-32.5	-0.1188 ug/L	-0.1188 ppb	04:46:22
1	Mn 257.610†	524.6	90.4	0.1455 ug/L	0.1455 ppb	04:46:42
1	Mo 202.031†	13.2	1.1	0.0985 ug/L	0.0985 ppb	04:46:42
1	Ni 231.604†	86.5	5.4	0.1670 ug/L	0.1670 ppb	04:46:42
1	P 214.914†	210.3	10.0	5.4478 ug/L	5.4478 ppb	04:46:42
1	Pb 220.353†	-56.6	1.3	0.2082 ug/L	0.2082 ppb	04:46:42
1	S 181.975 Axial†	46.0	4.6	5.7585 ug/L	5.7585 ppb	04:46:42
1	Sb 206.836†	24.6	-8.4	-3.3022 ug/L	-3.3022 ppb	04:46:42
1	Se 196.026†	-19.0	0.1	0.0767 ug/L	0.0767 ppb	04:46:42
1	Si 251.611†	648.8	93.0	3.3149 ug/L	3.3149 ppb	04:46:42
1	Sn 189.927†	13.9	0.8	0.1756 ug/L	0.1756 ppb	04:46:42
1	Ti 334.940†	-1217.9	125.5	0.2552 ug/L	0.2552 ppb	04:46:22
1	Tl 190.801†	-35.8	0.2	0.0719 ug/L	0.0719 ppb	04:46:42
1	U 409.014†	-2419.8	-34.0	-1.1270 ug/L	-1.1270 ppb	04:46:22
1	V 292.402†	-1762.5	-90.6	-0.7071 ug/L	-0.7071 ppb	04:46:22
1	Zn 213.857†	715.3	-87.1	-0.9373 ug/L	-0.9373 ppb	04:46:42
1	SiO2†	601.9	37.3	2.8525 ug/L	2.8525 ppb	04:47:38
2	Sc Radial	4488.2	4488.2	94.5 %		04:45:50
2	Y RADIAL	5049.4	5049.4	100.2 %		04:45:30
2	Al 396.153Radial†	-69.8	8.7	7.9338 ug/L	7.9338 ppb	04:45:50
2	Ca 317.933Radial†	17.8	0.5	0.9808 ug/L	0.9808 ppb	04:45:50
2	Fe 238.204 Radial†	7.6	0.8	8.0023 ug/L	8.0023 ppb	04:45:50
2	K 766.490 Radial†	2537.5	377.6	71.318 ug/L	71.318 ppb	04:45:30
2	Mg 279.077 IEC†	1.5	-0.6	-21.917 ug/L	-21.917 ppb	04:45:50
2	Na 589.592 Radial†	-821.2	-131.7	-40.062 ug/L	-40.062 ppb	04:45:30
2	Sr 421.552†	34.9	18.0	0.1283 ug/L	0.1283 ppb	04:45:30
2	Sc 361.383	795441.3	795441.3	100.59 %		04:46:47
2	Y 371.029	713106.0	713106.0	100.87 %		04:46:47
2	Ag 328.068†	243.3	65.4	0.3350 ug/L	0.3350 ppb	04:46:47
2	As 188.979†	-33.7	-4.9	-2.1206 ug/L	-2.1206 ppb	04:47:07
2	B 249.677†	-337.9	-111.7	-2.7770 ug/L	-2.7770 ppb	04:47:07
2	Ba 233.527†	11.7	15.6	0.1813 ug/L	0.1813 ppb	04:47:07
2	Be 313.107†	-9159.1	226.7	0.0893 ug/L	0.0893 ppb	04:46:47
2	Cd 226.502†	-183.0	0.7	0.0074 ug/L	0.0074 ppb	04:47:07
2	Co 228.616†	-82.2	-17.4	-0.5168 ug/L	-0.5168 ppb	04:47:07
2	Cr 267.716†	80.0	18.3	0.2466 ug/L	0.2466 ppb	04:47:07
2	Cu 324.752†	7730.7	-38.0	-0.1367 ug/L	-0.1367 ppb	04:46:47
2	Mn 257.610†	503.0	69.6	0.1111 ug/L	0.1111 ppb	04:47:07
2	Mo 202.031†	16.4	4.3	0.3923 ug/L	0.3923 ppb	04:47:07
2	Ni 231.604†	77.0	-4.0	-0.1221 ug/L	-0.1221 ppb	04:47:07

2	P 214.914†	203.1	3.1	1.6625 ug/L	1.6625 ppb	04:47:07
2	Pb 220.353†	-54.6	3.2	0.5153 ug/L	0.5153 ppb	04:47:07
2	S 181.975 Axial†	42.4	1.1	1.3844 ug/L	1.3844 ppb	04:47:07
2	Sb 206.836†	30.9	-2.1	-0.8641 ug/L	-0.8641 ppb	04:47:07
2	Se 196.026†	-20.3	-1.2	-0.7025 ug/L	-0.7025 ppb	04:47:07
2	Si 251.611†	621.5	66.7	2.3748 ug/L	2.3748 ppb	04:47:07
2	Sn 189.927†	4.2	-8.9	-2.0332 ug/L	-2.0332 ppb	04:47:07
2	Ti 334.940†	-1205.5	136.3	0.2743 ug/L	0.2743 ppb	04:46:47
2	Tl 190.801†	-29.9	5.9	2.6987 ug/L	2.6987 ppb	04:47:07
2	U 409.014†	-2551.8	-168.3	-5.5816 ug/L	-5.5816 ppb	04:46:47
2	V 292.402†	-1681.7	-12.6	-0.1049 ug/L	-0.1049 ppb	04:46:47
2	Zn 213.857†	693.6	-107.7	-1.1576 ug/L	-1.1576 ppb	04:47:07
2	SiO2†	676.4	112.2	8.5725 ug/L	8.5725 ppb	04:47:43
3	Sc Radial	4492.0	4492.0	94.6 %		04:46:15
3	Y RADIAL	5090.6	5090.6	101.0 %		04:45:55
3	Al 396.153Radial†	-85.1	-7.5	-6.8605 ug/L	-6.8605 ppb	04:46:15
3	Ca 317.933Radial†	18.6	1.4	2.5622 ug/L	2.5622 ppb	04:46:15
3	Fe 238.204 Radial†	8.3	1.5	15.971 ug/L	15.971 ppb	04:46:15
3	K 766.490 Radial†	2492.9	328.2	61.999 ug/L	61.999 ppb	04:45:55
3	Mg 279.077 IEC†	0.4	-1.6	-64.753 ug/L	-64.753 ppb	04:46:15
3	Na 589.592 Radial†	-829.0	-139.1	-42.336 ug/L	-42.336 ppb	04:45:55
3	Sr 421.552†	17.9	-0.0	-0.0003 ug/L	-0.0003 ppb	04:45:55
3	Sc 361.383	792704.0	792704.0	100.24 %		04:47:12
3	Y 371.029	711663.3	711663.3	100.66 %		04:47:12
3	Ag 328.068†	226.9	49.9	0.2557 ug/L	0.2557 ppb	04:47:12
3	As 188.979†	-30.9	-2.2	-0.9347 ug/L	-0.9347 ppb	04:47:32
3	B 249.677†	-348.3	-123.2	-3.0667 ug/L	-3.0667 ppb	04:47:32
3	Ba 233.527†	3.9	7.9	0.0919 ug/L	0.0919 ppb	04:47:32
3	Be 313.107†	-9119.6	234.6	0.0927 ug/L	0.0927 ppb	04:47:12
3	Cd 226.502†	-186.8	-3.7	-0.0531 ug/L	-0.0531 ppb	04:47:32
3	Co 228.616†	-60.0	4.5	0.1315 ug/L	0.1315 ppb	04:47:32
3	Cr 267.716†	74.3	12.9	0.1728 ug/L	0.1728 ppb	04:47:32
3	Cu 324.752†	7741.6	-0.7	-0.0007 ug/L	-0.0007 ppb	04:47:12
3	Mn 257.610†	511.8	80.2	0.1302 ug/L	0.1302 ppb	04:47:32
3	Mo 202.031†	8.9	-3.1	-0.2827 ug/L	-0.2827 ppb	04:47:32
3	Ni 231.604†	92.8	12.0	0.3717 ug/L	0.3717 ppb	04:47:32
3	P 214.914†	218.7	19.3	10.474 ug/L	10.474 ppb	04:47:32
3	Pb 220.353†	-65.0	-7.4	-1.1737 ug/L	-1.1737 ppb	04:47:32
3	S 181.975 Axial†	42.8	1.7	2.0574 ug/L	2.0574 ppb	04:47:32
3	Sb 206.836†	28.0	-4.9	-1.9225 ug/L	-1.9225 ppb	04:47:32
3	Se 196.026†	-29.6	-10.6	-6.2423 ug/L	-6.2423 ppb	04:47:32
3	Si 251.611†	628.1	75.4	2.6936 ug/L	2.6936 ppb	04:47:32
3	Sn 189.927†	15.2	2.1	0.4781 ug/L	0.4781 ppb	04:47:32
3	Ti 334.940†	-1136.5	200.9	0.4043 ug/L	0.4043 ppb	04:47:12
3	Tl 190.801†	-40.6	-4.8	-2.1811 ug/L	-2.1811 ppb	04:47:32
3	U 409.014†	-2419.4	-45.1	-1.4962 ug/L	-1.4962 ppb	04:47:12
3	V 292.402†	-1696.4	-33.1	-0.2678 ug/L	-0.2678 ppb	04:47:12
3	Zn 213.857†	684.0	-114.9	-1.2394 ug/L	-1.2394 ppb	04:47:32
3	SiO2†	624.4	62.6	4.7997 ug/L	4.7997 ppb	04:47:48

Mean Data: 1202042570|952949|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	794874.6	100.51 %	0.247			0.25%
Sc Radial	4487.1	94.5 %	0.12			0.12%
Y 371.029	713574.2	100.93 %	0.309			0.31%
Y RADIAL	5046.3	100.1 %	0.91			0.91%
Ag 328.068†	36.8	0.1889 ug/L	0.18858	0.1889 ppb	0.18858	99.82%
Al 396.153Radial†	2.5	2.2529 ug/L	7.97209	2.2529 ppb	7.97209	353.86%
As 188.979†	-3.0	-1.3154 ug/L	0.69766	-1.3154 ppb	0.69766	53.04%
B 249.677†	-115.9	-2.8836 ug/L	0.15929	-2.8836 ppb	0.15929	5.52%
Ba 233.527†	16.3	0.1886 ug/L	0.10046	0.1886 ppb	0.10046	53.28%
Be 313.107†	239.4	0.0944 ug/L	0.00605	0.0944 ppb	0.00605	6.41%
Ca 317.933Radial†	1.2	2.1052 ug/L	0.97941	2.1052 ppb	0.97941	46.52%
Cd 226.502†	-2.9	-0.0410 ug/L	0.04359	-0.0410 ppb	0.04359	106.42%
Co 228.616†	-1.1	-0.0337 ug/L	0.42524	-0.0337 ppb	0.42524	>999.9%
Cr 267.716†	12.9	0.1731 ug/L	0.07341	0.1731 ppb	0.07341	42.42%
Cu 324.752†	-23.7	-0.0854 ug/L	0.07388	-0.0854 ppb	0.07388	86.50%
Fe 238.204 Radial†	1.0	9.8901 ug/L	5.39048	9.8901 ppb	5.39048	54.50%
K 766.490 Radial†	381.0	71.956 ug/L	10.2903	71.956 ppb	10.2903	14.30%

Mg 279.077 IEC†	-1.3	-52.336 ug/L	26.4918	-52.336 ppb	26.4918	50.62%
Mn 257.610†	80.1	0.1289 ug/L	0.01725	0.1289 ppb	0.01725	13.38%
Mo 202.031†	0.8	0.0694 ug/L	0.33842	0.0694 ppb	0.33842	487.77%
Na 589.592 Radial†	-157.1	-47.796 ug/L	11.4832	-47.796 ppb	11.4832	24.03%
Ni 231.604†	4.5	0.1389 ug/L	0.24809	0.1389 ppb	0.24809	178.62%
P 214.914†	10.8	5.8614 ug/L	4.42018	5.8614 ppb	4.42018	75.41%
Pb 220.353†	-0.9	-0.1501 ug/L	0.89966	-0.1501 ppb	0.89966	599.48%
S 181.975 Axial†	2.5	3.0668 ug/L	2.35524	3.0668 ppb	2.35524	76.80%
Sb 206.836†	-5.2	-2.0296 ug/L	1.22259	-2.0296 ppb	1.22259	60.24%
Se 196.026†	-3.9	-2.2894 ug/L	3.44544	-2.2894 ppb	3.44544	150.50%
Si 251.611†	78.4	2.7944 ug/L	0.47809	2.7944 ppb	0.47809	17.11%
Sn 189.927†	-2.0	-0.4599 ug/L	1.37095	-0.4599 ppb	1.37095	298.13%
Sr 421.552†	8.7	0.0619 ug/L	0.06438	0.0619 ppb	0.06438	103.95%
Ti 334.940†	154.2	0.3113 ug/L	0.08117	0.3113 ppb	0.08117	26.08%
Tl 190.801†	0.4	0.1965 ug/L	2.44231	0.1965 ppb	2.44231	>999.9%
U 409.014†	-82.4	-2.7349 ug/L	2.47218	-2.7349 ppb	2.47218	90.39%
V 292.402†	-45.4	-0.3599 ug/L	0.31147	-0.3599 ppb	0.31147	86.54%
Zn 213.857†	-103.2	-1.1115 ug/L	0.15623	-1.1115 ppb	0.15623	14.06%
SiO2†	70.7	5.4082 ug/L	2.90817	5.4082 ppb	2.90817	53.77%

Sequence No.: 91

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/5/2010 04:49:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4582.2	4582.2	96.5 %		04:51:51
1	Y RADIAL	4846.1	4846.1	96.15 %		04:51:51
1	Al 396.153Radial†	5312.2	5586.8	5091.6 ug/L	5091.6 ppb	04:51:51
1	Ca 317.933Radial†	2824.7	2908.6	5205.0 ug/L	5205.0 ppb	04:52:11
1	Fe 238.204 Radial†	484.2	494.4	5146.5 ug/L	5146.5 ppb	04:52:11
1	K 766.490 Radial†	29014.2	27756.8	5235.4 ug/L	5235.4 ppb	04:51:51
1	Mg 279.077 IEC†	132.1	134.8	5310.5 ug/L	5310.5 ppb	04:52:11
1	Na 589.592 Radial†	27610.2	29345.9	8929.6 ug/L	8929.6 ppb	04:51:51
1	Sr 421.552†	66632.4	69023.5	491.81 ug/L	491.81 ppb	04:51:51
1	Sc 361.383	812865.0	812865.0	102.79 %		04:53:08
1	Y 371.029	719429.6	719429.6	101.76 %		04:53:08
1	Ag 328.068†	101893.4	98952.6	500.17 ug/L	500.17 ppb	04:53:13
1	As 188.979†	1157.8	1155.0	506.37 ug/L	506.37 ppb	04:53:33
1	B 249.677†	20019.3	19700.4	487.63 ug/L	487.63 ppb	04:53:13
1	Ba 233.527†	44172.0	42977.6	499.65 ug/L	499.65 ppb	04:53:13
1	Be 313.107†	1325267.1	1298645.3	509.20 ug/L	509.20 ppb	04:53:08
1	Cd 226.502†	37154.1	36328.8	499.30 ug/L	499.30 ppb	04:53:13
1	Co 228.616†	17492.9	17082.6	508.30 ug/L	508.30 ppb	04:53:13
1	Cr 267.716†	38635.4	37526.0	500.99 ug/L	500.99 ppb	04:53:13
1	Cu 324.752†	145688.1	134011.9	494.29 ug/L	494.29 ppb	04:53:13
1	Mn 257.610†	326435.9	317149.3	498.55 ug/L	498.55 ppb	04:53:13
1	Mo 202.031†	5643.1	5478.1	495.73 ug/L	495.73 ppb	04:53:33
1	Ni 231.604†	16791.7	16255.6	501.55 ug/L	501.55 ppb	04:53:13
1	P 214.914†	4895.3	4563.7	2379.3 ug/L	2379.3 ppb	04:53:33
1	Pb 220.353†	3159.8	3131.6	498.95 ug/L	498.95 ppb	04:53:33
1	S 181.975 Axial†	857.3	793.0	984.17 ug/L	984.17 ppb	04:53:33
1	Sb 206.836†	1309.8	1241.4	504.44 ug/L	504.44 ppb	04:53:33
1	Se 196.026†	831.8	828.2	505.20 ug/L	505.20 ppb	04:53:33
1	Si 251.611†	71886.7	69385.3	2468.4 ug/L	2468.4 ppb	04:53:13
1	Sn 189.927†	2226.4	2153.0	492.66 ug/L	492.66 ppb	04:53:33
1	Ti 334.940†	255403.8	249809.5	494.77 ug/L	494.77 ppb	04:53:13
1	Tl 190.801†	1087.9	1094.1	499.34 ug/L	499.34 ppb	04:53:33
1	U 409.014†	12712.5	14736.2	486.92 ug/L	486.92 ppb	04:53:13
1	V 292.402†	64361.5	64274.7	505.70 ug/L	505.70 ppb	04:53:13
1	Zn 213.857†	48848.3	46725.8	497.44 ug/L	497.44 ppb	04:53:13
1	SiO2†	71629.7	69126.1	5276.2 ug/L	5276.2 ppb	04:54:40
2	Sc Radial	4660.8	4660.8	98.2 %		04:52:16
2	Y RADIAL	4919.6	4919.6	97.61 %		04:52:16
2	Al 396.153Radial†	5417.1	5600.8	5103.9 ug/L	5103.9 ppb	04:52:16
2	Ca 317.933Radial†	2821.6	2856.1	5111.0 ug/L	5111.0 ppb	04:52:36
2	Fe 238.204 Radial†	475.2	476.8	4964.3 ug/L	4964.3 ppb	04:52:36
2	K 766.490 Radial†	29342.2	27583.8	5202.7 ug/L	5202.7 ppb	04:52:16
2	Mg 279.077 IEC†	129.7	130.0	5123.8 ug/L	5123.8 ppb	04:52:36
2	Na 589.592 Radial†	27858.8	29116.5	8859.8 ug/L	8859.8 ppb	04:52:16
2	Sr 421.552†	67615.2	68859.8	490.65 ug/L	490.65 ppb	04:52:16
2	Sc 361.383	798282.3	798282.3	100.94 %		04:53:39
2	Y 371.029	705290.9	705290.9	99.760 %		04:53:39
2	Ag 328.068†	101369.0	100244.0	506.62 ug/L	506.62 ppb	04:53:44
2	As 188.979†	1145.3	1163.2	509.91 ug/L	509.91 ppb	04:54:04
2	B 249.677†	19872.7	19910.9	492.87 ug/L	492.87 ppb	04:53:44
2	Ba 233.527†	44127.1	43718.2	508.24 ug/L	508.24 ppb	04:53:44
2	Be 313.107†	1299592.0	1296763.1	508.48 ug/L	508.48 ppb	04:53:39
2	Cd 226.502†	37150.0	36985.0	508.34 ug/L	508.34 ppb	04:53:44
2	Co 228.616†	17446.2	17347.3	516.19 ug/L	516.19 ppb	04:53:44
2	Cr 267.716†	38534.2	38112.3	508.82 ug/L	508.82 ppb	04:53:44
2	Cu 324.752†	144896.4	135816.8	500.94 ug/L	500.94 ppb	04:53:44
2	Mn 257.610†	325663.2	322185.2	506.45 ug/L	506.45 ppb	04:53:44
2	Mo 202.031†	5657.5	5592.6	506.06 ug/L	506.06 ppb	04:54:04
2	Ni 231.604†	16696.1	16459.4	507.84 ug/L	507.84 ppb	04:53:44

2	P 214.914†	4897.3	4652.6	2426.5 ug/L	2426.5 ppb	04:54:04
2	Pb 220.353†	3159.5	3187.5	507.87 ug/L	507.87 ppb	04:54:04
2	S 181.975 Axial†	862.2	813.1	1009.0 ug/L	1009.0 ppb	04:54:04
2	Sb 206.836†	1305.0	1259.9	512.07 ug/L	512.07 ppb	04:54:04
2	Se 196.026†	833.8	844.9	514.77 ug/L	514.77 ppb	04:54:04
2	Si 251.611†	71659.5	70437.8	2505.8 ug/L	2505.8 ppb	04:53:44
2	Sn 189.927†	2231.3	2197.3	502.79 ug/L	502.79 ppb	04:54:04
2	Ti 334.940†	254731.2	253682.3	502.44 ug/L	502.44 ppb	04:53:44
2	Tl 190.801†	1093.1	1118.6	510.48 ug/L	510.48 ppb	04:54:04
2	U 409.014†	12616.4	14866.9	491.26 ug/L	491.26 ppb	04:53:44
2	V 292.402†	63987.7	65048.2	511.87 ug/L	511.87 ppb	04:53:44
2	Zn 213.857†	48650.3	47397.8	504.64 ug/L	504.64 ppb	04:53:44
2	SiO2†	70895.8	69672.0	5317.7 ug/L	5317.7 ppb	04:54:45
3	Sc Radial	4669.0	4669.0	98.3 %		04:52:41
3	Y RADIAL	4945.9	4945.9	98.13 %		04:52:41
3	Al 396.153Radial†	5433.5	5607.8	5110.7 ug/L	5110.7 ppb	04:52:41
3	Ca 317.933Radial†	2828.0	2857.5	5113.6 ug/L	5113.6 ppb	04:53:01
3	Fe 238.204 Radial†	482.0	482.8	5026.4 ug/L	5026.4 ppb	04:53:01
3	K 766.490 Radial†	29446.3	27637.0	5212.8 ug/L	5212.8 ppb	04:52:41
3	Mg 279.077 IEC†	134.7	134.8	5312.9 ug/L	5312.9 ppb	04:53:01
3	Na 589.592 Radial†	27966.0	29175.6	8877.8 ug/L	8877.8 ppb	04:52:41
3	Sr 421.552†	67796.5	68922.9	491.10 ug/L	491.10 ppb	04:52:41
3	Sc 361.383	810790.4	810790.4	102.53 %		04:54:10
3	Y 371.029	717239.5	717239.5	101.45 %		04:54:10
3	Ag 328.068†	102306.1	99608.7	503.44 ug/L	503.44 ppb	04:54:15
3	As 188.979†	1149.4	1149.7	504.06 ug/L	504.06 ppb	04:54:35
3	B 249.677†	20072.1	19801.8	490.16 ug/L	490.16 ppb	04:54:15
3	Ba 233.527†	44390.3	43300.5	503.39 ug/L	503.39 ppb	04:54:15
3	Be 313.107†	1319364.6	1296187.3	508.25 ug/L	508.25 ppb	04:54:10
3	Cd 226.502†	37279.4	36543.4	502.26 ug/L	502.26 ppb	04:54:15
3	Co 228.616†	17581.9	17213.0	512.18 ug/L	512.18 ppb	04:54:15
3	Cr 267.716†	38737.3	37721.6	503.60 ug/L	503.60 ppb	04:54:15
3	Cu 324.752†	146400.8	135069.7	498.19 ug/L	498.19 ppb	04:54:15
3	Mn 257.610†	327422.1	318923.8	501.33 ug/L	501.33 ppb	04:54:15
3	Mo 202.031†	5642.3	5491.2	496.91 ug/L	496.91 ppb	04:54:35
3	Ni 231.604†	16859.2	16363.3	504.87 ug/L	504.87 ppb	04:54:15
3	P 214.914†	4873.2	4554.3	2373.5 ug/L	2373.5 ppb	04:54:35
3	Pb 220.353†	3148.3	3128.2	498.44 ug/L	498.44 ppb	04:54:35
3	S 181.975 Axial†	855.2	793.1	984.22 ug/L	984.22 ppb	04:54:35
3	Sb 206.836†	1300.3	1235.4	502.08 ug/L	502.08 ppb	04:54:35
3	Se 196.026†	833.0	831.4	506.86 ug/L	506.86 ppb	04:54:35
3	Si 251.611†	72166.2	69836.8	2484.5 ug/L	2484.5 ppb	04:54:15
3	Sn 189.927†	2212.9	2145.3	490.91 ug/L	490.91 ppb	04:54:35
3	Ti 334.940†	256473.5	251488.6	498.08 ug/L	498.08 ppb	04:54:15
3	Tl 190.801†	1094.6	1103.4	503.54 ug/L	503.54 ppb	04:54:35
3	U 409.014†	12778.2	14831.9	490.10 ug/L	490.10 ppb	04:54:15
3	V 292.402†	64591.9	64659.6	508.73 ug/L	508.73 ppb	04:54:15
3	Zn 213.857†	48949.8	46946.3	499.80 ug/L	499.80 ppb	04:54:15
3	SiO2†	71458.4	69137.3	5277.1 ug/L	5277.1 ppb	04:54:51

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	807312.5	102.09 %	0.998			0.98%
Sc Radial	4637.3	97.7 %	1.01			1.03%
Y 371.029	713986.7	100.99 %	1.076			1.07%
Y RADIAL	4903.9	97.30 %	1.027			1.06%
Ag 328.068†	99601.8	503.41 ug/L	3.227	503.41 ppb	3.227	0.64%
QC value within limits for Ag 328.068 Recovery = 100.68%						
Al 396.153Radial†	5598.5	5102.1 ug/L	9.70	5102.1 ppb	9.70	0.19%
QC value within limits for Al 396.153Radial Recovery = 102.04%						
As 188.979†	1156.0	506.78 ug/L	2.946	506.78 ppb	2.946	0.58%
QC value within limits for As 188.979 Recovery = 101.36%						
B 249.677†	19804.4	490.22 ug/L	2.622	490.22 ppb	2.622	0.53%
QC value within limits for B 249.677 Recovery = 98.04%						
Ba 233.527†	43332.1	503.76 ug/L	4.310	503.76 ppb	4.310	0.86%
QC value within limits for Ba 233.527 Recovery = 100.75%						
Be 313.107†	1297198.6	508.64 ug/L	0.497	508.64 ppb	0.497	0.10%
QC value within limits for Be 313.107 Recovery = 101.73%						
Ca 317.933Radial†	2874.0	5143.2 ug/L	53.55	5143.2 ppb	53.55	1.04%

QC value within limits for Ca 317.933 Radial Recovery = 102.86%

Cd 226.502†	36619.0	503.30 ug/L	4.611	503.30 ppb	4.611	0.92%
QC value within limits for Cd 226.502 Recovery = 100.66%						
Co 228.616†	17214.3	512.22 ug/L	3.943	512.22 ppb	3.943	0.77%
QC value within limits for Co 228.616 Recovery = 102.44%						
Cr 267.716†	37786.6	504.47 ug/L	3.983	504.47 ppb	3.983	0.79%
QC value within limits for Cr 267.716 Recovery = 100.89%						
Cu 324.752†	134966.1	497.81 ug/L	3.339	497.81 ppb	3.339	0.67%
QC value within limits for Cu 324.752 Recovery = 99.56%						
Fe 238.204 Radial†	484.7	5045.8 ug/L	92.63	5045.8 ppb	92.63	1.84%
QC value within limits for Fe 238.204 Radial Recovery = 100.92%						
K 766.490 Radial†	27659.2	5217.0 ug/L	16.70	5217.0 ppb	16.70	0.32%
QC value within limits for K 766.490 Radial Recovery = 104.34%						
Mg 279.077 IEC†	133.2	5249.0 ug/L	108.47	5249.0 ppb	108.47	2.07%
QC value within limits for Mg 279.077 IEC Recovery = 104.98%						
Mn 257.610†	319419.4	502.11 ug/L	4.008	502.11 ppb	4.008	0.80%
QC value within limits for Mn 257.610 Recovery = 100.42%						
Mo 202.031†	5520.6	499.57 ug/L	5.657	499.57 ppb	5.657	1.13%
QC value within limits for Mo 202.031 Recovery = 99.91%						
Na 589.592 Radial†	29212.7	8889.1 ug/L	36.24	8889.1 ppb	36.24	0.41%
QC value less than the lower limit for Na 589.592 Radial Recovery = 88.89%						
Ni 231.604†	16359.4	504.75 ug/L	3.145	504.75 ppb	3.145	0.62%
QC value within limits for Ni 231.604 Recovery = 100.95%						
P 214.914†	4590.2	2393.1 ug/L	29.06	2393.1 ppb	29.06	1.21%
QC value within limits for P 214.914 Recovery = 95.72%						
Pb 220.353†	3149.1	501.75 ug/L	5.302	501.75 ppb	5.302	1.06%
QC value within limits for Pb 220.353 Recovery = 100.35%						
S 181.975 Axial†	799.7	992.48 ug/L	14.347	992.48 ppb	14.347	1.45%
QC value within limits for S 181.975 Axial Recovery = 99.25%						
Sb 206.836†	1245.5	506.20 ug/L	5.218	506.20 ppb	5.218	1.03%
QC value within limits for Sb 206.836 Recovery = 101.24%						
Se 196.026†	834.8	508.94 ug/L	5.111	508.94 ppb	5.111	1.00%
QC value within limits for Se 196.026 Recovery = 101.79%						
Si 251.611†	69886.6	2486.3 ug/L	18.77	2486.3 ppb	18.77	0.75%
QC value within limits for Si 251.611 Recovery = 99.45%						
Sn 189.927†	2165.2	495.45 ug/L	6.417	495.45 ppb	6.417	1.30%
QC value within limits for Sn 189.927 Recovery = 99.09%						
Sr 421.552†	68935.4	491.18 ug/L	0.588	491.18 ppb	0.588	0.12%
QC value within limits for Sr 421.552 Recovery = 98.24%						
Ti 334.940†	251660.1	498.43 ug/L	3.847	498.43 ppb	3.847	0.77%
QC value within limits for Ti 334.940 Recovery = 99.69%						
Tl 190.801†	1105.4	504.45 ug/L	5.629	504.45 ppb	5.629	1.12%
QC value within limits for Tl 190.801 Recovery = 100.89%						
U 409.014†	14811.7	489.43 ug/L	2.245	489.43 ppb	2.245	0.46%
QC value within limits for U 409.014 Recovery = 97.89%						
V 292.402†	64660.8	508.77 ug/L	3.087	508.77 ppb	3.087	0.61%
QC value within limits for V 292.402 Recovery = 101.75%						
Zn 213.857†	47023.3	500.63 ug/L	3.670	500.63 ppb	3.670	0.73%
QC value within limits for Zn 213.857 Recovery = 100.13%						
SiO2†	69311.8	5290.3 ug/L	23.72	5290.3 ppb	23.72	0.45%
QC value within limits for SiO2 Recovery = 98.93%						

QC Failed. Continue with analysis.

Sequence No.: 92
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/5/2010 04:57:01
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4736.4	4736.4	99.8 %		04:58:53
1	Y RADIAL	5016.8	5016.8	99.54 %		04:58:53
1	Al 396.153Radial†	-52.8	29.6	27.076 ug/L	27.076 ppb	04:59:13
1	Ca 317.933Radial†	22.5	4.3	7.7380 ug/L	7.7380 ppb	04:59:13
1	Fe 238.204 Radial†	8.4	1.1	11.712 ug/L	11.712 ppb	04:59:13
1	K 766.490 Radial†	2542.5	241.9	45.690 ug/L	45.690 ppb	04:58:53
1	Mg 279.077 IEC†	1.3	-0.8	-30.397 ug/L	-30.397 ppb	04:59:13
1	Na 589.592 Radial†	-850.2	-115.2	-35.039 ug/L	-35.039 ppb	04:58:53
1	Sr 421.552†	41.8	23.0	0.1636 ug/L	0.1636 ppb	04:58:53
1	Sc 361.383	798362.4	798362.4	100.95 %		05:00:10
1	Y 371.029	713180.9	713180.9	100.88 %		05:00:10
1	Ag 328.068†	168.0	-10.0	-0.0498 ug/L	-0.0498 ppb	05:00:10
1	As 188.979†	-37.5	-8.5	-3.6899 ug/L	-3.6899 ppb	05:00:30
1	B 249.677†	-279.6	-52.7	-1.3118 ug/L	-1.3118 ppb	05:00:30
1	Ba 233.527†	12.8	16.7	0.1927 ug/L	0.1927 ppb	05:00:30
1	Be 313.107†	-9076.6	341.8	0.1339 ug/L	0.1339 ppb	05:00:10
1	Cd 226.502†	-187.1	-2.7	-0.0382 ug/L	-0.0382 ppb	05:00:30
1	Co 228.616†	-69.0	-4.0	-0.1171 ug/L	-0.1171 ppb	05:00:30
1	Cr 267.716†	64.8	3.0	0.0388 ug/L	0.0388 ppb	05:00:30
1	Cu 324.752†	7714.1	-82.6	-0.3046 ug/L	-0.3046 ppb	05:00:10
1	Mn 257.610†	459.5	24.7	0.0413 ug/L	0.0413 ppb	05:00:30
1	Mo 202.031†	16.0	3.8	0.3465 ug/L	0.3465 ppb	05:00:30
1	Ni 231.604†	81.4	0.1	0.0033 ug/L	0.0033 ppb	05:00:30
1	P 214.914†	194.1	-6.6	-3.5006 ug/L	-3.5006 ppb	05:00:30
1	Pb 220.353†	-64.4	-6.2	-0.9842 ug/L	-0.9842 ppb	05:00:30
1	S 181.975 Axial†	41.9	0.5	0.5864 ug/L	0.5864 ppb	05:00:30
1	Sb 206.836†	23.4	-9.7	-3.7647 ug/L	-3.7647 ppb	05:00:30
1	Se 196.026†	-26.2	-7.0	-4.0991 ug/L	-4.0991 ppb	05:00:30
1	Si 251.611†	620.8	63.8	2.2695 ug/L	2.2695 ppb	05:00:30
1	Sn 189.927†	19.6	6.3	1.4443 ug/L	1.4443 ppb	05:00:30
1	Ti 334.940†	-1305.9	41.2	0.0847 ug/L	0.0847 ppb	05:00:10
1	Tl 190.801†	-37.7	-1.7	-0.7505 ug/L	-0.7505 ppb	05:00:30
1	U 409.014†	-2360.8	30.1	0.9971 ug/L	0.9971 ppb	05:00:10
1	V 292.402†	-1740.8	-65.0	-0.5003 ug/L	-0.5003 ppb	05:00:10
1	Zn 213.857†	763.1	-41.4	-0.4467 ug/L	-0.4467 ppb	05:00:30
1	SiO2†	626.7	60.4	4.6153 ug/L	4.6153 ppb	05:01:26
2	Sc Radial	4730.2	4730.2	99.6 %		04:59:18
2	Y RADIAL	5015.4	5015.4	99.51 %		04:59:18
2	Al 396.153Radial†	-69.1	13.1	12.005 ug/L	12.005 ppb	04:59:38
2	Ca 317.933Radial†	23.3	5.2	9.2251 ug/L	9.2251 ppb	04:59:38
2	Fe 238.204 Radial†	7.5	0.2	2.1678 ug/L	2.1678 ppb	04:59:38
2	K 766.490 Radial†	2549.5	252.3	47.652 ug/L	47.652 ppb	04:59:18
2	Mg 279.077 IEC†	1.3	-0.8	-33.076 ug/L	-33.076 ppb	04:59:38
2	Na 589.592 Radial†	-868.0	-134.1	-40.817 ug/L	-40.817 ppb	04:59:18
2	Sr 421.552†	30.7	11.9	0.0847 ug/L	0.0847 ppb	04:59:18
2	Sc 361.383	804327.1	804327.1	101.71 %		05:00:36
2	Y 371.029	717633.4	717633.4	101.51 %		05:00:36
2	Ag 328.068†	258.9	78.0	0.3880 ug/L	0.3880 ppb	05:00:36
2	As 188.979†	-25.6	3.5	1.5130 ug/L	1.5130 ppb	05:00:56
2	B 249.677†	-274.0	-45.2	-1.1248 ug/L	-1.1248 ppb	05:00:56
2	Ba 233.527†	3.3	7.3	0.0836 ug/L	0.0836 ppb	05:00:56
2	Be 313.107†	-9252.9	235.1	0.0927 ug/L	0.0927 ppb	05:00:36
2	Cd 226.502†	-188.6	-2.8	-0.0374 ug/L	-0.0374 ppb	05:00:56
2	Co 228.616†	-54.5	10.7	0.3184 ug/L	0.3184 ppb	05:00:56
2	Cr 267.716†	53.6	-8.5	-0.1152 ug/L	-0.1152 ppb	05:00:56
2	Cu 324.752†	7783.4	-71.1	-0.2639 ug/L	-0.2639 ppb	05:00:36
2	Mn 257.610†	462.5	24.3	0.0397 ug/L	0.0397 ppb	05:00:56
2	Mo 202.031†	9.6	-2.5	-0.2255 ug/L	-0.2255 ppb	05:00:56
2	Ni 231.604†	95.5	13.4	0.4140 ug/L	0.4140 ppb	05:00:56

2	P 214.914†	185.2	-16.7	-9.0261 ug/L	-9.0261 ppb	05:00:56
2	Pb 220.353†	-59.2	-0.7	-0.1056 ug/L	-0.1056 ppb	05:00:56
2	S 181.975 Axial†	44.6	2.8	3.5153 ug/L	3.5153 ppb	05:00:56
2	Sb 206.836†	37.0	3.5	1.3597 ug/L	1.3597 ppb	05:00:56
2	Se 196.026†	-33.8	-14.3	-8.4821 ug/L	-8.4821 ppb	05:00:56
2	Si 251.611†	614.2	52.8	1.8846 ug/L	1.8846 ppb	05:00:56
2	Sn 189.927†	7.8	-5.4	-1.2262 ug/L	-1.2262 ppb	05:00:56
2	Ti 334.940†	-1202.0	152.9	0.3056 ug/L	0.3056 ppb	05:00:36
2	Tl 190.801†	-24.3	11.8	5.3585 ug/L	5.3585 ppb	05:00:56
2	U 409.014†	-2318.6	89.0	2.9497 ug/L	2.9497 ppb	05:00:36
2	V 292.402†	-1757.7	-68.8	-0.5332 ug/L	-0.5332 ppb	05:00:36
2	Zn 213.857†	759.1	-51.0	-0.5501 ug/L	-0.5501 ppb	05:00:56
2	SiO2†	650.7	79.4	6.0821 ug/L	6.0821 ppb	05:01:31
3	Sc Radial	4692.4	4692.4	98.8 %		04:59:44
3	Y RADIAL	4979.4	4979.4	98.80 %		04:59:44
3	Al 396.153Radial†	-61.7	20.0	18.320 ug/L	18.320 ppb	05:00:04
3	Ca 317.933Radial†	22.5	4.5	8.0252 ug/L	8.0252 ppb	05:00:04
3	Fe 238.204 Radial†	6.7	-0.5	-5.4677 ug/L	-5.4677 ppb	05:00:04
3	K 766.490 Radial†	2491.0	213.8	40.390 ug/L	40.390 ppb	04:59:44
3	Mg 279.077 IEC†	0.4	-1.8	-68.975 ug/L	-68.975 ppb	05:00:04
3	Na 589.592 Radial†	-961.0	-235.4	-71.614 ug/L	-71.614 ppb	04:59:44
3	Sr 421.552†	15.7	-3.0	-0.0217 ug/L	-0.0217 ppb	04:59:44
3	Sc 361.383	808024.6	808024.6	102.18 %		05:01:01
3	Y 371.029	721100.5	721100.5	102.00 %		05:01:01
3	Ag 328.068†	200.3	19.6	0.0967 ug/L	0.0967 ppb	05:01:01
3	As 188.979†	-32.6	-3.3	-1.4457 ug/L	-1.4457 ppb	05:01:21
3	B 249.677†	-267.5	-37.6	-0.9353 ug/L	-0.9353 ppb	05:01:21
3	Ba 233.527†	12.7	16.4	0.1903 ug/L	0.1903 ppb	05:01:21
3	Be 313.107†	-9226.2	302.8	0.1187 ug/L	0.1187 ppb	05:01:01
3	Cd 226.502†	-196.0	-9.2	-0.1256 ug/L	-0.1256 ppb	05:01:21
3	Co 228.616†	-52.5	13.0	0.3877 ug/L	0.3877 ppb	05:01:21
3	Cr 267.716†	72.1	9.3	0.1243 ug/L	0.1243 ppb	05:01:21
3	Cu 324.752†	7870.6	-20.8	-0.0768 ug/L	-0.0768 ppb	05:01:01
3	Mn 257.610†	463.5	23.2	0.0387 ug/L	0.0387 ppb	05:01:21
3	Mo 202.031†	15.5	3.2	0.2881 ug/L	0.2881 ppb	05:01:21
3	Ni 231.604†	81.3	-1.0	-0.0300 ug/L	-0.0300 ppb	05:01:21
3	P 214.914†	194.8	-8.1	-4.4030 ug/L	-4.4030 ppb	05:01:21
3	Pb 220.353†	-66.2	-7.3	-1.1495 ug/L	-1.1495 ppb	05:01:21
3	S 181.975 Axial†	47.0	5.0	6.1908 ug/L	6.1908 ppb	05:01:21
3	Sb 206.836†	35.4	1.7	0.6761 ug/L	0.6761 ppb	05:01:21
3	Se 196.026†	-21.7	-2.3	-1.3469 ug/L	-1.3469 ppb	05:01:21
3	Si 251.611†	605.0	41.0	1.4570 ug/L	1.4570 ppb	05:01:21
3	Sn 189.927†	9.7	-3.6	-0.8222 ug/L	-0.8222 ppb	05:01:21
3	Ti 334.940†	-1309.7	52.9	0.1116 ug/L	0.1116 ppb	05:01:01
3	Tl 190.801†	-24.6	11.7	5.2834 ug/L	5.2834 ppb	05:01:21
3	U 409.014†	-2426.0	-5.7	-0.1899 ug/L	-0.1899 ppb	05:01:01
3	V 292.402†	-1693.4	2.0	0.0183 ug/L	0.0183 ppb	05:01:01
3	Zn 213.857†	772.9	-40.9	-0.4381 ug/L	-0.4381 ppb	05:01:21
3	SiO2†	634.5	60.6	4.6306 ug/L	4.6306 ppb	05:01:36

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	803571.4	101.61 %	0.616			0.61%
Sc Radial	4719.7	99.4 %	0.50			0.51%
Y 371.029	717305.0	101.46 %	0.562			0.55%
Y RADIAL	5003.9	99.28 %	0.420			0.42%
Ag 328.068†	29.2	0.1450 ug/L	0.22285	0.1450 ppb	0.22285	153.71%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	20.9	19.134 ug/L	7.5682	19.134 ppb	7.5682	39.55%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.8	-1.2075 ug/L	2.60961	-1.2075 ppb	2.60961	216.12%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-45.2	-1.1240 ug/L	0.18821	-1.1240 ppb	0.18821	16.75%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	13.5	0.1555 ug/L	0.06235	0.1555 ppb	0.06235	40.09%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	293.2	0.1151 ug/L	0.02085	0.1151 ppb	0.02085	18.12%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.7	8.3294 ug/L	0.78885	8.3294 ppb	0.78885	9.47%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-4.9	-0.0670 ug/L	0.05068	-0.0670 ppb	0.05068	75.58%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	6.6	0.1963 ug/L	0.27366	0.1963 ppb	0.27366	139.40%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	1.3	0.0160 ug/L	0.12137	0.0160 ppb	0.12137	759.36%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-58.2	-0.2151 ug/L	0.12147	-0.2151 ppb	0.12147	56.47%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.3	2.8041 ug/L	8.60758	2.8041 ppb	8.60758	306.97%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	236.0	44.577 ug/L	3.7568	44.577 ppb	3.7568	8.43%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.1	-44.150 ug/L	21.5412	-44.150 ppb	21.5412	48.79%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	24.1	0.0399 ug/L	0.00127	0.0399 ppb	0.00127	3.19%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	1.5	0.1364 ug/L	0.31473	0.1364 ppb	0.31473	230.78%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-161.5	-49.157 ug/L	19.6622	-49.157 ppb	19.6622	40.00%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	4.2	0.1291 ug/L	0.24728	0.1291 ppb	0.24728	191.57%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-10.5	-5.6432 ug/L	2.96419	-5.6432 ppb	2.96419	52.53%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-4.7	-0.7464 ug/L	0.56114	-0.7464 ppb	0.56114	75.18%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.8	3.4308 ug/L	2.80317	3.4308 ppb	2.80317	81.71%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-1.5	-0.5763 ug/L	2.78229	-0.5763 ppb	2.78229	482.79%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-7.8	-4.6427 ug/L	3.59848	-4.6427 ppb	3.59848	77.51%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	52.5	1.8703 ug/L	0.40643	1.8703 ppb	0.40643	21.73%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.9	-0.2013 ug/L	1.43944	-0.2013 ppb	1.43944	714.91%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	10.6	0.0755 ug/L	0.09298	0.0755 ppb	0.09298	123.14%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	82.4	0.1673 ug/L	0.12054	0.1673 ppb	0.12054	72.04%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	7.3	3.2971 ug/L	3.50558	3.2971 ppb	3.50558	106.32%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	37.8	1.2523 ug/L	1.58531	1.2523 ppb	1.58531	126.59%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-43.9	-0.3384 ug/L	0.30938	-0.3384 ppb	0.30938	91.43%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-44.4	-0.4783 ug/L	0.06234	-0.4783 ppb	0.06234	13.03%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	66.8	5.1093 ug/L	0.84248	5.1093 ppb	0.84248	16.49%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/9/2010 14:20:18

Plasma On Time: 3/8/2010 08:27:38

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\030910.sif

Batch ID:

Results Data Set: 030910

Results Library: C:\pe\Optima3\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/9/2010 14:20:19

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3337.3	3337.3	0.000 %	14:22:32
1	Y RADIAL	2736.9	2736.9	0.000 %	14:22:32
1	Al 396.153Radial†	-56.1	-56.3	[0.00] ug/L	14:22:32
1	Ca 317.933Radial†	11.3	11.4	[0.00] ug/L	14:22:32
1	Fe 238.204 Radial†	7.6	7.6	[0.00] ug/L	14:22:32
1	K 766.490 Radial†	2170.6	2179.1	[0.00] ug/L	14:22:12
1	Mg 279.077 IEC†	1.3	1.3	[0.00] ug/L	14:22:32
1	Na 589.592 Radial†	-782.6	-785.7	[0.00] ug/L	14:22:12
1	Sr 421.552†	27.6	27.7	[0.00] ug/L	14:22:12
1	Sc 361.383	840233.2	840233.2	0.0000 %	14:23:28
1	Y 371.029	720681.8	720681.8	0.0000 %	14:23:28
1	Ag 328.068†	125.9	125.1	[0.00] ug/L	14:23:33
1	As 188.979†	-14.5	-14.4	[0.00] ug/L	14:23:53
1	B 249.677†	-82.9	-82.4	[0.00] ug/L	14:23:33
1	Ba 233.527†	-3.3	-3.3	[0.00] ug/L	14:23:53
1	Be 313.107†	-3606.6	-3583.0	[0.00] ug/L	14:23:33
1	Cd 226.502†	-145.9	-144.9	[0.00] ug/L	14:23:53
1	Co 228.616†	-46.5	-46.2	[0.00] ug/L	14:23:53
1	Cr 267.716†	53.4	53.1	[0.00] ug/L	14:23:33
1	Cu 324.752†	6055.5	6016.0	[0.00] ug/L	14:23:33
1	Mn 257.610†	396.9	394.3	[0.00] ug/L	14:23:33
1	Mo 202.031†	18.2	18.0	[0.00] ug/L	14:23:53
1	Ni 231.604†	53.1	52.8	[0.00] ug/L	14:23:53
1	P 214.914†	179.2	178.0	[0.00] ug/L	14:23:53
1	Pb 220.353†	-42.5	-42.2	[0.00] ug/L	14:23:53
1	S 181.975 Axial†	30.7	30.5	[0.00] ug/L	14:23:53
1	Sb 206.836†	32.2	32.0	[0.00] ug/L	14:23:53
1	Se 196.026†	-21.4	-21.3	[0.00] ug/L	14:23:53
1	Si 251.611†	468.5	465.4	[0.00] ug/L	14:23:53
1	Sn 189.927†	6.1	6.1	[0.00] ug/L	14:23:53
1	Ti 334.940†	-1041.2	-1034.4	[0.00] ug/L	14:23:33
1	Tl 190.801†	-30.8	-30.6	[0.00] ug/L	14:23:53
1	U 409.014†	-2092.4	-2078.7	[0.00] ug/L	14:23:28
1	V 292.402†	-1310.6	-1302.1	[0.00] ug/L	14:23:33
1	Zn 213.857†	509.0	505.7	[0.00] ug/L	14:23:53
1	SiO2†	478.2	475.1	[0.00] ug/L	14:25:14
2	Sc Radial	3401.0	3401.0	0.000 %	14:22:57
2	Y RADIAL	2775.6	2775.6	0.000 %	14:22:57
2	Al 396.153Radial†	-53.7	-52.9	[0.00] ug/L	14:22:57
2	Ca 317.933Radial†	8.2	8.1	[0.00] ug/L	14:22:57
2	Fe 238.204 Radial†	8.8	8.6	[0.00] ug/L	14:22:57
2	K 766.490 Radial†	2119.4	2087.9	[0.00] ug/L	14:22:37
2	Mg 279.077 IEC†	0.4	0.4	[0.00] ug/L	14:22:57
2	Na 589.592 Radial†	-761.4	-750.0	[0.00] ug/L	14:22:37
2	Sr 421.552†	23.0	22.7	[0.00] ug/L	14:22:37
2	Sc 361.383	829615.0	829615.0	0.0000 %	14:23:59
2	Y 371.029	710875.7	710875.7	0.0000 %	14:23:59

2	Ag 328.068†	159.0	160.0	[0.00]	ug/L	14:24:04
2	As 188.979†	-21.2	-21.4	[0.00]	ug/L	14:24:24
2	B 249.677†	-66.7	-67.1	[0.00]	ug/L	14:24:04
2	Ba 233.527†	-5.8	-5.8	[0.00]	ug/L	14:24:24
2	Be 313.107†	-3630.4	-3652.9	[0.00]	ug/L	14:24:04
2	Cd 226.502†	-136.1	-136.9	[0.00]	ug/L	14:24:24
2	Co 228.616†	-42.9	-43.2	[0.00]	ug/L	14:24:24
2	Cr 267.716†	91.5	92.1	[0.00]	ug/L	14:24:04
2	Cu 324.752†	6092.0	6129.7	[0.00]	ug/L	14:24:04
2	Mn 257.610†	396.2	398.6	[0.00]	ug/L	14:24:04
2	Mo 202.031†	10.4	10.4	[0.00]	ug/L	14:24:24
2	Ni 231.604†	50.8	51.1	[0.00]	ug/L	14:24:24
2	P 214.914†	176.1	177.2	[0.00]	ug/L	14:24:24
2	Pb 220.353†	-46.8	-47.0	[0.00]	ug/L	14:24:24
2	S 181.975 Axial†	36.2	36.4	[0.00]	ug/L	14:24:24
2	Sb 206.836†	26.9	27.1	[0.00]	ug/L	14:24:24
2	Se 196.026†	-19.1	-19.2	[0.00]	ug/L	14:24:24
2	Si 251.611†	436.2	438.9	[0.00]	ug/L	14:24:24
2	Sn 189.927†	6.2	6.3	[0.00]	ug/L	14:24:24
2	Ti 334.940†	-931.6	-937.4	[0.00]	ug/L	14:24:04
2	Tl 190.801†	-25.2	-25.4	[0.00]	ug/L	14:24:24
2	U 409.014†	-1971.2	-1983.4	[0.00]	ug/L	14:23:59
2	V 292.402†	-1218.9	-1226.4	[0.00]	ug/L	14:24:04
2	Zn 213.857†	500.0	503.1	[0.00]	ug/L	14:24:24
2	SiO2†	482.6	485.6	[0.00]	ug/L	14:25:34
3	Sc Radial	3312.9	3312.9	0.000	%	14:23:22
3	Y RADIAL	2717.2	2717.2	0.000	%	14:23:22
3	Al 396.153Radial†	-70.1	-70.9	[0.00]	ug/L	14:23:22
3	Ca 317.933Radial†	11.0	11.2	[0.00]	ug/L	14:23:22
3	Fe 238.204 Radial†	9.5	9.6	[0.00]	ug/L	14:23:22
3	K 766.490 Radial†	2053.1	2076.3	[0.00]	ug/L	14:23:02
3	Mg 279.077 IEC†	-0.3	-0.3	[0.00]	ug/L	14:23:22
3	Na 589.592 Radial†	-803.0	-812.1	[0.00]	ug/L	14:23:02
3	Sr 421.552†	56.0	56.7	[0.00]	ug/L	14:23:02
3	Sc 361.383	834386.6	834386.6	0.0000	%	14:24:29
3	Y 371.029	715436.0	715436.0	0.0000	%	14:24:29
3	Ag 328.068†	192.1	192.2	[0.00]	ug/L	14:24:34
3	As 188.979†	-12.1	-12.1	[0.00]	ug/L	14:24:54
3	B 249.677†	-121.1	-121.2	[0.00]	ug/L	14:24:34
3	Ba 233.527†	-12.4	-12.4	[0.00]	ug/L	14:24:54
3	Be 313.107†	-3600.2	-3601.7	[0.00]	ug/L	14:24:34
3	Cd 226.502†	-142.8	-142.8	[0.00]	ug/L	14:24:54
3	Co 228.616†	-41.3	-41.3	[0.00]	ug/L	14:24:54
3	Cr 267.716†	52.0	52.0	[0.00]	ug/L	14:24:34
3	Cu 324.752†	6063.1	6065.7	[0.00]	ug/L	14:24:34
3	Mn 257.610†	376.0	376.2	[0.00]	ug/L	14:24:34
3	Mo 202.031†	12.8	12.8	[0.00]	ug/L	14:24:54
3	Ni 231.604†	55.1	55.1	[0.00]	ug/L	14:24:54
3	P 214.914†	170.9	171.0	[0.00]	ug/L	14:24:54
3	Pb 220.353†	-42.5	-42.5	[0.00]	ug/L	14:24:54
3	S 181.975 Axial†	25.6	25.6	[0.00]	ug/L	14:24:54
3	Sb 206.836†	26.4	26.4	[0.00]	ug/L	14:24:54
3	Se 196.026†	-17.2	-17.2	[0.00]	ug/L	14:24:54
3	Si 251.611†	452.7	452.9	[0.00]	ug/L	14:24:54
3	Sn 189.927†	11.1	11.1	[0.00]	ug/L	14:24:54
3	Ti 334.940†	-908.6	-909.0	[0.00]	ug/L	14:24:34
3	Tl 190.801†	-37.3	-37.3	[0.00]	ug/L	14:24:54
3	U 409.014†	-1946.5	-1947.4	[0.00]	ug/L	14:24:29
3	V 292.402†	-1211.3	-1211.8	[0.00]	ug/L	14:24:34
3	Zn 213.857†	498.4	498.6	[0.00]	ug/L	14:24:54
3	SiO2†	474.6	474.8	[0.00]	ug/L	14:25:54

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	834744.9	5318.13	0.64%	0.0000 %
Sc Radial	3350.4	45.52	1.36%	0.000 %
Y 371.029	715664.5	4907.05	0.69%	0.0000 %
Y RADIAL	2743.3	29.69	1.08%	0.000 %
Ag 328.068†	159.1	33.55	21.09%	[0.00] ug/L

Al 396.153Radial†	-60.0	9.57	15.94%	[0.00]	ug/L
As 188.979†	-16.0	4.82	30.19%	[0.00]	ug/L
B 249.677†	-90.2	27.88	30.91%	[0.00]	ug/L
Ba 233.527†	-7.2	4.73	65.86%	[0.00]	ug/L
Be 313.107†	-3612.5	36.17	1.00%	[0.00]	ug/L
Ca 317.933Radial†	10.2	1.84	18.05%	[0.00]	ug/L
Cd 226.502†	-141.6	4.13	2.92%	[0.00]	ug/L
Co 228.616†	-43.6	2.50	5.75%	[0.00]	ug/L
Cr 267.716†	65.7	22.80	34.68%	[0.00]	ug/L
Cu 324.752†	6070.4	57.02	0.94%	[0.00]	ug/L
Fe 238.204 Radial†	8.6	0.99	11.48%	[0.00]	ug/L
K 766.490 Radial†	2114.4	56.29	2.66%	[0.00]	ug/L
Mg 279.077 IEC†	0.4	0.80	178.90%	[0.00]	ug/L
Mn 257.610†	389.7	11.91	3.06%	[0.00]	ug/L
Mo 202.031†	13.8	3.88	28.18%	[0.00]	ug/L
Na 589.592 Radial†	-782.6	31.16	3.98%	[0.00]	ug/L
Ni 231.604†	53.0	2.01	3.79%	[0.00]	ug/L
P 214.914†	175.4	3.85	2.19%	[0.00]	ug/L
Pb 220.353†	-43.9	2.71	6.16%	[0.00]	ug/L
S 181.975 Axial†	30.9	5.41	17.53%	[0.00]	ug/L
Sb 206.836†	28.5	3.07	10.77%	[0.00]	ug/L
Se 196.026†	-19.2	2.04	10.63%	[0.00]	ug/L
Si 251.611†	452.4	13.30	2.94%	[0.00]	ug/L
Sn 189.927†	7.8	2.87	36.73%	[0.00]	ug/L
Sr 421.552†	35.7	18.34	51.40%	[0.00]	ug/L
Ti 334.940†	-960.3	65.75	6.85%	[0.00]	ug/L
Tl 190.801†	-31.1	5.96	19.19%	[0.00]	ug/L
U 409.014†	-2003.2	67.88	3.39%	[0.00]	ug/L
V 292.402†	-1246.8	48.46	3.89%	[0.00]	ug/L
Zn 213.857†	502.5	3.57	0.71%	[0.00]	ug/L
SiO2†	478.5	6.14	1.28%	[0.00]	ug/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 3/9/2010 14:28:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	3448.9	3448.9	103	%	14:30:17
1	Y RADIAL	2822.3	2822.3	102.9	%	14:30:17
1	K 766.490 Radial†	4334.9	2096.7	[1000]	ug/L	14:29:57
1	Sr 421.552†	10280.5	9951.3	[100]	ug/L	14:30:17
1	Sc 361.383	838300.2	838300.2	100.43	%	14:31:14
1	Y 371.029	716959.5	716959.5	100.18	%	14:31:14
1	Ag 328.068†	20515.0	20268.9	[100]	ug/L	14:31:14
1	As 188.979†	167.2	182.4	[100]	ug/L	14:31:34
1	B 249.677†	3318.8	3394.9	[100]	ug/L	14:31:14
1	Ba 233.527†	10949.4	10910.2	[100]	ug/L	14:31:14
1	Be 313.107†	231754.3	234384.0	[100]	ug/L	14:31:14
1	Cd 226.502†	6767.0	6879.9	[100]	ug/L	14:31:34
1	Co 228.616†	3949.2	3976.0	[100]	ug/L	14:31:34
1	Cr 267.716†	7910.7	7811.4	[100]	ug/L	14:31:14
1	Cu 324.752†	37983.1	31751.6	[100]	ug/L	14:31:14
1	Mn 257.610†	79417.0	78690.5	[100]	ug/L	14:31:14
1	Mo 202.031†	1197.0	1178.1	[100]	ug/L	14:31:34
1	Ni 231.604†	3347.5	3280.3	[100]	ug/L	14:31:34
1	P 214.914†	829.1	650.2	[500]	ug/L	14:31:34
1	Pb 220.353†	613.0	654.3	[100]	ug/L	14:31:34
1	S 181.975 Axial†	144.6	113.1	[200]	ug/L	14:31:34
1	Sb 206.836†	278.2	248.5	[100]	ug/L	14:31:34
1	Se 196.026†	110.4	129.2	[100]	ug/L	14:31:34
1	Si 251.611†	14083.8	13571.7	[500]	ug/L	14:31:14
1	Sn 189.927†	447.5	437.8	[100]	ug/L	14:31:34
1	Ti 334.940†	58889.4	59599.9	[100]	ug/L	14:31:14
1	Tl 190.801†	246.0	276.1	[100]	ug/L	14:31:34
1	U 409.014†	1453.4	3450.4	[100]	ug/L	14:31:14
1	V 292.402†	11753.6	12950.5	[100]	ug/L	14:31:14
1	Zn 213.857†	9095.6	8554.6	[100]	ug/L	14:31:14
1	SiO2†	14135.4	13597.0	[1069.5]	ug/L	14:32:30
2	Sc Radial	3447.4	3447.4	103	%	14:30:42
2	Y RADIAL	2818.5	2818.5	102.7	%	14:30:42
2	K 766.490 Radial†	4373.3	2135.8	[1000]	ug/L	14:30:22
2	Sr 421.552†	10349.9	10023.0	[100]	ug/L	14:30:42
2	Sc 361.383	834166.4	834166.4	99.931	%	14:31:40
2	Y 371.029	714364.4	714364.4	99.818	%	14:31:40
2	Ag 328.068†	20510.6	20365.8	[100]	ug/L	14:31:40
2	As 188.979†	166.4	182.5	[100]	ug/L	14:32:00
2	B 249.677†	3245.0	3337.5	[100]	ug/L	14:31:40
2	Ba 233.527†	10994.3	11009.1	[100]	ug/L	14:31:40
2	Be 313.107†	232290.3	236063.9	[100]	ug/L	14:31:40
2	Cd 226.502†	6781.8	6928.1	[100]	ug/L	14:32:00
2	Co 228.616†	3940.0	3986.3	[100]	ug/L	14:32:00
2	Cr 267.716†	7924.5	7864.3	[100]	ug/L	14:31:40
2	Cu 324.752†	37878.5	31834.3	[100]	ug/L	14:31:40
2	Mn 257.610†	79483.6	79149.1	[100]	ug/L	14:31:40
2	Mo 202.031†	1199.2	1186.3	[100]	ug/L	14:32:00
2	Ni 231.604†	3354.7	3304.0	[100]	ug/L	14:32:00
2	P 214.914†	830.7	655.9	[500]	ug/L	14:32:00
2	Pb 220.353†	619.5	663.9	[100]	ug/L	14:32:00
2	S 181.975 Axial†	145.8	115.0	[200]	ug/L	14:32:00
2	Sb 206.836†	266.9	238.6	[100]	ug/L	14:32:00
2	Se 196.026†	107.0	126.3	[100]	ug/L	14:32:00
2	Si 251.611†	14038.5	13595.8	[500]	ug/L	14:31:40
2	Sn 189.927†	455.7	448.2	[100]	ug/L	14:32:00
2	Ti 334.940†	58767.4	59768.4	[100]	ug/L	14:31:40
2	Tl 190.801†	238.4	269.7	[100]	ug/L	14:32:00
2	U 409.014†	1570.0	3574.3	[100]	ug/L	14:31:40

2	V 292.402†	11687.0	12941.8	[100]	ug/L	14:31:40
2	Zn 213.857†	9111.6	8615.4	[100]	ug/L	14:31:40
2	SiO2†	14082.2	13613.5	[1069.5]	ug/L	14:32:35
3	Sc Radial	3397.5	3397.5	101	%	14:31:07
3	Y RADIAL	2774.8	2774.8	101.2	%	14:31:07
3	K 766.490 Radial†	4324.0	2149.7	[1000]	ug/L	14:30:47
3	Sr 421.552†	10206.4	10029.3	[100]	ug/L	14:31:07
3	Sc 361.383	832531.5	832531.5	99.735	%	14:32:05
3	Y 371.029	712648.1	712648.1	99.579	%	14:32:05
3	Ag 328.068†	20394.2	20289.3	[100]	ug/L	14:32:05
3	As 188.979†	169.3	185.7	[100]	ug/L	14:32:25
3	B 249.677†	3216.6	3315.4	[100]	ug/L	14:32:05
3	Ba 233.527†	11003.4	11039.8	[100]	ug/L	14:32:05
3	Be 313.107†	232295.6	236525.8	[100]	ug/L	14:32:05
3	Cd 226.502†	6813.0	6972.7	[100]	ug/L	14:32:25
3	Co 228.616†	3970.5	4024.6	[100]	ug/L	14:32:25
3	Cr 267.716†	7955.2	7910.6	[100]	ug/L	14:32:05
3	Cu 324.752†	37790.0	31820.0	[100]	ug/L	14:32:05
3	Mn 257.610†	79487.1	79308.7	[100]	ug/L	14:32:05
3	Mo 202.031†	1187.6	1177.0	[100]	ug/L	14:32:25
3	Ni 231.604†	3355.9	3311.8	[100]	ug/L	14:32:25
3	P 214.914†	842.7	669.6	[500]	ug/L	14:32:25
3	Pb 220.353†	643.3	688.9	[100]	ug/L	14:32:25
3	S 181.975 Axial†	138.6	108.2	[200]	ug/L	14:32:25
3	Sb 206.836†	265.5	237.7	[100]	ug/L	14:32:25
3	Se 196.026†	109.6	129.2	[100]	ug/L	14:32:25
3	Si 251.611†	14083.5	13668.5	[500]	ug/L	14:32:05
3	Sn 189.927†	454.8	448.2	[100]	ug/L	14:32:25
3	Ti 334.940†	58886.2	60003.1	[100]	ug/L	14:32:05
3	Tl 190.801†	238.6	270.3	[100]	ug/L	14:32:25
3	U 409.014†	1543.6	3550.8	[100]	ug/L	14:32:05
3	V 292.402†	11702.6	12980.5	[100]	ug/L	14:32:05
3	Zn 213.857†	9103.0	8624.7	[100]	ug/L	14:32:05
3	SiO2†	14209.1	13768.4	[1069.5]	ug/L	14:32:41

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	834999.4	2973.19	0.36%	100.03 %
Sc Radial	3431.3	29.26	0.85%	102 %
Y 371.029	714657.3	2170.58	0.30%	99.859 %
Y RADIAL	2805.2	26.41	0.94%	102.3 %
Ag 328.068†	20308.0	51.08	0.25%	[100] ug/L
As 188.979†	183.5	1.87	1.02%	[100] ug/L
B 249.677†	3349.2	41.04	1.23%	[100] ug/L
Ba 233.527†	10986.4	67.76	0.62%	[100] ug/L
Be 313.107†	235657.9	1127.14	0.48%	[100] ug/L
Cd 226.502†	6926.9	46.40	0.67%	[100] ug/L
Co 228.616†	3995.6	25.63	0.64%	[100] ug/L
Cr 267.716†	7862.1	49.66	0.63%	[100] ug/L
Cu 324.752†	31802.0	44.22	0.14%	[100] ug/L
K 766.490 Radial†	2127.4	27.49	1.29%	[1000] ug/L
Mn 257.610†	79049.4	320.95	0.41%	[100] ug/L
Mo 202.031†	1180.5	5.09	0.43%	[100] ug/L
Ni 231.604†	3298.7	16.43	0.50%	[100] ug/L
P 214.914†	658.5	9.94	1.51%	[500] ug/L
Pb 220.353†	669.0	17.88	2.67%	[100] ug/L
S 181.975 Axial†	112.1	3.53	3.15%	[200] ug/L
Sb 206.836†	241.6	6.03	2.49%	[100] ug/L
Se 196.026†	128.2	1.68	1.31%	[100] ug/L
Si 251.611†	13612.0	50.42	0.37%	[500] ug/L
Sn 189.927†	444.7	6.02	1.35%	[100] ug/L
Sr 421.552†	10001.2	43.33	0.43%	[100] ug/L
Ti 334.940†	59790.5	202.46	0.34%	[100] ug/L
Tl 190.801†	272.0	3.53	1.30%	[100] ug/L
U 409.014†	3525.2	65.80	1.87%	[100] ug/L
V 292.402†	12957.6	20.29	0.16%	[100] ug/L
Zn 213.857†	8598.2	38.10	0.44%	[100] ug/L
SiO2†	13659.7	94.58	0.69%	[1069.5] ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 3/9/2010 14:34:51
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3338.0	3338.0	99.6 %	14:37:04
1	Y RADIAL	2720.9	2720.9	99.18 %	14:37:04
1	Al 396.153Radial†	2147.7	2215.7	[5000] ug/L	14:36:44
1	Ca 317.933Radial†	1274.3	1268.8	[5000] ug/L	14:37:04
1	K 766.490 Radial†	12758.2	10691.0	[5000] ug/L	14:36:44
1	Mg 279.077 IEC†	54.8	54.5	[5000] ug/L	14:37:04
1	Sr 421.552†	47615.8	47756.7	[500] ug/L	14:36:44
1	Sc 361.383	845007.7	845007.7	101.23 %	14:38:01
1	Y 371.029	713842.2	713842.2	99.745 %	14:38:01
1	Ag 328.068†	99484.5	98117.2	[500] ug/L	14:38:06
1	As 188.979†	881.6	886.9	[500] ug/L	14:38:26
1	B 249.677†	17470.3	17348.3	[500] ug/L	14:38:06
1	Ba 233.527†	53814.0	53167.5	[500] ug/L	14:38:06
1	Be 313.107†	1170811.1	1160203.9	[500] ug/L	14:38:01
1	Cd 226.502†	34689.7	34409.9	[500] ug/L	14:38:06
1	Co 228.616†	19706.3	19510.5	[500] ug/L	14:38:06
1	Cr 267.716†	38608.3	38073.7	[500] ug/L	14:38:06
1	Cu 324.752†	161082.9	153056.1	[500] ug/L	14:38:06
1	Mn 257.610†	386147.0	381067.5	[500] ug/L	14:38:01
1	Mo 202.031†	5783.6	5699.6	[500] ug/L	14:38:26
1	Ni 231.604†	16291.7	16040.8	[500] ug/L	14:38:06
1	P 214.914†	3444.6	3227.4	[2500] ug/L	14:38:26
1	Pb 220.353†	3191.0	3196.1	[500] ug/L	14:38:26
1	S 181.975 Axial†	587.9	549.9	[1000] ug/L	14:38:26
1	Sb 206.836†	1229.4	1186.0	[500] ug/L	14:38:26
1	Se 196.026†	597.9	609.9	[500] ug/L	14:38:26
1	Si 251.611†	68084.2	66804.9	[2500] ug/L	14:38:06
1	Sn 189.927†	2183.6	2149.3	[500] ug/L	14:38:26
1	Ti 334.940†	288616.9	286071.9	[500] ug/L	14:38:06
1	Tl 190.801†	1252.4	1268.3	[500] ug/L	14:38:26
1	U 409.014†	15548.2	17362.5	[500] ug/L	14:38:06
1	V 292.402†	63011.6	63493.0	[500] ug/L	14:38:06
1	Zn 213.857†	41994.9	40982.4	[500] ug/L	14:38:06
1	SiO2†	68440.6	67130.9	[5347.5] ug/L	14:39:34
2	Sc Radial	3317.2	3317.2	99.0 %	14:37:29
2	Y RADIAL	2683.1	2683.1	97.81 %	14:37:29
2	Al 396.153Radial†	2188.8	2270.7	[5000] ug/L	14:37:09
2	Ca 317.933Radial†	1296.5	1299.3	[5000] ug/L	14:37:29
2	K 766.490 Radial†	12817.9	10831.7	[5000] ug/L	14:37:09
2	Mg 279.077 IEC†	55.7	55.8	[5000] ug/L	14:37:29
2	Sr 421.552†	48691.3	49142.6	[500] ug/L	14:37:09
2	Sc 361.383	837494.8	837494.8	100.33 %	14:38:32
2	Y 371.029	708576.4	708576.4	99.010 %	14:38:32
2	Ag 328.068†	99691.9	99205.5	[500] ug/L	14:38:37
2	As 188.979†	883.9	897.0	[500] ug/L	14:38:57
2	B 249.677†	17623.6	17655.9	[500] ug/L	14:38:37
2	Ba 233.527†	53569.7	53400.9	[500] ug/L	14:38:37
2	Be 313.107†	1161872.2	1161669.8	[500] ug/L	14:38:32
2	Cd 226.502†	34524.6	34552.8	[500] ug/L	14:38:37
2	Co 228.616†	19638.2	19617.3	[500] ug/L	14:38:37
2	Cr 267.716†	38484.6	38292.5	[500] ug/L	14:38:37
2	Cu 324.752†	161766.0	155164.4	[500] ug/L	14:38:37
2	Mn 257.610†	382727.2	381080.9	[500] ug/L	14:38:32
2	Mo 202.031†	5812.2	5779.4	[500] ug/L	14:38:57
2	Ni 231.604†	16153.9	16047.8	[500] ug/L	14:38:37
2	P 214.914†	3461.1	3274.3	[2500] ug/L	14:38:57
2	Pb 220.353†	3202.2	3235.6	[500] ug/L	14:38:57
2	S 181.975 Axial†	595.4	562.6	[1000] ug/L	14:38:57
2	Sb 206.836†	1226.2	1193.7	[500] ug/L	14:38:57

2	Se 196.026†	607.4	624.6	[500] ug/L	14:38:57
2	Si 251.611†	68011.4	67335.7	[2500] ug/L	14:38:37
2	Sn 189.927†	2197.8	2182.8	[500] ug/L	14:38:57
2	Ti 334.940†	288564.3	288577.1	[500] ug/L	14:38:37
2	Tl 190.801†	1279.4	1306.3	[500] ug/L	14:38:57
2	U 409.014†	15649.1	17600.9	[500] ug/L	14:38:37
2	V 292.402†	62933.0	63973.1	[500] ug/L	14:38:37
2	Zn 213.857†	41883.8	41243.8	[500] ug/L	14:38:37
2	SiO2†	69235.8	68530.0	[5347.5] ug/L	14:39:39
3	Sc Radial	3330.0	3330.0	99.4 %	14:37:54
3	Y RADIAL	2696.5	2696.5	98.30 %	14:37:54
3	Al 396.153Radial†	2169.6	2242.9	[5000] ug/L	14:37:34
3	Ca 317.933Radial†	1293.5	1291.2	[5000] ug/L	14:37:54
3	K 766.490 Radial†	12874.7	10839.2	[5000] ug/L	14:37:34
3	Mg 279.077 IEC†	56.6	56.5	[5000] ug/L	14:37:54
3	Sr 421.552†	48496.2	48757.8	[500] ug/L	14:37:34
3	Sc 361.383	847611.1	847611.1	101.54 %	14:39:03
3	Y 371.029	716801.6	716801.6	100.16 %	14:39:03
3	Ag 328.068†	100910.7	99219.9	[500] ug/L	14:39:08
3	As 188.979†	886.6	889.1	[500] ug/L	14:39:28
3	B 249.677†	17928.7	17746.8	[500] ug/L	14:39:08
3	Ba 233.527†	54419.0	53600.2	[500] ug/L	14:39:08
3	Be 313.107†	1177853.3	1163586.9	[500] ug/L	14:39:03
3	Cd 226.502†	35027.6	34637.5	[500] ug/L	14:39:08
3	Co 228.616†	19954.5	19695.2	[500] ug/L	14:39:08
3	Cr 267.716†	39111.8	38452.4	[500] ug/L	14:39:08
3	Cu 324.752†	163815.1	155258.1	[500] ug/L	14:39:08
3	Mn 257.610†	387816.6	381540.1	[500] ug/L	14:39:03
3	Mo 202.031†	5832.1	5729.8	[500] ug/L	14:39:28
3	Ni 231.604†	16403.5	16101.5	[500] ug/L	14:39:08
3	P 214.914†	3479.7	3251.5	[2500] ug/L	14:39:28
3	Pb 220.353†	3224.0	3219.0	[500] ug/L	14:39:28
3	S 181.975 Axial†	593.8	554.0	[1000] ug/L	14:39:28
3	Sb 206.836†	1236.7	1189.4	[500] ug/L	14:39:28
3	Se 196.026†	591.6	601.9	[500] ug/L	14:39:28
3	Si 251.611†	69108.1	67606.7	[2500] ug/L	14:39:08
3	Sn 189.927†	2215.2	2173.8	[500] ug/L	14:39:28
3	Ti 334.940†	292365.7	288888.0	[500] ug/L	14:39:08
3	Tl 190.801†	1273.9	1285.6	[500] ug/L	14:39:28
3	U 409.014†	15827.1	17590.0	[500] ug/L	14:39:08
3	V 292.402†	63769.2	64047.9	[500] ug/L	14:39:08
3	Zn 213.857†	42622.3	41472.8	[500] ug/L	14:39:08
3	SiO2†	68763.2	67241.0	[5347.5] ug/L	14:39:44

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	843371.2	5252.94	0.62%	101.03 %
Sc Radial	3328.4	10.49	0.32%	99.3 %
Y 371.029	713073.4	4166.13	0.58%	99.638 %
Y RADIAL	2700.1	19.17	0.71%	98.43 %
Ag 328.068†	98847.5	632.54	0.64%	[500] ug/L
Al 396.153Radial†	2243.1	27.49	1.23%	[5000] ug/L
As 188.979†	891.0	5.30	0.59%	[500] ug/L
B 249.677†	17583.7	208.83	1.19%	[500] ug/L
Ba 233.527†	53389.5	216.53	0.41%	[500] ug/L
Be 313.107†	1161820.2	1696.50	0.15%	[500] ug/L
Ca 317.933Radial†	1286.4	15.82	1.23%	[5000] ug/L
Cd 226.502†	34533.4	114.99	0.33%	[500] ug/L
Co 228.616†	19607.6	92.72	0.47%	[500] ug/L
Cr 267.716†	38272.9	190.11	0.50%	[500] ug/L
Cu 324.752†	154492.8	1245.14	0.81%	[500] ug/L
K 766.490 Radial†	10787.3	83.46	0.77%	[5000] ug/L
Mg 279.077 IEC†	55.6	0.99	1.79%	[5000] ug/L
Mn 257.610†	381229.5	269.09	0.07%	[500] ug/L
Mo 202.031†	5736.3	40.30	0.70%	[500] ug/L
Ni 231.604†	16063.4	33.20	0.21%	[500] ug/L
P 214.914†	3251.1	23.46	0.72%	[2500] ug/L
Pb 220.353†	3216.9	19.81	0.62%	[500] ug/L
S 181.975 Axial†	555.5	6.49	1.17%	[1000] ug/L

Sb 206.836†	1189.7	3.83	0.32%	[500]	ug/L
Se 196.026†	612.1	11.55	1.89%	[500]	ug/L
Si 251.611†	67249.1	407.85	0.61%	[2500]	ug/L
Sn 189.927†	2168.6	17.33	0.80%	[500]	ug/L
Sr 421.552†	48552.4	715.45	1.47%	[500]	ug/L
Ti 334.940†	287845.7	1544.00	0.54%	[500]	ug/L
Tl 190.801†	1286.7	19.02	1.48%	[500]	ug/L
U 409.014†	17517.8	134.59	0.77%	[500]	ug/L
V 292.402†	63838.0	301.09	0.47%	[500]	ug/L
Zn 213.857†	41233.0	245.39	0.60%	[500]	ug/L
SiO2†	67633.9	777.94	1.15%	[5347.5]	ug/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 3/9/2010 14:41:54
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc Radial	3298.5	3298.5	98.5	%	14:44:08
1	Y RADIAL	2689.1	2689.1	98.03	%	14:44:08
1	Al 396.153Radial†	4477.7	4608.2	[10000]	ug/L	14:43:47
1	Ca 317.933Radial†	2533.3	2563.0	[10000]	ug/L	14:44:08
1	Fe 238.204 Radial†	367.8	364.9	[10000]	ug/L	14:44:08
1	K 766.490 Radial†	23678.0	21936.2	[10000]	ug/L	14:43:47
1	Mg 279.077 IEC†	107.3	108.6	[10000]	ug/L	14:44:08
1	Na 589.592 Radial†	27843.4	29064.1	[10000]	ug/L	14:43:47
1	Sr 421.552†	100196.8	101737.8	[1000]	ug/L	14:43:47
1	Sc 361.383	837990.3	837990.3	100.39	%	14:45:07
1	Y 371.029	706847.7	706847.7	98.768	%	14:45:07
1	Ag 328.068†	198780.6	197851.7	[1000]	ug/L	14:45:07
1	As 188.979†	1796.5	1805.5	[1000]	ug/L	14:45:27
1	B 249.677†	35795.5	35747.1	[1000]	ug/L	14:45:07
1	Ba 233.527†	107592.5	107183.0	[1000]	ug/L	14:45:07
1	Be 313.107†	2317440.4	2312078.1	[1000]	ug/L	14:45:07
1	Cd 226.502†	69404.1	69276.9	[1000]	ug/L	14:45:07
1	Co 228.616†	38416.5	38311.3	[1000]	ug/L	14:45:27
1	Cr 267.716†	77007.9	76643.9	[1000]	ug/L	14:45:07
1	Cu 324.752†	318097.8	310795.5	[1000]	ug/L	14:45:07
1	Mn 257.610†	766441.8	763083.9	[1000]	ug/L	14:45:07
1	Mo 202.031†	11660.5	11601.6	[1000]	ug/L	14:45:27
1	Ni 231.604†	31747.5	31571.6	[1000]	ug/L	14:45:27
1	P 214.914†	6812.2	6610.4	[5000]	ug/L	14:45:27
1	Pb 220.353†	6428.4	6447.4	[1000]	ug/L	14:45:27
1	S 181.975 Axial†	1159.7	1124.3	[2000]	ug/L	14:45:27
1	Sb 206.836†	2452.1	2414.1	[1000]	ug/L	14:45:27
1	Se 196.026†	1216.1	1230.6	[1000]	ug/L	14:45:27
1	Si 251.611†	135814.3	134836.0	[5000]	ug/L	14:45:07
1	Sn 189.927†	4433.1	4408.1	[1000]	ug/L	14:45:27
1	Ti 334.940†	592515.3	591180.9	[1000]	ug/L	14:45:07
1	Tl 190.801†	2551.9	2573.1	[1000]	ug/L	14:45:27
1	U 409.014†	32203.4	34081.8	[1000]	ug/L	14:45:07
1	V 292.402†	127340.9	128094.5	[1000]	ug/L	14:45:07
1	Zn 213.857†	83236.9	82412.1	[1000]	ug/L	14:45:07
1	SiO2†	136909.5	135900.8	[10695]	ug/L	14:46:27
2	Sc Radial	3335.8	3335.8	99.6	%	14:44:33
2	Y RADIAL	2714.1	2714.1	98.94	%	14:44:33
2	Al 396.153Radial†	4480.7	4560.3	[10000]	ug/L	14:44:13
2	Ca 317.933Radial†	2565.7	2566.7	[10000]	ug/L	14:44:33
2	Fe 238.204 Radial†	375.2	368.2	[10000]	ug/L	14:44:33
2	K 766.490 Radial†	23670.1	21659.0	[10000]	ug/L	14:44:13
2	Mg 279.077 IEC†	106.3	106.3	[10000]	ug/L	14:44:33
2	Na 589.592 Radial†	27869.7	28774.0	[10000]	ug/L	14:44:13
2	Sr 421.552†	99696.7	100096.3	[1000]	ug/L	14:44:13
2	Sc 361.383	839401.6	839401.6	100.56	%	14:45:34
2	Y 371.029	709109.7	709109.7	99.084	%	14:45:34
2	Ag 328.068†	199023.2	197760.0	[1000]	ug/L	14:45:34
2	As 188.979†	1786.9	1793.0	[1000]	ug/L	14:45:54
2	B 249.677†	35891.0	35782.1	[1000]	ug/L	14:45:34
2	Ba 233.527†	107626.6	107036.7	[1000]	ug/L	14:45:34
2	Be 313.107†	2326074.6	2316783.1	[1000]	ug/L	14:45:34
2	Cd 226.502†	69402.2	69158.8	[1000]	ug/L	14:45:34
2	Co 228.616†	38543.8	38373.5	[1000]	ug/L	14:45:54
2	Cr 267.716†	77127.0	76633.4	[1000]	ug/L	14:45:34
2	Cu 324.752†	319060.2	311219.7	[1000]	ug/L	14:45:34
2	Mn 257.610†	767374.3	762727.6	[1000]	ug/L	14:45:34
2	Mo 202.031†	11689.2	11610.6	[1000]	ug/L	14:45:54
2	Ni 231.604†	31831.4	31601.8	[1000]	ug/L	14:45:54

2	P 214.914†	6812.1	6598.9	[5000]	ug/L	14:45:54
2	Pb 220.353†	6460.8	6468.9	[1000]	ug/L	14:45:54
2	S 181.975 Axial†	1156.9	1119.7	[2000]	ug/L	14:45:54
2	Sb 206.836†	2470.2	2428.0	[1000]	ug/L	14:45:54
2	Se 196.026†	1216.3	1228.7	[1000]	ug/L	14:45:54
2	Si 251.611†	136012.1	134805.1	[5000]	ug/L	14:45:34
2	Sn 189.927†	4465.0	4432.4	[1000]	ug/L	14:45:54
2	Ti 334.940†	593948.8	591614.1	[1000]	ug/L	14:45:34
2	Tl 190.801†	2566.2	2583.0	[1000]	ug/L	14:45:54
2	U 409.014†	32161.4	33986.2	[1000]	ug/L	14:45:34
2	V 292.402†	127588.9	128127.8	[1000]	ug/L	14:45:34
2	Zn 213.857†	83210.7	82246.6	[1000]	ug/L	14:45:34
2	SiO2†	137060.9	135822.1	[10695]	ug/L	14:46:32
3	Sc Radial	3301.8	3301.8	98.5	%	14:44:58
3	Y RADIAL	2675.8	2675.8	97.54	%	14:44:58
3	Al 396.153Radial†	4529.2	4655.9	[10000]	ug/L	14:44:38
3	Ca 317.933Radial†	2546.6	2573.9	[10000]	ug/L	14:44:58
3	Fe 238.204 Radial†	368.2	365.0	[10000]	ug/L	14:44:58
3	K 766.490 Radial†	23922.0	22159.6	[10000]	ug/L	14:44:38
3	Mg 279.077 IEC†	107.1	108.2	[10000]	ug/L	14:44:58
3	Na 589.592 Radial†	28581.2	29784.5	[10000]	ug/L	14:44:38
3	Sr 421.552†	102070.5	103537.1	[1000]	ug/L	14:44:38
3	Sc 361.383	837014.3	837014.3	100.27	%	14:46:02
3	Y 371.029	706995.2	706995.2	98.789	%	14:46:02
3	Ag 328.068†	198889.2	198190.8	[1000]	ug/L	14:46:02
3	As 188.979†	1798.4	1809.5	[1000]	ug/L	14:46:22
3	B 249.677†	35942.1	35934.8	[1000]	ug/L	14:46:02
3	Ba 233.527†	107420.0	107136.0	[1000]	ug/L	14:46:02
3	Be 313.107†	2319177.5	2316502.0	[1000]	ug/L	14:46:02
3	Cd 226.502†	69226.8	69180.7	[1000]	ug/L	14:46:02
3	Co 228.616†	38519.4	38458.5	[1000]	ug/L	14:46:22
3	Cr 267.716†	77024.0	76749.4	[1000]	ug/L	14:46:02
3	Cu 324.752†	318215.7	311282.4	[1000]	ug/L	14:46:02
3	Mn 257.610†	765669.9	763204.2	[1000]	ug/L	14:46:02
3	Mo 202.031†	11668.6	11623.2	[1000]	ug/L	14:46:22
3	Ni 231.604†	31808.8	31669.5	[1000]	ug/L	14:46:22
3	P 214.914†	6794.5	6600.7	[5000]	ug/L	14:46:22
3	Pb 220.353†	6442.7	6469.1	[1000]	ug/L	14:46:22
3	S 181.975 Axial†	1161.7	1127.7	[2000]	ug/L	14:46:22
3	Sb 206.836†	2458.5	2423.4	[1000]	ug/L	14:46:22
3	Se 196.026†	1214.0	1229.9	[1000]	ug/L	14:46:22
3	Si 251.611†	135954.4	135133.4	[5000]	ug/L	14:46:02
3	Sn 189.927†	4427.9	4408.1	[1000]	ug/L	14:46:22
3	Ti 334.940†	592178.4	591533.1	[1000]	ug/L	14:46:02
3	Tl 190.801†	2553.1	2577.2	[1000]	ug/L	14:46:22
3	U 409.014†	32123.1	34039.1	[1000]	ug/L	14:46:02
3	V 292.402†	127460.8	128362.0	[1000]	ug/L	14:46:02
3	Zn 213.857†	83175.6	82447.6	[1000]	ug/L	14:46:02
3	SiO2†	138222.9	137369.6	[10695]	ug/L	14:46:37

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	838135.4	1200.21	0.14%	100.41	%
Sc Radial	3312.1	20.67	0.62%	98.9	%
Y 371.029	707650.8	1265.54	0.18%	98.880	%
Y RADIAL	2693.0	19.45	0.72%	98.17	%
Ag 328.068†	197934.2	226.93	0.11%	[1000]	ug/L
Al 396.153Radial†	4608.1	47.82	1.04%	[10000]	ug/L
As 188.979†	1802.7	8.64	0.48%	[1000]	ug/L
B 249.677†	35821.3	99.83	0.28%	[1000]	ug/L
Ba 233.527†	107118.6	74.67	0.07%	[1000]	ug/L
Be 313.107†	2315121.1	2639.06	0.11%	[1000]	ug/L
Ca 317.933Radial†	2567.9	5.54	0.22%	[10000]	ug/L
Cd 226.502†	69205.5	62.86	0.09%	[1000]	ug/L
Co 228.616†	38381.1	73.90	0.19%	[1000]	ug/L
Cr 267.716†	76675.6	64.18	0.08%	[1000]	ug/L
Cu 324.752†	311099.2	264.92	0.09%	[1000]	ug/L
Fe 238.204 Radial†	366.0	1.85	0.51%	[10000]	ug/L
K 766.490 Radial†	21918.3	250.78	1.14%	[10000]	ug/L

Mg 279.077 IEC†	107.7	1.21	1.12%	[10000]	ug/L
Mn 257.610†	763005.2	247.86	0.03%	[1000]	ug/L
Mo 202.031†	11611.8	10.83	0.09%	[1000]	ug/L
Na 589.592 Radial†	29207.5	520.28	1.78%	[10000]	ug/L
Ni 231.604†	31614.3	50.17	0.16%	[1000]	ug/L
P 214.914†	6603.3	6.17	0.09%	[5000]	ug/L
Pb 220.353†	6461.8	12.47	0.19%	[1000]	ug/L
S 181.975 Axial†	1123.9	4.05	0.36%	[2000]	ug/L
Sb 206.836†	2421.8	7.06	0.29%	[1000]	ug/L
Se 196.026†	1229.8	0.95	0.08%	[1000]	ug/L
Si 251.611†	134924.8	181.29	0.13%	[5000]	ug/L
Sn 189.927†	4416.2	14.06	0.32%	[1000]	ug/L
Sr 421.552†	101790.4	1721.01	1.69%	[1000]	ug/L
Ti 334.940†	591442.7	230.33	0.04%	[1000]	ug/L
Tl 190.801†	2577.8	5.00	0.19%	[1000]	ug/L
U 409.014†	34035.7	47.93	0.14%	[1000]	ug/L
V 292.402†	128194.8	145.78	0.11%	[1000]	ug/L
Zn 213.857†	82368.8	107.26	0.13%	[1000]	ug/L
SiO2†	136364.2	871.63	0.64%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/9/2010 14:48:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3304.6	3304.6	98.6 %	14:51:02
1	Y RADIAL	2710.8	2710.8	98.82 %	14:51:02
1	Al 396.153Radial†	22875.4	23252.3	[50000] ug/L	14:50:42
1	Ca 317.933Radial†	12439.9	12602.0	[50000] ug/L	14:50:42
1	Fe 238.204 Radial†	718.5	719.8	[20000] ug/L	14:51:02
1	Mg 279.077 IEC†	508.1	514.7	[50000] ug/L	14:51:02
1	Na 589.592 Radial†	58715.9	60311.7	[20000] ug/L	14:50:42
1	Sc 361.383	820342.6	820342.6	98.275 %	14:51:59
1	Y 371.029	689086.4	689086.4	96.286 %	14:51:59
2	Sc Radial	3300.5	3300.5	98.5 %	14:51:27
2	Y RADIAL	2685.3	2685.3	97.89 %	14:51:27
2	Al 396.153Radial†	22769.6	23173.8	[50000] ug/L	14:51:07
2	Ca 317.933Radial†	12325.8	12501.9	[50000] ug/L	14:51:07
2	Fe 238.204 Radial†	714.2	716.4	[20000] ug/L	14:51:27
2	Mg 279.077 IEC†	509.8	517.1	[50000] ug/L	14:51:27
2	Na 589.592 Radial†	58199.2	59861.6	[20000] ug/L	14:51:07
2	Sc 361.383	815736.9	815736.9	97.723 %	14:52:04
2	Y 371.029	684616.4	684616.4	95.662 %	14:52:04
3	Sc Radial	3301.3	3301.3	98.5 %	14:51:52
3	Y RADIAL	2685.6	2685.6	97.90 %	14:51:52
3	Al 396.153Radial†	23018.1	23420.7	[50000] ug/L	14:51:32
3	Ca 317.933Radial†	12480.6	12656.2	[50000] ug/L	14:51:32
3	Fe 238.204 Radial†	711.2	713.1	[20000] ug/L	14:51:52
3	Mg 279.077 IEC†	502.8	509.9	[50000] ug/L	14:51:52
3	Na 589.592 Radial†	58936.0	60595.7	[20000] ug/L	14:51:32
3	Sc 361.383	817894.9	817894.9	97.981 %	14:52:10
3	Y 371.029	686927.3	686927.3	95.985 %	14:52:10

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	817991.5	2304.39	0.28%	97.993 %
Sc Radial	3302.1	2.20	0.07%	98.6 %
Y 371.029	686876.7	2235.44	0.33%	95.977 %
Y RADIAL	2693.9	14.63	0.54%	98.20 %
Al 396.153Radial†	23282.3	126.13	0.54%	[50000] ug/L
Ca 317.933Radial†	12586.7	78.28	0.62%	[50000] ug/L
Fe 238.204 Radial†	716.4	3.35	0.47%	[20000] ug/L
Mg 279.077 IEC†	513.9	3.68	0.72%	[50000] ug/L
Na 589.592 Radial†	60256.3	370.19	0.61%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	197.9	0.00000	0.999997	
Al 396.153Radial	3	Lin Thru 0	0.0	0.4653	0.00000	0.999992	
As 188.979	3	Lin Thru 0	0.0	1.799	0.00000	0.999988	
B 249.677	3	Lin Thru 0	0.0	35.67	0.00000	0.999958	
Ba 233.527	3	Lin Thru 0	0.0	107.1	0.00000	0.999996	
Be 313.107	3	Lin Thru 0	0.0	2317	0.00000	0.999998	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.2520	0.00000	0.999991	
Cd 226.502	3	Lin Thru 0	0.0	69.18	0.00000	1.000000	
Co 228.616	3	Lin Thru 0	0.0	38.56	0.00000	0.999958	
Cr 267.716	3	Lin Thru 0	0.0	76.67	0.00000	0.999997	
Cu 324.752	3	Lin Thru 0	0.0	310.7	0.00000	0.999994	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0360	0.00000	0.999962	
K 766.490 Radial	3	Lin Thru 0	0.0	2.184	0.00000	0.999978	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0103	0.00000	0.999928
Mn 257.610	3	Lin Thru 0	0.0	763.1	0.00000	0.999995
Mo 202.031	3	Lin Thru 0	0.0	11.59	0.00000	0.999987
Na 589.592 Radia	2	Lin Thru 0	0.0	2.994	0.00000	0.999924
Ni 231.604	3	Lin Thru 0	0.0	31.73	0.00000	0.999973
P 214.914	3	Lin Thru 0	0.0	1.317	0.00000	0.999981
Pb 220.353	3	Lin Thru 0	0.0	6.458	0.00000	0.999993
S 181.975 Axial	3	Lin Thru 0	0.0	0.5607	0.00000	0.999990
Sb 206.836	3	Lin Thru 0	0.0	2.413	0.00000	0.999975
Se 196.026	3	Lin Thru 0	0.0	1.229	0.00000	0.999991
Si 251.611	3	Lin Thru 0	0.0	26.97	0.00000	0.999999
Sn 189.927	3	Lin Thru 0	0.0	4.401	0.00000	0.999974
Sr 421.552	3	Lin Thru 0	0.0	100.8	0.00000	0.999828
Ti 334.940	3	Lin Thru 0	0.0	588.4	0.00000	0.999942
Tl 190.801	3	Lin Thru 0	0.0	2.578	0.00000	0.999988
U 409.014	3	Lin Thru 0	0.0	34.24	0.00000	0.999929
V 292.402	3	Lin Thru 0	0.0	128.1	0.00000	0.999998
Zn 213.857	3	Lin Thru 0	0.0	82.42	0.00000	0.999992
SiO2	3	Lin Thru 0	0.0	12.73	0.00000	0.999995

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/9/2010 14:54:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3321.1	3321.1	99.1 %			14:56:34
1	Y RADIAL	2724.7	2724.7	99.32 %			14:56:34
1	Al 396.153Radial†	2392.0	2473.2	5289.0 ug/L		5289.0 ppb	14:56:14
1	Ca 317.933Radial†	1320.8	1322.2	5247.3 ug/L		5247.3 ppb	14:56:34
1	Fe 238.204 Radial†	197.9	191.0	5323.9 ug/L		5323.9 ppb	14:56:34
1	K 766.490 Radial†	7880.4	5835.5	2667.7 ug/L		2667.7 ppb	14:56:14
1	Mg 279.077 IEC†	55.9	55.9	5429.7 ug/L		5429.7 ppb	14:56:34
1	Na 589.592 Radial†	6880.5	7723.8	2579.4 ug/L		2579.4 ppb	14:56:14
1	Sr 421.552†	57034.1	57501.4	570.15 ug/L		570.15 ppb	14:56:14
1	Sc 361.383	851286.8	851286.8	101.98 %			14:57:32
1	Y 371.029	722540.0	722540.0	100.96 %			14:57:32
1	Ag 328.068†	53230.1	52036.6	266.16 ug/L		266.16 ppb	14:57:32
1	As 188.979†	857.3	856.6	480.55 ug/L		480.55 ppb	14:57:52
1	B 249.677†	19204.5	18921.5	528.04 ug/L		528.04 ppb	14:57:32
1	Ba 233.527†	56914.2	55815.5	522.59 ug/L		522.59 ppb	14:57:32
1	Be 313.107†	624853.4	616324.1	267.13 ug/L		267.13 ppb	14:57:32
1	Cd 226.502†	35906.1	35350.0	510.88 ug/L		510.88 ppb	14:57:32
1	Co 228.616†	20783.3	20423.0	529.81 ug/L		529.81 ppb	14:57:32
1	Cr 267.716†	39223.5	38395.6	501.57 ug/L		501.57 ppb	14:57:32
1	Cu 324.752†	171185.1	161788.3	520.67 ug/L		520.67 ppb	14:57:32
1	Mn 257.610†	407635.7	399325.0	523.59 ug/L		523.59 ppb	14:57:32
1	Mo 202.031†	6400.7	6262.6	541.02 ug/L		541.02 ppb	14:57:52
1	Ni 231.604†	16917.7	16535.9	520.88 ug/L		520.88 ppb	14:57:32
1	P 214.914†	3631.7	3385.7	2470.3 ug/L		2470.3 ppb	14:57:52
1	Pb 220.353†	3320.8	3300.2	512.56 ug/L		512.56 ppb	14:57:52
1	S 181.975 Axial†	1474.7	1415.1	2523.1 ug/L		2523.1 ppb	14:57:52
1	Sb 206.836†	1280.5	1227.2	528.04 ug/L		528.04 ppb	14:57:52
1	Se 196.026†	3269.4	3225.1	2641.8 ug/L		2641.8 ppb	14:57:52
1	Si 251.611†	133419.5	130374.5	4827.4 ug/L		4827.4 ppb	14:57:32
1	Sn 189.927†	2454.0	2398.4	545.63 ug/L		545.63 ppb	14:57:52
1	Ti 334.940†	302501.6	297583.7	505.64 ug/L		505.64 ppb	14:57:32
1	Tl 190.801†	1394.9	1398.8	546.00 ug/L		546.00 ppb	14:57:52
1	U 409.014†	15515.2	17216.9	501.05 ug/L		501.05 ppb	14:57:32
1	V 292.402†	66425.8	66381.7	525.40 ug/L		525.40 ppb	14:57:32
1	Zn 213.857†	44341.6	42977.5	516.65 ug/L		516.65 ppb	14:57:32
1	SiO2†	133604.8	130530.2	10239 ug/L		10239 ppb	14:58:50
2	Sc Radial	3379.9	3379.9	101 %			14:57:00
2	Y RADIAL	2764.6	2764.6	100.8 %			14:57:00
2	Al 396.153Radial†	2318.2	2358.0	5041.2 ug/L		5041.2 ppb	14:56:40
2	Ca 317.933Radial†	1333.0	1311.1	5203.4 ug/L		5203.4 ppb	14:57:00
2	Fe 238.204 Radial†	199.3	188.9	5267.6 ug/L		5267.6 ppb	14:57:00
2	K 766.490 Radial†	7647.9	5466.8	2499.0 ug/L		2499.0 ppb	14:56:40
2	Mg 279.077 IEC†	57.9	56.9	5524.3 ug/L		5524.3 ppb	14:57:00
2	Na 589.592 Radial†	6487.2	7213.2	2408.9 ug/L		2408.9 ppb	14:56:40
2	Sr 421.552†	54695.9	54183.3	537.25 ug/L		537.25 ppb	14:56:40
2	Sc 361.383	844560.3	844560.3	101.18 %			14:57:58
2	Y 371.029	717635.1	717635.1	100.28 %			14:57:58
2	Ag 328.068†	52708.4	51936.8	265.64 ug/L		265.64 ppb	14:57:58
2	As 188.979†	876.4	882.2	494.72 ug/L		494.72 ppb	14:58:18
2	B 249.677†	18899.6	18770.2	523.81 ug/L		523.81 ppb	14:57:58
2	Ba 233.527†	56569.4	55919.1	523.55 ug/L		523.55 ppb	14:57:58
2	Be 313.107†	621203.5	617596.4	267.68 ug/L		267.68 ppb	14:57:58
2	Cd 226.502†	35559.2	35287.5	509.98 ug/L		509.98 ppb	14:57:58
2	Co 228.616†	20535.1	20340.0	527.67 ug/L		527.67 ppb	14:57:58
2	Cr 267.716†	38849.7	38332.5	500.75 ug/L		500.75 ppb	14:57:58
2	Cu 324.752†	169491.5	161451.3	519.58 ug/L		519.58 ppb	14:57:58
2	Mn 257.610†	404642.3	399549.9	523.87 ug/L		523.87 ppb	14:57:58
2	Mo 202.031†	6434.7	6346.2	548.23 ug/L		548.23 ppb	14:58:18
2	Ni 231.604†	16813.4	16564.9	521.79 ug/L		521.79 ppb	14:57:58

2	P 214.914†	3638.2	3420.5	2497.0 ug/L	2497.0 ppb	14:58:18
2	Pb 220.353†	3327.3	3332.5	517.54 ug/L	517.54 ppb	14:58:18
2	S 181.975 Axial†	1483.0	1434.9	2558.4 ug/L	2558.4 ppb	14:58:18
2	Sb 206.836†	1285.4	1242.0	534.40 ug/L	534.40 ppb	14:58:18
2	Se 196.026†	3287.8	3268.8	2677.2 ug/L	2677.2 ppb	14:58:18
2	Si 251.611†	132164.0	130175.6	4820.0 ug/L	4820.0 ppb	14:57:58
2	Sn 189.927†	2455.4	2419.0	550.31 ug/L	550.31 ppb	14:58:18
2	Ti 334.940†	300049.9	297523.0	505.52 ug/L	505.52 ppb	14:57:58
2	Tl 190.801†	1385.3	1400.3	546.56 ug/L	546.56 ppb	14:58:18
2	U 409.014†	15342.5	17167.4	499.61 ug/L	499.61 ppb	14:57:58
2	V 292.402†	65883.7	66364.8	525.38 ug/L	525.38 ppb	14:57:58
2	Zn 213.857†	43925.3	42912.4	515.86 ug/L	515.86 ppb	14:57:58
2	SiO2†	133296.0	131268.4	10297 ug/L	10297 ppb	14:58:55
3	Sc Radial	3346.6	3346.6	99.9 %		14:57:25
3	Y RADIAL	2727.9	2727.9	99.44 %		14:57:25
3	Al 396.153Radial†	2286.7	2349.4	5022.9 ug/L	5022.9 ppb	14:57:05
3	Ca 317.933Radial†	1325.7	1317.0	5226.8 ug/L	5226.8 ppb	14:57:25
3	Fe 238.204 Radial†	196.3	187.9	5238.1 ug/L	5238.1 ppb	14:57:25
3	K 766.490 Radial†	7689.5	5583.9	2552.6 ug/L	2552.6 ppb	14:57:05
3	Mg 279.077 IEC†	56.2	55.9	5420.6 ug/L	5420.6 ppb	14:57:25
3	Na 589.592 Radial†	6531.4	7321.5	2445.1 ug/L	2445.1 ppb	14:57:05
3	Sr 421.552†	53950.3	53976.0	535.19 ug/L	535.19 ppb	14:57:05
3	Sc 361.383	852018.2	852018.2	102.07 %		14:58:24
3	Y 371.029	723327.0	723327.0	101.07 %		14:58:24
3	Ag 328.068†	53165.5	51928.6	265.59 ug/L	265.59 ppb	14:58:24
3	As 188.979†	870.9	869.2	487.52 ug/L	487.52 ppb	14:58:44
3	B 249.677†	19087.7	18791.0	524.39 ug/L	524.39 ppb	14:58:24
3	Ba 233.527†	57064.8	55915.1	523.51 ug/L	523.51 ppb	14:58:24
3	Be 313.107†	626244.4	617160.8	267.49 ug/L	267.49 ppb	14:58:24
3	Cd 226.502†	35955.5	35368.1	511.15 ug/L	511.15 ppb	14:58:24
3	Co 228.616†	20799.7	20421.6	529.78 ug/L	529.78 ppb	14:58:24
3	Cr 267.716†	39195.5	38335.1	500.78 ug/L	500.78 ppb	14:58:24
3	Cu 324.752†	170775.4	161242.8	518.91 ug/L	518.91 ppb	14:58:24
3	Mn 257.610†	408391.4	399722.2	524.10 ug/L	524.10 ppb	14:58:24
3	Mo 202.031†	6416.6	6272.7	541.89 ug/L	541.89 ppb	14:58:44
3	Ni 231.604†	16939.6	16543.1	521.10 ug/L	521.10 ppb	14:58:24
3	P 214.914†	3629.0	3380.0	2466.3 ug/L	2466.3 ppb	14:58:44
3	Pb 220.353†	3329.6	3306.1	513.42 ug/L	513.42 ppb	14:58:44
3	S 181.975 Axial†	1482.2	1421.2	2534.0 ug/L	2534.0 ppb	14:58:44
3	Sb 206.836†	1285.6	1231.1	529.71 ug/L	529.71 ppb	14:58:44
3	Se 196.026†	3274.9	3227.7	2643.6 ug/L	2643.6 ppb	14:58:44
3	Si 251.611†	133359.6	130203.6	4821.1 ug/L	4821.1 ppb	14:58:24
3	Sn 189.927†	2460.5	2402.8	546.62 ug/L	546.62 ppb	14:58:44
3	Ti 334.940†	302488.7	297316.5	505.18 ug/L	505.18 ppb	14:58:24
3	Tl 190.801†	1400.9	1403.5	547.81 ug/L	547.81 ppb	14:58:44
3	U 409.014†	15353.6	17045.5	496.06 ug/L	496.06 ppb	14:58:24
3	V 292.402†	66450.5	66350.1	525.17 ug/L	525.17 ppb	14:58:24
3	Zn 213.857†	44441.9	43038.4	517.40 ug/L	517.40 ppb	14:58:24
3	SiO2†	133864.4	130672.1	10250 ug/L	10250 ppb	14:59:00

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	849288.5	101.74 %	0.492			0.48%
Sc Radial	3349.2	100.0 %	0.88			0.88%
Y 371.029	721167.3	100.77 %	0.431			0.43%
Y RADIAL	2739.1	99.85 %	0.808			0.81%
Ag 328.068†	51967.3	265.80 ug/L	0.316	265.80 ppb	0.316	0.12%
QC value within limits for Ag 328.068 Recovery = 106.32%						
Al 396.153Radial†	2393.5	5117.7 ug/L	148.62	5117.7 ppb	148.62	2.90%
QC value within limits for Al 396.153Radial Recovery = 102.35%						
As 188.979†	869.4	487.60 ug/L	7.089	487.60 ppb	7.089	1.45%
QC value within limits for As 188.979 Recovery = 97.52%						
B 249.677†	18827.5	525.42 ug/L	2.292	525.42 ppb	2.292	0.44%
QC value within limits for B 249.677 Recovery = 105.08%						
Ba 233.527†	55883.2	523.22 ug/L	0.547	523.22 ppb	0.547	0.10%
QC value within limits for Ba 233.527 Recovery = 104.64%						
Be 313.107†	617027.1	267.44 ug/L	0.279	267.44 ppb	0.279	0.10%
QC value within limits for Be 313.107 Recovery = 106.97%						
Ca 317.933Radial†	1316.8	5225.8 ug/L	21.96	5225.8 ppb	21.96	0.42%

QC value within limits for Ca 317.933 Radial Recovery = 104.52%							
Cd	226.502†	35335.2	510.67 ug/L	0.611	510.67 ppb	0.611	0.12%
QC value within limits for Cd 226.502 Recovery = 102.13%							
Co	228.616†	20394.9	529.08 ug/L	1.223	529.08 ppb	1.223	0.23%
QC value within limits for Co 228.616 Recovery = 105.82%							
Cr	267.716†	38354.4	501.03 ug/L	0.467	501.03 ppb	0.467	0.09%
QC value within limits for Cr 267.716 Recovery = 100.21%							
Cu	324.752†	161494.1	519.72 ug/L	0.887	519.72 ppb	0.887	0.17%
QC value within limits for Cu 324.752 Recovery = 103.94%							
Fe	238.204 Radial†	189.3	5276.5 ug/L	43.59	5276.5 ppb	43.59	0.83%
QC value within limits for Fe 238.204 Radial Recovery = 105.53%							
K	766.490 Radial†	5628.7	2573.1 ug/L	86.20	2573.1 ppb	86.20	3.35%
QC value within limits for K 766.490 Radial Recovery = 102.92%							
Mg	279.077 IEC†	56.2	5458.2 ug/L	57.41	5458.2 ppb	57.41	1.05%
QC value within limits for Mg 279.077 IEC Recovery = 109.16%							
Mn	257.610†	399532.4	523.85 ug/L	0.257	523.85 ppb	0.257	0.05%
QC value within limits for Mn 257.610 Recovery = 104.77%							
Mo	202.031†	6293.8	543.71 ug/L	3.936	543.71 ppb	3.936	0.72%
QC value within limits for Mo 202.031 Recovery = 108.74%							
Na	589.592 Radial†	7419.5	2477.8 ug/L	89.85	2477.8 ppb	89.85	3.63%
QC value within limits for Na 589.592 Radial Recovery = 99.11%							
Ni	231.604†	16548.0	521.26 ug/L	0.477	521.26 ppb	0.477	0.09%
QC value within limits for Ni 231.604 Recovery = 104.25%							
P	214.914†	3395.4	2477.8 ug/L	16.68	2477.8 ppb	16.68	0.67%
QC value within limits for P 214.914 Recovery = 99.11%							
Pb	220.353†	3312.9	514.51 ug/L	2.660	514.51 ppb	2.660	0.52%
QC value within limits for Pb 220.353 Recovery = 102.90%							
S	181.975 Axial†	1423.8	2538.5 ug/L	18.10	2538.5 ppb	18.10	0.71%
QC value within limits for S 181.975 Axial Recovery = 101.54%							
Sb	206.836†	1233.4	530.72 ug/L	3.298	530.72 ppb	3.298	0.62%
QC value within limits for Sb 206.836 Recovery = 106.14%							
Se	196.026†	3240.5	2654.2 ug/L	19.90	2654.2 ppb	19.90	0.75%
QC value within limits for Se 196.026 Recovery = 106.17%							
Si	251.611†	130251.2	4822.8 ug/L	4.03	4822.8 ppb	4.03	0.08%
QC value within limits for Si 251.611 Recovery = 96.46%							
Sn	189.927†	2406.8	547.52 ug/L	2.464	547.52 ppb	2.464	0.45%
QC value within limits for Sn 189.927 Recovery = 109.50%							
Sr	421.552†	55220.2	547.53 ug/L	19.616	547.53 ppb	19.616	3.58%
QC value within limits for Sr 421.552 Recovery = 109.51%							
Ti	334.940†	297474.4	505.45 ug/L	0.236	505.45 ppb	0.236	0.05%
QC value within limits for Ti 334.940 Recovery = 101.09%							
Tl	190.801†	1400.9	546.79 ug/L	0.930	546.79 ppb	0.930	0.17%
QC value within limits for Tl 190.801 Recovery = 109.36%							
U	409.014†	17143.3	498.90 ug/L	2.570	498.90 ppb	2.570	0.52%
QC value within limits for U 409.014 Recovery = 99.78%							
V	292.402†	66365.5	525.32 ug/L	0.127	525.32 ppb	0.127	0.02%
QC value within limits for V 292.402 Recovery = 105.06%							
Zn	213.857†	42976.1	516.64 ug/L	0.770	516.64 ppb	0.770	0.15%
QC value within limits for Zn 213.857 Recovery = 103.33%							
SiO2†		130823.6	10262 ug/L	30.7	10262 ppb	30.7	0.30%
QC value within limits for SiO2 Recovery = 95.95%							

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/9/2010 15:01:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3319.7	3319.7	99.1 %		15:03:24
1	Y RADIAL	2736.8	2736.8	99.77 %		15:03:24
1	Al 396.153Radial†	-64.9	-5.5	-11.746 ug/L	-11.746 ppb	15:03:24
1	Ca 317.933Radial†	9.8	-0.3	-1.1659 ug/L	-1.1659 ppb	15:03:24
1	Fe 238.204 Radial†	7.7	-0.8	-22.872 ug/L	-22.872 ppb	15:03:24
1	K 766.490 Radial†	2060.2	-35.2	-16.097 ug/L	-16.097 ppb	15:03:04
1	Mg 279.077 IEC†	2.6	2.1	206.35 ug/L	206.35 ppb	15:03:24
1	Na 589.592 Radial†	-800.2	-25.0	-8.3412 ug/L	-8.3412 ppb	15:03:04
1	Sr 421.552†	39.7	4.4	0.0439 ug/L	0.0439 ppb	15:03:04
1	Sc 361.383	840081.1	840081.1	100.64 %		15:04:21
1	Y 371.029	719941.1	719941.1	100.60 %		15:04:21
1	Ag 328.068†	153.0	-7.0	-0.0440 ug/L	-0.0440 ppb	15:04:21
1	As 188.979†	-20.8	-4.7	-2.5948 ug/L	-2.5948 ppb	15:04:41
1	B 249.677†	-50.9	39.6	1.1141 ug/L	1.1141 ppb	15:04:41
1	Ba 233.527†	-1.8	5.4	0.0499 ug/L	0.0499 ppb	15:04:41
1	Be 313.107†	-3591.6	43.8	0.0189 ug/L	0.0189 ppb	15:04:21
1	Cd 226.502†	-147.5	-5.0	-0.0691 ug/L	-0.0691 ppb	15:04:41
1	Co 228.616†	-49.1	-5.3	-0.1372 ug/L	-0.1372 ppb	15:04:41
1	Cr 267.716†	74.8	8.6	0.1107 ug/L	0.1107 ppb	15:04:41
1	Cu 324.752†	6189.9	80.1	0.2558 ug/L	0.2558 ppb	15:04:21
1	Mn 257.610†	397.1	4.8	-0.0043 ug/L	-0.0043 ppb	15:04:41
1	Mo 202.031†	8.9	-5.0	-0.4314 ug/L	-0.4314 ppb	15:04:41
1	Ni 231.604†	71.6	18.1	0.5717 ug/L	0.5717 ppb	15:04:41
1	P 214.914†	175.9	-0.6	-0.5076 ug/L	-0.5076 ppb	15:04:41
1	Pb 220.353†	-41.8	2.4	0.3637 ug/L	0.3637 ppb	15:04:41
1	S 181.975 Axial†	29.6	-1.5	-2.6428 ug/L	-2.6428 ppb	15:04:41
1	Sb 206.836†	25.5	-3.1	-1.2750 ug/L	-1.2750 ppb	15:04:41
1	Se 196.026†	-12.7	6.6	5.3014 ug/L	5.3014 ppb	15:04:41
1	Si 251.611†	503.1	47.5	1.7665 ug/L	1.7665 ppb	15:04:41
1	Sn 189.927†	15.1	7.1	1.6226 ug/L	1.6226 ppb	15:04:41
1	Ti 334.940†	-957.7	8.7	-0.0029 ug/L	-0.0029 ppb	15:04:21
1	Tl 190.801†	-27.4	3.8	1.4744 ug/L	1.4744 ppb	15:04:41
1	U 409.014†	-1968.6	47.1	1.3771 ug/L	1.3771 ppb	15:04:21
1	V 292.402†	-1263.4	-8.7	-0.0638 ug/L	-0.0638 ppb	15:04:21
1	Zn 213.857†	577.3	71.2	0.8635 ug/L	0.8635 ppb	15:04:41
1	SiO2†	495.5	13.9	1.1030 ug/L	1.1030 ppb	15:05:52
2	Sc Radial	3379.6	3379.6	101 %		15:03:49
2	Y RADIAL	2775.7	2775.7	101.2 %		15:03:49
2	Al 396.153Radial†	-52.2	8.2	17.746 ug/L	17.746 ppb	15:03:49
2	Ca 317.933Radial†	11.2	0.9	3.6154 ug/L	3.6154 ppb	15:03:49
2	Fe 238.204 Radial†	8.6	-0.1	-1.6727 ug/L	-1.6727 ppb	15:03:49
2	K 766.490 Radial†	2052.5	-79.6	-36.445 ug/L	-36.445 ppb	15:03:29
2	Mg 279.077 IEC†	1.9	1.4	137.33 ug/L	137.33 ppb	15:03:49
2	Na 589.592 Radial†	-763.7	25.5	8.5317 ug/L	8.5317 ppb	15:03:29
2	Sr 421.552†	2.8	-32.9	-0.3263 ug/L	-0.3263 ppb	15:03:29
2	Sc 361.383	855550.6	855550.6	102.49 %		15:04:46
2	Y 371.029	734338.9	734338.9	102.61 %		15:04:46
2	Ag 328.068†	178.6	15.2	0.0757 ug/L	0.0757 ppb	15:04:46
2	As 188.979†	-17.7	-1.4	-0.7498 ug/L	-0.7498 ppb	15:05:06
2	B 249.677†	-82.5	9.7	0.2724 ug/L	0.2724 ppb	15:05:06
2	Ba 233.527†	-2.2	5.0	0.0488 ug/L	0.0488 ppb	15:05:06
2	Be 313.107†	-3635.1	65.8	0.0286 ug/L	0.0286 ppb	15:04:46
2	Cd 226.502†	-145.0	0.1	0.0030 ug/L	0.0030 ppb	15:05:06
2	Co 228.616†	-44.8	-0.2	-0.0067 ug/L	-0.0067 ppb	15:05:06
2	Cr 267.716†	73.7	6.2	0.0801 ug/L	0.0801 ppb	15:05:06
2	Cu 324.752†	6230.6	8.7	0.0253 ug/L	0.0253 ppb	15:04:46
2	Mn 257.610†	405.4	5.9	0.0019 ug/L	0.0019 ppb	15:05:06
2	Mo 202.031†	5.9	-8.0	-0.6909 ug/L	-0.6909 ppb	15:05:06
2	Ni 231.604†	49.4	-4.8	-0.1520 ug/L	-0.1520 ppb	15:05:06

2	P 214.914†	172.8	-6.8	-5.1790 ug/L	-5.1790 ppb	15:05:06
2	Pb 220.353†	-58.6	-13.2	-2.0450 ug/L	-2.0450 ppb	15:05:06
2	S 181.975 Axial†	24.3	-7.1	-12.714 ug/L	-12.714 ppb	15:05:06
2	Sb 206.836†	29.6	0.4	0.1583 ug/L	0.1583 ppb	15:05:06
2	Se 196.026†	-16.6	3.0	2.4244 ug/L	2.4244 ppb	15:05:06
2	Si 251.611†	503.5	38.9	1.4493 ug/L	1.4493 ppb	15:05:06
2	Sn 189.927†	6.4	-1.6	-0.3543 ug/L	-0.3543 ppb	15:05:06
2	Ti 334.940†	-940.2	42.9	0.0602 ug/L	0.0602 ppb	15:04:46
2	Tl 190.801†	-20.7	10.9	4.2146 ug/L	4.2146 ppb	15:05:06
2	U 409.014†	-1894.9	154.3	4.5062 ug/L	4.5062 ppb	15:04:46
2	V 292.402†	-1172.0	103.3	0.8078 ug/L	0.8078 ppb	15:04:46
2	Zn 213.857†	574.9	58.5	0.7107 ug/L	0.7107 ppb	15:05:06
2	SiO2†	492.0	1.6	0.1450 ug/L	0.1450 ppb	15:06:12
3	Sc Radial	3351.8	3351.8	100 %		15:04:14
3	Y RADIAL	2759.6	2759.6	100.6 %		15:04:14
3	Al 396.153Radial†	-67.9	-7.9	-16.875 ug/L	-16.875 ppb	15:04:14
3	Ca 317.933Radial†	11.7	1.5	5.8697 ug/L	5.8697 ppb	15:04:14
3	Fe 238.204 Radial†	7.1	-1.5	-41.776 ug/L	-41.776 ppb	15:04:14
3	K 766.490 Radial†	2127.5	12.2	5.5950 ug/L	5.5950 ppb	15:03:54
3	Mg 279.077 IEC†	3.1	2.7	257.65 ug/L	257.65 ppb	15:04:14
3	Na 589.592 Radial†	-722.8	60.1	20.057 ug/L	20.057 ppb	15:03:54
3	Sr 421.552†	34.0	-1.7	-0.0167 ug/L	-0.0167 ppb	15:03:54
3	Sc 361.383	839421.3	839421.3	100.56 %		15:05:12
3	Y 371.029	720451.4	720451.4	100.67 %		15:05:12
3	Ag 328.068†	142.9	-16.9	-0.0999 ug/L	-0.0999 ppb	15:05:12
3	As 188.979†	-13.5	2.5	1.4042 ug/L	1.4042 ppb	15:05:32
3	B 249.677†	-104.7	-14.0	-0.3845 ug/L	-0.3845 ppb	15:05:32
3	Ba 233.527†	17.9	25.0	0.2313 ug/L	0.2313 ppb	15:05:32
3	Be 313.107†	-3540.5	91.8	0.0398 ug/L	0.0398 ppb	15:05:12
3	Cd 226.502†	-145.1	-2.7	-0.0345 ug/L	-0.0345 ppb	15:05:32
3	Co 228.616†	-43.2	0.6	0.0153 ug/L	0.0153 ppb	15:05:32
3	Cr 267.716†	72.2	6.1	0.0772 ug/L	0.0772 ppb	15:05:32
3	Cu 324.752†	6159.5	54.8	0.1740 ug/L	0.1740 ppb	15:05:12
3	Mn 257.610†	442.9	50.7	0.0518 ug/L	0.0518 ppb	15:05:32
3	Mo 202.031†	9.1	-4.7	-0.4101 ug/L	-0.4101 ppb	15:05:32
3	Ni 231.604†	72.3	18.8	0.5932 ug/L	0.5932 ppb	15:05:32
3	P 214.914†	185.1	8.7	6.6092 ug/L	6.6092 ppb	15:05:32
3	Pb 220.353†	-38.1	6.0	0.9305 ug/L	0.9305 ppb	15:05:32
3	S 181.975 Axial†	31.9	0.8	1.4624 ug/L	1.4624 ppb	15:05:32
3	Sb 206.836†	28.9	0.3	0.1477 ug/L	0.1477 ppb	15:05:32
3	Se 196.026†	-15.7	3.6	2.7802 ug/L	2.7802 ppb	15:05:32
3	Si 251.611†	487.3	32.2	1.1997 ug/L	1.1997 ppb	15:05:32
3	Sn 189.927†	15.7	7.8	1.7844 ug/L	1.7844 ppb	15:05:32
3	Ti 334.940†	-931.1	34.4	0.0381 ug/L	0.0381 ppb	15:05:12
3	Tl 190.801†	-15.4	15.8	6.1286 ug/L	6.1286 ppb	15:05:32
3	U 409.014†	-2014.4	-0.0	0.0043 ug/L	0.0043 ppb	15:05:12
3	V 292.402†	-1294.2	-40.2	-0.3085 ug/L	-0.3085 ppb	15:05:12
3	Zn 213.857†	610.1	104.2	1.2667 ug/L	1.2667 ppb	15:05:32
3	SiO2†	499.5	18.2	1.4435 ug/L	1.4435 ppb	15:06:32

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	845017.6	101.23 %	1.093			1.08%
Sc Radial	3350.4	100.0 %	0.90			0.90%
Y 371.029	724910.4	101.29 %	1.141			1.13%
Y RADIAL	2757.4	100.5 %	0.71			0.71%
Ag 328.068†	-2.9	-0.0227 ug/L	0.08968	-0.0227 ppb	0.08968	394.77%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.7	-3.6250 ug/L	18.68469	-3.6250 ppb	18.68469	515.44%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.2	-0.6468 ug/L	2.00150	-0.6468 ppb	2.00150	309.45%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	11.8	0.3340 ug/L	0.75117	0.3340 ppb	0.75117	224.89%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	11.8	0.1100 ug/L	0.10507	0.1100 ppb	0.10507	95.52%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	67.1	0.0291 ug/L	0.01043	0.0291 ppb	0.01043	35.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.7	2.7731 ug/L	3.59263	2.7731 ppb	3.59263	129.55%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-2.5	-0.0335 ug/L	0.03607	-0.0335 ppb	0.03607 107.55%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-1.6	-0.0429 ug/L	0.08246	-0.0429 ppb	0.08246 192.33%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	7.0	0.0893 ug/L	0.01855	0.0893 ppb	0.01855 20.76%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	47.8	0.1517 ug/L	0.11689	0.1517 ppb	0.11689 77.05%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-0.8	-22.107 ug/L	20.0624	-22.107 ppb	20.0624 90.75%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-34.2	-15.649 ug/L	21.0236	-15.649 ppb	21.0236 134.35%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	2.1	200.44 ug/L	60.378	200.44 ppb	60.378 30.12%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	20.5	0.0165 ug/L	0.03079	0.0165 ppb	0.03079 187.03%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-5.9	-0.5108 ug/L	0.15633	-0.5108 ppb	0.15633 30.60%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	20.2	6.7490 ug/L	14.28261	6.7490 ppb	14.28261 211.62%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	10.7	0.3376 ug/L	0.42414	0.3376 ppb	0.42414 125.63%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	0.4	0.3075 ug/L	5.93623	0.3075 ppb	5.93623 >999.9%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-1.6	-0.2503 ug/L	1.57991	-0.2503 ppb	1.57991 631.19%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-2.6	-4.6314 ug/L	7.29439	-4.6314 ppb	7.29439 157.50%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-0.8	-0.3230 ug/L	0.82449	-0.3230 ppb	0.82449 255.24%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	4.4	3.5020 ug/L	1.56847	3.5020 ppb	1.56847 44.79%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	39.5	1.4718 ug/L	0.28406	1.4718 ppb	0.28406 19.30%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	4.5	1.0176 ug/L	1.19079	1.0176 ppb	1.19079 117.02%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-10.1	-0.0997 ug/L	0.19855	-0.0997 ppb	0.19855 199.17%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	28.6	0.0318 ug/L	0.03201	0.0318 ppb	0.03201 100.65%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	10.2	3.9392 ug/L	2.33930	3.9392 ppb	2.33930 59.39%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	67.1	1.9625 ug/L	2.30736	1.9625 ppb	2.30736 117.57%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	18.1	0.1452 ug/L	0.58677	0.1452 ppb	0.58677 404.23%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	78.0	0.9470 ug/L	0.28725	0.9470 ppb	0.28725 30.33%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	11.2	0.8972 ug/L	0.67325	0.8972 ppb	0.67325 75.04%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 3/9/2010 15:08:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3325.5	3325.5	99.3 %			15:10:56
1	Y RADIAL	2731.6	2731.6	99.58 %			15:10:56
1	Al 396.153Radial†	27.2	87.5	187.49 ug/L		187.49 ppb	15:10:56
1	Ca 317.933Radial†	59.5	49.7	197.23 ug/L		197.23 ppb	15:10:56
1	Fe 238.204 Radial†	10.8	2.2	61.833 ug/L		61.833 ppb	15:10:56
1	K 766.490 Radial†	2328.5	231.5	105.76 ug/L		105.76 ppb	15:10:36
1	Mg 279.077 IEC†	5.3	4.9	471.41 ug/L		471.41 ppb	15:10:56
1	Na 589.592 Radial†	137.4	921.1	307.60 ug/L		307.60 ppb	15:10:36
1	Sr 421.552†	541.5	509.9	5.0549 ug/L		5.0549 ppb	15:10:36
1	Sc 361.383	836172.2	836172.2	100.17 %			15:11:53
1	Y 371.029	716859.7	716859.7	100.17 %			15:11:53
1	Ag 328.068†	1193.1	1032.0	5.2060 ug/L		5.2060 ppb	15:11:53
1	As 188.979†	24.5	40.4	22.480 ug/L		22.480 ppb	15:12:13
1	B 249.677†	1539.7	1627.3	45.592 ug/L		45.592 ppb	15:11:53
1	Ba 233.527†	539.9	546.2	5.1140 ug/L		5.1140 ppb	15:12:13
1	Be 313.107†	8269.7	11868.2	5.1337 ug/L		5.1337 ppb	15:11:53
1	Cd 226.502†	181.4	322.6	4.6713 ug/L		4.6713 ppb	15:12:13
1	Co 228.616†	163.1	206.3	5.3625 ug/L		5.3625 ppb	15:12:13
1	Cr 267.716†	449.0	382.5	4.9771 ug/L		4.9771 ppb	15:12:13
1	Cu 324.752†	9266.1	3179.8	10.206 ug/L		10.206 ppb	15:11:53
1	Mn 257.610†	8476.0	8071.9	10.564 ug/L		10.564 ppb	15:11:53
1	Mo 202.031†	126.6	112.7	9.7305 ug/L		9.7305 ppb	15:12:13
1	Ni 231.604†	227.9	174.5	5.4972 ug/L		5.4972 ppb	15:12:13
1	P 214.914†	359.1	183.1	137.13 ug/L		137.13 ppb	15:12:13
1	Pb 220.353†	31.5	75.3	11.720 ug/L		11.720 ppb	15:12:13
1	S 181.975 Axial†	84.3	53.3	95.020 ug/L		95.020 ppb	15:12:13
1	Sb 206.836†	56.2	27.6	11.785 ug/L		11.785 ppb	15:12:13
1	Se 196.026†	29.5	48.6	39.812 ug/L		39.812 ppb	15:12:13
1	Si 251.611†	3128.0	2670.2	98.887 ug/L		98.887 ppb	15:12:13
1	Sn 189.927†	46.0	38.1	8.6879 ug/L		8.6879 ppb	15:12:13
1	Ti 334.940†	2109.7	3066.3	5.1736 ug/L		5.1736 ppb	15:11:53
1	Tl 190.801†	22.8	53.8	20.924 ug/L		20.924 ppb	15:12:13
1	U 409.014†	-125.6	1877.7	54.817 ug/L		54.817 ppb	15:11:53
1	V 292.402†	-606.7	641.1	5.2393 ug/L		5.2393 ppb	15:11:53
1	Zn 213.857†	1347.7	842.9	10.169 ug/L		10.169 ppb	15:12:13
1	SiO2†	3233.3	2749.3	215.70 ug/L		215.70 ppb	15:13:09
2	Sc Radial	3327.1	3327.1	99.3 %			15:11:22
2	Y RADIAL	2717.5	2717.5	99.06 %			15:11:22
2	Al 396.153Radial†	27.2	87.4	187.30 ug/L		187.30 ppb	15:11:22
2	Ca 317.933Radial†	56.9	47.1	186.83 ug/L		186.83 ppb	15:11:22
2	Fe 238.204 Radial†	9.8	1.2	34.811 ug/L		34.811 ppb	15:11:22
2	K 766.490 Radial†	2477.7	380.6	174.05 ug/L		174.05 ppb	15:11:01
2	Mg 279.077 IEC†	3.7	3.3	322.86 ug/L		322.86 ppb	15:11:22
2	Na 589.592 Radial†	107.0	890.3	297.33 ug/L		297.33 ppb	15:11:01
2	Sr 421.552†	521.0	489.0	4.8472 ug/L		4.8472 ppb	15:11:01
2	Sc 361.383	833384.1	833384.1	99.837 %			15:12:19
2	Y 371.029	714671.3	714671.3	99.861 %			15:12:19
2	Ag 328.068†	1181.5	1024.4	5.1600 ug/L		5.1600 ppb	15:12:19
2	As 188.979†	28.1	44.1	24.566 ug/L		24.566 ppb	15:12:39
2	B 249.677†	1555.2	1648.0	46.176 ug/L		46.176 ppb	15:12:19
2	Ba 233.527†	551.7	559.8	5.2401 ug/L		5.2401 ppb	15:12:39
2	Be 313.107†	8145.4	11771.2	5.0917 ug/L		5.0917 ppb	15:12:19
2	Cd 226.502†	194.6	336.5	4.8747 ug/L		4.8747 ppb	15:12:39
2	Co 228.616†	163.9	207.8	5.4005 ug/L		5.4005 ppb	15:12:39
2	Cr 267.716†	462.2	397.2	5.1687 ug/L		5.1687 ppb	15:12:39
2	Cu 324.752†	9209.8	3154.3	10.124 ug/L		10.124 ppb	15:12:19
2	Mn 257.610†	8428.9	8053.0	10.543 ug/L		10.543 ppb	15:12:19
2	Mo 202.031†	129.0	115.5	9.9716 ug/L		9.9716 ppb	15:12:39
2	Ni 231.604†	222.6	169.9	5.3522 ug/L		5.3522 ppb	15:12:39

2	P 214.914†	364.5	189.7	142.19 ug/L	142.19 ppb	15:12:39
2	Pb 220.353†	11.2	55.1	8.5910 ug/L	8.5910 ppb	15:12:39
2	S 181.975 Axial†	85.7	55.0	98.084 ug/L	98.084 ppb	15:12:39
2	Sb 206.836†	50.8	22.4	9.6237 ug/L	9.6237 ppb	15:12:39
2	Se 196.026†	24.1	43.4	35.478 ug/L	35.478 ppb	15:12:39
2	Si 251.611†	3128.9	2681.6	99.307 ug/L	99.307 ppb	15:12:39
2	Sn 189.927†	51.2	43.4	9.9004 ug/L	9.9004 ppb	15:12:39
2	Ti 334.940†	2051.3	3014.9	5.0976 ug/L	5.0976 ppb	15:12:19
2	Tl 190.801†	14.8	45.9	17.849 ug/L	17.849 ppb	15:12:39
2	U 409.014†	-179.0	1823.9	53.245 ug/L	53.245 ppb	15:12:19
2	V 292.402†	-615.0	630.8	5.1607 ug/L	5.1607 ppb	15:12:19
2	Zn 213.857†	1348.6	848.3	10.240 ug/L	10.240 ppb	15:12:39
2	SiO2†	3235.2	2762.0	216.70 ug/L	216.70 ppb	15:13:15
3	Sc Radial	3345.9	3345.9	99.9 %		15:11:47
3	Y RADIAL	2753.8	2753.8	100.4 %		15:11:47
3	Al 396.153Radial†	27.3	87.4	187.35 ug/L	187.35 ppb	15:11:47
3	Ca 317.933Radial†	59.4	49.3	195.64 ug/L	195.64 ppb	15:11:47
3	Fe 238.204 Radial†	12.6	4.0	111.14 ug/L	111.14 ppb	15:11:47
3	K 766.490 Radial†	2343.8	232.6	106.26 ug/L	106.26 ppb	15:11:27
3	Mg 279.077 IEC†	5.2	4.7	458.42 ug/L	458.42 ppb	15:11:47
3	Na 589.592 Radial†	145.4	928.2	309.98 ug/L	309.98 ppb	15:11:27
3	Sr 421.552†	509.3	474.3	4.7013 ug/L	4.7013 ppb	15:11:27
3	Sc 361.383	837327.1	837327.1	100.31 %		15:12:44
3	Y 371.029	717164.5	717164.5	100.21 %		15:12:44
3	Ag 328.068†	1081.9	919.5	4.6550 ug/L	4.6550 ppb	15:12:44
3	As 188.979†	29.8	45.7	25.459 ug/L	25.459 ppb	15:13:04
3	B 249.677†	1555.4	1640.8	45.963 ug/L	45.963 ppb	15:12:44
3	Ba 233.527†	544.7	550.2	5.1544 ug/L	5.1544 ppb	15:13:04
3	Be 313.107†	8138.2	11725.6	5.0715 ug/L	5.0715 ppb	15:12:44
3	Cd 226.502†	206.2	347.1	5.0197 ug/L	5.0197 ppb	15:13:04
3	Co 228.616†	149.3	192.4	4.9993 ug/L	4.9993 ppb	15:13:04
3	Cr 267.716†	464.1	397.0	5.1687 ug/L	5.1687 ppb	15:13:04
3	Cu 324.752†	9226.7	3127.8	10.041 ug/L	10.041 ppb	15:12:44
3	Mn 257.610†	8488.1	8072.2	10.570 ug/L	10.570 ppb	15:12:44
3	Mo 202.031†	126.1	111.9	9.6689 ug/L	9.6689 ppb	15:13:04
3	Ni 231.604†	211.3	157.6	4.9648 ug/L	4.9648 ppb	15:13:04
3	P 214.914†	369.6	193.1	144.69 ug/L	144.69 ppb	15:13:04
3	Pb 220.353†	28.5	72.4	11.251 ug/L	11.251 ppb	15:13:04
3	S 181.975 Axial†	80.7	49.6	88.419 ug/L	88.419 ppb	15:13:04
3	Sb 206.836†	41.3	12.7	5.5895 ug/L	5.5895 ppb	15:13:04
3	Se 196.026†	17.2	36.3	29.958 ug/L	29.958 ppb	15:13:04
3	Si 251.611†	3115.0	2653.0	98.250 ug/L	98.250 ppb	15:13:04
3	Sn 189.927†	44.7	36.8	8.3859 ug/L	8.3859 ppb	15:13:04
3	Ti 334.940†	1934.5	2888.8	4.8727 ug/L	4.8727 ppb	15:12:44
3	Tl 190.801†	27.9	58.8	22.885 ug/L	22.885 ppb	15:13:04
3	U 409.014†	-127.7	1875.9	54.756 ug/L	54.756 ppb	15:12:44
3	V 292.402†	-541.0	707.5	5.7494 ug/L	5.7494 ppb	15:12:44
3	Zn 213.857†	1365.0	858.4	10.353 ug/L	10.353 ppb	15:13:04
3	SiO2†	3204.2	2715.9	213.08 ug/L	213.08 ppb	15:13:20

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835627.8	100.11 %	0.243			0.24%
Sc Radial	3332.9	99.5 %	0.34			0.34%
Y 371.029	716231.8	100.08 %	0.190			0.19%
Y RADIAL	2734.3	99.67 %	0.667			0.67%
Ag 328.068†	992.0	5.0070 ug/L	0.30574	5.0070 ppb	0.30574	6.11%
QC value within limits for Ag 328.068 Recovery = 100.14%						
Al 396.153Radial†	87.4	187.38 ug/L	0.098	187.38 ppb	0.098	0.05%
QC value within limits for Al 396.153Radial Recovery = 93.69%						
As 188.979†	43.4	24.168 ug/L	1.5288	24.168 ppb	1.5288	6.33%
QC value within limits for As 188.979 Recovery = 80.56%						
B 249.677†	1638.7	45.910 ug/L	0.2954	45.910 ppb	0.2954	0.64%
QC value within limits for B 249.677 Recovery = 91.82%						
Ba 233.527†	552.1	5.1695 ug/L	0.06438	5.1695 ppb	0.06438	1.25%
QC value within limits for Ba 233.527 Recovery = 103.39%						
Be 313.107†	11788.4	5.0990 ug/L	0.03173	5.0990 ppb	0.03173	0.62%
QC value within limits for Be 313.107 Recovery = 101.98%						
Ca 317.933Radial†	48.7	193.23 ug/L	5.602	193.23 ppb	5.602	2.90%

QC value within limits for Ca 317.933 Radial Recovery = 96.62%

Cd 226.502†	335.4	4.8552 ug/L	0.17501	4.8552 ppb	0.17501	3.60%
QC value within limits for Cd 226.502 Recovery = 97.10%						
Co 228.616†	202.2	5.2541 ug/L	0.22149	5.2541 ppb	0.22149	4.22%
QC value within limits for Co 228.616 Recovery = 105.08%						
Cr 267.716†	392.2	5.1048 ug/L	0.11060	5.1048 ppb	0.11060	2.17%
QC value within limits for Cr 267.716 Recovery = 102.10%						
Cu 324.752†	3154.0	10.124 ug/L	0.0824	10.124 ppb	0.0824	0.81%
QC value within limits for Cu 324.752 Recovery = 101.24%						
Fe 238.204 Radial†	2.5	69.263 ug/L	38.7055	69.263 ppb	38.7055	55.88%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 69.26%						
K 766.490 Radial†	281.6	128.69 ug/L	39.287	128.69 ppb	39.287	30.53%
QC value within limits for K 766.490 Radial Recovery = 85.79%						
Mg 279.077 IEC†	4.3	417.56 ug/L	82.275	417.56 ppb	82.275	19.70%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 139.19%						
Mn 257.610†	8065.7	10.559 ug/L	0.0143	10.559 ppb	0.0143	0.14%
QC value within limits for Mn 257.610 Recovery = 105.59%						
Mo 202.031†	113.3	9.7903 ug/L	0.15996	9.7903 ppb	0.15996	1.63%
QC value within limits for Mo 202.031 Recovery = 97.90%						
Na 589.592 Radial†	913.2	304.97 ug/L	6.721	304.97 ppb	6.721	2.20%
QC value within limits for Na 589.592 Radial Recovery = 101.66%						
Ni 231.604†	167.3	5.2714 ug/L	0.27529	5.2714 ppb	0.27529	5.22%
QC value within limits for Ni 231.604 Recovery = 105.43%						
P 214.914†	188.6	141.34 ug/L	3.855	141.34 ppb	3.855	2.73%
QC value within limits for P 214.914 Recovery = 94.22%						
Pb 220.353†	67.6	10.520 ug/L	1.6874	10.520 ppb	1.6874	16.04%
QC value within limits for Pb 220.353 Recovery = 105.20%						
S 181.975 Axial†	52.6	93.841 ug/L	4.9395	93.841 ppb	4.9395	5.26%
QC value within limits for S 181.975 Axial Recovery = 93.84%						
Sb 206.836†	20.9	8.9993 ug/L	3.14447	8.9993 ppb	3.14447	34.94%
QC value within limits for Sb 206.836 Recovery = 89.99%						
Se 196.026†	42.8	35.083 ug/L	4.9388	35.083 ppb	4.9388	14.08%
QC value within limits for Se 196.026 Recovery = 116.94%						
Si 251.611†	2668.3	98.815 ug/L	0.5320	98.815 ppb	0.5320	0.54%
QC value within limits for Si 251.611 Recovery = 98.81%						
Sn 189.927†	39.4	8.9914 ug/L	0.80152	8.9914 ppb	0.80152	8.91%
QC value within limits for Sn 189.927 Recovery = 89.91%						
Sr 421.552†	491.0	4.8678 ug/L	0.17769	4.8678 ppb	0.17769	3.65%
QC value within limits for Sr 421.552 Recovery = 97.36%						
Ti 334.940†	2990.0	5.0480 ug/L	0.15651	5.0480 ppb	0.15651	3.10%
QC value within limits for Ti 334.940 Recovery = 100.96%						
Tl 190.801†	52.8	20.553 ug/L	2.5387	20.553 ppb	2.5387	12.35%
QC value within limits for Tl 190.801 Recovery = 102.76%						
U 409.014†	1859.2	54.273 ug/L	0.8900	54.273 ppb	0.8900	1.64%
QC value within limits for U 409.014 Recovery = 108.55%						
V 292.402†	659.8	5.3832 ug/L	0.31964	5.3832 ppb	0.31964	5.94%
QC value within limits for V 292.402 Recovery = 107.66%						
Zn 213.857†	849.9	10.254 ug/L	0.0928	10.254 ppb	0.0928	0.91%
QC value within limits for Zn 213.857 Recovery = 102.54%						
SiO2†	2742.4	215.16 ug/L	1.870	215.16 ppb	1.870	0.87%
QC value within limits for SiO2 Recovery = 101.01%						

QC Failed. Continue with analysis.

Sequence No.: 9

Sample ID: IC5A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 3/9/2010 15:15:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: IC5A

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3025.4	3025.4	90.3 %		15:17:44
1	Y RADIAL	2470.0	2470.0	90.04 %		15:17:44
1	Al 396.153Radial†	218028.8	241514.8	519050 ug/L	519050 ppb	15:17:24
1	Ca 317.933Radial†	109722.7	121501.6	482190 ug/L	482190 ppb	15:17:24
1	Fe 238.204 Radial†	6078.5	6722.9	186870 ug/L	186870 ppb	15:17:44
1	K 766.490 Radial†	2106.1	218.0	-61.490 ug/L	-61.490 ppb	15:17:24
1	Mg 279.077 IEC†	4618.9	5114.7	496170 ug/L	496170 ppb	15:17:44
1	Na 589.592 Radial†	-615.0	101.5	33.905 ug/L	33.905 ppb	15:17:44
1	Sr 421.552†	364.8	368.3	0.0515 ug/L	0.0515 ppb	15:17:44
1	Sc 361.383	699563.9	699563.9	83.806 %		15:18:41
1	Y 371.029	586363.8	586363.8	81.933 %		15:18:41
1	Ag 328.068†	-8683.8	-10520.9	-1.8859 ug/L	-1.8859 ppb	15:18:41
1	As 188.979†	-68.4	-65.7	7.0918 ug/L	7.0918 ppb	15:19:01
1	B 249.677†	605.9	813.2	-7.5545 ug/L	-7.5545 ppb	15:18:41
1	Ba 233.527†	-413.7	-486.5	1.1819 ug/L	1.1819 ppb	15:19:01
1	Be 313.107†	-3756.0	-869.3	-0.4362 ug/L	-0.4362 ppb	15:18:41
1	Cd 226.502†	1143.5	1506.0	2.4794 ug/L	2.4794 ppb	15:19:01
1	Co 228.616†	7.8	52.8	-1.3235 ug/L	-1.3235 ppb	15:19:01
1	Cr 267.716†	-740.1	-948.8	-4.7011 ug/L	-4.7011 ppb	15:19:01
1	Cu 324.752†	3744.2	-1602.7	4.7085 ug/L	4.7085 ppb	15:19:01
1	Mn 257.610†	679.1	420.7	-1.2878 ug/L	-1.2878 ppb	15:18:41
1	Mo 202.031†	-214.6	-269.8	-3.0448 ug/L	-3.0448 ppb	15:19:01
1	Ni 231.604†	160.7	138.8	4.3728 ug/L	4.3728 ppb	15:19:01
1	P 214.914†	140.9	-7.3	-26.393 ug/L	-26.393 ppb	15:19:01
1	Pb 220.353†	-588.3	-658.0	-6.9432 ug/L	-6.9432 ppb	15:19:01
1	S 181.975 Axial†	52.0	31.2	-41.688 ug/L	-41.688 ppb	15:19:01
1	Sb 206.836†	42.1	21.8	-8.6983 ug/L	-8.6983 ppb	15:19:01
1	Se 196.026†	-696.0	-811.2	1.5015 ug/L	1.5015 ppb	15:19:01
1	Si 251.611†	386.0	8.2	0.5922 ug/L	0.5922 ppb	15:19:01
1	Sn 189.927†	-307.3	-374.6	-10.177 ug/L	-10.177 ppb	15:19:01
1	Ti 334.940†	-14062.6	-15819.7	-2.7707 ug/L	-2.7707 ppb	15:18:41
1	Tl 190.801†	-48.3	-26.5	-10.556 ug/L	-10.556 ppb	15:19:01
1	U 409.014†	-407.1	1517.4	23.036 ug/L	23.036 ppb	15:18:41
1	V 292.402†	904.2	2325.7	0.3141 ug/L	0.3141 ppb	15:19:01
1	Zn 213.857†	2503.1	2484.3	2.1576 ug/L	2.1576 ppb	15:19:01
1	SiO2†	402.9	2.3	0.8141 ug/L	0.8141 ppb	15:19:58
2	Sc Radial	3027.3	3027.3	90.4 %		15:18:09
2	Y RADIAL	2479.7	2479.7	90.39 %		15:18:09
2	Al 396.153Radial†	219072.5	242513.6	521200 ug/L	521200 ppb	15:17:49
2	Ca 317.933Radial†	109814.6	121524.7	482280 ug/L	482280 ppb	15:17:49
2	Fe 238.204 Radial†	6090.5	6731.9	187120 ug/L	187120 ppb	15:18:09
2	K 766.490 Radial†	2042.9	146.5	-94.272 ug/L	-94.272 ppb	15:17:49
2	Mg 279.077 IEC†	4630.8	5124.6	497130 ug/L	497130 ppb	15:18:09
2	Na 589.592 Radial†	-615.3	101.6	33.935 ug/L	33.935 ppb	15:18:09
2	Sr 421.552†	370.1	373.9	0.1061 ug/L	0.1061 ppb	15:18:09
2	Sc 361.383	703205.6	703205.6	84.242 %		15:19:07
2	Y 371.029	590659.4	590659.4	82.533 %		15:19:07
2	Ag 328.068†	-8675.8	-10457.7	-1.4951 ug/L	-1.4951 ppb	15:19:07
2	As 188.979†	-71.5	-69.0	5.3103 ug/L	5.3103 ppb	15:19:27
2	B 249.677†	603.5	806.6	-7.7823 ug/L	-7.7823 ppb	15:19:07
2	Ba 233.527†	-423.0	-494.9	1.1101 ug/L	1.1101 ppb	15:19:27
2	Be 313.107†	-3822.6	-925.1	-0.4596 ug/L	-0.4596 ppb	15:19:07
2	Cd 226.502†	1128.2	1480.8	2.0896 ug/L	2.0896 ppb	15:19:27
2	Co 228.616†	26.3	74.8	-0.7516 ug/L	-0.7516 ppb	15:19:27
2	Cr 267.716†	-736.3	-939.8	-4.5748 ug/L	-4.5748 ppb	15:19:27
2	Cu 324.752†	3737.1	-1634.2	4.6177 ug/L	4.6177 ppb	15:19:27
2	Mn 257.610†	659.2	392.8	-1.3386 ug/L	-1.3386 ppb	15:19:07
2	Mo 202.031†	-191.0	-240.5	-0.4938 ug/L	-0.4938 ppb	15:19:27
2	Ni 231.604†	161.2	138.3	4.3572 ug/L	4.3572 ppb	15:19:27

2	P 214.914†	144.9	-3.4	-23.095 ug/L	-23.095 ppb	15:19:27
2	Pb 220.353†	-561.7	-622.8	-1.0468 ug/L	-1.0468 ppb	15:19:27
2	S 181.975 Axial†	43.9	21.3	-59.714 ug/L	-59.714 ppb	15:19:27
2	Sb 206.836†	56.9	39.0	-1.5470 ug/L	-1.5470 ppb	15:19:27
2	Se 196.026†	-703.2	-815.5	-0.6808 ug/L	-0.6808 ppb	15:19:27
2	Si 251.611†	384.8	4.4	0.4177 ug/L	0.4177 ppb	15:19:27
2	Sn 189.927†	-303.5	-368.1	-8.6987 ug/L	-8.6987 ppb	15:19:27
2	Ti 334.940†	-13993.8	-15651.1	-2.5520 ug/L	-2.5520 ppb	15:19:07
2	Tl 190.801†	-69.2	-51.1	-20.065 ug/L	-20.065 ppb	15:19:27
2	U 409.014†	-273.9	1678.1	27.700 ug/L	27.700 ppb	15:19:07
2	V 292.402†	886.3	2298.8	0.1310 ug/L	0.1310 ppb	15:19:27
2	Zn 213.857†	2513.8	2481.6	2.0872 ug/L	2.0872 ppb	15:19:27
2	SiO2†	403.1	0.0	0.5691 ug/L	0.5691 ppb	15:20:03
3	Sc Radial	3015.0	3015.0	90.0 %		15:18:35
3	Y RADIAL	2462.4	2462.4	89.76 %		15:18:35
3	Al 396.153Radial†	218899.7	243309.9	522910 ug/L	522910 ppb	15:18:15
3	Ca 317.933Radial†	109667.3	121856.4	483600 ug/L	483600 ppb	15:18:15
3	Fe 238.204 Radial†	6100.0	6769.9	188170 ug/L	188170 ppb	15:18:35
3	K 766.490 Radial†	2123.9	245.7	-49.277 ug/L	-49.277 ppb	15:18:15
3	Mg 279.077 IEC†	4622.1	5135.8	498220 ug/L	498220 ppb	15:18:35
3	Na 589.592 Radial†	-634.1	77.9	26.023 ug/L	26.023 ppb	15:18:35
3	Sr 421.552†	364.3	369.2	0.0498 ug/L	0.0498 ppb	15:18:35
3	Sc 361.383	712257.8	712257.8	85.326 %		15:19:32
3	Y 371.029	596860.9	596860.9	83.400 %		15:19:32
3	Ag 328.068†	-8791.3	-10462.2	-1.2071 ug/L	-1.2071 ppb	15:19:32
3	As 188.979†	-84.8	-83.4	-2.4598 ug/L	-2.4598 ppb	15:19:52
3	B 249.677†	570.5	758.8	-9.2902 ug/L	-9.2902 ppb	15:19:32
3	Ba 233.527†	-441.0	-509.6	1.0050 ug/L	1.0050 ppb	15:19:52
3	Be 313.107†	-3844.2	-892.7	-0.4442 ug/L	-0.4442 ppb	15:19:32
3	Cd 226.502†	1108.1	1440.3	1.3941 ug/L	1.3941 ppb	15:19:52
3	Co 228.616†	2.6	46.7	-1.5044 ug/L	-1.5044 ppb	15:19:52
3	Cr 267.716†	-751.2	-946.2	-4.6142 ug/L	-4.6142 ppb	15:19:52
3	Cu 324.752†	3774.9	-1646.4	4.6357 ug/L	4.6357 ppb	15:19:52
3	Mn 257.610†	534.5	236.8	-1.4833 ug/L	-1.4833 ppb	15:19:32
3	Mo 202.031†	-217.9	-269.1	-2.8666 ug/L	-2.8666 ppb	15:19:52
3	Ni 231.604†	145.8	117.8	3.7132 ug/L	3.7132 ppb	15:19:52
3	P 214.914†	148.2	-1.7	-22.175 ug/L	-22.175 ppb	15:19:52
3	Pb 220.353†	-599.8	-659.0	-6.4130 ug/L	-6.4130 ppb	15:19:52
3	S 181.975 Axial†	44.1	20.8	-60.828 ug/L	-60.828 ppb	15:19:52
3	Sb 206.836†	54.3	35.2	-3.2686 ug/L	-3.2686 ppb	15:19:52
3	Se 196.026†	-716.1	-820.0	-0.9378 ug/L	-0.9378 ppb	15:19:52
3	Si 251.611†	461.6	88.6	3.5695 ug/L	3.5695 ppb	15:19:52
3	Sn 189.927†	-309.3	-370.3	-9.0303 ug/L	-9.0303 ppb	15:19:52
3	Ti 334.940†	-13849.5	-15271.0	-1.8171 ug/L	-1.8171 ppb	15:19:32
3	Tl 190.801†	-55.1	-33.6	-13.269 ug/L	-13.269 ppb	15:19:52
3	U 409.014†	-338.7	1606.2	25.479 ug/L	25.479 ppb	15:19:32
3	V 292.402†	897.1	2298.2	-0.0465 ug/L	-0.0465 ppb	15:19:52
3	Zn 213.857†	2498.4	2425.6	1.2548 ug/L	1.2548 ppb	15:19:52
3	SiO2†	398.8	-11.1	-0.2408 ug/L	-0.2408 ppb	15:20:08

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	705009.1	84.458 %	0.7830			0.93%
Sc Radial	3022.6	90.2 %	0.20			0.22%
Y 371.029	591294.7	82.622 %	0.7374			0.89%
Y RADIAL	2470.7	90.06 %	0.315			0.35%
Ag 328.068†	-10480.3	-1.5294 ug/L	0.34069	-1.5294 ppb	0.34069	22.28%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	242446.1	521060 ug/L	1933.0	521060 ppb	1933.0	0.37%
QC value within limits for Al 396.153Radial Recovery = 104.21%						
As 188.979†	-72.7	3.3141 ug/L	5.07904	3.3141 ppb	5.07904	153.26%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	792.9	-8.2090 ug/L	0.94326	-8.2090 ppb	0.94326	11.49%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-497.0	1.0990 ug/L	0.08898	1.0990 ppb	0.08898	8.10%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-895.7	-0.4467 ug/L	0.01191	-0.4467 ppb	0.01191	2.67%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	121627.6	482690 ug/L	787.9	482690 ppb	787.9	0.16%

QC value within limits for Ca 317.933 Radial Recovery = 96.54%							
Cd	226.502†	1475.7	1.9877 ug/L	0.54976	1.9877 ppb	0.54976	27.66%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	58.1	-1.1931 ug/L	0.39294	-1.1931 ppb	0.39294	32.93%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-944.9	-4.6300 ug/L	0.06465	-4.6300 ppb	0.06465	1.40%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-1627.8	4.6540 ug/L	0.04810	4.6540 ppb	0.04810	1.03%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	6741.6	187380 ug/L	693.3	187380 ppb	693.3	0.37%
QC value within limits for Fe 238.204 Radial Recovery = 93.69%							
K	766.490 Radial†	203.4	-68.346 ug/L	23.2677	-68.346 ppb	23.2677	34.04%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	5125.0	497170 ug/L	1021.4	497170 ppb	1021.4	0.21%
QC value within limits for Mg 279.077 IEC Recovery = 99.43%							
Mn	257.610†	350.1	-1.3699 ug/L	0.10143	-1.3699 ppb	0.10143	7.40%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-259.8	-2.1351 ug/L	1.42415	-2.1351 ppb	1.42415	66.70%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	93.7	31.288 ug/L	4.5592	31.288 ppb	4.5592	14.57%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	131.6	4.1477 ug/L	0.37643	4.1477 ppb	0.37643	9.08%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-4.1	-23.888 ug/L	2.2178	-23.888 ppb	2.2178	9.28%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-646.6	-4.8010 ug/L	3.26201	-4.8010 ppb	3.26201	67.94%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	24.4	-54.077 ug/L	10.7436	-54.077 ppb	10.7436	19.87%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	32.0	-4.5046 ug/L	3.73239	-4.5046 ppb	3.73239	82.86%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-815.6	-0.0390 ug/L	1.34029	-0.0390 ppb	1.34029	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	33.7	1.5265 ug/L	1.77144	1.5265 ppb	1.77144	116.05%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-371.0	-9.3020 ug/L	0.77572	-9.3020 ppb	0.77572	8.34%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	370.4	0.0692 ug/L	0.03205	0.0692 ppb	0.03205	46.34%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-15580.6	-2.3800 ug/L	0.49953	-2.3800 ppb	0.49953	20.99%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-37.1	-14.630 ug/L	4.8987	-14.630 ppb	4.8987	33.48%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	1600.5	25.405 ug/L	2.3326	25.405 ppb	2.3326	9.18%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	2307.5	0.1328 ug/L	0.18032	0.1328 ppb	0.18032	135.74%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	2463.8	1.8332 ug/L	0.50217	1.8332 ppb	0.50217	27.39%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		-2.9	0.3808 ug/L	0.55207	0.3808 ppb	0.55207	144.97%
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 14
 Date Collected: 3/9/2010 15:22:19
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3029.8	3029.8	90.4 %		15:24:31
1	Y RADIAL	2482.3	2482.3	90.49 %		15:24:31
1	Al 396.153Radial†	221927.1	245467.4	527520 ug/L	527520 ppb	15:24:11
1	Ca 317.933Radial†	110442.3	122117.0	484630 ug/L	484630 ppb	15:24:11
1	Fe 238.204 Radial†	6143.3	6784.6	188590 ug/L	188590 ppb	15:24:31
1	K 766.490 Radial†	13763.6	13105.4	5834.3 ug/L	5834.3 ppb	15:24:11
1	Mg 279.077 IEC†	4652.0	5143.8	499000 ug/L	499000 ppb	15:24:31
1	Na 589.592 Radial†	13995.8	16259.2	5429.9 ug/L	5429.9 ppb	15:24:11
1	Sr 421.552†	47743.3	52758.9	519.54 ug/L	519.54 ppb	15:24:11
1	Sc 361.383	722492.1	722492.1	86.552 %		15:25:29
1	Y 371.029	603668.8	603668.8	84.351 %		15:25:29
1	Ag 328.068†	38305.1	44097.4	276.21 ug/L	276.21 ppb	15:25:29
1	As 188.979†	750.0	882.5	537.86 ug/L	537.86 ppb	15:25:49
1	B 249.677†	16870.3	19581.6	517.00 ug/L	517.00 ppb	15:25:29
1	Ba 233.527†	45657.9	52758.9	499.64 ug/L	499.64 ppb	15:25:29
1	Be 313.107†	493674.4	573988.6	248.82 ug/L	248.82 ppb	15:25:29
1	Cd 226.502†	28911.2	33544.6	465.82 ug/L	465.82 ppb	15:25:49
1	Co 228.616†	15100.1	17489.7	450.97 ug/L	450.97 ppb	15:25:49
1	Cr 267.716†	31534.0	36367.7	482.63 ug/L	482.63 ppb	15:25:29
1	Cu 324.752†	153880.1	171717.8	562.30 ug/L	562.30 ppb	15:25:29
1	Mn 257.610†	320561.8	369977.5	483.04 ug/L	483.04 ppb	15:25:29
1	Mo 202.031†	4769.6	5496.9	494.86 ug/L	494.86 ppb	15:25:49
1	Ni 231.604†	12519.0	14411.0	453.95 ug/L	453.95 ppb	15:25:49
1	P 214.914†	3067.4	3368.6	2432.2 ug/L	2432.2 ppb	15:25:49
1	Pb 220.353†	2002.4	2357.5	462.57 ug/L	462.57 ppb	15:25:49
1	S 181.975 Axial†	1332.6	1508.8	2592.2 ug/L	2592.2 ppb	15:25:49
1	Sb 206.836†	1193.4	1350.3	559.50 ug/L	559.50 ppb	15:25:49
1	Se 196.026†	2019.0	2351.9	2583.7 ug/L	2583.7 ppb	15:25:49
1	Si 251.611†	124254.9	143107.9	5300.4 ug/L	5300.4 ppb	15:25:29
1	Sn 189.927†	1560.9	1795.6	483.28 ug/L	483.28 ppb	15:25:49
1	Ti 334.940†	247681.8	287124.1	511.82 ug/L	511.82 ppb	15:25:29
1	Tl 190.801†	969.2	1150.9	449.80 ug/L	449.80 ppb	15:25:49
1	U 409.014†	14455.3	18704.4	523.65 ug/L	523.65 ppb	15:25:29
1	V 292.402†	57314.3	67465.9	515.89 ug/L	515.89 ppb	15:25:29
1	Zn 213.857†	38125.3	43546.3	496.50 ug/L	496.50 ppb	15:25:29
1	SiO2†	126073.5	145182.9	11392 ug/L	11392 ppb	15:26:46
2	Sc Radial	3046.6	3046.6	90.9 %		15:24:56
2	Y RADIAL	2480.8	2480.8	90.43 %		15:24:56
2	Al 396.153Radial†	222661.3	244928.7	526370 ug/L	526370 ppb	15:24:36
2	Ca 317.933Radial†	110701.0	121731.7	483100 ug/L	483100 ppb	15:24:36
2	Fe 238.204 Radial†	6175.8	6783.1	188550 ug/L	188550 ppb	15:24:56
2	K 766.490 Radial†	13749.3	13006.1	5789.4 ug/L	5789.4 ppb	15:24:36
2	Mg 279.077 IEC†	4683.2	5149.8	499590 ug/L	499590 ppb	15:24:56
2	Na 589.592 Radial†	14109.4	16299.2	5443.2 ug/L	5443.2 ppb	15:24:36
2	Sr 421.552†	47792.6	52523.5	517.22 ug/L	517.22 ppb	15:24:36
2	Sc 361.383	728727.2	728727.2	87.299 %		15:25:55
2	Y 371.029	609776.7	609776.7	85.204 %		15:25:55
2	Ag 328.068†	38694.8	44165.2	276.56 ug/L	276.56 ppb	15:25:55
2	As 188.979†	746.6	871.2	531.56 ug/L	531.56 ppb	15:26:15
2	B 249.677†	17083.2	19658.7	519.18 ug/L	519.18 ppb	15:25:55
2	Ba 233.527†	45774.1	52440.6	496.66 ug/L	496.66 ppb	15:25:55
2	Be 313.107†	497937.7	573991.8	248.82 ug/L	248.82 ppb	15:25:55
2	Cd 226.502†	28823.3	33158.2	460.23 ug/L	460.23 ppb	15:26:15
2	Co 228.616†	15086.9	17325.3	446.68 ug/L	446.68 ppb	15:26:15
2	Cr 267.716†	31687.8	36232.1	480.86 ug/L	480.86 ppb	15:25:55
2	Cu 324.752†	155583.7	172148.1	563.68 ug/L	563.68 ppb	15:25:55
2	Mn 257.610†	322534.6	369068.3	481.82 ug/L	481.82 ppb	15:25:55
2	Mo 202.031†	4711.8	5383.5	485.05 ug/L	485.05 ppb	15:26:15
2	Ni 231.604†	12443.0	14200.2	447.30 ug/L	447.30 ppb	15:26:15

2	P 214.914†	3041.1	3308.1	2385.8 ug/L	2385.8 ppb	15:26:15
2	Pb 220.353†	1995.3	2329.5	457.96 ug/L	457.96 ppb	15:26:15
2	S 181.975 Axial†	1342.7	1507.2	2589.7 ug/L	2589.7 ppb	15:26:15
2	Sb 206.836†	1219.0	1367.8	566.53 ug/L	566.53 ppb	15:26:15
2	Se 196.026†	2021.5	2334.9	2569.4 ug/L	2569.4 ppb	15:26:15
2	Si 251.611†	125334.2	143115.8	5300.8 ug/L	5300.8 ppb	15:25:55
2	Sn 189.927†	1564.3	1784.0	480.40 ug/L	480.40 ppb	15:26:15
2	Ti 334.940†	249407.7	286652.6	510.77 ug/L	510.77 ppb	15:25:55
2	Tl 190.801†	954.1	1124.0	439.39 ug/L	439.39 ppb	15:26:15
2	U 409.014†	14459.0	18565.7	519.61 ug/L	519.61 ppb	15:25:55
2	V 292.402†	57722.9	67367.4	514.99 ug/L	514.99 ppb	15:25:55
2	Zn 213.857†	38460.9	43553.8	496.64 ug/L	496.64 ppb	15:25:55
2	SiO2†	124799.7	142477.5	11180 ug/L	11180 ppb	15:26:52
3	Sc Radial	3053.7	3053.7	91.1 %		15:25:22
3	Y RADIAL	2488.3	2488.3	90.71 %		15:25:22
3	Al 396.153Radial†	224804.5	246706.2	530190 ug/L	530190 ppb	15:25:02
3	Ca 317.933Radial†	111417.1	122232.0	485090 ug/L	485090 ppb	15:25:02
3	Fe 238.204 Radial†	6212.9	6807.9	189240 ug/L	189240 ppb	15:25:22
3	K 766.490 Radial†	13967.5	13210.2	5882.1 ug/L	5882.1 ppb	15:25:02
3	Mg 279.077 IEC†	4705.0	5161.7	500730 ug/L	500730 ppb	15:25:22
3	Na 589.592 Radial†	14164.9	16323.8	5451.4 ug/L	5451.4 ppb	15:25:02
3	Sr 421.552†	48437.4	53107.9	523.00 ug/L	523.00 ppb	15:25:02
3	Sc 361.383	727771.0	727771.0	87.185 %		15:26:21
3	Y 371.029	609176.4	609176.4	85.120 %		15:26:21
3	Ag 328.068†	38625.9	44144.4	276.64 ug/L	276.64 ppb	15:26:21
3	As 188.979†	735.7	859.8	525.41 ug/L	525.41 ppb	15:26:41
3	B 249.677†	17142.6	19752.6	521.70 ug/L	521.70 ppb	15:26:21
3	Ba 233.527†	46005.4	52774.8	499.81 ug/L	499.81 ppb	15:26:21
3	Be 313.107†	500171.6	577303.6	250.26 ug/L	250.26 ppb	15:26:21
3	Cd 226.502†	28784.1	33156.6	460.14 ug/L	460.14 ppb	15:26:41
3	Co 228.616†	15043.5	17298.3	445.98 ug/L	445.98 ppb	15:26:41
3	Cr 267.716†	31848.9	36464.6	483.92 ug/L	483.92 ppb	15:26:21
3	Cu 324.752†	155476.0	172258.7	564.07 ug/L	564.07 ppb	15:26:21
3	Mn 257.610†	323642.7	370824.8	484.14 ug/L	484.14 ppb	15:26:21
3	Mo 202.031†	4731.1	5412.8	487.66 ug/L	487.66 ppb	15:26:41
3	Ni 231.604†	12471.3	14251.4	448.92 ug/L	448.92 ppb	15:26:41
3	P 214.914†	3032.0	3302.3	2381.7 ug/L	2381.7 ppb	15:26:41
3	Pb 220.353†	2027.0	2368.8	464.82 ug/L	464.82 ppb	15:26:41
3	S 181.975 Axial†	1335.4	1500.9	2577.6 ug/L	2577.6 ppb	15:26:41
3	Sb 206.836†	1197.7	1345.3	557.15 ug/L	557.15 ppb	15:26:41
3	Se 196.026†	2004.1	2317.9	2558.6 ug/L	2558.6 ppb	15:26:41
3	Si 251.611†	125546.7	143548.2	5316.8 ug/L	5316.8 ppb	15:26:21
3	Sn 189.927†	1565.3	1787.6	481.51 ug/L	481.51 ppb	15:26:41
3	Ti 334.940†	250069.2	287786.8	512.86 ug/L	512.86 ppb	15:26:21
3	Tl 190.801†	977.8	1152.6	450.49 ug/L	450.49 ppb	15:26:41
3	U 409.014†	14683.1	18844.5	527.67 ug/L	527.67 ppb	15:26:21
3	V 292.402†	57848.6	67598.5	516.77 ug/L	516.77 ppb	15:26:21
3	Zn 213.857†	38622.5	43797.1	499.48 ug/L	499.48 ppb	15:26:21
3	SiO2†	126207.2	144279.8	11321 ug/L	11321 ppb	15:26:57

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	726330.1	87.012 %	0.4023			0.46%
Sc Radial	3043.4	90.8 %	0.37			0.40%
Y 371.029	607540.6	84.892 %	0.4704			0.55%
Y RADIAL	2483.8	90.54 %	0.145			0.16%
Ag 328.068†	44135.7	276.47 ug/L	0.229	276.47 ppb	0.229	0.08%
QC value within limits for Ag 328.068 Recovery = 110.59%						
Al 396.153Radial†	245700.8	528030 ug/L	1958.8	528030 ppb	1958.8	0.37%
QC value within limits for Al 396.153Radial Recovery = 105.61%						
As 188.979†	871.2	531.61 ug/L	6.225	531.61 ppb	6.225	1.17%
QC value within limits for As 188.979 Recovery = 106.32%						
B 249.677†	19664.3	519.29 ug/L	2.354	519.29 ppb	2.354	0.45%
QC value within limits for B 249.677 Recovery = 103.86%						
Ba 233.527†	52658.1	498.70 ug/L	1.769	498.70 ppb	1.769	0.35%
QC value within limits for Ba 233.527 Recovery = 99.74%						
Be 313.107†	575094.7	249.30 ug/L	0.828	249.30 ppb	0.828	0.33%
QC value within limits for Be 313.107 Recovery = 99.72%						
Ca 317.933Radial†	122026.9	484270 ug/L	1039.9	484270 ppb	1039.9	0.21%

QC value within limits for Ca 317.933 Radial Recovery = 96.85%						
Cd	226.502†	33286.5	462.06 ug/L	3.252	462.06 ppb	3.252 0.70%
QC value within limits for Cd 226.502 Recovery = 92.41%						
Co	228.616†	17371.1	447.88 ug/L	2.701	447.88 ppb	2.701 0.60%
QC value within limits for Co 228.616 Recovery = 89.58%						
Cr	267.716†	36354.8	482.47 ug/L	1.536	482.47 ppb	1.536 0.32%
QC value within limits for Cr 267.716 Recovery = 96.49%						
Cu	324.752†	172041.5	563.35 ug/L	0.932	563.35 ppb	0.932 0.17%
QC value within limits for Cu 324.752 Recovery = 112.67%						
Fe	238.204 Radial†	6791.9	188800 ug/L	385.8	188800 ppb	385.8 0.20%
QC value within limits for Fe 238.204 Radial Recovery = 94.40%						
K	766.490 Radial†	13107.2	5835.3 ug/L	46.37	5835.3 ppb	46.37 0.79%
QC value within limits for K 766.490 Radial Recovery = 116.71%						
Mg	279.077 IEC†	5151.8	499770 ug/L	883.6	499770 ppb	883.6 0.18%
QC value within limits for Mg 279.077 IEC Recovery = 99.95%						
Mn	257.610†	369956.9	483.00 ug/L	1.162	483.00 ppb	1.162 0.24%
QC value within limits for Mn 257.610 Recovery = 96.60%						
Mo	202.031†	5431.1	489.19 ug/L	5.081	489.19 ppb	5.081 1.04%
QC value within limits for Mo 202.031 Recovery = 97.84%						
Na	589.592 Radial†	16294.1	5441.5 ug/L	10.89	5441.5 ppb	10.89 0.20%
QC value within limits for Na 589.592 Radial Recovery = 108.83%						
Ni	231.604†	14287.5	450.06 ug/L	3.464	450.06 ppb	3.464 0.77%
QC value within limits for Ni 231.604 Recovery = 90.01%						
P	214.914†	3326.3	2399.9 ug/L	28.09	2399.9 ppb	28.09 1.17%
QC value within limits for P 214.914 Recovery = 96.00%						
Pb	220.353†	2351.9	461.78 ug/L	3.502	461.78 ppb	3.502 0.76%
QC value within limits for Pb 220.353 Recovery = 92.36%						
S	181.975 Axial†	1505.6	2586.5 ug/L	7.82	2586.5 ppb	7.82 0.30%
QC value within limits for S 181.975 Axial Recovery = 103.46%						
Sb	206.836†	1354.5	561.06 ug/L	4.880	561.06 ppb	4.880 0.87%
QC value within limits for Sb 206.836 Recovery = 112.21%						
Se	196.026†	2334.9	2570.6 ug/L	12.61	2570.6 ppb	12.61 0.49%
QC value within limits for Se 196.026 Recovery = 102.82%						
Si	251.611†	143257.3	5306.0 ug/L	9.36	5306.0 ppb	9.36 0.18%
QC value within limits for Si 251.611 Recovery = 106.12%						
Sn	189.927†	1789.1	481.73 ug/L	1.455	481.73 ppb	1.455 0.30%
QC value within limits for Sn 189.927 Recovery = 96.35%						
Sr	421.552†	52796.8	519.92 ug/L	2.908	519.92 ppb	2.908 0.56%
QC value within limits for Sr 421.552 Recovery = 103.98%						
Ti	334.940†	287187.8	511.82 ug/L	1.048	511.82 ppb	1.048 0.20%
QC value within limits for Ti 334.940 Recovery = 102.36%						
Tl	190.801†	1142.5	446.56 ug/L	6.219	446.56 ppb	6.219 1.39%
QC value within limits for Tl 190.801 Recovery = 89.31%						
U	409.014†	18704.9	523.64 ug/L	4.028	523.64 ppb	4.028 0.77%
QC value within limits for U 409.014 Recovery = 104.73%						
V	292.402†	67477.3	515.88 ug/L	0.887	515.88 ppb	0.887 0.17%
QC value within limits for V 292.402 Recovery = 103.18%						
Zn	213.857†	43632.4	497.54 ug/L	1.680	497.54 ppb	1.680 0.34%
QC value within limits for Zn 213.857 Recovery = 99.51%						
SiO2†		143980.1	11297 ug/L	108.1	11297 ppb	108.1 0.96%
QC value within limits for SiO2 Recovery = 105.63%						

All analyte(s) passed QC.

Sequence No.: 11
 Sample ID: LR1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 15
 Date Collected: 3/9/2010 15:29:07
 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	2852.3	2852.3	85.1 %		15:31:20
1	Y RADIAL	2350.4	2350.4	85.68 %		15:31:20
1	Al 396.153Radial†	212057.4	249146.6	535460 ug/L	535460 ppb	15:31:00
1	Ca 317.933Radial†	106617.9	125225.1	496970 ug/L	496970 ppb	15:31:00
1	Fe 238.204 Radial†	14268.0	16750.9	465600 ug/L	465600 ppb	15:31:20
1	K 766.490 Radial†	2385.9	688.1	-55.383 ug/L	-55.383 ppb	15:31:00
1	Mg 279.077 IEC†	4599.5	5402.2	523780 ug/L	523780 ppb	15:31:20
1	Na 589.592 Radial†	1333848.2	1567545.8	523490 ug/L	523490 ppb	15:31:00
1	Sr 421.552†	1149.8	1314.9	9.3281 ug/L	9.3281 ppb	15:31:20
1	Sc 361.383	700613.5	700613.5	83.931 %		15:32:18
1	Y 371.029	588746.5	588746.5	82.266 %		15:32:18
1	Ag 328.068†	-19905.1	-23875.0	4.1906 ug/L	4.1906 ppb	15:32:18
1	As 188.979†	-160.7	-175.5	11.424 ug/L	11.424 ppb	15:32:39
1	B 249.677†	1653.4	2060.2	-17.879 ug/L	-17.879 ppb	15:32:18
1	Ba 233.527†	-1252.2	-1484.8	0.3633 ug/L	0.3633 ppb	15:32:39
1	Be 313.107†	-9893.2	-8174.7	-3.5773 ug/L	-3.5773 ppb	15:32:18
1	Cd 226.502†	2821.5	3503.3	5.5419 ug/L	5.5419 ppb	15:32:39
1	Co 228.616†	195.6	276.7	0.3951 ug/L	0.3951 ppb	15:32:39
1	Cr 267.716†	-592.5	-771.6	2.9937 ug/L	2.9937 ppb	15:32:39
1	Cu 324.752†	1481.4	-4305.5	2.2905 ug/L	2.2905 ppb	15:32:18
1	Mn 257.610†	-17306.1	-21009.0	-2.9813 ug/L	-2.9813 ppb	15:32:18
1	Mo 202.031†	-399.2	-489.4	-0.1878 ug/L	-0.1878 ppb	15:32:39
1	Ni 231.604†	220.4	209.5	6.5992 ug/L	6.5992 ppb	15:32:39
1	P 214.914†	458.1	370.4	41.678 ug/L	41.678 ppb	15:32:39
1	Pb 220.353†	-384.5	-414.2	-5.0621 ug/L	-5.0621 ppb	15:32:39
1	S 181.975 Axial†	57.6	37.8	-32.928 ug/L	-32.928 ppb	15:32:39
1	Sb 206.836†	50.1	31.3	-8.8069 ug/L	-8.8069 ppb	15:32:39
1	Se 196.026†	-1635.9	-1929.8	-134.72 ug/L	-134.72 ppb	15:32:39
1	Si 251.611†	-434.5	-970.1	-35.450 ug/L	-35.450 ppb	15:32:39
1	Sn 189.927†	-333.9	-405.7	-30.618 ug/L	-30.618 ppb	15:32:39
1	Ti 334.940†	-11535.0	-12783.2	-4.6288 ug/L	-4.6288 ppb	15:32:18
1	Tl 190.801†	-84.0	-69.0	-27.176 ug/L	-27.176 ppb	15:32:39
1	U 409.014†	439494.9	525638.7	15297 ug/L	15297 ppb	15:32:18
1	V 292.402†	2091.6	3738.8	0.3069 ug/L	0.3069 ppb	15:32:39
1	Zn 213.857†	4561.0	4931.8	-9.8603 ug/L	-9.8603 ppb	15:32:39
1	SiO2†	-535.5	-1116.5	-86.552 ug/L	-86.552 ppb	15:33:35
2	Sc Radial	2931.5	2931.5	87.5 %		15:31:46
2	Y RADIAL	2419.3	2419.3	88.19 %		15:31:46
2	Al 396.153Radial†	216750.6	247782.8	532530 ug/L	532530 ppb	15:31:26
2	Ca 317.933Radial†	108104.2	123541.3	490280 ug/L	490280 ppb	15:31:26
2	Fe 238.204 Radial†	14066.4	16067.7	446610 ug/L	446610 ppb	15:31:46
2	K 766.490 Radial†	2365.0	588.5	-98.359 ug/L	-98.359 ppb	15:31:26
2	Mg 279.077 IEC†	4534.8	5182.4	502470 ug/L	502470 ppb	15:31:46
2	Na 589.592 Radial†	1368320.3	1564626.6	522520 ug/L	522520 ppb	15:31:26
2	Sr 421.552†	1139.2	1266.3	8.8960 ug/L	8.8960 ppb	15:31:46
2	Sc 361.383	698102.9	698102.9	83.631 %		15:32:44
2	Y 371.029	587207.1	587207.1	82.051 %		15:32:44
2	Ag 328.068†	-19865.4	-23912.8	-1.7498 ug/L	-1.7498 ppb	15:32:44
2	As 188.979†	-148.4	-161.5	14.740 ug/L	14.740 ppb	15:33:04
2	B 249.677†	1647.4	2060.1	-14.799 ug/L	-14.799 ppb	15:32:44
2	Ba 233.527†	-1245.5	-1482.1	-0.1902 ug/L	-0.1902 ppb	15:33:04
2	Be 313.107†	-9707.8	-7995.4	-3.5012 ug/L	-3.5012 ppb	15:32:44
2	Cd 226.502†	2815.3	3508.0	7.5622 ug/L	7.5622 ppb	15:33:04
2	Co 228.616†	206.9	290.9	1.0443 ug/L	1.0443 ppb	15:33:04
2	Cr 267.716†	-577.3	-756.0	2.4348 ug/L	2.4348 ppb	15:33:04
2	Cu 324.752†	1625.5	-4126.8	1.8835 ug/L	1.8835 ppb	15:32:44
2	Mn 257.610†	-17277.8	-21049.4	-4.0373 ug/L	-4.0373 ppb	15:32:44
2	Mo 202.031†	-383.6	-472.5	-0.2764 ug/L	-0.2764 ppb	15:33:04
2	Ni 231.604†	200.4	186.6	5.8771 ug/L	5.8771 ppb	15:33:04

2	P 214.914†	446.8	358.9	47.466 ug/L	47.466 ppb	15:33:04
2	Pb 220.353†	-387.1	-418.9	-3.8267 ug/L	-3.8267 ppb	15:33:04
2	S 181.975 Axial†	60.0	40.9	-26.856 ug/L	-26.856 ppb	15:33:04
2	Sb 206.836†	42.3	22.1	-12.246 ug/L	-12.246 ppb	15:33:04
2	Se 196.026†	-1646.6	-1949.7	-204.12 ug/L	-204.12 ppb	15:33:04
2	Si 251.611†	-463.6	-1006.7	-36.825 ug/L	-36.825 ppb	15:33:04
2	Sn 189.927†	-322.4	-393.3	-27.902 ug/L	-27.902 ppb	15:33:04
2	Ti 334.940†	-11796.5	-13145.2	-4.3798 ug/L	-4.3798 ppb	15:32:44
2	Tl 190.801†	-112.2	-103.1	-40.379 ug/L	-40.379 ppb	15:33:04
2	U 409.014†	436738.1	524225.5	15258 ug/L	15258 ppb	15:32:44
2	V 292.402†	2044.0	3690.8	2.2283 ug/L	2.2283 ppb	15:33:04
2	Zn 213.857†	4619.1	5020.7	-5.9359 ug/L	-5.9359 ppb	15:33:04
2	SiO2†	-424.3	-985.9	-76.332 ug/L	-76.332 ppb	15:33:41
3	Sc Radial	2962.5	2962.5	88.4 %		15:32:11
3	Y RADIAL	2437.0	2437.0	88.83 %		15:32:11
3	Al 396.153Radial†	215972.9	244312.0	525070 ug/L	525070 ppb	15:31:51
3	Ca 317.933Radial†	107656.8	121742.9	483150 ug/L	483150 ppb	15:31:51
3	Fe 238.204 Radial†	14125.2	15966.1	443780 ug/L	443780 ppb	15:32:11
3	K 766.490 Radial†	2272.0	455.0	-155.12 ug/L	-155.12 ppb	15:31:51
3	Mg 279.077 IEC†	4534.1	5127.3	497130 ug/L	497130 ppb	15:32:11
3	Na 589.592 Radial†	1369411.7	1549502.8	517470 ug/L	517470 ppb	15:31:51
3	Sr 421.552†	1159.5	1275.6	9.0415 ug/L	9.0415 ppb	15:32:11
3	Sc 361.383	702125.3	702125.3	84.113 %		15:33:10
3	Y 371.029	590473.9	590473.9	82.507 %		15:33:10
3	Ag 328.068†	-20001.9	-23939.0	-2.5893 ug/L	-2.5893 ppb	15:33:10
3	As 188.979†	-166.0	-181.4	3.0533 ug/L	3.0533 ppb	15:33:30
3	B 249.677†	1450.7	1814.9	-21.214 ug/L	-21.214 ppb	15:33:10
3	Ba 233.527†	-1320.6	-1562.8	-1.0282 ug/L	-1.0282 ppb	15:33:30
3	Be 313.107†	-9818.8	-8060.8	-3.5270 ug/L	-3.5270 ppb	15:33:10
3	Cd 226.502†	2805.0	3476.3	7.3818 ug/L	7.3818 ppb	15:33:30
3	Co 228.616†	201.7	283.4	0.8827 ug/L	0.8827 ppb	15:33:30
3	Cr 267.716†	-544.2	-712.8	2.9155 ug/L	2.9155 ppb	15:33:30
3	Cu 324.752†	1566.8	-4207.7	1.5176 ug/L	1.5176 ppb	15:33:10
3	Mn 257.610†	-17392.4	-21067.3	-4.1210 ug/L	-4.1210 ppb	15:33:10
3	Mo 202.031†	-398.3	-487.3	-1.8585 ug/L	-1.8585 ppb	15:33:30
3	Ni 231.604†	227.9	217.9	6.8641 ug/L	6.8641 ppb	15:33:30
3	P 214.914†	459.2	370.6	56.817 ug/L	56.817 ppb	15:33:30
3	Pb 220.353†	-415.8	-450.4	-10.057 ug/L	-10.057 ppb	15:33:30
3	S 181.975 Axial†	72.3	55.1	-0.1516 ug/L	-0.1516 ppb	15:33:30
3	Sb 206.836†	79.8	66.4	6.3709 ug/L	6.3709 ppb	15:33:30
3	Se 196.026†	-1654.6	-1947.9	-212.52 ug/L	-212.52 ppb	15:33:30
3	Si 251.611†	-408.3	-937.9	-34.257 ug/L	-34.257 ppb	15:33:30
3	Sn 189.927†	-313.1	-380.1	-26.007 ug/L	-26.007 ppb	15:33:30
3	Ti 334.940†	-11319.6	-12497.4	-3.7648 ug/L	-3.7648 ppb	15:33:10
3	Tl 190.801†	-100.8	-88.8	-34.837 ug/L	-34.837 ppb	15:33:30
3	U 409.014†	436969.7	521509.0	15179 ug/L	15179 ppb	15:33:10
3	V 292.402†	2167.9	3824.1	3.4056 ug/L	3.4056 ppb	15:33:30
3	Zn 213.857†	4613.5	4982.5	-5.9834 ug/L	-5.9834 ppb	15:33:30
3	SiO2†	-488.4	-1059.1	-82.048 ug/L	-82.048 ppb	15:33:46

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	700280.6	83.892 %	0.2434			0.29%
Sc Radial	2915.5	87.0 %	1.70			1.95%
Y 371.029	588809.2	82.274 %	0.2284			0.28%
Y RADIAL	2402.2	87.57 %	1.667			1.90%
Ag 328.068†	-23908.9	-0.0495 ug/L	3.69590	-0.0495 ppb	3.69590	>999.9%
Al 396.153Radial†	247080.5	531020 ug/L	5357.1	531020 ppb	5357.1	1.01%
QC value within limits for Al 396.153Radial Recovery = 106.20%						
As 188.979†	-172.8	9.7391 ug/L	6.02276	9.7391 ppb	6.02276	61.84%
B 249.677†	1978.4	-17.964 ug/L	3.2086	-17.964 ppb	3.2086	17.86%
Ba 233.527†	-1509.9	-0.2850 ug/L	0.70057	-0.2850 ppb	0.70057	245.78%
Be 313.107†	-8077.0	-3.5352 ug/L	0.03866	-3.5352 ppb	0.03866	1.09%
Ca 317.933Radial†	123503.1	490130 ug/L	6911.0	490130 ppb	6911.0	1.41%
QC value within limits for Ca 317.933Radial Recovery = 98.03%						
Cd 226.502†	3495.9	6.8286 ug/L	1.11801	6.8286 ppb	1.11801	16.37%
Co 228.616†	283.7	0.7740 ug/L	0.33795	0.7740 ppb	0.33795	43.66%
Cr 267.716†	-746.8	2.7813 ug/L	0.30262	2.7813 ppb	0.30262	10.88%
Cu 324.752†	-4213.3	1.8972 ug/L	0.38664	1.8972 ppb	0.38664	20.38%

Fe 238.204 Radial†	16261.6	452000 ug/L	11862.3	452000 ppb	11862.3	2.62%
QC value within limits for Fe 238.204 Radial Recovery = 90.40%						
K 766.490 Radial†	577.2	-102.95 ug/L	50.026	-102.95 ppb	50.026	48.59%
Mg 279.077 IEC†	5237.3	507790 ug/L	14103.8	507790 ppb	14103.8	2.78%
QC value within limits for Mg 279.077 IEC Recovery = 101.56%						
Mn 257.610†	-21041.9	-3.7132 ug/L	0.63522	-3.7132 ppb	0.63522	17.11%
Mo 202.031†	-483.1	-0.7742 ug/L	0.94003	-0.7742 ppb	0.94003	121.41%
Na 589.592 Radial†	1560558.4	521160 ug/L	3234.4	521160 ppb	3234.4	0.62%
QC value within limits for Na 589.592 Radial Recovery = 104.23%						
Ni 231.604†	204.7	6.4468 ug/L	0.51085	6.4468 ppb	0.51085	7.92%
P 214.914†	366.6	48.654 ug/L	7.6390	48.654 ppb	7.6390	15.70%
Pb 220.353†	-427.9	-6.3153 ug/L	3.29880	-6.3153 ppb	3.29880	52.24%
S 181.975 Axial†	44.6	-19.978 ug/L	17.4368	-19.978 ppb	17.4368	87.28%
Sb 206.836†	39.9	-4.8940 ug/L	9.90604	-4.8940 ppb	9.90604	202.41%
Se 196.026†	-1942.5	-183.79 ug/L	42.696	-183.79 ppb	42.696	23.23%
Si 251.611†	-971.6	-35.511 ug/L	1.2849	-35.511 ppb	1.2849	3.62%
Sn 189.927†	-393.0	-28.176 ug/L	2.3176	-28.176 ppb	2.3176	8.23%
Sr 421.552†	1285.6	9.0885 ug/L	0.21989	9.0885 ppb	0.21989	2.42%
Ti 334.940†	-12808.6	-4.2578 ug/L	0.44472	-4.2578 ppb	0.44472	10.44%
Tl 190.801†	-87.0	-34.131 ug/L	6.6295	-34.131 ppb	6.6295	19.42%
U 409.014†	523791.1	15244 ug/L	60.2	15244 ppb	60.2	0.39%
QC value within limits for U 409.014 Recovery = 101.63%						
V 292.402†	3751.2	1.9803 ug/L	1.56416	1.9803 ppb	1.56416	78.99%
Zn 213.857†	4978.3	-7.2599 ug/L	2.25215	-7.2599 ppb	2.25215	31.02%
SiO2†	-1053.8	-81.644 ug/L	5.1219	-81.644 ppb	5.1219	6.27%

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 3/9/2010 15:35:56

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	3214.4	3214.4	95.9 %		15:38:14
1	Y RADIAL	2614.4	2614.4	95.30 %		15:38:14
1	Al 396.153Radial†	152.4	218.9	-0.5677 ug/L	-0.5677 ppb	15:38:14
1	Ca 317.933Radial†	16.2	6.7	26.510 ug/L	26.510 ppb	15:38:14
1	Fe 238.204 Radial†	0.1	-8.5	60.623 ug/L	60.623 ppb	15:38:14
1	K 766.490 Radial†	662207.6	688121.5	314990 ug/L	314990 ppb	15:37:49
1	Mg 279.077 IEC†	0.0	-0.4	59.506 ug/L	59.506 ppb	15:38:14
1	Na 589.592 Radial†	55.0	840.0	280.51 ug/L	280.51 ppb	15:37:54
1	Sr 421.552†	985873.9	1027566.0	10189 ug/L	10189 ppb	15:37:49
1	Sc 361.383	803731.5	803731.5	96.285 %		15:39:31
1	Y 371.029	673678.0	673678.0	94.133 %		15:39:31
1	Ag 328.068†	-6915.6	-7341.5	4.2903 ug/L	4.2903 ppb	15:39:36
1	As 188.979†	17099.4	17775.2	9943.5 ug/L	9943.5 ppb	15:39:36
1	B 249.677†	176686.5	183594.5	5118.3 ug/L	5118.3 ppb	15:39:31
1	Ba 233.527†	1379597.6	1432839.0	13404 ug/L	13404 ppb	15:39:31
1	Be 313.107†	6465916.4	6719028.0	2922.1 ug/L	2922.1 ppb	15:39:24
1	Cd 226.502†	659596.6	685189.9	9911.1 ug/L	9911.1 ppb	15:39:31
1	Co 228.616†	367865.3	382103.6	9907.0 ug/L	9907.0 ppb	15:39:31
1	Cr 267.716†	1815544.1	1885534.4	24609 ug/L	24609 ppb	15:39:31
1	Cu 324.752†	6087239.8	6316056.5	20326 ug/L	20326 ppb	15:39:24
1	Mn 257.610†	6984095.3	7253199.5	9504.7 ug/L	9504.7 ppb	15:39:24
1	Mo 202.031†	108361.8	112529.3	9712.8 ug/L	9712.8 ppb	15:39:36
1	Ni 231.604†	309023.5	320894.7	10108 ug/L	10108 ppb	15:39:31
1	P 214.914†	23818.1	24561.8	14715 ug/L	14715 ppb	15:39:36
1	Pb 220.353†	152998.6	158946.3	24625 ug/L	24625 ppb	15:39:31
1	S 181.975 Axial†	28173.8	29230.1	52135 ug/L	52135 ppb	15:39:36
1	Sb 206.836†	24689.1	25613.3	10977 ug/L	10977 ppb	15:39:36
1	Se 196.026†	12016.4	12499.3	10199 ug/L	10199 ppb	15:39:36
1	Si 251.611†	1245456.1	1293061.8	47825 ug/L	47825 ppb	15:39:31
1	Sn 189.927†	43663.3	45340.3	10303 ug/L	10303 ppb	15:39:36
1	Ti 334.940†	5586443.8	5802967.1	9853.9 ug/L	9853.9 ppb	15:39:24
1	Tl 190.801†	24068.5	25028.2	9772.8 ug/L	9772.8 ppb	15:39:36
1	U 409.014†	-1123.2	836.6	-30.582 ug/L	-30.582 ppb	15:39:31
1	V 292.402†	1263821.0	1313834.5	10374 ug/L	10374 ppb	15:39:31
1	Zn 213.857†	1140059.3	1183548.1	14269 ug/L	14269 ppb	15:39:31
1	SiO2†	1232242.4	1279312.3	100230 ug/L	100230 ppb	15:40:23
2	Sc Radial	3183.8	3183.8	95.0 %		15:38:44
2	Y RADIAL	2587.0	2587.0	94.30 %		15:38:44
2	Al 396.153Radial†	147.8	215.6	-7.2209 ug/L	-7.2209 ppb	15:38:44
2	Ca 317.933Radial†	15.5	6.1	24.149 ug/L	24.149 ppb	15:38:44
2	Fe 238.204 Radial†	0.2	-8.4	62.356 ug/L	62.356 ppb	15:38:44
2	K 766.490 Radial†	674234.5	707397.1	323810 ug/L	323810 ppb	15:38:19
2	Mg 279.077 IEC†	-2.9	-3.5	-236.85 ug/L	-236.85 ppb	15:38:44
2	Na 589.592 Radial†	-5.0	777.3	259.59 ug/L	259.59 ppb	15:38:24
2	Sr 421.552†	1006972.5	1059623.2	10507 ug/L	10507 ppb	15:38:19
2	Sc 361.383	812547.5	812547.5	97.341 %		15:39:51
2	Y 371.029	680964.0	680964.0	95.151 %		15:39:51
2	Ag 328.068†	-6988.2	-7338.1	4.3442 ug/L	4.3442 ppb	15:39:56
2	As 188.979†	17295.9	17784.3	9947.8 ug/L	9947.8 ppb	15:39:56
2	B 249.677†	179362.5	184352.6	5139.6 ug/L	5139.6 ppb	15:39:51
2	Ba 233.527†	1394281.6	1432378.2	13400 ug/L	13400 ppb	15:39:51
2	Be 313.107†	6490475.7	6671397.2	2901.3 ug/L	2901.3 ppb	15:39:44
2	Cd 226.502†	666427.7	684775.0	9905.1 ug/L	9905.1 ppb	15:39:51
2	Co 228.616†	372042.6	382249.8	9911.0 ug/L	9911.0 ppb	15:39:51
2	Cr 267.716†	1835102.5	1885168.7	24604 ug/L	24604 ppb	15:39:51
2	Cu 324.752†	6105360.0	6266077.8	20165 ug/L	20165 ppb	15:39:44
2	Mn 257.610†	6992754.2	7183395.0	9413.2 ug/L	9413.2 ppb	15:39:44
2	Mo 202.031†	109423.4	112398.9	9701.5 ug/L	9701.5 ppb	15:39:56
2	Ni 231.604†	312431.4	320913.5	10109 ug/L	10109 ppb	15:39:51

2	P 214.914†	24048.0	24529.6	14722 ug/L	14722 ppb	15:39:56
2	Pb 220.353†	154556.3	158822.4	24606 ug/L	24606 ppb	15:39:51
2	S 181.975 Axial†	28398.4	29143.3	51980 ug/L	51980 ppb	15:39:56
2	Sb 206.836†	24899.2	25550.9	10951 ug/L	10951 ppb	15:39:56
2	Se 196.026†	12145.6	12496.6	10197 ug/L	10197 ppb	15:39:56
2	Si 251.611†	1262975.8	1297025.8	47972 ug/L	47972 ppb	15:39:51
2	Sn 189.927†	44023.0	45217.8	10275 ug/L	10275 ppb	15:39:56
2	Ti 334.940†	5595481.2	5749300.7	9762.7 ug/L	9762.7 ppb	15:39:44
2	Tl 190.801†	24312.1	25007.3	9763.4 ug/L	9763.4 ppb	15:39:56
2	U 409.014†	-875.8	1103.5	-22.778 ug/L	-22.778 ppb	15:39:51
2	V 292.402†	1278993.8	1315180.5	10384 ug/L	10384 ppb	15:39:51
2	Zn 213.857†	1151836.5	1182800.3	14260 ug/L	14260 ppb	15:39:51
2	SiO2†	1231290.6	1264449.0	99063 ug/L	99063 ppb	15:40:29
3	Sc Radial	3165.3	3165.3	94.5 %		15:39:15
3	Y RADIAL	2581.6	2581.6	94.11 %		15:39:15
3	Al 396.153Radial†	143.6	212.0	-20.020 ug/L	-20.020 ppb	15:39:15
3	Ca 317.933Radial†	15.6	6.3	25.000 ug/L	25.000 ppb	15:39:15
3	Fe 238.204 Radial†	-2.6	-11.4	-20.431 ug/L	-20.431 ppb	15:39:15
3	K 766.490 Radial†	661637.5	698207.4	319600 ug/L	319600 ppb	15:38:50
3	Mg 279.077 IEC†	-1.7	-2.3	-115.61 ug/L	-115.61 ppb	15:39:15
3	Na 589.592 Radial†	-20.1	761.3	254.25 ug/L	254.25 ppb	15:38:55
3	Sr 421.552†	986763.6	1044421.7	10357 ug/L	10357 ppb	15:38:50
3	Sc 361.383	798510.1	798510.1	95.659 %		15:40:11
3	Y 371.029	669615.5	669615.5	93.566 %		15:40:11
3	Ag 328.068†	-7018.1	-7495.7	3.5509 ug/L	3.5509 ppb	15:40:16
3	As 188.979†	17181.3	17976.9	10057 ug/L	10057 ppb	15:40:16
3	B 249.677†	175542.7	183598.7	5118.4 ug/L	5118.4 ppb	15:40:11
3	Ba 233.527†	1372132.7	1434404.6	13419 ug/L	13419 ppb	15:40:11
3	Be 313.107†	6520675.4	6820183.7	2966.1 ug/L	2966.1 ppb	15:40:04
3	Cd 226.502†	656721.1	686663.4	9932.5 ug/L	9932.5 ppb	15:40:11
3	Co 228.616†	365895.8	382543.0	9918.3 ug/L	9918.3 ppb	15:40:11
3	Cr 267.716†	1808105.6	1890088.2	24668 ug/L	24668 ppb	15:40:11
3	Cu 324.752†	6148555.0	6421494.3	20665 ug/L	20665 ppb	15:40:04
3	Mn 257.610†	7022471.9	7340748.6	9619.4 ug/L	9619.4 ppb	15:40:04
3	Mo 202.031†	108703.4	113622.4	9807.1 ug/L	9807.1 ppb	15:40:16
3	Ni 231.604†	307728.6	321639.7	10132 ug/L	10132 ppb	15:40:11
3	P 214.914†	23842.8	24749.3	14791 ug/L	14791 ppb	15:40:16
3	Pb 220.353†	152474.9	159437.8	24701 ug/L	24701 ppb	15:40:11
3	S 181.975 Axial†	28166.0	29413.2	52462 ug/L	52462 ppb	15:40:16
3	Sb 206.836†	24712.6	25805.5	11059 ug/L	11059 ppb	15:40:16
3	Se 196.026†	12031.0	12596.1	10278 ug/L	10278 ppb	15:40:16
3	Si 251.611†	1236678.2	1292343.9	47797 ug/L	47797 ppb	15:40:11
3	Sn 189.927†	43745.6	45722.8	10390 ug/L	10390 ppb	15:40:16
3	Ti 334.940†	5626952.4	5883253.0	9990.4 ug/L	9990.4 ppb	15:40:04
3	Tl 190.801†	24114.5	25239.8	9856.4 ug/L	9856.4 ppb	15:40:16
3	U 409.014†	-1179.0	770.6	-32.631 ug/L	-32.631 ppb	15:40:11
3	V 292.402†	1257517.2	1315827.6	10391 ug/L	10391 ppb	15:40:11
3	Zn 213.857†	1135227.7	1186239.7	14301 ug/L	14301 ppb	15:40:11
3	SiO2†	1251674.5	1307994.6	102480 ug/L	102480 ppb	15:40:35

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804929.7	96.428 %		0.8500			0.88%
Sc Radial	3187.8	95.1 %		0.74			0.78%
Y 371.029	674752.5	94.283 %		0.8035			0.85%
Y RADIAL	2594.3	94.57 %		0.641			0.68%
Ag 328.068†	-7391.8	4.0618 ug/L		0.44330	4.0618 ppb	0.44330	10.91%
Al 396.153Radial†	215.5	-9.2694 ug/L		9.88645	-9.2694 ppb	9.88645	106.66%
As 188.979†	17845.5	9982.6 ug/L		64.08	9982.6 ppb	64.08	0.64%
QC value within limits for As 188.979 Recovery = 99.83%							
B 249.677†	183848.6	5125.4 ug/L		12.24	5125.4 ppb	12.24	0.24%
QC value within limits for B 249.677 Recovery = 102.51%							
Ba 233.527†	1433207.3	13408 ug/L		9.9	13408 ppb	9.9	0.07%
QC value less than the lower limit for Ba 233.527 Recovery = 89.39%							
Be 313.107†	6736869.7	2929.8 ug/L		33.05	2929.8 ppb	33.05	1.13%
QC value within limits for Be 313.107 Recovery = 97.66%							
Ca 317.933Radial†	6.4	25.220 ug/L		1.1957	25.220 ppb	1.1957	4.74%
Cd 226.502†	685542.8	9916.2 ug/L		14.36	9916.2 ppb	14.36	0.14%
QC value within limits for Cd 226.502 Recovery = 99.16%							

Co 228.616†	382298.8	9912.1 ug/L	5.74	9912.1 ppb	5.74	0.06%
QC value within limits for Co 228.616 Recovery = 99.12%						
Cr 267.716†	1886930.4	24627 ug/L	35.8	24627 ppb	35.8	0.15%
QC value within limits for Cr 267.716 Recovery = 98.51%						
Cu 324.752†	6334542.8	20386 ug/L	255.3	20386 ppb	255.3	1.25%
QC value within limits for Cu 324.752 Recovery = 101.93%						
Fe 238.204 Radial†	-9.4	34.183 ug/L	47.3042	34.183 ppb	47.3042	138.39%
K 766.490 Radial†	697908.7	319470 ug/L	4413.5	319470 ppb	4413.5	1.38%
QC value within limits for K 766.490 Radial Recovery = 106.49%						
Mg 279.077 IEC†	-2.1	-97.650 ug/L	148.9913	-97.650 ppb	148.9913	152.58%
Mn 257.610†	7259114.4	9512.5 ug/L	103.31	9512.5 ppb	103.31	1.09%
QC value within limits for Mn 257.610 Recovery = 95.12%						
Mo 202.031†	112850.2	9740.5 ug/L	57.99	9740.5 ppb	57.99	0.60%
QC value within limits for Mo 202.031 Recovery = 97.40%						
Na 589.592 Radial†	792.9	264.78 ug/L	13.881	264.78 ppb	13.881	5.24%
Ni 231.604†	321149.3	10116 ug/L	13.4	10116 ppb	13.4	0.13%
QC value within limits for Ni 231.604 Recovery = 101.16%						
P 214.914†	24613.6	14743 ug/L	41.9	14743 ppb	41.9	0.28%
QC value within limits for P 214.914 Recovery = 98.28%						
Pb 220.353†	159068.8	24644 ug/L	50.4	24644 ppb	50.4	0.20%
QC value within limits for Pb 220.353 Recovery = 98.57%						
S 181.975 Axial†	29262.2	52193 ug/L	245.8	52193 ppb	245.8	0.47%
QC value within limits for S 181.975 Axial Recovery = 104.39%						
Sb 206.836†	25656.6	10996 ug/L	56.7	10996 ppb	56.7	0.52%
QC value within limits for Sb 206.836 Recovery = 109.96%						
Se 196.026†	12530.7	10225 ug/L	46.2	10225 ppb	46.2	0.45%
QC value within limits for Se 196.026 Recovery = 102.25%						
Si 251.611†	1294143.8	47865 ug/L	94.0	47865 ppb	94.0	0.20%
QC value within limits for Si 251.611 Recovery = 95.73%						
Sn 189.927†	45427.0	10323 ug/L	59.9	10323 ppb	59.9	0.58%
QC value within limits for Sn 189.927 Recovery = 103.23%						
Sr 421.552†	1043870.3	10351 ug/L	159.0	10351 ppb	159.0	1.54%
QC value within limits for Sr 421.552 Recovery = 103.51%						
Ti 334.940†	5811840.3	9869.0 ug/L	114.57	9869.0 ppb	114.57	1.16%
QC value within limits for Ti 334.940 Recovery = 98.69%						
Tl 190.801†	25091.8	9797.6 ug/L	51.21	9797.6 ppb	51.21	0.52%
QC value within limits for Tl 190.801 Recovery = 97.98%						
U 409.014†	903.6	-28.663 ug/L	5.1992	-28.663 ppb	5.1992	18.14%
V 292.402†	1314947.6	10383 ug/L	8.5	10383 ppb	8.5	0.08%
QC value within limits for V 292.402 Recovery = 103.83%						
Zn 213.857†	1184196.0	14276 ug/L	21.5	14276 ppb	21.5	0.15%
QC value within limits for Zn 213.857 Recovery = 95.18%						
SiO2†	1283918.6	100590 ug/L	1737.3	100590 ppb	1737.3	1.73%
QC value within limits for SiO2 Recovery = 94.01%						
QC Failed. Continue with analysis.						

Sequence No.: 13
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/9/2010 15:42:45
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3375.6	3375.6	101 %		15:44:57
1	Y RADIAL	2762.6	2762.6	100.7 %		15:44:57
1	Al 396.153Radial†	2343.1	2385.6	5103.2 ug/L	5103.2 ppb	15:44:37
1	Ca 317.933Radial†	1288.0	1268.1	5032.7 ug/L	5032.7 ppb	15:44:57
1	Fe 238.204 Radial†	198.8	188.7	5260.3 ug/L	5260.3 ppb	15:44:57
1	K 766.490 Radial†	13919.5	11701.0	5349.7 ug/L	5349.7 ppb	15:44:37
1	Mg 279.077 IEC†	56.5	55.6	5399.0 ug/L	5399.0 ppb	15:44:57
1	Na 589.592 Radial†	32003.5	32546.9	10869 ug/L	10869 ppb	15:44:37
1	Sr 421.552†	55188.1	54740.0	542.77 ug/L	542.77 ppb	15:44:37
1	Sc 361.383	868390.5	868390.5	104.03 %		15:45:54
1	Y 371.029	733834.6	733834.6	102.54 %		15:45:54
1	Ag 328.068†	101128.3	97051.1	493.46 ug/L	493.46 ppb	15:45:59
1	As 188.979†	940.0	919.5	515.39 ug/L	515.39 ppb	15:46:19
1	B 249.677†	19308.9	18651.0	520.55 ug/L	520.55 ppb	15:45:59
1	Ba 233.527†	54587.3	52479.5	491.37 ug/L	491.37 ppb	15:45:59
1	Be 313.107†	1189670.8	1147189.8	496.18 ug/L	496.18 ppb	15:45:54
1	Cd 226.502†	35331.8	34104.4	492.87 ug/L	492.87 ppb	15:45:59
1	Co 228.616†	20095.6	19360.6	502.18 ug/L	502.18 ppb	15:45:59
1	Cr 267.716†	39112.2	37531.1	490.25 ug/L	490.25 ppb	15:45:59
1	Cu 324.752†	164068.9	151641.6	488.01 ug/L	488.01 ppb	15:45:59
1	Mn 257.610†	392509.3	376912.0	494.21 ug/L	494.21 ppb	15:45:54
1	Mo 202.031†	5916.1	5673.1	490.13 ug/L	490.13 ppb	15:46:19
1	Ni 231.604†	16549.3	15855.1	499.43 ug/L	499.43 ppb	15:45:59
1	P 214.914†	3529.7	3217.6	2348.5 ug/L	2348.5 ppb	15:46:19
1	Pb 220.353†	3305.5	3221.3	500.20 ug/L	500.20 ppb	15:46:19
1	S 181.975 Axial†	614.4	559.8	997.48 ug/L	997.48 ppb	15:46:19
1	Sb 206.836†	1290.0	1211.6	519.73 ug/L	519.73 ppb	15:46:19
1	Se 196.026†	617.2	612.5	515.79 ug/L	515.79 ppb	15:46:19
1	Si 251.611†	69684.7	66532.4	2460.9 ug/L	2460.9 ppb	15:45:59
1	Sn 189.927†	2264.8	2169.3	493.52 ug/L	493.52 ppb	15:46:19
1	Ti 334.940†	293088.7	282693.3	480.31 ug/L	480.31 ppb	15:45:59
1	Tl 190.801†	1291.6	1272.7	496.88 ug/L	496.88 ppb	15:46:19
1	U 409.014†	15786.1	17177.7	499.94 ug/L	499.94 ppb	15:45:59
1	V 292.402†	63950.2	62719.2	496.13 ug/L	496.13 ppb	15:45:59
1	Zn 213.857†	43059.7	40888.9	491.50 ug/L	491.50 ppb	15:45:59
1	SiO2†	70290.1	67088.2	5256.7 ug/L	5256.7 ppb	15:47:27
2	Sc Radial	3352.3	3352.3	100 %		15:45:22
2	Y RADIAL	2751.9	2751.9	100.3 %		15:45:22
2	Al 396.153Radial†	2326.6	2385.3	5102.2 ug/L	5102.2 ppb	15:45:02
2	Ca 317.933Radial†	1279.5	1268.6	5034.5 ug/L	5034.5 ppb	15:45:22
2	Fe 238.204 Radial†	195.1	186.3	5194.4 ug/L	5194.4 ppb	15:45:22
2	K 766.490 Radial†	13698.4	11576.1	5292.5 ug/L	5292.5 ppb	15:45:02
2	Mg 279.077 IEC†	54.7	54.2	5262.7 ug/L	5262.7 ppb	15:45:22
2	Na 589.592 Radial†	31558.7	32323.2	10795 ug/L	10795 ppb	15:45:02
2	Sr 421.552†	54455.3	54388.3	539.28 ug/L	539.28 ppb	15:45:02
2	Sc 361.383	856086.5	856086.5	102.56 %		15:46:25
2	Y 371.029	723771.5	723771.5	101.13 %		15:46:25
2	Ag 328.068†	101156.1	98475.3	500.66 ug/L	500.66 ppb	15:46:30
2	As 188.979†	945.8	938.2	525.79 ug/L	525.79 ppb	15:46:50
2	B 249.677†	19168.9	18781.3	524.19 ug/L	524.19 ppb	15:46:30
2	Ba 233.527†	54729.9	53372.7	499.72 ug/L	499.72 ppb	15:46:30
2	Be 313.107†	1177652.1	1151906.7	498.23 ug/L	498.23 ppb	15:46:25
2	Cd 226.502†	35299.6	34561.2	499.48 ug/L	499.48 ppb	15:46:30
2	Co 228.616†	20071.4	19614.6	508.77 ug/L	508.77 ppb	15:46:30
2	Cr 267.716†	39189.5	38146.8	498.29 ug/L	498.29 ppb	15:46:30
2	Cu 324.752†	164087.8	153926.8	495.36 ug/L	495.36 ppb	15:46:30
2	Mn 257.610†	388168.9	378102.5	495.77 ug/L	495.77 ppb	15:46:25
2	Mo 202.031†	5918.4	5757.1	497.38 ug/L	497.38 ppb	15:46:50
2	Ni 231.604†	16582.6	16116.2	507.66 ug/L	507.66 ppb	15:46:30

2	P 214.914†	3544.4	3280.6	2395.1 ug/L	2395.1 ppb	15:46:50
2	Pb 220.353†	3292.3	3254.1	505.30 ug/L	505.30 ppb	15:46:50
2	S 181.975 Axial†	605.9	559.9	997.77 ug/L	997.77 ppb	15:46:50
2	Sb 206.836†	1291.3	1230.7	527.91 ug/L	527.91 ppb	15:46:50
2	Se 196.026†	612.4	616.4	518.75 ug/L	518.75 ppb	15:46:50
2	Si 251.611†	69462.9	67278.9	2488.5 ug/L	2488.5 ppb	15:46:30
2	Sn 189.927†	2269.7	2205.3	501.72 ug/L	501.72 ppb	15:46:50
2	Ti 334.940†	293263.7	286913.1	487.48 ug/L	487.48 ppb	15:46:30
2	Tl 190.801†	1282.6	1281.7	500.42 ug/L	500.42 ppb	15:46:50
2	U 409.014†	15866.3	17474.0	508.58 ug/L	508.58 ppb	15:46:30
2	V 292.402†	63953.0	63605.5	503.16 ug/L	503.16 ppb	15:46:30
2	Zn 213.857†	43041.8	41466.4	498.45 ug/L	498.45 ppb	15:46:30
2	SiO2†	69536.3	67324.3	5275.1 ug/L	5275.1 ppb	15:47:32
3	Sc Radial	3358.6	3358.6	100 %		15:45:47
3	Y RADIAL	2737.0	2737.0	99.77 %		15:45:47
3	Al 396.153Radial†	2333.3	2387.6	5107.3 ug/L	5107.3 ppb	15:45:27
3	Ca 317.933Radial†	1284.4	1271.1	5044.5 ug/L	5044.5 ppb	15:45:47
3	Fe 238.204 Radial†	196.8	187.7	5233.0 ug/L	5233.0 ppb	15:45:47
3	K 766.490 Radial†	13845.5	11697.5	5348.0 ug/L	5348.0 ppb	15:45:27
3	Mg 279.077 IEC†	53.1	52.5	5092.6 ug/L	5092.6 ppb	15:45:47
3	Na 589.592 Radial†	31848.5	32553.6	10871 ug/L	10871 ppb	15:45:27
3	Sr 421.552†	55031.3	54861.8	543.97 ug/L	543.97 ppb	15:45:27
3	Sc 361.383	848325.7	848325.7	101.63 %		15:46:56
3	Y 371.029	718766.6	718766.6	100.43 %		15:46:56
3	Ag 328.068†	100228.2	98464.6	500.62 ug/L	500.62 ppb	15:47:01
3	As 188.979†	934.1	935.1	524.10 ug/L	524.10 ppb	15:47:21
3	B 249.677†	18891.2	18679.0	521.32 ug/L	521.32 ppb	15:47:01
3	Ba 233.527†	54082.6	53224.0	498.34 ug/L	498.34 ppb	15:47:01
3	Be 313.107†	1171713.0	1156567.7	500.24 ug/L	500.24 ppb	15:46:56
3	Cd 226.502†	34959.1	34541.0	499.18 ug/L	499.18 ppb	15:47:01
3	Co 228.616†	19834.2	19560.2	507.36 ug/L	507.36 ppb	15:47:01
3	Cr 267.716†	38926.6	38237.7	499.48 ug/L	499.48 ppb	15:47:01
3	Cu 324.752†	162357.2	153687.6	494.59 ug/L	494.59 ppb	15:47:01
3	Mn 257.610†	385143.9	378588.5	496.42 ug/L	496.42 ppb	15:46:56
3	Mo 202.031†	5863.6	5756.0	497.28 ug/L	497.28 ppb	15:47:21
3	Ni 231.604†	16380.4	16065.2	506.05 ug/L	506.05 ppb	15:47:01
3	P 214.914†	3509.5	3278.0	2393.2 ug/L	2393.2 ppb	15:47:21
3	Pb 220.353†	3280.6	3272.0	508.07 ug/L	508.07 ppb	15:47:21
3	S 181.975 Axial†	607.1	566.5	1009.5 ug/L	1009.5 ppb	15:47:21
3	Sb 206.836†	1282.3	1233.3	528.96 ug/L	528.96 ppb	15:47:21
3	Se 196.026†	602.5	612.0	515.34 ug/L	515.34 ppb	15:47:21
3	Si 251.611†	68752.7	67199.7	2485.5 ug/L	2485.5 ppb	15:47:01
3	Sn 189.927†	2237.6	2193.9	499.13 ug/L	499.13 ppb	15:47:21
3	Ti 334.940†	290248.9	286562.6	486.90 ug/L	486.90 ppb	15:47:01
3	Tl 190.801†	1270.5	1281.2	500.23 ug/L	500.23 ppb	15:47:21
3	U 409.014†	15653.8	17406.3	506.60 ug/L	506.60 ppb	15:47:01
3	V 292.402†	63488.6	63718.9	504.04 ug/L	504.04 ppb	15:47:01
3	Zn 213.857†	42530.8	41347.5	497.01 ug/L	497.01 ppb	15:47:01
3	SiO2†	69109.7	67524.8	5290.8 ug/L	5290.8 ppb	15:47:37

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	857600.9	102.74 %	1.212			1.18%
Sc Radial	3362.2	100 %	0.4			0.36%
Y 371.029	725457.6	101.37 %	1.072			1.06%
Y RADIAL	2750.5	100.3 %	0.47			0.47%
Ag 328.068†	97997.0	498.25 ug/L	4.144	498.25 ppb	4.144	0.83%
QC value within limits for Ag 328.068 Recovery = 99.65%						
Al 396.153Radial†	2386.2	5104.3 ug/L	2.69	5104.3 ppb	2.69	0.05%
QC value within limits for Al 396.153Radial Recovery = 102.09%						
As 188.979†	931.0	521.76 ug/L	5.579	521.76 ppb	5.579	1.07%
QC value within limits for As 188.979 Recovery = 104.35%						
B 249.677†	18703.7	522.02 ug/L	1.920	522.02 ppb	1.920	0.37%
QC value within limits for B 249.677 Recovery = 104.40%						
Ba 233.527†	53025.4	496.47 ug/L	4.478	496.47 ppb	4.478	0.90%
QC value within limits for Ba 233.527 Recovery = 99.29%						
Be 313.107†	1151888.1	498.22 ug/L	2.031	498.22 ppb	2.031	0.41%
QC value within limits for Be 313.107 Recovery = 99.64%						
Ca 317.933Radial†	1269.3	5037.2 ug/L	6.36	5037.2 ppb	6.36	0.13%

QC value within limits for Ca 317.933 Radial Recovery = 100.74%

Cd 226.502†	34402.2	497.18 ug/L	3.737	497.18 ppb	3.737	0.75%
QC value within limits for Cd 226.502 Recovery = 99.44%						
Co 228.616†	19511.8	506.10 ug/L	3.471	506.10 ppb	3.471	0.69%
QC value within limits for Co 228.616 Recovery = 101.22%						
Cr 267.716†	37971.9	496.01 ug/L	5.017	496.01 ppb	5.017	1.01%
QC value within limits for Cr 267.716 Recovery = 99.20%						
Cu 324.752†	153085.3	492.65 ug/L	4.038	492.65 ppb	4.038	0.82%
QC value within limits for Cu 324.752 Recovery = 98.53%						
Fe 238.204 Radial†	187.6	5229.2 ug/L	33.12	5229.2 ppb	33.12	0.63%
QC value within limits for Fe 238.204 Radial Recovery = 104.58%						
K 766.490 Radial†	11658.2	5330.1 ug/L	32.55	5330.1 ppb	32.55	0.61%
QC value within limits for K 766.490 Radial Recovery = 106.60%						
Mg 279.077 IEC†	54.1	5251.4 ug/L	153.49	5251.4 ppb	153.49	2.92%
QC value within limits for Mg 279.077 IEC Recovery = 105.03%						
Mn 257.610†	377867.6	495.46 ug/L	1.134	495.46 ppb	1.134	0.23%
QC value within limits for Mn 257.610 Recovery = 99.09%						
Mo 202.031†	5728.7	494.93 ug/L	4.158	494.93 ppb	4.158	0.84%
QC value within limits for Mo 202.031 Recovery = 98.99%						
Na 589.592 Radial†	32474.6	10845 ug/L	43.8	10845 ppb	43.8	0.40%
QC value within limits for Na 589.592 Radial Recovery = 108.45%						
Ni 231.604†	16012.1	504.38 ug/L	4.359	504.38 ppb	4.359	0.86%
QC value within limits for Ni 231.604 Recovery = 100.88%						
P 214.914†	3258.7	2378.9 ug/L	26.34	2378.9 ppb	26.34	1.11%
QC value within limits for P 214.914 Recovery = 95.16%						
Pb 220.353†	3249.2	504.53 ug/L	3.993	504.53 ppb	3.993	0.79%
QC value within limits for Pb 220.353 Recovery = 100.91%						
S 181.975 Axial†	562.1	1001.6 ug/L	6.87	1001.6 ppb	6.87	0.69%
QC value within limits for S 181.975 Axial Recovery = 100.16%						
Sb 206.836†	1225.2	525.53 ug/L	5.057	525.53 ppb	5.057	0.96%
QC value within limits for Sb 206.836 Recovery = 105.11%						
Se 196.026†	613.7	516.63 ug/L	1.852	516.63 ppb	1.852	0.36%
QC value within limits for Se 196.026 Recovery = 103.33%						
Si 251.611†	67003.6	2478.3 ug/L	15.15	2478.3 ppb	15.15	0.61%
QC value within limits for Si 251.611 Recovery = 99.13%						
Sn 189.927†	2189.5	498.12 ug/L	4.190	498.12 ppb	4.190	0.84%
QC value within limits for Sn 189.927 Recovery = 99.62%						
Sr 421.552†	54663.4	542.01 ug/L	2.438	542.01 ppb	2.438	0.45%
QC value within limits for Sr 421.552 Recovery = 108.40%						
Ti 334.940†	285389.7	484.90 ug/L	3.987	484.90 ppb	3.987	0.82%
QC value within limits for Ti 334.940 Recovery = 96.98%						
Tl 190.801†	1278.5	499.17 ug/L	1.991	499.17 ppb	1.991	0.40%
QC value within limits for Tl 190.801 Recovery = 99.83%						
U 409.014†	17352.6	505.04 ug/L	4.527	505.04 ppb	4.527	0.90%
QC value within limits for U 409.014 Recovery = 101.01%						
V 292.402†	63347.9	501.11 ug/L	4.335	501.11 ppb	4.335	0.87%
QC value within limits for V 292.402 Recovery = 100.22%						
Zn 213.857†	41234.3	495.65 ug/L	3.671	495.65 ppb	3.671	0.74%
QC value within limits for Zn 213.857 Recovery = 99.13%						
SiO2†	67312.4	5274.2 ug/L	17.07	5274.2 ppb	17.07	0.32%
QC value within limits for SiO2 Recovery = 98.63%						

All analyte(s) passed QC.

Sequence No.: 14
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/9/2010 15:49:47
 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	3353.9	3353.9	100 %		15:52:00
1	Y RADIAL	2748.3	2748.3	100.2 %		15:52:00
1	Al 396.153Radial†	-58.3	1.8	3.8130 ug/L	3.8130 ppb	15:52:00
1	Ca 317.933Radial†	9.7	-0.5	-2.0464 ug/L	-2.0464 ppb	15:52:00
1	Fe 238.204 Radial†	7.4	-1.2	-34.725 ug/L	-34.725 ppb	15:52:00
1	K 766.490 Radial†	2483.6	366.5	167.77 ug/L	167.77 ppb	15:51:40
1	Mg 279.077 IEC†	2.4	1.9	184.74 ug/L	184.74 ppb	15:52:00
1	Na 589.592 Radial†	-614.7	168.6	56.293 ug/L	56.293 ppb	15:51:40
1	Sr 421.552†	53.8	18.0	0.1787 ug/L	0.1787 ppb	15:51:40
1	Sc 361.383	835258.0	835258.0	100.06 %		15:52:57
1	Y 371.029	716457.5	716457.5	100.11 %		15:52:57
1	Ag 328.068†	214.5	55.3	0.2664 ug/L	0.2664 ppb	15:52:57
1	As 188.979†	-3.8	12.2	6.7567 ug/L	6.7567 ppb	15:53:17
1	B 249.677†	539.5	629.3	17.647 ug/L	17.647 ppb	15:53:17
1	Ba 233.527†	16.0	23.2	0.2160 ug/L	0.2160 ppb	15:53:17
1	Be 313.107†	-3553.8	60.9	0.0261 ug/L	0.0261 ppb	15:52:57
1	Cd 226.502†	-116.8	24.8	0.3631 ug/L	0.3631 ppb	15:53:17
1	Co 228.616†	-33.1	10.5	0.2745 ug/L	0.2745 ppb	15:53:17
1	Cr 267.716†	87.3	21.6	0.2786 ug/L	0.2786 ppb	15:53:17
1	Cu 324.752†	6291.5	217.2	0.6951 ug/L	0.6951 ppb	15:52:57
1	Mn 257.610†	429.2	39.2	0.0404 ug/L	0.0404 ppb	15:53:17
1	Mo 202.031†	21.1	7.3	0.6290 ug/L	0.6290 ppb	15:53:17
1	Ni 231.604†	64.9	11.9	0.3743 ug/L	0.3743 ppb	15:53:17
1	P 214.914†	177.5	2.0	1.4142 ug/L	1.4142 ppb	15:53:17
1	Pb 220.353†	-1.5	42.4	6.5696 ug/L	6.5696 ppb	15:53:17
1	S 181.975 Axial†	32.0	1.2	2.0938 ug/L	2.0938 ppb	15:53:17
1	Sb 206.836†	45.9	17.4	7.2521 ug/L	7.2521 ppb	15:53:17
1	Se 196.026†	-14.7	4.5	3.6008 ug/L	3.6008 ppb	15:53:17
1	Si 251.611†	567.6	114.8	4.2487 ug/L	4.2487 ppb	15:53:17
1	Sn 189.927†	13.6	5.8	1.3191 ug/L	1.3191 ppb	15:53:17
1	Ti 334.940†	-1013.7	-52.9	-0.1068 ug/L	-0.1068 ppb	15:52:57
1	Tl 190.801†	-22.3	8.8	3.4164 ug/L	3.4164 ppb	15:53:17
1	U 409.014†	-1883.2	121.1	3.5412 ug/L	3.5412 ppb	15:52:57
1	V 292.402†	-1227.0	20.6	0.1848 ug/L	0.1848 ppb	15:52:57
1	Zn 213.857†	631.6	128.7	1.5638 ug/L	1.5638 ppb	15:53:17
1	SiO2†	563.4	84.6	6.6257 ug/L	6.6257 ppb	15:54:28
2	Sc Radial	3326.0	3326.0	99.3 %		15:52:25
2	Y RADIAL	2734.8	2734.8	99.69 %		15:52:25
2	Al 396.153Radial†	-66.0	-6.5	-13.877 ug/L	-13.877 ppb	15:52:25
2	Ca 317.933Radial†	9.1	-1.0	-4.0082 ug/L	-4.0082 ppb	15:52:25
2	Fe 238.204 Radial†	9.6	1.0	28.609 ug/L	28.609 ppb	15:52:25
2	K 766.490 Radial†	2642.6	547.5	250.63 ug/L	250.63 ppb	15:52:05
2	Mg 279.077 IEC†	2.3	1.9	183.35 ug/L	183.35 ppb	15:52:25
2	Na 589.592 Radial†	-656.3	121.5	40.588 ug/L	40.588 ppb	15:52:05
2	Sr 421.552†	39.5	4.1	0.0411 ug/L	0.0411 ppb	15:52:05
2	Sc 361.383	845119.1	845119.1	101.24 %		15:53:22
2	Y 371.029	724572.4	724572.4	101.24 %		15:53:22
2	Ag 328.068†	170.5	9.4	0.0585 ug/L	0.0585 ppb	15:53:22
2	As 188.979†	-1.8	14.1	7.8695 ug/L	7.8695 ppb	15:53:43
2	B 249.677†	484.1	568.3	15.926 ug/L	15.926 ppb	15:53:43
2	Ba 233.527†	11.4	18.5	0.1750 ug/L	0.1750 ppb	15:53:43
2	Be 313.107†	-3622.0	35.0	0.0157 ug/L	0.0157 ppb	15:53:22
2	Cd 226.502†	-104.7	38.2	0.5492 ug/L	0.5492 ppb	15:53:43
2	Co 228.616†	-42.5	1.6	0.0401 ug/L	0.0401 ppb	15:53:43
2	Cr 267.716†	77.5	10.8	0.1431 ug/L	0.1431 ppb	15:53:43
2	Cu 324.752†	6298.5	150.7	0.4859 ug/L	0.4859 ppb	15:53:22
2	Mn 257.610†	410.4	15.7	0.0159 ug/L	0.0159 ppb	15:53:43
2	Mo 202.031†	12.8	-1.1	-0.0945 ug/L	-0.0945 ppb	15:53:43
2	Ni 231.604†	68.6	14.8	0.4656 ug/L	0.4656 ppb	15:53:43

2	P 214.914†	172.7	-4.8	-3.7871 ug/L	-3.7871 ppb	15:53:43
2	Pb 220.353†	-7.5	36.5	5.6474 ug/L	5.6474 ppb	15:53:43
2	S 181.975 Axial†	28.3	-2.9	-5.1127 ug/L	-5.1127 ppb	15:53:43
2	Sb 206.836†	34.4	5.5	2.3224 ug/L	2.3224 ppb	15:53:43
2	Se 196.026†	-13.9	5.5	4.5344 ug/L	4.5344 ppb	15:53:43
2	Si 251.611†	572.2	112.8	4.1842 ug/L	4.1842 ppb	15:53:43
2	Sn 189.927†	16.2	8.1	1.8471 ug/L	1.8471 ppb	15:53:43
2	Ti 334.940†	-819.2	151.1	0.2408 ug/L	0.2408 ppb	15:53:22
2	Tl 190.801†	-19.0	12.3	4.7822 ug/L	4.7822 ppb	15:53:43
2	U 409.014†	-1986.9	40.6	1.1821 ug/L	1.1821 ppb	15:53:22
2	V 292.402†	-1160.8	100.2	0.7818 ug/L	0.7818 ppb	15:53:22
2	Zn 213.857†	629.8	119.6	1.4434 ug/L	1.4434 ppb	15:53:43
2	SiO2†	549.3	64.0	5.0340 ug/L	5.0340 ppb	15:54:48
3	Sc Radial	3342.2	3342.2	99.8 %		15:52:51
3	Y RADIAL	2740.7	2740.7	99.91 %		15:52:51
3	Al 396.153Radial†	-67.2	-7.3	-15.725 ug/L	-15.725 ppb	15:52:51
3	Ca 317.933Radial†	10.0	-0.2	-0.7903 ug/L	-0.7903 ppb	15:52:51
3	Fe 238.204 Radial†	8.8	0.2	4.9301 ug/L	4.9301 ppb	15:52:51
3	K 766.490 Radial†	2461.6	353.2	161.68 ug/L	161.68 ppb	15:52:30
3	Mg 279.077 IEC†	4.2	3.7	363.58 ug/L	363.58 ppb	15:52:51
3	Na 589.592 Radial†	-660.1	120.9	40.383 ug/L	40.383 ppb	15:52:30
3	Sr 421.552†	23.6	-12.0	-0.1194 ug/L	-0.1194 ppb	15:52:30
3	Sc 361.383	833180.6	833180.6	99.813 %		15:53:48
3	Y 371.029	715023.5	715023.5	99.910 %		15:53:48
3	Ag 328.068†	153.9	-4.9	-0.0221 ug/L	-0.0221 ppb	15:53:48
3	As 188.979†	3.0	18.9	10.526 ug/L	10.526 ppb	15:54:08
3	B 249.677†	453.7	544.7	15.270 ug/L	15.270 ppb	15:54:08
3	Ba 233.527†	8.4	15.6	0.1447 ug/L	0.1447 ppb	15:54:08
3	Be 313.107†	-3562.3	43.6	0.0188 ug/L	0.0188 ppb	15:53:48
3	Cd 226.502†	-113.7	27.7	0.3989 ug/L	0.3989 ppb	15:54:08
3	Co 228.616†	-53.7	-10.3	-0.2649 ug/L	-0.2649 ppb	15:54:08
3	Cr 267.716†	87.5	22.0	0.2875 ug/L	0.2875 ppb	15:54:08
3	Cu 324.752†	6270.5	211.8	0.6837 ug/L	0.6837 ppb	15:53:48
3	Mn 257.610†	394.2	5.2	-0.0075 ug/L	-0.0075 ppb	15:54:08
3	Mo 202.031†	22.1	8.4	0.7256 ug/L	0.7256 ppb	15:54:08
3	Ni 231.604†	66.0	13.1	0.4142 ug/L	0.4142 ppb	15:54:08
3	P 214.914†	178.7	3.7	2.6585 ug/L	2.6585 ppb	15:54:08
3	Pb 220.353†	-28.4	15.5	2.3930 ug/L	2.3930 ppb	15:54:08
3	S 181.975 Axial†	29.4	-1.4	-2.4542 ug/L	-2.4542 ppb	15:54:08
3	Sb 206.836†	41.4	13.0	5.4299 ug/L	5.4299 ppb	15:54:08
3	Se 196.026†	-12.1	7.1	5.8045 ug/L	5.8045 ppb	15:54:08
3	Si 251.611†	546.1	94.7	3.5023 ug/L	3.5023 ppb	15:54:08
3	Sn 189.927†	15.7	7.9	1.7924 ug/L	1.7924 ppb	15:54:08
3	Ti 334.940†	-966.0	-7.6	-0.0414 ug/L	-0.0414 ppb	15:53:48
3	Tl 190.801†	-19.1	12.0	4.6411 ug/L	4.6411 ppb	15:54:08
3	U 409.014†	-2112.0	-112.8	-3.2960 ug/L	-3.2960 ppb	15:53:48
3	V 292.402†	-1289.5	-45.1	-0.3422 ug/L	-0.3422 ppb	15:53:48
3	Zn 213.857†	627.8	126.5	1.5306 ug/L	1.5306 ppb	15:54:08
3	SiO2†	569.7	92.3	7.2278 ug/L	7.2278 ppb	15:55:08

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	837852.6	100.37 %		0.764			0.76%
Sc Radial	3340.7	99.7 %		0.42			0.42%
Y 371.029	718684.5	100.42 %		0.720			0.72%
Y RADIAL	2741.3	99.93 %		0.247			0.25%
Ag 328.068†	19.9	0.1009 ug/L		0.14885	0.1009 ppb	0.14885	147.48%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-4.0	-8.5965 ug/L		10.78666	-8.5965 ppb	10.78666	125.48%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	15.1	8.3840 ug/L		1.93653	8.3840 ppb	1.93653	23.10%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	580.8	16.281 ug/L		1.2273	16.281 ppb	1.2273	7.54%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	19.1	0.1786 ug/L		0.03577	0.1786 ppb	0.03577	20.03%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	46.5	0.0202 ug/L		0.00534	0.0202 ppb	0.00534	26.45%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-0.6	-2.2816 ug/L		1.62182	-2.2816 ppb	1.62182	71.08%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	30.2	0.4371 ug/L	0.09872	0.4371 ppb	0.09872	22.59%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.6	0.0166 ug/L	0.27045	0.0166 ppb	0.27045	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	18.1	0.2364 ug/L	0.08091	0.2364 ppb	0.08091	34.22%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	193.2	0.6216 ug/L	0.11766	0.6216 ppb	0.11766	18.93%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.0	-0.3953 ug/L	32.00075	-0.3953 ppb	32.00075	>999.9%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	422.4	193.36 ug/L	49.691	193.36 ppb	49.691	25.70%
QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	2.5	243.89 ug/L	103.661	243.89 ppb	103.661	42.50%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	20.0	0.0163 ug/L	0.02396	0.0163 ppb	0.02396	147.39%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.9	0.4200 ug/L	0.44820	0.4200 ppb	0.44820	106.71%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	137.0	45.754 ug/L	9.1275	45.754 ppb	9.1275	19.95%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	13.3	0.4180 ug/L	0.04580	0.4180 ppb	0.04580	10.96%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	0.3	0.0952 ug/L	3.41928	0.0952 ppb	3.41928	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	31.5	4.8700 ug/L	2.19414	4.8700 ppb	2.19414	45.05%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-1.0	-1.8244 ug/L	3.64430	-1.8244 ppb	3.64430	199.76%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	12.0	5.0014 ug/L	2.49264	5.0014 ppb	2.49264	49.84%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.7	4.6465 ug/L	1.10611	4.6465 ppb	1.10611	23.80%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	107.4	3.9784 ug/L	0.41354	3.9784 ppb	0.41354	10.39%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	7.3	1.6529 ug/L	0.29033	1.6529 ppb	0.29033	17.57%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	3.4	0.0335 ug/L	0.14921	0.0335 ppb	0.14921	445.72%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	30.2	0.0309 ug/L	0.18473	0.0309 ppb	0.18473	598.67%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	11.0	4.2799 ug/L	0.75115	4.2799 ppb	0.75115	17.55%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	16.3	0.4758 ug/L	3.47287	0.4758 ppb	3.47287	729.92%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	25.2	0.2081 ug/L	0.56235	0.2081 ppb	0.56235	270.21%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	124.9	1.5126 ug/L	0.06217	1.5126 ppb	0.06217	4.11%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	80.3	6.2958 ug/L	1.13349	6.2958 ppb	1.13349	18.00%
QC value within limits for SiO2 Recovery = Not calculated						
QC Failed. Continue with analysis.						

=====
Analysis Begun

Start Time: 3/9/2010 15:58:00

Plasma On Time: 3/8/2010 08:27:38

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\030910.sif

Batch ID:

Results Data Set: 030910

Results Library: C:\pe\Optima3\Results\Results.mdb
=====

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/9/2010 13:45:02

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: 7

Sample ID: CCV

Date Collected: 3/9/2010 15:58:02

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	3325.2	3325.2	99.2 %		16:00:14
1	Y RADIAL	2694.6	2694.6	98.23 %		16:00:14
1	Al 396.153Radial†	2245.1	2322.2	4966.7 ug/L	4966.7 ppb	15:59:54

1	Ca 317.933Radial†	1282.4	1281.9	5087.5 ug/L	5087.5 ppb	16:00:14
1	Fe 238.204 Radial†	191.0	183.9	5125.6 ug/L	5125.6 ppb	16:00:14
1	K 766.490 Radial†	13182.2	11167.7	5105.9 ug/L	5105.9 ppb	15:59:54
1	Mg 279.077 IEC†	54.5	54.5	5284.6 ug/L	5284.6 ppb	16:00:14
1	Na 589.592 Radial†	28835.4	29836.6	9964.1 ug/L	9964.1 ppb	15:59:54
1	Sr 421.552†	51199.7	51552.2	511.16 ug/L	511.16 ppb	15:59:54
1	Sc 361.383	858212.2	858212.2	102.81 %		16:01:11
1	Y 371.029	726119.0	726119.0	101.46 %		16:01:11
1	Ag 328.068†	101948.8	99002.0	503.31 ug/L	503.31 ppb	16:01:16
1	As 188.979†	920.0	910.8	510.61 ug/L	510.61 ppb	16:01:36
1	B 249.677†	18570.7	18153.1	506.58 ug/L	506.58 ppb	16:01:16
1	Ba 233.527†	55106.1	53606.4	501.91 ug/L	501.91 ppb	16:01:16
1	Be 313.107†	1190987.1	1162032.9	502.61 ug/L	502.61 ppb	16:01:11
1	Cd 226.502†	35631.9	34799.1	502.93 ug/L	502.93 ppb	16:01:16
1	Co 228.616†	20285.8	19774.7	512.91 ug/L	512.91 ppb	16:01:16
1	Cr 267.716†	39506.3	38360.3	501.07 ug/L	501.07 ppb	16:01:16
1	Cu 324.752†	165521.6	154925.1	498.56 ug/L	498.56 ppb	16:01:16
1	Mn 257.610†	391735.8	380634.4	499.08 ug/L	499.08 ppb	16:01:11
1	Mo 202.031†	5900.6	5725.5	494.65 ug/L	494.65 ppb	16:01:36
1	Ni 231.604†	16698.4	16188.8	509.94 ug/L	509.94 ppb	16:01:16
1	P 214.914†	3537.3	3265.1	2382.7 ug/L	2382.7 ppb	16:01:36
1	Pb 220.353†	3264.4	3219.0	499.84 ug/L	499.84 ppb	16:01:36
1	S 181.975 Axial†	604.6	557.2	992.87 ug/L	992.87 ppb	16:01:36
1	Sb 206.836†	1260.7	1197.7	514.14 ug/L	514.14 ppb	16:01:36
1	Se 196.026†	618.7	621.0	522.26 ug/L	522.26 ppb	16:01:36
1	Si 251.611†	70093.4	67724.3	2505.0 ug/L	2505.0 ppb	16:01:16
1	Sn 189.927†	2254.4	2184.9	497.10 ug/L	497.10 ppb	16:01:36
1	Ti 334.940†	295887.5	288756.9	490.62 ug/L	490.62 ppb	16:01:16
1	Tl 190.801†	1283.7	1279.6	499.63 ug/L	499.63 ppb	16:01:36
1	U 409.014†	16092.7	17655.8	513.89 ug/L	513.89 ppb	16:01:16
1	V 292.402†	64673.4	64151.7	507.41 ug/L	507.41 ppb	16:01:16
1	Zn 213.857†	43220.3	41536.1	499.29 ug/L	499.29 ppb	16:01:16
1	SiO2†	68180.7	65837.9	5158.4 ug/L	5158.4 ppb	16:02:44
2	Sc Radial	3324.3	3324.3	99.2 %		16:00:39
2	Y RADIAL	2711.1	2711.1	98.83 %		16:00:39
2	Al 396.153Radial†	2229.0	2306.6	4933.1 ug/L	4933.1 ppb	16:00:19
2	Ca 317.933Radial†	1282.4	1282.2	5088.7 ug/L	5088.7 ppb	16:00:39
2	Fe 238.204 Radial†	189.2	182.0	5074.0 ug/L	5074.0 ppb	16:00:39
2	K 766.490 Radial†	13233.6	11223.1	5131.3 ug/L	5131.3 ppb	16:00:19
2	Mg 279.077 IEC†	52.0	52.0	5046.3 ug/L	5046.3 ppb	16:00:39
2	Na 589.592 Radial†	28835.3	29844.4	9966.7 ug/L	9966.7 ppb	16:00:19
2	Sr 421.552†	51143.3	51509.3	510.73 ug/L	510.73 ppb	16:00:19
2	Sc 361.383	854867.8	854867.8	102.41 %		16:01:42
2	Y 371.029	722931.9	722931.9	101.02 %		16:01:42
2	Ag 328.068†	100082.6	97567.6	496.02 ug/L	496.02 ppb	16:01:47
2	As 188.979†	907.2	901.8	505.52 ug/L	505.52 ppb	16:02:07
2	B 249.677†	18152.1	17815.0	497.14 ug/L	497.14 ppb	16:01:47
2	Ba 233.527†	54278.9	53008.4	496.30 ug/L	496.30 ppb	16:01:47
2	Be 313.107†	1174916.8	1150872.7	497.77 ug/L	497.77 ppb	16:01:42
2	Cd 226.502†	34999.3	34317.0	495.96 ug/L	495.96 ppb	16:01:47
2	Co 228.616†	19867.5	19443.4	504.34 ug/L	504.34 ppb	16:01:47
2	Cr 267.716†	38851.8	37871.5	494.69 ug/L	494.69 ppb	16:01:47
2	Cu 324.752†	161934.4	152052.1	489.32 ug/L	489.32 ppb	16:01:47
2	Mn 257.610†	387528.7	378016.9	495.65 ug/L	495.65 ppb	16:01:42
2	Mo 202.031†	5901.9	5749.2	496.69 ug/L	496.69 ppb	16:02:07
2	Ni 231.604†	16365.5	15927.2	501.71 ug/L	501.71 ppb	16:01:47
2	P 214.914†	3524.8	3266.4	2385.5 ug/L	2385.5 ppb	16:02:07
2	Pb 220.353†	3271.3	3238.3	502.83 ug/L	502.83 ppb	16:02:07
2	S 181.975 Axial†	597.7	552.8	985.02 ug/L	985.02 ppb	16:02:07
2	Sb 206.836†	1272.4	1213.9	520.88 ug/L	520.88 ppb	16:02:07
2	Se 196.026†	615.9	620.6	521.83 ug/L	521.83 ppb	16:02:07
2	Si 251.611†	68903.9	66829.5	2471.8 ug/L	2471.8 ppb	16:01:47
2	Sn 189.927†	2242.7	2182.1	496.46 ug/L	496.46 ppb	16:02:07
2	Ti 334.940†	289907.1	284043.2	482.64 ug/L	482.64 ppb	16:01:47
2	Tl 190.801†	1299.4	1299.8	507.44 ug/L	507.44 ppb	16:02:07
2	U 409.014†	15497.4	17135.8	498.72 ug/L	498.72 ppb	16:01:47
2	V 292.402†	63185.4	62944.9	498.00 ug/L	498.00 ppb	16:01:47
2	Zn 213.857†	42454.0	40952.2	492.27 ug/L	492.27 ppb	16:01:47
2	SiO2†	68793.7	66695.9	5225.7 ug/L	5225.7 ppb	16:02:49
3	Sc Radial	3289.0	3289.0	98.2 %		16:01:04
3	Y RADIAL	2686.7	2686.7	97.94 %		16:01:04

3	Al 396.153Radial†	2230.4	2332.1	4988.1 ug/L	4988.1 ppb	16:00:44
3	Ca 317.933Radial†	1279.9	1293.5	5133.5 ug/L	5133.5 ppb	16:01:04
3	Fe 238.204 Radial†	191.3	186.2	5190.6 ug/L	5190.6 ppb	16:01:04
3	K 766.490 Radial†	13197.5	11329.5	5179.9 ug/L	5179.9 ppb	16:00:44
3	Mg 279.077 IEC†	54.7	55.2	5361.2 ug/L	5361.2 ppb	16:01:04
3	Na 589.592 Radial†	28577.0	29893.1	9983.0 ug/L	9983.0 ppb	16:00:44
3	Sr 421.552†	51035.9	51953.0	515.13 ug/L	515.13 ppb	16:00:44
3	Sc 361.383	859614.4	859614.4	102.98 %		16:02:13
3	Y 371.029	726563.6	726563.6	101.52 %		16:02:13
3	Ag 328.068†	100502.5	97435.8	495.39 ug/L	495.39 ppb	16:02:18
3	As 188.979†	909.7	899.4	504.18 ug/L	504.18 ppb	16:02:38
3	B 249.677†	18248.1	17810.4	496.99 ug/L	496.99 ppb	16:02:18
3	Ba 233.527†	54421.0	52853.7	494.87 ug/L	494.87 ppb	16:02:18
3	Be 313.107†	1181594.1	1151022.0	497.84 ug/L	497.84 ppb	16:02:13
3	Cd 226.502†	35129.6	34254.8	495.05 ug/L	495.05 ppb	16:02:18
3	Co 228.616†	19912.9	19380.3	502.69 ug/L	502.69 ppb	16:02:18
3	Cr 267.716†	38949.0	37756.4	493.19 ug/L	493.19 ppb	16:02:18
3	Cu 324.752†	162621.9	151846.6	488.66 ug/L	488.66 ppb	16:02:18
3	Mn 257.610†	389708.8	378044.5	495.69 ug/L	495.69 ppb	16:02:13
3	Mo 202.031†	5871.6	5688.0	491.41 ug/L	491.41 ppb	16:02:38
3	Ni 231.604†	16447.5	15918.6	501.44 ug/L	501.44 ppb	16:02:18
3	P 214.914†	3508.1	3231.2	2358.8 ug/L	2358.8 ppb	16:02:38
3	Pb 220.353†	3280.6	3229.7	501.48 ug/L	501.48 ppb	16:02:38
3	S 181.975 Axial†	600.0	551.8	983.20 ug/L	983.20 ppb	16:02:38
3	Sb 206.836†	1251.0	1186.4	509.30 ug/L	509.30 ppb	16:02:38
3	Se 196.026†	607.5	609.2	512.83 ug/L	512.83 ppb	16:02:38
3	Si 251.611†	69056.3	66606.0	2463.6 ug/L	2463.6 ppb	16:02:18
3	Sn 189.927†	2240.7	2168.0	493.26 ug/L	493.26 ppb	16:02:38
3	Ti 334.940†	291507.1	284033.8	482.60 ug/L	482.60 ppb	16:02:18
3	Tl 190.801†	1292.6	1286.3	502.17 ug/L	502.17 ppb	16:02:38
3	U 409.014†	15742.9	17290.6	503.23 ug/L	503.23 ppb	16:02:18
3	V 292.402†	63707.3	63110.9	499.22 ug/L	499.22 ppb	16:02:18
3	Zn 213.857†	42591.2	40856.5	491.10 ug/L	491.10 ppb	16:02:18
3	SiO2†	68606.8	66143.5	5182.5 ug/L	5182.5 ppb	16:02:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	857564.8	102.73 %	0.292			0.28%
Sc Radial	3312.8	98.9 %	0.62			0.62%
Y 371.029	725204.8	101.33 %	0.277			0.27%
Y RADIAL	2697.5	98.33 %	0.452			0.46%
Ag 328.068†	98001.8	498.24 ug/L	4.401	498.24 ppb	4.401	0.88%
QC value within limits for Ag 328.068 Recovery = 99.65%						
Al 396.153Radial†	2320.3	4962.7 ug/L	27.72	4962.7 ppb	27.72	0.56%
QC value within limits for Al 396.153Radial Recovery = 99.25%						
As 188.979†	904.0	506.77 ug/L	3.389	506.77 ppb	3.389	0.67%
QC value within limits for As 188.979 Recovery = 101.35%						
B 249.677†	17926.2	500.23 ug/L	5.495	500.23 ppb	5.495	1.10%
QC value within limits for B 249.677 Recovery = 100.05%						
Ba 233.527†	53156.2	497.69 ug/L	3.723	497.69 ppb	3.723	0.75%
QC value within limits for Ba 233.527 Recovery = 99.54%						
Be 313.107†	1154642.6	499.41 ug/L	2.773	499.41 ppb	2.773	0.56%
QC value within limits for Be 313.107 Recovery = 99.88%						
Ca 317.933Radial†	1285.9	5103.2 ug/L	26.24	5103.2 ppb	26.24	0.51%
QC value within limits for Ca 317.933Radial Recovery = 102.06%						
Cd 226.502†	34457.0	497.98 ug/L	4.312	497.98 ppb	4.312	0.87%
QC value within limits for Cd 226.502 Recovery = 99.60%						
Co 228.616†	19532.8	506.65 ug/L	5.486	506.65 ppb	5.486	1.08%
QC value within limits for Co 228.616 Recovery = 101.33%						
Cr 267.716†	37996.1	496.32 ug/L	4.185	496.32 ppb	4.185	0.84%
QC value within limits for Cr 267.716 Recovery = 99.26%						
Cu 324.752†	152941.3	492.18 ug/L	5.534	492.18 ppb	5.534	1.12%
QC value within limits for Cu 324.752 Recovery = 98.44%						
Fe 238.204 Radial†	184.0	5130.1 ug/L	58.43	5130.1 ppb	58.43	1.14%
QC value within limits for Fe 238.204 Radial Recovery = 102.60%						
K 766.490 Radial†	11240.1	5139.0 ug/L	37.63	5139.0 ppb	37.63	0.73%
QC value within limits for K 766.490 Radial Recovery = 102.78%						
Mg 279.077 IEC†	53.9	5230.7 ug/L	164.23	5230.7 ppb	164.23	3.14%
QC value within limits for Mg 279.077 IEC Recovery = 104.61%						

Mn 257.610†	378898.6	496.81 ug/L	1.968	496.81 ppb	1.968	0.40%
QC value within limits for Mn 257.610 Recovery = 99.36%						
Mo 202.031†	5720.9	494.25 ug/L	2.660	494.25 ppb	2.660	0.54%
QC value within limits for Mo 202.031 Recovery = 98.85%						
Na 589.592 Radial†	29858.1	9971.3 ug/L	10.23	9971.3 ppb	10.23	0.10%
QC value within limits for Na 589.592 Radial Recovery = 99.71%						
Ni 231.604†	16011.6	504.36 ug/L	4.836	504.36 ppb	4.836	0.96%
QC value within limits for Ni 231.604 Recovery = 100.87%						
P 214.914†	3254.3	2375.7 ug/L	14.68	2375.7 ppb	14.68	0.62%
QC value within limits for P 214.914 Recovery = 95.03%						
Pb 220.353†	3229.0	501.38 ug/L	1.496	501.38 ppb	1.496	0.30%
QC value within limits for Pb 220.353 Recovery = 100.28%						
S 181.975 Axial†	553.9	987.03 ug/L	5.138	987.03 ppb	5.138	0.52%
QC value within limits for S 181.975 Axial Recovery = 98.70%						
Sb 206.836†	1199.3	514.77 ug/L	5.819	514.77 ppb	5.819	1.13%
QC value within limits for Sb 206.836 Recovery = 102.95%						
Se 196.026†	616.9	518.97 ug/L	5.321	518.97 ppb	5.321	1.03%
QC value within limits for Se 196.026 Recovery = 103.79%						
Si 251.611†	67053.3	2480.1 ug/L	21.93	2480.1 ppb	21.93	0.88%
QC value within limits for Si 251.611 Recovery = 99.21%						
Sn 189.927†	2178.3	495.61 ug/L	2.057	495.61 ppb	2.057	0.42%
QC value within limits for Sn 189.927 Recovery = 99.12%						
Sr 421.552†	51671.5	512.34 ug/L	2.427	512.34 ppb	2.427	0.47%
QC value within limits for Sr 421.552 Recovery = 102.47%						
Ti 334.940†	285611.3	485.28 ug/L	4.620	485.28 ppb	4.620	0.95%
QC value within limits for Ti 334.940 Recovery = 97.06%						
Tl 190.801†	1288.6	503.08 ug/L	3.983	503.08 ppb	3.983	0.79%
QC value within limits for Tl 190.801 Recovery = 100.62%						
U 409.014†	17360.7	505.28 ug/L	7.788	505.28 ppb	7.788	1.54%
QC value within limits for U 409.014 Recovery = 101.06%						
V 292.402†	63402.5	501.54 ug/L	5.116	501.54 ppb	5.116	1.02%
QC value within limits for V 292.402 Recovery = 100.31%						
Zn 213.857†	41114.9	494.22 ug/L	4.427	494.22 ppb	4.427	0.90%
QC value within limits for Zn 213.857 Recovery = 98.84%						
SiO2†	66225.7	5188.8 ug/L	34.12	5188.8 ppb	34.12	0.66%
QC value within limits for SiO2 Recovery = 97.03%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 16:05:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3264.1	3264.1	97.4 %		16:07:18
1	Y RADIAL	2660.8	2660.8	96.99 %		16:07:18
1	Al 396.153Radial†	-59.8	-1.4	-2.9653 ug/L	-2.9653 ppb	16:07:18
1	Ca 317.933Radial†	10.2	0.3	1.0213 ug/L	1.0213 ppb	16:07:18
1	Fe 238.204 Radial†	6.8	-1.7	-47.227 ug/L	-47.227 ppb	16:07:18
1	K 766.490 Radial†	2374.6	323.0	147.84 ug/L	147.84 ppb	16:06:58
1	Mg 279.077 IEC†	2.2	1.8	177.92 ug/L	177.92 ppb	16:07:18
1	Na 589.592 Radial†	-690.1	74.2	24.784 ug/L	24.784 ppb	16:06:58
1	Sr 421.552†	23.1	-12.0	-0.1189 ug/L	-0.1189 ppb	16:06:58
1	Sc 361.383	850398.4	850398.4	101.88 %		16:08:14
1	Y 371.029	729756.6	729756.6	101.97 %		16:08:14
1	Ag 328.068†	238.2	74.8	0.3632 ug/L	0.3632 ppb	16:08:14
1	As 188.979†	-18.7	-2.3	-1.3145 ug/L	-1.3145 ppb	16:08:34
1	B 249.677†	151.1	238.6	6.6958 ug/L	6.6958 ppb	16:08:34
1	Ba 233.527†	16.2	23.1	0.2146 ug/L	0.2146 ppb	16:08:34
1	Be 313.107†	-3561.9	116.2	0.0503 ug/L	0.0503 ppb	16:08:14
1	Cd 226.502†	-124.6	19.2	0.2830 ug/L	0.2830 ppb	16:08:34
1	Co 228.616†	-50.2	-5.8	-0.1485 ug/L	-0.1485 ppb	16:08:34
1	Cr 267.716†	64.2	-2.7	-0.0377 ug/L	-0.0377 ppb	16:08:34
1	Cu 324.752†	6129.3	-54.0	-0.1766 ug/L	-0.1766 ppb	16:08:14
1	Mn 257.610†	387.8	-9.0	-0.0238 ug/L	-0.0238 ppb	16:08:34
1	Mo 202.031†	14.4	0.3	0.0255 ug/L	0.0255 ppb	16:08:34
1	Ni 231.604†	58.0	3.9	0.1230 ug/L	0.1230 ppb	16:08:34
1	P 214.914†	186.1	7.3	5.6444 ug/L	5.6444 ppb	16:08:34
1	Pb 220.353†	-19.6	24.7	3.8309 ug/L	3.8309 ppb	16:08:34
1	S 181.975 Axial†	29.1	-2.3	-4.0862 ug/L	-4.0862 ppb	16:08:34
1	Sb 206.836†	26.6	-2.4	-0.9818 ug/L	-0.9818 ppb	16:08:34
1	Se 196.026†	-10.4	9.0	7.1715 ug/L	7.1715 ppb	16:08:34
1	Si 251.611†	498.1	36.6	1.3554 ug/L	1.3554 ppb	16:08:34
1	Sn 189.927†	11.9	3.9	0.8827 ug/L	0.8827 ppb	16:08:34
1	Ti 334.940†	-923.0	54.2	0.0774 ug/L	0.0774 ppb	16:08:14
1	Tl 190.801†	-20.0	11.5	4.4478 ug/L	4.4478 ppb	16:08:34
1	U 409.014†	-2010.6	29.6	0.8685 ug/L	0.8685 ppb	16:08:14
1	V 292.402†	-1242.5	27.1	0.2241 ug/L	0.2241 ppb	16:08:14
1	Zn 213.857†	554.1	41.4	0.5094 ug/L	0.5094 ppb	16:08:34
1	SiO2†	511.3	23.4	1.8352 ug/L	1.8352 ppb	16:09:45
2	Sc Radial	3343.3	3343.3	99.8 %		16:07:43
2	Y RADIAL	2727.0	2727.0	99.41 %		16:07:43
2	Al 396.153Radial†	-70.0	-10.1	-21.656 ug/L	-21.656 ppb	16:07:43
2	Ca 317.933Radial†	12.9	2.7	10.579 ug/L	10.579 ppb	16:07:43
2	Fe 238.204 Radial†	7.2	-1.4	-38.039 ug/L	-38.039 ppb	16:07:43
2	K 766.490 Radial†	2206.3	96.5	44.184 ug/L	44.184 ppb	16:07:23
2	Mg 279.077 IEC†	3.8	3.3	321.61 ug/L	321.61 ppb	16:07:43
2	Na 589.592 Radial†	-714.8	66.3	22.144 ug/L	22.144 ppb	16:07:23
2	Sr 421.552†	24.1	-11.5	-0.1140 ug/L	-0.1140 ppb	16:07:23
2	Sc 361.383	861039.0	861039.0	103.15 %		16:08:40
2	Y 371.029	737584.5	737584.5	103.06 %		16:08:40
2	Ag 328.068†	186.5	21.7	0.1015 ug/L	0.1015 ppb	16:08:40
2	As 188.979†	-9.8	6.5	3.5912 ug/L	3.5912 ppb	16:09:00
2	B 249.677†	133.7	219.8	6.1677 ug/L	6.1677 ppb	16:09:00
2	Ba 233.527†	8.8	15.7	0.1463 ug/L	0.1463 ppb	16:09:00
2	Be 313.107†	-3561.5	159.8	0.0693 ug/L	0.0693 ppb	16:08:40
2	Cd 226.502†	-131.7	13.9	0.2044 ug/L	0.2044 ppb	16:09:00
2	Co 228.616†	-38.0	6.7	0.1732 ug/L	0.1732 ppb	16:09:00
2	Cr 267.716†	96.8	28.1	0.3666 ug/L	0.3666 ppb	16:09:00
2	Cu 324.752†	6172.9	-86.0	-0.2774 ug/L	-0.2774 ppb	16:08:40
2	Mn 257.610†	397.3	-4.5	-0.0229 ug/L	-0.0229 ppb	16:09:00
2	Mo 202.031†	12.4	-1.8	-0.1573 ug/L	-0.1573 ppb	16:09:00
2	Ni 231.604†	69.1	14.0	0.4408 ug/L	0.4408 ppb	16:09:00

2	P 214.914†	184.2	3.1	2.4793 ug/L	2.4793 ppb	16:09:00
2	Pb 220.353†	-15.6	28.8	4.4656 ug/L	4.4656 ppb	16:09:00
2	S 181.975 Axial†	29.2	-2.6	-4.5916 ug/L	-4.5916 ppb	16:09:00
2	Sb 206.836†	30.3	0.9	0.4096 ug/L	0.4096 ppb	16:09:00
2	Se 196.026†	-23.4	-3.5	-2.9358 ug/L	-2.9358 ppb	16:09:00
2	Si 251.611†	488.5	21.2	0.7873 ug/L	0.7873 ppb	16:09:00
2	Sn 189.927†	13.6	5.4	1.2226 ug/L	1.2226 ppb	16:09:00
2	Ti 334.940†	-896.2	91.4	0.1316 ug/L	0.1316 ppb	16:08:40
2	Tl 190.801†	-22.2	9.6	3.7195 ug/L	3.7195 ppb	16:09:00
2	U 409.014†	-2162.0	-92.8	-2.7064 ug/L	-2.7064 ppb	16:08:40
2	V 292.402†	-1237.8	46.8	0.3690 ug/L	0.3690 ppb	16:08:40
2	Zn 213.857†	531.9	13.2	0.1634 ug/L	0.1634 ppb	16:09:00
2	SiO2†	507.5	13.6	1.0704 ug/L	1.0704 ppb	16:10:05
3	Sc Radial	3364.4	3364.4	100 %		16:08:08
3	Y RADIAL	2761.6	2761.6	100.7 %		16:08:08
3	Al 396.153Radial†	-67.4	-7.1	-15.201 ug/L	-15.201 ppb	16:08:08
3	Ca 317.933Radial†	7.9	-2.3	-9.2193 ug/L	-9.2193 ppb	16:08:08
3	Fe 238.204 Radial†	10.8	2.1	57.676 ug/L	57.676 ppb	16:08:08
3	K 766.490 Radial†	2214.4	90.8	41.551 ug/L	41.551 ppb	16:07:48
3	Mg 279.077 IEC†	1.2	0.8	73.476 ug/L	73.476 ppb	16:08:08
3	Na 589.592 Radial†	-760.2	25.6	8.5516 ug/L	8.5516 ppb	16:07:48
3	Sr 421.552†	-5.2	-40.8	-0.4049 ug/L	-0.4049 ppb	16:07:48
3	Sc 361.383	853367.8	853367.8	102.23 %		16:09:05
3	Y 371.029	731719.9	731719.9	102.24 %		16:09:05
3	Ag 328.068†	229.7	65.6	0.3493 ug/L	0.3493 ppb	16:09:05
3	As 188.979†	-16.6	-0.3	-0.1519 ug/L	-0.1519 ppb	16:09:25
3	B 249.677†	141.5	228.7	6.4005 ug/L	6.4005 ppb	16:09:25
3	Ba 233.527†	4.7	11.8	0.1127 ug/L	0.1127 ppb	16:09:25
3	Be 313.107†	-3541.5	148.3	0.0641 ug/L	0.0641 ppb	16:09:05
3	Cd 226.502†	-129.9	14.5	0.2043 ug/L	0.2043 ppb	16:09:25
3	Co 228.616†	-47.5	-2.9	-0.0775 ug/L	-0.0775 ppb	16:09:25
3	Cr 267.716†	68.7	1.4	0.0210 ug/L	0.0210 ppb	16:09:25
3	Cu 324.752†	6080.1	-123.1	-0.3942 ug/L	-0.3942 ppb	16:09:05
3	Mn 257.610†	382.2	-15.8	-0.0181 ug/L	-0.0181 ppb	16:09:25
3	Mo 202.031†	12.7	-1.3	-0.1102 ug/L	-0.1102 ppb	16:09:25
3	Ni 231.604†	67.0	12.5	0.3928 ug/L	0.3928 ppb	16:09:25
3	P 214.914†	173.7	-5.5	-4.1265 ug/L	-4.1265 ppb	16:09:25
3	Pb 220.353†	-19.9	24.5	3.7750 ug/L	3.7750 ppb	16:09:25
3	S 181.975 Axial†	33.8	2.2	3.8977 ug/L	3.8977 ppb	16:09:25
3	Sb 206.836†	33.0	3.8	1.6115 ug/L	1.6115 ppb	16:09:25
3	Se 196.026†	-16.6	3.0	2.5678 ug/L	2.5678 ppb	16:09:25
3	Si 251.611†	498.5	35.3	1.3087 ug/L	1.3087 ppb	16:09:25
3	Sn 189.927†	13.1	5.0	1.1251 ug/L	1.1251 ppb	16:09:25
3	Ti 334.940†	-951.8	29.2	0.0414 ug/L	0.0414 ppb	16:09:05
3	Tl 190.801†	-23.0	8.6	3.3382 ug/L	3.3382 ppb	16:09:25
3	U 409.014†	-1971.7	74.5	2.1693 ug/L	2.1693 ppb	16:09:05
3	V 292.402†	-1215.5	57.8	0.4465 ug/L	0.4465 ppb	16:09:05
3	Zn 213.857†	539.8	25.6	0.2997 ug/L	0.2997 ppb	16:09:25
3	SiO2†	496.1	6.8	0.5393 ug/L	0.5393 ppb	16:10:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854935.0	102.42 %		0.658			0.64%
Sc Radial	3323.9	99.2 %		1.58			1.59%
Y 371.029	733020.4	102.43 %		0.569			0.56%
Y RADIAL	2716.5	99.02 %		1.867			1.89%
Ag 328.068†	54.0	0.2713 ug/L		0.14726	0.2713 ppb	0.14726	54.27%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-6.2	-13.274 ug/L		9.4930	-13.274 ppb	9.4930	71.52%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.3	0.7083 ug/L		2.56350	0.7083 ppb	2.56350	361.94%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	229.0	6.4214 ug/L		0.26470	6.4214 ppb	0.26470	4.12%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	16.9	0.1579 ug/L		0.05191	0.1579 ppb	0.05191	32.88%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	141.4	0.0613 ug/L		0.00980	0.0613 ppb	0.00980	16.00%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	0.2	0.7937 ug/L		9.90121	0.7937 ppb	9.90121	>999.9%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	15.9	0.2306 ug/L	0.04540	0.2306 ppb	0.04540	19.69%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	-0.7	-0.0176 ug/L	0.16899	-0.0176 ppb	0.16899	960.84%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	8.9	0.1166 ug/L	0.21848	0.1166 ppb	0.21848	187.33%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-87.7	-0.2827 ug/L	0.10890	-0.2827 ppb	0.10890	38.52%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-0.3	-9.1969 ug/L	58.09527	-9.1969 ppb	58.09527	631.69%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	170.1	77.859 ug/L	60.6224	77.859 ppb	60.6224	77.86%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	2.0	191.00 ug/L	124.585	191.00 ppb	124.585	65.23%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	-9.8	-0.0216 ug/L	0.00307	-0.0216 ppb	0.00307	14.23%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-0.9	-0.0806 ug/L	0.09493	-0.0806 ppb	0.09493	117.71%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	55.4	18.493 ug/L	8.7104	18.493 ppb	8.7104	47.10%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	10.1	0.3189 ug/L	0.17132	0.3189 ppb	0.17132	53.73%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	1.7	1.3324 ug/L	4.98541	1.3324 ppb	4.98541	374.17%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	26.0	4.0239 ug/L	0.38360	4.0239 ppb	0.38360	9.53%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.9	-1.5934 ug/L	4.76211	-1.5934 ppb	4.76211	298.87%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	0.8	0.3464 ug/L	1.29779	0.3464 ppb	1.29779	374.63%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	2.8	2.2678 ug/L	5.06032	2.2678 ppb	5.06032	223.14%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	31.0	1.1505 ug/L	0.31537	1.1505 ppb	0.31537	27.41%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	4.7	1.0768 ug/L	0.17501	1.0768 ppb	0.17501	16.25%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-21.4	-0.2126 ug/L	0.16654	-0.2126 ppb	0.16654	78.34%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	58.3	0.0835 ug/L	0.04540	0.0835 ppb	0.04540	54.40%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	9.9	3.8352 ug/L	0.56377	3.8352 ppb	0.56377	14.70%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	3.8	0.1105 ug/L	2.52471	0.1105 ppb	2.52471	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	43.9	0.3465 ug/L	0.11288	0.3465 ppb	0.11288	32.58%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	26.7	0.3242 ug/L	0.17427	0.3242 ppb	0.17427	53.76%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		14.6	1.1483 ug/L	0.65144	1.1483 ppb	0.65144	56.73%
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: LR2

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 3/9/2010 16:12:36

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	3315.5	3315.5	99.0 %		16:14:49
1	Y RADIAL	2724.7	2724.7	99.32 %		16:14:49
1	Al 396.153Radial†	-53.6	5.9	12.613 ug/L	12.613 ppb	16:14:49
1	Ca 317.933Radial†	15.6	5.6	22.030 ug/L	22.030 ppb	16:14:49
1	Fe 238.204 Radial†	6.3	-2.3	-64.081 ug/L	-64.081 ppb	16:14:49
1	K 766.490 Radial†	2183.1	91.7	41.964 ug/L	41.964 ppb	16:14:29
1	Mg 279.077 IEC†	3.0	2.6	250.47 ug/L	250.47 ppb	16:14:49
1	Na 589.592 Radial†	-739.1	35.7	11.925 ug/L	11.925 ppb	16:14:29
1	Sr 421.552†	29.2	-6.1	-0.0611 ug/L	-0.0611 ppb	16:14:29
1	Sc 361.383	848627.4	848627.4	101.66 %		16:15:46
1	Y 371.029	727337.9	727337.9	101.63 %		16:15:46
1	Ag 328.068†	164.1	2.3	0.0038 ug/L	0.0038 ppb	16:15:51
1	As 188.979†	-8.4	7.7	4.2441 ug/L	4.2441 ppb	16:16:11
1	B 249.677†	-8.2	82.1	2.3276 ug/L	2.3276 ppb	16:16:11
1	Ba 233.527†	1065902.5	1048472.9	9792.1 ug/L	9792.1 ppb	16:15:46
1	Be 313.107†	-3561.3	109.5	0.0473 ug/L	0.0473 ppb	16:15:51
1	Cd 226.502†	-131.0	12.7	0.1887 ug/L	0.1887 ppb	16:16:11
1	Co 228.616†	-246.6	-199.0	-0.4469 ug/L	-0.4469 ppb	16:16:11
1	Cr 267.716†	65.5	-1.3	-0.0141 ug/L	-0.0141 ppb	16:16:11
1	Cu 324.752†	6066.0	-103.6	-0.3310 ug/L	-0.3310 ppb	16:15:51
1	Mn 257.610†	405.3	9.0	-0.0048 ug/L	-0.0048 ppb	16:16:11
1	Mo 202.031†	12.6	-1.4	-0.1278 ug/L	-0.1278 ppb	16:16:11
1	Ni 231.604†	103.4	48.7	1.5370 ug/L	1.5370 ppb	16:16:11
1	P 214.914†	166.7	-11.4	-8.5627 ug/L	-8.5627 ppb	16:16:11
1	Pb 220.353†	-30.5	14.0	2.1747 ug/L	2.1747 ppb	16:16:11
1	S 181.975 Axial†	30.8	-0.6	-0.9899 ug/L	-0.9899 ppb	16:16:11
1	Sb 206.836†	26.4	-2.5	-1.0158 ug/L	-1.0158 ppb	16:16:11
1	Se 196.026†	-13.0	6.5	5.0946 ug/L	5.0946 ppb	16:16:11
1	Si 251.611†	496.4	35.9	1.3320 ug/L	1.3320 ppb	16:16:11
1	Sn 189.927†	10.0	2.0	0.4646 ug/L	0.4646 ppb	16:16:11
1	Ti 334.940†	-970.8	5.4	-0.0037 ug/L	-0.0037 ppb	16:15:51
1	Tl 190.801†	-27.1	4.4	1.7458 ug/L	1.7458 ppb	16:16:11
1	U 409.014†	-2408.3	-365.7	-10.673 ug/L	-10.673 ppb	16:15:51
1	V 292.402†	-1153.4	112.2	0.8680 ug/L	0.8680 ppb	16:15:51
1	Zn 213.857†	548.1	36.6	0.4449 ug/L	0.4449 ppb	16:16:11
1	SiO2†	507.7	20.9	1.6435 ug/L	1.6435 ppb	16:17:32
2	Sc Radial	3299.9	3299.9	98.5 %		16:15:14
2	Y RADIAL	2716.4	2716.4	99.02 %		16:15:14
2	Al 396.153Radial†	-64.8	-5.8	-12.364 ug/L	-12.364 ppb	16:15:14
2	Ca 317.933Radial†	13.5	3.5	13.920 ug/L	13.920 ppb	16:15:14
2	Fe 238.204 Radial†	6.4	-2.2	-60.841 ug/L	-60.841 ppb	16:15:14
2	K 766.490 Radial†	2188.3	107.4	49.182 ug/L	49.182 ppb	16:14:54
2	Mg 279.077 IEC†	0.1	-0.3	-31.720 ug/L	-31.720 ppb	16:15:14
2	Na 589.592 Radial†	-775.7	-5.0	-1.6608 ug/L	-1.6608 ppb	16:14:54
2	Sr 421.552†	20.1	-15.3	-0.1514 ug/L	-0.1514 ppb	16:14:54
2	Sc 361.383	857061.5	857061.5	102.67 %		16:16:16
2	Y 371.029	734374.3	734374.3	102.61 %		16:16:16
2	Ag 328.068†	151.0	-12.0	-0.0680 ug/L	-0.0680 ppb	16:16:22
2	As 188.979†	-13.7	2.7	1.4630 ug/L	1.4630 ppb	16:16:42
2	B 249.677†	-39.6	51.6	1.4703 ug/L	1.4703 ppb	16:16:42
2	Ba 233.527†	1077742.9	1049687.3	9803.5 ug/L	9803.5 ppb	16:16:16
2	Be 313.107†	-3550.5	154.4	0.0664 ug/L	0.0664 ppb	16:16:22
2	Cd 226.502†	-111.6	32.9	0.4795 ug/L	0.4795 ppb	16:16:42
2	Co 228.616†	-241.0	-191.2	-0.2370 ug/L	-0.2370 ppb	16:16:42
2	Cr 267.716†	82.6	14.7	0.1947 ug/L	0.1947 ppb	16:16:42
2	Cu 324.752†	6132.5	-97.6	-0.3097 ug/L	-0.3097 ppb	16:16:22
2	Mn 257.610†	392.8	-7.1	-0.0141 ug/L	-0.0141 ppb	16:16:42
2	Mo 202.031†	11.0	-3.0	-0.2653 ug/L	-0.2653 ppb	16:16:42
2	Ni 231.604†	67.5	12.7	0.4038 ug/L	0.4038 ppb	16:16:42

2	P 214.914†	169.9	-9.9	-7.4157 ug/L	-7.4157 ppb	16:16:42
2	Pb 220.353†	-41.4	3.6	0.5702 ug/L	0.5702 ppb	16:16:42
2	S 181.975 Axial†	29.5	-2.1	-3.7881 ug/L	-3.7881 ppb	16:16:42
2	Sb 206.836†	18.3	-10.7	-4.3947 ug/L	-4.3947 ppb	16:16:42
2	Se 196.026†	-13.8	5.8	4.5642 ug/L	4.5642 ppb	16:16:42
2	Si 251.611†	506.7	41.1	1.5259 ug/L	1.5259 ppb	16:16:42
2	Sn 189.927†	14.4	6.2	1.4242 ug/L	1.4242 ppb	16:16:42
2	Ti 334.940†	-1041.3	-53.9	-0.0813 ug/L	-0.0813 ppb	16:16:22
2	Tl 190.801†	-18.0	13.5	5.2585 ug/L	5.2585 ppb	16:16:42
2	U 409.014†	-2535.4	-466.2	-13.609 ug/L	-13.609 ppb	16:16:22
2	V 292.402†	-1261.9	17.8	0.1171 ug/L	0.1171 ppb	16:16:22
2	Zn 213.857†	555.9	39.0	0.4803 ug/L	0.4803 ppb	16:16:42
2	SiO2†	507.1	15.4	1.2185 ug/L	1.2185 ppb	16:17:52
3	Sc Radial	3336.3	3336.3	99.6 %		16:15:40
3	Y RADIAL	2738.9	2738.9	99.84 %		16:15:40
3	Al 396.153Radial†	-58.0	1.8	3.8633 ug/L	3.8633 ppb	16:15:40
3	Ca 317.933Radial†	13.8	3.7	14.607 ug/L	14.607 ppb	16:15:40
3	Fe 238.204 Radial†	7.8	-0.8	-22.946 ug/L	-22.946 ppb	16:15:40
3	K 766.490 Radial†	2340.1	235.5	107.79 ug/L	107.79 ppb	16:15:20
3	Mg 279.077 IEC†	2.7	2.3	221.29 ug/L	221.29 ppb	16:15:40
3	Na 589.592 Radial†	-709.4	70.2	23.460 ug/L	23.460 ppb	16:15:20
3	Sr 421.552†	-5.9	-41.6	-0.4126 ug/L	-0.4126 ppb	16:15:20
3	Sc 361.383	853091.1	853091.1	102.20 %		16:16:47
3	Y 371.029	732266.1	732266.1	102.32 %		16:16:47
3	Ag 328.068†	113.6	-48.0	-0.2379 ug/L	-0.2379 ppb	16:16:52
3	As 188.979†	-11.0	5.2	2.8618 ug/L	2.8618 ppb	16:17:12
3	B 249.677†	-20.0	70.6	1.9983 ug/L	1.9983 ppb	16:17:12
3	Ba 233.527†	1073623.5	1050541.8	9811.5 ug/L	9811.5 ppb	16:16:47
3	Be 313.107†	-3594.3	95.5	0.0412 ug/L	0.0412 ppb	16:16:52
3	Cd 226.502†	-122.3	21.9	0.3163 ug/L	0.3163 ppb	16:17:12
3	Co 228.616†	-250.8	-201.8	-0.5099 ug/L	-0.5099 ppb	16:17:12
3	Cr 267.716†	77.8	10.4	0.1395 ug/L	0.1395 ppb	16:17:12
3	Cu 324.752†	6271.1	65.8	0.2170 ug/L	0.2170 ppb	16:16:52
3	Mn 257.610†	402.3	3.9	-0.0061 ug/L	-0.0061 ppb	16:17:12
3	Mo 202.031†	14.6	0.5	0.0423 ug/L	0.0423 ppb	16:17:12
3	Ni 231.604†	43.9	-10.1	-0.3155 ug/L	-0.3155 ppb	16:17:12
3	P 214.914†	179.1	-0.1	-0.1305 ug/L	-0.1305 ppb	16:17:12
3	Pb 220.353†	-29.1	15.4	2.3960 ug/L	2.3960 ppb	16:17:12
3	S 181.975 Axial†	31.5	-0.0	-0.0662 ug/L	-0.0662 ppb	16:17:12
3	Sb 206.836†	18.5	-10.4	-4.3142 ug/L	-4.3142 ppb	16:17:12
3	Se 196.026†	-17.2	2.4	1.8619 ug/L	1.8619 ppb	16:17:12
3	Si 251.611†	499.0	35.9	1.3298 ug/L	1.3298 ppb	16:17:12
3	Sn 189.927†	5.2	-2.7	-0.6104 ug/L	-0.6104 ppb	16:17:12
3	Ti 334.940†	-983.0	-1.6	-0.0137 ug/L	-0.0137 ppb	16:16:52
3	Tl 190.801†	-19.2	12.3	4.8029 ug/L	4.8029 ppb	16:17:12
3	U 409.014†	-2462.6	-406.5	-11.867 ug/L	-11.867 ppb	16:16:52
3	V 292.402†	-1212.6	60.3	0.4560 ug/L	0.4560 ppb	16:16:52
3	Zn 213.857†	554.8	40.4	0.4952 ug/L	0.4952 ppb	16:17:12
3	SiO2†	509.2	19.7	1.5498 ug/L	1.5498 ppb	16:18:12

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852926.7	102.18 %	0.505			0.49%
Sc Radial	3317.2	99.0 %	0.55			0.55%
Y 371.029	731326.1	102.19 %	0.505			0.49%
Y RADIAL	2726.7	99.40 %	0.415			0.42%
Ag 328.068†	-19.2	-0.1007 ug/L	0.12415	-0.1007 ppb	0.12415	123.28%
Al 396.153Radial†	0.6	1.3708 ug/L	12.67354	1.3708 ppb	12.67354	924.50%
As 188.979†	5.2	2.8563 ug/L	1.39055	2.8563 ppb	1.39055	48.68%
B 249.677†	68.1	1.9320 ug/L	0.43249	1.9320 ppb	0.43249	22.38%
Ba 233.527†	1049567.3	9802.4 ug/L	9.71	9802.4 ppb	9.71	0.10%
Be 313.107†	119.8	0.0516 ug/L	0.01317	0.0516 ppb	0.01317	25.50%
Ca 317.933Radial†	4.2	16.852 ug/L	4.4971	16.852 ppb	4.4971	26.69%
Cd 226.502†	22.5	0.3282 ug/L	0.14579	0.3282 ppb	0.14579	44.43%
Co 228.616†	-197.3	-0.3980 ug/L	0.14288	-0.3980 ppb	0.14288	35.90%
Cr 267.716†	7.9	0.1067 ug/L	0.10817	0.1067 ppb	0.10817	101.36%
Cu 324.752†	-45.2	-0.1412 ug/L	0.31043	-0.1412 ppb	0.31043	219.79%
Fe 238.204 Radial†	-1.8	-49.289 ug/L	22.8717	-49.289 ppb	22.8717	46.40%
K 766.490 Radial†	144.9	66.312 ug/L	36.1015	66.312 ppb	36.1015	54.44%

Mg 279.077 IEC†	1.5	146.68 ug/L	155.185	146.68 ppb	155.185	105.80%
Mn 257.610†	1.9	-0.0083 ug/L	0.00501	-0.0083 ppb	0.00501	60.24%
Mo 202.031†	-1.3	-0.1170 ug/L	0.15407	-0.1170 ppb	0.15407	131.72%
Na 589.592 Radial†	33.7	11.242 ug/L	12.5745	11.242 ppb	12.5745	111.86%
Ni 231.604†	17.1	0.5418 ug/L	0.93393	0.5418 ppb	0.93393	172.38%
P 214.914†	-7.2	-5.3696 ug/L	4.57332	-5.3696 ppb	4.57332	85.17%
Pb 220.353†	11.0	1.7136 ug/L	0.99638	1.7136 ppb	0.99638	58.14%
S 181.975 Axial†	-0.9	-1.6147 ug/L	1.93801	-1.6147 ppb	1.93801	120.02%
Sb 206.836†	-7.8	-3.2416 ug/L	1.92799	-3.2416 ppb	1.92799	59.48%
Se 196.026†	4.9	3.8403 ug/L	1.73368	3.8403 ppb	1.73368	45.14%
Si 251.611†	37.6	1.3959 ug/L	0.11256	1.3959 ppb	0.11256	8.06%
Sn 189.927†	1.8	0.4261 ug/L	1.01787	0.4261 ppb	1.01787	238.86%
Sr 421.552†	-21.0	-0.2084 ug/L	0.18255	-0.2084 ppb	0.18255	87.62%
Ti 334.940†	-16.7	-0.0329 ug/L	0.04221	-0.0329 ppb	0.04221	128.24%
Tl 190.801†	10.1	3.9357 ug/L	1.91015	3.9357 ppb	1.91015	48.53%
U 409.014†	-412.8	-12.050 ug/L	1.4762	-12.050 ppb	1.4762	12.25%
V 292.402†	63.4	0.4804 ug/L	0.37604	0.4804 ppb	0.37604	78.28%
Zn 213.857†	38.7	0.4735 ug/L	0.02587	0.4735 ppb	0.02587	5.47%
SiO2†	18.7	1.4706 ug/L	0.22332	1.4706 ppb	0.22332	15.19%

Sequence No.: 4
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/9/2010 16:20:24
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3204.0	3204.0	95.6 %		16:22:36
1	Y RADIAL	2614.2	2614.2	95.29 %		16:22:36
1	Al 396.153Radial†	2294.5	2459.4	5261.9 ug/L	5261.9 ppb	16:22:16
1	Ca 317.933Radial†	1301.4	1350.7	5360.4 ug/L	5360.4 ppb	16:22:36
1	Fe 238.204 Radial†	196.7	197.0	5492.0 ug/L	5492.0 ppb	16:22:36
1	K 766.490 Radial†	12968.8	11447.2	5233.4 ug/L	5233.4 ppb	16:22:16
1	Mg 279.077 IEC†	51.7	53.6	5203.7 ug/L	5203.7 ppb	16:22:36
1	Na 589.592 Radial†	30190.8	32353.4	10805 ug/L	10805 ppb	16:22:16
1	Sr 421.552†	53229.0	55626.3	551.55 ug/L	551.55 ppb	16:22:16
1	Sc 361.383	860973.5	860973.5	103.14 %		16:23:33
1	Y 371.029	729107.9	729107.9	101.88 %		16:23:33
1	Ag 328.068†	101030.6	97793.7	497.29 ug/L	497.29 ppb	16:23:38
1	As 188.979†	910.9	899.1	504.11 ug/L	504.11 ppb	16:23:58
1	B 249.677†	18037.1	17577.8	490.42 ug/L	490.42 ppb	16:23:38
1	Ba 233.527†	54391.2	52741.4	493.83 ug/L	493.83 ppb	16:23:38
1	Be 313.107†	1176285.1	1144063.5	494.84 ug/L	494.84 ppb	16:23:33
1	Cd 226.502†	35173.9	34243.9	494.86 ug/L	494.86 ppb	16:23:38
1	Co 228.616†	19926.0	19362.5	502.22 ug/L	502.22 ppb	16:23:38
1	Cr 267.716†	39091.2	37834.6	494.23 ug/L	494.23 ppb	16:23:38
1	Cu 324.752†	164013.4	152946.5	492.22 ug/L	492.22 ppb	16:23:38
1	Mn 257.610†	386239.6	374083.6	490.53 ug/L	490.53 ppb	16:23:33
1	Mo 202.031†	5888.1	5694.9	492.04 ug/L	492.04 ppb	16:23:58
1	Ni 231.604†	16492.4	15937.0	502.01 ug/L	502.01 ppb	16:23:38
1	P 214.914†	3522.0	3239.4	2364.1 ug/L	2364.1 ppb	16:23:58
1	Pb 220.353†	3248.4	3193.4	495.88 ug/L	495.88 ppb	16:23:58
1	S 181.975 Axial†	597.2	548.1	976.65 ug/L	976.65 ppb	16:23:58
1	Sb 206.836†	1256.2	1189.4	510.57 ug/L	510.57 ppb	16:23:58
1	Se 196.026†	607.6	608.3	513.05 ug/L	513.05 ppb	16:23:58
1	Si 251.611†	69274.2	66711.5	2467.5 ug/L	2467.5 ppb	16:23:38
1	Sn 189.927†	2245.4	2169.2	493.55 ug/L	493.55 ppb	16:23:58
1	Ti 334.940†	292560.8	284608.5	483.62 ug/L	483.62 ppb	16:23:38
1	Tl 190.801†	1284.1	1276.1	498.21 ug/L	498.21 ppb	16:23:58
1	U 409.014†	15780.1	17302.5	503.55 ug/L	503.55 ppb	16:23:38
1	V 292.402†	63927.8	63227.1	500.09 ug/L	500.09 ppb	16:23:38
1	Zn 213.857†	42718.2	40914.4	491.75 ug/L	491.75 ppb	16:23:38
1	SiO2†	69545.4	66948.3	5245.7 ug/L	5245.7 ppb	16:25:06
2	Sc Radial	3430.3	3430.3	102 %		16:23:01
2	Y RADIAL	2787.3	2787.3	101.6 %		16:23:01
2	Al 396.153Radial†	2289.4	2296.1	4910.5 ug/L	4910.5 ppb	16:22:41
2	Ca 317.933Radial†	1280.3	1240.2	4921.9 ug/L	4921.9 ppb	16:23:01
2	Fe 238.204 Radial†	190.8	177.7	4954.6 ug/L	4954.6 ppb	16:23:01
2	K 766.490 Radial†	13072.8	10653.8	4870.6 ug/L	4870.6 ppb	16:22:41
2	Mg 279.077 IEC†	54.1	52.4	5082.0 ug/L	5082.0 ppb	16:23:01
2	Na 589.592 Radial†	30333.5	30409.2	10155 ug/L	10155 ppb	16:22:41
2	Sr 421.552†	53169.3	51894.7	514.55 ug/L	514.55 ppb	16:22:41
2	Sc 361.383	848974.4	848974.4	101.70 %		16:24:04
2	Y 371.029	718842.0	718842.0	100.44 %		16:24:04
2	Ag 328.068†	100485.6	98642.3	501.43 ug/L	501.43 ppb	16:24:09
2	As 188.979†	905.5	906.3	507.99 ug/L	507.99 ppb	16:24:30
2	B 249.677†	17950.5	17739.9	495.03 ug/L	495.03 ppb	16:24:09
2	Ba 233.527†	54376.0	53471.8	500.64 ug/L	500.64 ppb	16:24:09
2	Be 313.107†	1172502.6	1156463.0	500.20 ug/L	500.20 ppb	16:24:04
2	Cd 226.502†	35165.7	34717.9	501.77 ug/L	501.77 ppb	16:24:09
2	Co 228.616†	19989.4	19698.0	510.94 ug/L	510.94 ppb	16:24:09
2	Cr 267.716†	39019.8	38300.0	500.28 ug/L	500.28 ppb	16:24:09
2	Cu 324.752†	162411.0	153618.4	494.35 ug/L	494.35 ppb	16:24:09
2	Mn 257.610†	385827.4	378970.9	496.89 ug/L	496.89 ppb	16:24:04
2	Mo 202.031†	5890.5	5778.0	499.16 ug/L	499.16 ppb	16:24:30
2	Ni 231.604†	16482.9	16153.6	508.84 ug/L	508.84 ppb	16:24:09

2	P 214.914†	3522.8	3288.4	2401.4 ug/L	2401.4 ppb	16:24:30
2	Pb 220.353†	3256.0	3245.3	503.94 ug/L	503.94 ppb	16:24:30
2	S 181.975 Axial†	600.9	560.0	997.94 ug/L	997.94 ppb	16:24:30
2	Sb 206.836†	1249.9	1200.4	515.45 ug/L	515.45 ppb	16:24:30
2	Se 196.026†	601.0	610.1	512.94 ug/L	512.94 ppb	16:24:30
2	Si 251.611†	68972.0	67363.6	2491.6 ug/L	2491.6 ppb	16:24:09
2	Sn 189.927†	2255.1	2209.5	502.66 ug/L	502.66 ppb	16:24:30
2	Ti 334.940†	291460.8	287535.9	488.54 ug/L	488.54 ppb	16:24:09
2	Tl 190.801†	1287.2	1296.7	506.22 ug/L	506.22 ppb	16:24:30
2	U 409.014†	15698.0	17438.0	507.55 ug/L	507.55 ppb	16:24:09
2	V 292.402†	63607.8	63788.4	504.65 ug/L	504.65 ppb	16:24:09
2	Zn 213.857†	42656.6	41439.2	498.15 ug/L	498.15 ppb	16:24:09
2	SiO2†	68774.3	67143.1	5260.8 ug/L	5260.8 ppb	16:25:11
3	Sc Radial	3377.4	3377.4	101 %		16:23:26
3	Y RADIAL	2748.1	2748.1	100.2 %		16:23:26
3	Al 396.153Radial†	2252.5	2294.5	4906.9 ug/L	4906.9 ppb	16:23:06
3	Ca 317.933Radial†	1280.2	1259.8	4999.5 ug/L	4999.5 ppb	16:23:26
3	Fe 238.204 Radial†	192.8	182.6	5091.9 ug/L	5091.9 ppb	16:23:26
3	K 766.490 Radial†	12836.3	10619.2	4854.7 ug/L	4854.7 ppb	16:23:06
3	Mg 279.077 IEC†	54.3	53.4	5180.9 ug/L	5180.9 ppb	16:23:26
3	Na 589.592 Radial†	29878.4	30422.1	10160 ug/L	10160 ppb	16:23:06
3	Sr 421.552†	52462.5	52007.3	515.67 ug/L	515.67 ppb	16:23:06
3	Sc 361.383	849087.1	849087.1	101.72 %		16:24:35
3	Y 371.029	717985.5	717985.5	100.32 %		16:24:35
3	Ag 328.068†	101539.4	99665.2	506.66 ug/L	506.66 ppb	16:24:40
3	As 188.979†	916.7	917.2	514.14 ug/L	514.14 ppb	16:25:01
3	B 249.677†	18275.7	18057.2	503.89 ug/L	503.89 ppb	16:24:40
3	Ba 233.527†	55027.2	54104.9	506.57 ug/L	506.57 ppb	16:24:40
3	Be 313.107†	1177113.9	1160843.5	502.10 ug/L	502.10 ppb	16:24:35
3	Cd 226.502†	35489.2	35031.3	506.29 ug/L	506.29 ppb	16:24:40
3	Co 228.616†	20199.6	19902.0	516.22 ug/L	516.22 ppb	16:24:40
3	Cr 267.716†	39393.8	38662.7	505.02 ug/L	505.02 ppb	16:24:40
3	Cu 324.752†	164368.1	155521.3	500.48 ug/L	500.48 ppb	16:24:40
3	Mn 257.610†	388254.6	381306.8	499.96 ug/L	499.96 ppb	16:24:35
3	Mo 202.031†	5935.8	5821.8	502.95 ug/L	502.95 ppb	16:25:01
3	Ni 231.604†	16674.0	16339.3	514.69 ug/L	514.69 ppb	16:24:40
3	P 214.914†	3554.7	3319.3	2423.5 ug/L	2423.5 ppb	16:25:01
3	Pb 220.353†	3292.6	3280.9	509.44 ug/L	509.44 ppb	16:25:01
3	S 181.975 Axial†	607.5	566.4	1009.3 ug/L	1009.3 ppb	16:25:01
3	Sb 206.836†	1263.8	1214.0	521.17 ug/L	521.17 ppb	16:25:01
3	Se 196.026†	617.9	626.7	526.81 ug/L	526.81 ppb	16:25:01
3	Si 251.611†	69682.6	68053.2	2517.1 ug/L	2517.1 ppb	16:24:40
3	Sn 189.927†	2261.3	2215.3	503.98 ug/L	503.98 ppb	16:25:01
3	Ti 334.940†	294867.9	290847.4	494.17 ug/L	494.17 ppb	16:24:40
3	Tl 190.801†	1285.9	1295.3	505.71 ug/L	505.71 ppb	16:25:01
3	U 409.014†	15903.6	17638.1	513.37 ug/L	513.37 ppb	16:24:40
3	V 292.402†	64229.4	64391.2	509.39 ug/L	509.39 ppb	16:24:40
3	Zn 213.857†	43061.3	41831.5	502.84 ug/L	502.84 ppb	16:24:40
3	SiO2†	70313.8	68647.6	5378.9 ug/L	5378.9 ppb	16:25:16

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	853011.7	102.19 %	0.826			0.81%
Sc Radial	3337.2	99.6 %	3.53			3.55%
Y 371.029	721978.5	100.88 %	0.865			0.86%
Y RADIAL	2716.5	99.02 %	3.309			3.34%
Ag 328.068†	98700.4	501.79 ug/L	4.693	501.79 ppb	4.693	0.94%
QC value within limits for Ag 328.068 Recovery = 100.36%						
Al 396.153Radial†	2350.0	5026.4 ug/L	203.92	5026.4 ppb	203.92	4.06%
QC value within limits for Al 396.153Radial Recovery = 100.53%						
As 188.979†	907.5	508.74 ug/L	5.058	508.74 ppb	5.058	0.99%
QC value within limits for As 188.979 Recovery = 101.75%						
B 249.677†	17791.6	496.45 ug/L	6.842	496.45 ppb	6.842	1.38%
QC value within limits for B 249.677 Recovery = 99.29%						
Ba 233.527†	53439.3	500.35 ug/L	6.376	500.35 ppb	6.376	1.27%
QC value within limits for Ba 233.527 Recovery = 100.07%						
Be 313.107†	1153790.0	499.05 ug/L	3.768	499.05 ppb	3.768	0.75%
QC value within limits for Be 313.107 Recovery = 99.81%						
Ca 317.933Radial†	1283.6	5093.9 ug/L	234.01	5093.9 ppb	234.01	4.59%

QC value within limits for Ca 317.933 Radial Recovery = 101.88%						
Cd 226.502†	34664.4	500.98 ug/L	5.758	500.98 ppb	5.758	1.15%
QC value within limits for Cd 226.502 Recovery = 100.20%						
Co 228.616†	19654.1	509.79 ug/L	7.070	509.79 ppb	7.070	1.39%
QC value within limits for Co 228.616 Recovery = 101.96%						
Cr 267.716†	38265.8	499.84 ug/L	5.410	499.84 ppb	5.410	1.08%
QC value within limits for Cr 267.716 Recovery = 99.97%						
Cu 324.752†	154028.7	495.68 ug/L	4.288	495.68 ppb	4.288	0.87%
QC value within limits for Cu 324.752 Recovery = 99.14%						
Fe 238.204 Radial†	185.8	5179.5 ug/L	279.18	5179.5 ppb	279.18	5.39%
QC value within limits for Fe 238.204 Radial Recovery = 103.59%						
K 766.490 Radial†	10906.7	4986.2 ug/L	214.19	4986.2 ppb	214.19	4.30%
QC value within limits for K 766.490 Radial Recovery = 99.72%						
Mg 279.077 IEC†	53.1	5155.5 ug/L	64.70	5155.5 ppb	64.70	1.26%
QC value within limits for Mg 279.077 IEC Recovery = 103.11%						
Mn 257.610†	378120.4	495.80 ug/L	4.808	495.80 ppb	4.808	0.97%
QC value within limits for Mn 257.610 Recovery = 99.16%						
Mo 202.031†	5764.9	498.05 ug/L	5.543	498.05 ppb	5.543	1.11%
QC value within limits for Mo 202.031 Recovery = 99.61%						
Na 589.592 Radial†	31061.6	10373 ug/L	373.6	10373 ppb	373.6	3.60%
QC value within limits for Na 589.592 Radial Recovery = 103.73%						
Ni 231.604†	16143.3	508.51 ug/L	6.343	508.51 ppb	6.343	1.25%
QC value within limits for Ni 231.604 Recovery = 101.70%						
P 214.914†	3282.3	2396.3 ug/L	30.02	2396.3 ppb	30.02	1.25%
QC value within limits for P 214.914 Recovery = 95.85%						
Pb 220.353†	3239.9	503.09 ug/L	6.820	503.09 ppb	6.820	1.36%
QC value within limits for Pb 220.353 Recovery = 100.62%						
S 181.975 Axial†	558.2	994.62 ug/L	16.562	994.62 ppb	16.562	1.67%
QC value within limits for S 181.975 Axial Recovery = 99.46%						
Sb 206.836†	1201.3	515.73 ug/L	5.307	515.73 ppb	5.307	1.03%
QC value within limits for Sb 206.836 Recovery = 103.15%						
Se 196.026†	615.0	517.60 ug/L	7.973	517.60 ppb	7.973	1.54%
QC value within limits for Se 196.026 Recovery = 103.52%						
Si 251.611†	67376.1	2492.1 ug/L	24.81	2492.1 ppb	24.81	1.00%
QC value within limits for Si 251.611 Recovery = 99.68%						
Sn 189.927†	2198.0	500.06 ug/L	5.681	500.06 ppb	5.681	1.14%
QC value within limits for Sn 189.927 Recovery = 100.01%						
Sr 421.552†	53176.1	527.26 ug/L	21.047	527.26 ppb	21.047	3.99%
QC value within limits for Sr 421.552 Recovery = 105.45%						
Ti 334.940†	287664.0	488.78 ug/L	5.278	488.78 ppb	5.278	1.08%
QC value within limits for Ti 334.940 Recovery = 97.76%						
Tl 190.801†	1289.3	503.38 ug/L	4.486	503.38 ppb	4.486	0.89%
QC value within limits for Tl 190.801 Recovery = 100.68%						
U 409.014†	17459.5	508.15 ug/L	4.939	508.15 ppb	4.939	0.97%
QC value within limits for U 409.014 Recovery = 101.63%						
V 292.402†	63802.2	504.71 ug/L	4.652	504.71 ppb	4.652	0.92%
QC value within limits for V 292.402 Recovery = 100.94%						
Zn 213.857†	41395.0	497.58 ug/L	5.570	497.58 ppb	5.570	1.12%
QC value within limits for Zn 213.857 Recovery = 99.52%						
SiO2†	67579.7	5295.1 ug/L	72.93	5295.1 ppb	72.93	1.38%
QC value within limits for SiO2 Recovery = 99.02%						
All analyte(s) passed QC.						

Sequence No.: 5

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 16:27:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3333.1	3333.1	99.5 %		16:29:39
1	Y RADIAL	2727.4	2727.4	99.42 %		16:29:39
1	Al 396.153Radial†	-62.6	-2.9	-6.1907 ug/L	-6.1907 ppb	16:29:39
1	Ca 317.933Radial†	10.6	0.5	1.8916 ug/L	1.8916 ppb	16:29:39
1	Fe 238.204 Radial†	5.5	-3.1	-85.717 ug/L	-85.717 ppb	16:29:39
1	K 766.490 Radial†	2183.3	80.3	36.739 ug/L	36.739 ppb	16:29:19
1	Mg 279.077 IEC†	0.9	0.5	48.528 ug/L	48.528 ppb	16:29:39
1	Na 589.592 Radial†	-790.8	-12.3	-4.1106 ug/L	-4.1106 ppb	16:29:19
1	Sr 421.552†	22.1	-13.4	-0.1330 ug/L	-0.1330 ppb	16:29:19
1	Sc 361.383	845433.5	845433.5	101.28 %		16:30:36
1	Y 371.029	725453.1	725453.1	101.37 %		16:30:36
1	Ag 328.068†	149.5	-11.5	-0.0840 ug/L	-0.0840 ppb	16:30:36
1	As 188.979†	-15.2	1.0	0.5128 ug/L	0.5128 ppb	16:30:56
1	B 249.677†	-6.9	83.4	2.3498 ug/L	2.3498 ppb	16:30:56
1	Ba 233.527†	21.9	28.8	0.2668 ug/L	0.2668 ppb	16:30:56
1	Be 313.107†	-3620.9	37.4	0.0160 ug/L	0.0160 ppb	16:30:36
1	Cd 226.502†	-146.3	-2.8	-0.0324 ug/L	-0.0324 ppb	16:30:56
1	Co 228.616†	-35.7	8.3	0.2155 ug/L	0.2155 ppb	16:30:56
1	Cr 267.716†	60.3	-6.2	-0.0839 ug/L	-0.0839 ppb	16:30:56
1	Cu 324.752†	6207.7	58.8	0.1849 ug/L	0.1849 ppb	16:30:36
1	Mn 257.610†	375.1	-19.3	-0.0357 ug/L	-0.0357 ppb	16:30:56
1	Mo 202.031†	7.6	-6.3	-0.5514 ug/L	-0.5514 ppb	16:30:56
1	Ni 231.604†	56.4	2.7	0.0843 ug/L	0.0843 ppb	16:30:56
1	P 214.914†	178.4	0.7	0.5984 ug/L	0.5984 ppb	16:30:56
1	Pb 220.353†	-25.6	18.7	2.9039 ug/L	2.9039 ppb	16:30:56
1	S 181.975 Axial†	31.2	-0.1	-0.1125 ug/L	-0.1125 ppb	16:30:56
1	Sb 206.836†	41.6	12.6	5.2230 ug/L	5.2230 ppb	16:30:56
1	Se 196.026†	-20.2	-0.7	-0.8290 ug/L	-0.8290 ppb	16:30:56
1	Si 251.611†	484.6	26.0	0.9725 ug/L	0.9725 ppb	16:30:56
1	Sn 189.927†	12.8	4.8	1.0909 ug/L	1.0909 ppb	16:30:56
1	Ti 334.940†	-1004.9	-31.9	-0.0576 ug/L	-0.0576 ppb	16:30:36
1	Tl 190.801†	-21.9	9.4	3.6590 ug/L	3.6590 ppb	16:30:56
1	U 409.014†	-2049.1	-20.0	-0.5751 ug/L	-0.5751 ppb	16:30:36
1	V 292.402†	-1256.8	5.9	0.0504 ug/L	0.0504 ppb	16:30:36
1	Zn 213.857†	515.1	6.1	0.0862 ug/L	0.0862 ppb	16:30:56
1	SiO2†	484.6	-0.0	0.0130 ug/L	0.0130 ppb	16:32:07
2	Sc Radial	3326.9	3326.9	99.3 %		16:30:04
2	Y RADIAL	2708.7	2708.7	98.74 %		16:30:04
2	Al 396.153Radial†	-60.9	-1.3	-2.8866 ug/L	-2.8866 ppb	16:30:04
2	Ca 317.933Radial†	8.9	-1.3	-5.1379 ug/L	-5.1379 ppb	16:30:04
2	Fe 238.204 Radial†	10.9	2.4	65.876 ug/L	65.876 ppb	16:30:04
2	K 766.490 Radial†	2202.0	103.2	47.237 ug/L	47.237 ppb	16:29:44
2	Mg 279.077 IEC†	0.3	-0.2	-17.178 ug/L	-17.178 ppb	16:30:04
2	Na 589.592 Radial†	-755.3	22.0	7.3424 ug/L	7.3424 ppb	16:29:44
2	Sr 421.552†	20.4	-15.1	-0.1495 ug/L	-0.1495 ppb	16:29:44
2	Sc 361.383	832564.5	832564.5	99.739 %		16:31:01
2	Y 371.029	714250.3	714250.3	99.802 %		16:31:01
2	Ag 328.068†	101.3	-57.5	-0.2671 ug/L	-0.2671 ppb	16:31:01
2	As 188.979†	-16.2	-0.2	-0.1134 ug/L	-0.1134 ppb	16:31:21
2	B 249.677†	-30.5	59.6	1.6610 ug/L	1.6610 ppb	16:31:21
2	Ba 233.527†	8.9	16.1	0.1540 ug/L	0.1540 ppb	16:31:21
2	Be 313.107†	-3508.2	95.2	0.0412 ug/L	0.0412 ppb	16:31:01
2	Cd 226.502†	-146.4	-5.2	-0.0815 ug/L	-0.0815 ppb	16:31:21
2	Co 228.616†	-39.1	4.3	0.1112 ug/L	0.1112 ppb	16:31:21
2	Cr 267.716†	76.0	10.4	0.1398 ug/L	0.1398 ppb	16:31:21
2	Cu 324.752†	6089.3	34.8	0.1157 ug/L	0.1157 ppb	16:31:01
2	Mn 257.610†	399.5	10.8	0.0214 ug/L	0.0214 ppb	16:31:21
2	Mo 202.031†	16.6	2.8	0.2495 ug/L	0.2495 ppb	16:31:21
2	Ni 231.604†	55.2	2.3	0.0719 ug/L	0.0719 ppb	16:31:21

2	P 214.914†	171.7	-3.2	-2.5399 ug/L	-2.5399 ppb	16:31:21
2	Pb 220.353†	-43.2	0.6	0.0872 ug/L	0.0872 ppb	16:31:21
2	S 181.975 Axial†	32.7	1.9	3.4197 ug/L	3.4197 ppb	16:31:21
2	Sb 206.836†	29.6	1.2	0.5112 ug/L	0.5112 ppb	16:31:21
2	Se 196.026†	-18.4	0.8	0.8287 ug/L	0.8287 ppb	16:31:21
2	Si 251.611†	468.0	16.9	0.6220 ug/L	0.6220 ppb	16:31:21
2	Sn 189.927†	9.1	1.3	0.3004 ug/L	0.3004 ppb	16:31:21
2	Ti 334.940†	-926.6	31.3	0.0540 ug/L	0.0540 ppb	16:31:01
2	Tl 190.801†	-29.3	1.7	0.6457 ug/L	0.6457 ppb	16:31:21
2	U 409.014†	-2008.6	-10.7	-0.3194 ug/L	-0.3194 ppb	16:31:01
2	V 292.402†	-1162.3	81.4	0.6284 ug/L	0.6284 ppb	16:31:01
2	Zn 213.857†	521.5	20.4	0.2374 ug/L	0.2374 ppb	16:31:21
2	SiO2†	513.3	36.2	2.8375 ug/L	2.8375 ppb	16:32:27
3	Sc Radial	3311.0	3311.0	98.8 %		16:30:29
3	Y RADIAL	2710.3	2710.3	98.80 %		16:30:29
3	Al 396.153Radial†	-69.0	-9.8	-20.940 ug/L	-20.940 ppb	16:30:29
3	Ca 317.933Radial†	10.9	0.8	3.1870 ug/L	3.1870 ppb	16:30:29
3	Fe 238.204 Radial†	7.0	-1.5	-42.219 ug/L	-42.219 ppb	16:30:29
3	K 766.490 Radial†	2173.7	85.2	39.010 ug/L	39.010 ppb	16:30:09
3	Mg 279.077 IEC†	2.0	1.6	152.31 ug/L	152.31 ppb	16:30:29
3	Na 589.592 Radial†	-752.2	21.5	7.1635 ug/L	7.1635 ppb	16:30:09
3	Sr 421.552†	-1.7	-37.4	-0.3705 ug/L	-0.3705 ppb	16:30:09
3	Sc 361.383	848973.3	848973.3	101.70 %		16:31:26
3	Y 371.029	726964.3	726964.3	101.58 %		16:31:26
3	Ag 328.068†	130.8	-30.4	-0.1668 ug/L	-0.1668 ppb	16:31:26
3	As 188.979†	-18.2	-2.0	-1.0957 ug/L	-1.0957 ppb	16:31:46
3	B 249.677†	-16.7	73.8	2.0757 ug/L	2.0757 ppb	16:31:46
3	Ba 233.527†	17.3	24.2	0.2253 ug/L	0.2253 ppb	16:31:46
3	Be 313.107†	-3558.4	113.8	0.0492 ug/L	0.0492 ppb	16:31:26
3	Cd 226.502†	-143.0	0.9	0.0182 ug/L	0.0182 ppb	16:31:46
3	Co 228.616†	-39.7	4.6	0.1169 ug/L	0.1169 ppb	16:31:46
3	Cr 267.716†	78.8	11.7	0.1508 ug/L	0.1508 ppb	16:31:46
3	Cu 324.752†	6131.3	-41.9	-0.1380 ug/L	-0.1380 ppb	16:31:26
3	Mn 257.610†	379.9	-16.2	-0.0316 ug/L	-0.0316 ppb	16:31:46
3	Mo 202.031†	5.5	-8.4	-0.7271 ug/L	-0.7271 ppb	16:31:46
3	Ni 231.604†	60.1	6.0	0.1903 ug/L	0.1903 ppb	16:31:46
3	P 214.914†	180.4	2.0	1.5401 ug/L	1.5401 ppb	16:31:46
3	Pb 220.353†	-32.6	11.8	1.8325 ug/L	1.8325 ppb	16:31:46
3	S 181.975 Axial†	29.8	-1.6	-2.7759 ug/L	-2.7759 ppb	16:31:46
3	Sb 206.836†	28.0	-0.9	-0.3928 ug/L	-0.3928 ppb	16:31:46
3	Se 196.026†	-16.6	2.9	2.2353 ug/L	2.2353 ppb	16:31:46
3	Si 251.611†	497.4	36.6	1.3665 ug/L	1.3665 ppb	16:31:46
3	Sn 189.927†	7.8	-0.2	-0.0337 ug/L	-0.0337 ppb	16:31:46
3	Ti 334.940†	-952.3	23.9	0.0278 ug/L	0.0278 ppb	16:31:26
3	Tl 190.801†	-23.8	7.6	2.9559 ug/L	2.9559 ppb	16:31:46
3	U 409.014†	-1977.4	58.9	1.7243 ug/L	1.7243 ppb	16:31:26
3	V 292.402†	-1218.8	48.4	0.3798 ug/L	0.3798 ppb	16:31:26
3	Zn 213.857†	521.0	9.8	0.1244 ug/L	0.1244 ppb	16:31:46
3	SiO2†	527.9	40.6	3.2077 ug/L	3.2077 ppb	16:32:47

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842323.8	100.91 %	1.034			1.03%
Sc Radial	3323.6	99.2 %	0.34			0.34%
Y 371.029	722222.6	100.92 %	0.970			0.96%
Y RADIAL	2715.5	98.99 %	0.379			0.38%
Ag 328.068†	-33.1	-0.1726 ug/L	0.09173	-0.1726 ppb	0.09173	53.14%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-4.7	-10.006 ug/L	9.6123	-10.006 ppb	9.6123	96.07%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.4	-0.2321 ug/L	0.81076	-0.2321 ppb	0.81076	349.30%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	72.3	2.0289 ug/L	0.34678	2.0289 ppb	0.34678	17.09%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	23.0	0.2154 ug/L	0.05709	0.2154 ppb	0.05709	26.51%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	82.1	0.0355 ug/L	0.01732	0.0355 ppb	0.01732	48.82%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.0	-0.0198 ug/L	4.47951	-0.0198 ppb	4.47951	>999.9%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-2.4	-0.0319 ug/L	0.04984	-0.0319 ppb	0.04984	156.22%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.7	0.1479 ug/L	0.05861	0.1479 ppb	0.05861	39.64%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	5.3	0.0689 ug/L	0.13246	0.0689 ppb	0.13246	192.31%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	17.2	0.0542 ug/L	0.17001	0.0542 ppb	0.17001	313.43%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.7	-20.686 ug/L	78.0565	-20.686 ppb	78.0565	377.33%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	89.6	40.995 ug/L	5.5230	40.995 ppb	5.5230	13.47%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.6	61.218 ug/L	85.4513	61.218 ppb	85.4513	139.58%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-8.2	-0.0153 ug/L	0.03188	-0.0153 ppb	0.03188	208.22%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-4.0	-0.3430 ug/L	0.52062	-0.3430 ppb	0.52062	151.78%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	10.4	3.4651 ug/L	6.56136	3.4651 ppb	6.56136	189.36%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	3.7	0.1155 ug/L	0.06506	0.1155 ppb	0.06506	56.34%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-0.2	-0.1338 ug/L	2.13629	-0.1338 ppb	2.13629	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	10.4	1.6078 ug/L	1.42171	1.6078 ppb	1.42171	88.42%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.1	0.1771 ug/L	3.10794	0.1771 ppb	3.10794	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	4.3	1.7805 ug/L	3.01536	1.7805 ppb	3.01536	169.36%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.0	0.7450 ug/L	1.53383	0.7450 ppb	1.53383	205.88%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	26.5	0.9870 ug/L	0.37247	0.9870 ppb	0.37247	37.74%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	2.0	0.4525 ug/L	0.57752	0.4525 ppb	0.57752	127.62%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-22.0	-0.2177 ug/L	0.13257	-0.2177 ppb	0.13257	60.91%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	7.8	0.0081 ug/L	0.05835	0.0081 ppb	0.05835	724.74%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	6.2	2.4202 ug/L	1.57647	2.4202 ppb	1.57647	65.14%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	9.4	0.2766 ug/L	1.26028	0.2766 ppb	1.26028	455.63%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	45.2	0.3528 ug/L	0.28995	0.3528 ppb	0.28995	82.18%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	12.1	0.1493 ug/L	0.07862	0.1493 ppb	0.07862	52.65%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	25.6	2.0194 ug/L	1.74742	2.0194 ppb	1.74742	86.53%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 8
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/9/2010 17:24:27
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3340.4	3340.4	99.7 %			17:26:39
1	Y RADIAL	2718.4	2718.4	99.09 %			17:26:39
1	Al 396.153Radial†	2260.5	2327.3	4977.9 ug/L		4977.9 ppb	17:26:19
1	Ca 317.933Radial†	1291.8	1285.5	5101.5 ug/L		5101.5 ppb	17:26:39
1	Fe 238.204 Radial†	190.1	182.1	5075.7 ug/L		5075.7 ppb	17:26:39
1	K 766.490 Radial†	12938.9	10863.3	4966.5 ug/L		4966.5 ppb	17:26:19
1	Mg 279.077 IEC†	54.2	53.9	5230.6 ug/L		5230.6 ppb	17:26:39
1	Na 589.592 Radial†	28946.9	29816.3	9957.3 ug/L		9957.3 ppb	17:26:19
1	Sr 421.552†	51682.5	51801.7	513.63 ug/L		513.63 ppb	17:26:19
1	Sc 361.383	857291.7	857291.7	102.70 %			17:27:36
1	Y 371.029	725102.7	725102.7	101.32 %			17:27:36
1	Ag 328.068†	101251.2	98429.2	500.38 ug/L		500.38 ppb	17:27:42
1	As 188.979†	900.5	892.7	500.49 ug/L		500.49 ppb	17:28:02
1	B 249.677†	17796.7	17418.9	486.03 ug/L		486.03 ppb	17:27:42
1	Ba 233.527†	54541.2	53113.9	497.30 ug/L		497.30 ppb	17:27:42
1	Be 313.107†	1169472.3	1142327.7	494.09 ug/L		494.09 ppb	17:27:36
1	Cd 226.502†	35161.6	34378.4	496.85 ug/L		496.85 ppb	17:27:42
1	Co 228.616†	19933.5	19452.8	504.57 ug/L		504.57 ppb	17:27:42
1	Cr 267.716†	39067.9	37974.6	496.04 ug/L		496.04 ppb	17:27:42
1	Cu 324.752†	163919.1	153537.6	494.10 ug/L		494.10 ppb	17:27:42
1	Mn 257.610†	382275.3	371831.8	487.54 ug/L		487.54 ppb	17:27:42
1	Mo 202.031†	5891.1	5722.4	494.37 ug/L		494.37 ppb	17:28:02
1	Ni 231.604†	16545.6	16057.4	505.81 ug/L		505.81 ppb	17:27:42
1	P 214.914†	3511.5	3243.8	2367.4 ug/L		2367.4 ppb	17:28:02
1	Pb 220.353†	3250.8	3209.2	498.34 ug/L		498.34 ppb	17:28:02
1	S 181.975 Axial†	597.6	551.0	981.88 ug/L		981.88 ppb	17:28:02
1	Sb 206.836†	1251.0	1189.7	510.80 ug/L		510.80 ppb	17:28:02
1	Se 196.026†	608.1	611.3	514.24 ug/L		514.24 ppb	17:28:02
1	Si 251.611†	69467.9	67188.5	2485.2 ug/L		2485.2 ppb	17:27:42
1	Sn 189.927†	2254.1	2187.0	497.58 ug/L		497.58 ppb	17:28:02
1	Ti 334.940†	292824.1	286083.1	486.09 ug/L		486.09 ppb	17:27:42
1	Tl 190.801†	1290.9	1288.0	502.82 ug/L		502.82 ppb	17:28:02
1	U 409.014†	15824.3	17411.3	506.77 ug/L		506.77 ppb	17:27:42
1	V 292.402†	63792.7	63361.7	501.23 ug/L		501.23 ppb	17:27:42
1	Zn 213.857†	42887.5	41257.1	495.94 ug/L		495.94 ppb	17:27:42
1	SiO2†	69855.2	67539.5	5292.0 ug/L		5292.0 ppb	17:29:09
2	Sc Radial	3297.2	3297.2	98.4 %			17:27:04
2	Y RADIAL	2686.0	2686.0	97.91 %			17:27:04
2	Al 396.153Radial†	2273.8	2370.5	5070.9 ug/L		5070.9 ppb	17:26:44
2	Ca 317.933Radial†	1287.1	1297.7	5149.9 ug/L		5149.9 ppb	17:27:04
2	Fe 238.204 Radial†	192.7	187.2	5218.4 ug/L		5218.4 ppb	17:27:04
2	K 766.490 Radial†	13008.9	11104.4	5076.8 ug/L		5076.8 ppb	17:26:44
2	Mg 279.077 IEC†	55.4	55.8	5416.4 ug/L		5416.4 ppb	17:27:04
2	Na 589.592 Radial†	29204.9	30458.7	10172 ug/L		10172 ppb	17:26:44
2	Sr 421.552†	52192.2	52998.5	525.50 ug/L		525.50 ppb	17:26:44
2	Sc 361.383	861157.1	861157.1	103.16 %			17:28:07
2	Y 371.029	728519.6	728519.6	101.80 %			17:28:07
2	Ag 328.068†	102071.9	98782.2	502.22 ug/L		502.22 ppb	17:28:12
2	As 188.979†	896.5	884.9	496.22 ug/L		496.22 ppb	17:28:32
2	B 249.677†	17955.5	17495.0	488.13 ug/L		488.13 ppb	17:28:12
2	Ba 233.527†	55222.8	53536.3	501.26 ug/L		501.26 ppb	17:28:12
2	Be 313.107†	1183159.0	1150483.3	497.62 ug/L		497.62 ppb	17:28:07
2	Cd 226.502†	35581.2	34631.5	500.50 ug/L		500.50 ppb	17:28:12
2	Co 228.616†	20139.5	19565.4	507.47 ug/L		507.47 ppb	17:28:12
2	Cr 267.716†	39628.9	38347.7	500.91 ug/L		500.91 ppb	17:28:12
2	Cu 324.752†	165307.4	154166.9	496.13 ug/L		496.13 ppb	17:28:12
2	Mn 257.610†	386111.6	373879.6	490.23 ug/L		490.23 ppb	17:28:12
2	Mo 202.031†	5849.7	5656.5	488.70 ug/L		488.70 ppb	17:28:32
2	Ni 231.604†	16669.2	16104.9	507.31 ug/L		507.31 ppb	17:28:12

2	P 214.914†	3500.0	3217.2	2346.7 ug/L	2346.7 ppb	17:28:32
2	Pb 220.353†	3244.6	3189.0	495.19 ug/L	495.19 ppb	17:28:32
2	S 181.975 Axial†	594.0	544.9	970.97 ug/L	970.97 ppb	17:28:32
2	Sb 206.836†	1241.9	1175.3	504.61 ug/L	504.61 ppb	17:28:32
2	Se 196.026†	607.4	608.0	511.97 ug/L	511.97 ppb	17:28:32
2	Si 251.611†	70137.2	67533.6	2498.0 ug/L	2498.0 ppb	17:28:12
2	Sn 189.927†	2228.0	2151.9	489.59 ug/L	489.59 ppb	17:28:32
2	Ti 334.940†	295777.8	287666.4	488.76 ug/L	488.76 ppb	17:28:12
2	Tl 190.801†	1291.4	1282.9	500.84 ug/L	500.84 ppb	17:28:32
2	U 409.014†	16229.7	17735.1	516.19 ug/L	516.19 ppb	17:28:12
2	V 292.402†	64625.3	63889.9	505.27 ug/L	505.27 ppb	17:28:12
2	Zn 213.857†	43209.2	41381.5	497.42 ug/L	497.42 ppb	17:28:12
2	SiO2†	69015.9	66420.7	5204.3 ug/L	5204.3 ppb	17:29:14
3	Sc Radial	3379.7	3379.7	101 %		17:27:29
3	Y RADIAL	2744.7	2744.7	100.1 %		17:27:29
3	Al 396.153Radial†	2220.7	2261.5	4837.3 ug/L	4837.3 ppb	17:27:09
3	Ca 317.933Radial†	1287.6	1266.2	5025.1 ug/L	5025.1 ppb	17:27:29
3	Fe 238.204 Radial†	195.8	185.4	5168.2 ug/L	5168.2 ppb	17:27:29
3	K 766.490 Radial†	12970.7	10743.8	4912.0 ug/L	4912.0 ppb	17:27:09
3	Mg 279.077 IEC†	53.6	52.7	5111.0 ug/L	5111.0 ppb	17:27:29
3	Na 589.592 Radial†	28577.6	29112.4	9722.3 ug/L	9722.3 ppb	17:27:09
3	Sr 421.552†	50954.2	50476.6	500.49 ug/L	500.49 ppb	17:27:09
3	Sc 361.383	896549.2	896549.2	107.40 %		17:28:38
3	Y 371.029	759467.0	759467.0	106.12 %		17:28:38
3	Ag 328.068†	99400.7	92389.4	469.80 ug/L	469.80 ppb	17:28:43
3	As 188.979†	895.5	849.7	476.39 ug/L	476.39 ppb	17:29:03
3	B 249.677†	17493.1	16377.4	456.90 ug/L	456.90 ppb	17:28:43
3	Ba 233.527†	53604.5	49916.4	467.37 ug/L	467.37 ppb	17:28:43
3	Be 313.107†	1161513.4	1085056.1	469.31 ug/L	469.31 ppb	17:28:38
3	Cd 226.502†	34515.4	32277.7	466.45 ug/L	466.45 ppb	17:28:43
3	Co 228.616†	19653.1	18341.8	475.77 ug/L	475.77 ppb	17:28:43
3	Cr 267.716†	38479.2	35760.9	467.14 ug/L	467.14 ppb	17:28:43
3	Cu 324.752†	160679.0	143532.0	461.92 ug/L	461.92 ppb	17:28:43
3	Mn 257.610†	375533.3	349256.0	457.97 ug/L	457.97 ppb	17:28:43
3	Mo 202.031†	5898.4	5478.0	473.28 ug/L	473.28 ppb	17:29:03
3	Ni 231.604†	16204.4	15034.3	473.58 ug/L	473.58 ppb	17:28:43
3	P 214.914†	3540.1	3120.6	2279.9 ug/L	2279.9 ppb	17:29:03
3	Pb 220.353†	3258.2	3077.5	477.86 ug/L	477.86 ppb	17:29:03
3	S 181.975 Axial†	602.2	529.8	944.09 ug/L	944.09 ppb	17:29:03
3	Sb 206.836†	1243.6	1129.4	484.99 ug/L	484.99 ppb	17:29:03
3	Se 196.026†	610.1	587.2	494.82 ug/L	494.82 ppb	17:29:03
3	Si 251.611†	68090.4	62944.1	2328.0 ug/L	2328.0 ppb	17:28:43
3	Sn 189.927†	2236.1	2074.1	471.90 ug/L	471.90 ppb	17:29:03
3	Ti 334.940†	287001.0	268176.6	455.68 ug/L	455.68 ppb	17:28:43
3	Tl 190.801†	1279.0	1221.9	476.96 ug/L	476.96 ppb	17:29:03
3	U 409.014†	15384.2	16326.8	475.15 ug/L	475.15 ppb	17:28:43
3	V 292.402†	62716.5	59639.8	471.85 ug/L	471.85 ppb	17:28:43
3	Zn 213.857†	42065.9	38663.6	464.71 ug/L	464.71 ppb	17:28:43
3	SiO2†	69227.4	63976.7	5012.7 ug/L	5012.7 ppb	17:29:19

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	871666.0	104.42 %		2.592			2.48%
Sc Radial	3339.1	99.7 %		1.23			1.24%
Y 371.029	737696.4	103.08 %		2.645			2.57%
Y RADIAL	2716.4	99.02 %		1.073			1.08%
Ag 328.068†	96533.6	490.80 ug/L		18.207	490.80 ppb	18.207	3.71%
QC value within limits for Ag 328.068 Recovery = 98.16%							
Al 396.153Radial†	2319.8	4962.0 ug/L		117.59	4962.0 ppb	117.59	2.37%
QC value within limits for Al 396.153Radial Recovery = 99.24%							
As 188.979†	875.8	491.03 ug/L		12.860	491.03 ppb	12.860	2.62%
QC value within limits for As 188.979 Recovery = 98.21%							
B 249.677†	17097.1	477.02 ug/L		17.456	477.02 ppb	17.456	3.66%
QC value within limits for B 249.677 Recovery = 95.40%							
Ba 233.527†	52188.9	488.64 ug/L		18.525	488.64 ppb	18.525	3.79%
QC value within limits for Ba 233.527 Recovery = 97.73%							
Be 313.107†	1125955.7	487.01 ug/L		15.429	487.01 ppb	15.429	3.17%
QC value within limits for Be 313.107 Recovery = 97.40%							
Ca 317.933Radial†	1283.1	5092.2 ug/L		62.94	5092.2 ppb	62.94	1.24%

QC value within limits for Ca 317.933 Radial Recovery = 101.84%

Cd 226.502†	33762.5	487.93 ug/L	18.695	487.93 ppb	18.695	3.83%
QC value within limits for Cd 226.502 Recovery = 97.59%						
Co 228.616†	19120.0	495.94 ug/L	17.525	495.94 ppb	17.525	3.53%
QC value within limits for Co 228.616 Recovery = 99.19%						
Cr 267.716†	37361.1	488.03 ug/L	18.256	488.03 ppb	18.256	3.74%
QC value within limits for Cr 267.716 Recovery = 97.61%						
Cu 324.752†	150412.2	484.05 ug/L	19.190	484.05 ppb	19.190	3.96%
QC value within limits for Cu 324.752 Recovery = 96.81%						
Fe 238.204 Radial†	184.9	5154.1 ug/L	72.37	5154.1 ppb	72.37	1.40%
QC value within limits for Fe 238.204 Radial Recovery = 103.08%						
K 766.490 Radial†	10903.8	4985.1 ug/L	83.97	4985.1 ppb	83.97	1.68%
QC value within limits for K 766.490 Radial Recovery = 99.70%						
Mg 279.077 IEC†	54.1	5252.7 ug/L	153.91	5252.7 ppb	153.91	2.93%
QC value within limits for Mg 279.077 IEC Recovery = 105.05%						
Mn 257.610†	364989.1	478.58 ug/L	17.899	478.58 ppb	17.899	3.74%
QC value within limits for Mn 257.610 Recovery = 95.72%						
Mo 202.031†	5618.9	485.45 ug/L	10.913	485.45 ppb	10.913	2.25%
QC value within limits for Mo 202.031 Recovery = 97.09%						
Na 589.592 Radial†	29795.8	9950.5 ug/L	224.89	9950.5 ppb	224.89	2.26%
QC value within limits for Na 589.592 Radial Recovery = 99.50%						
Ni 231.604†	15732.2	495.56 ug/L	19.055	495.56 ppb	19.055	3.85%
QC value within limits for Ni 231.604 Recovery = 99.11%						
P 214.914†	3193.9	2331.3 ug/L	45.71	2331.3 ppb	45.71	1.96%
QC value within limits for P 214.914 Recovery = 93.25%						
Pb 220.353†	3158.6	490.46 ug/L	11.025	490.46 ppb	11.025	2.25%
QC value within limits for Pb 220.353 Recovery = 98.09%						
S 181.975 Axial†	541.9	965.64 ug/L	19.453	965.64 ppb	19.453	2.01%
QC value within limits for S 181.975 Axial Recovery = 96.56%						
Sb 206.836†	1164.8	500.13 ug/L	13.471	500.13 ppb	13.471	2.69%
QC value within limits for Sb 206.836 Recovery = 100.03%						
Se 196.026†	602.2	507.01 ug/L	10.619	507.01 ppb	10.619	2.09%
QC value within limits for Se 196.026 Recovery = 101.40%						
Si 251.611†	65888.7	2437.1 ug/L	94.64	2437.1 ppb	94.64	3.88%
QC value within limits for Si 251.611 Recovery = 97.48%						
Sn 189.927†	2137.7	486.36 ug/L	13.139	486.36 ppb	13.139	2.70%
QC value within limits for Sn 189.927 Recovery = 97.27%						
Sr 421.552†	51759.0	513.21 ug/L	12.509	513.21 ppb	12.509	2.44%
QC value within limits for Sr 421.552 Recovery = 102.64%						
Ti 334.940†	280642.0	476.84 ug/L	18.379	476.84 ppb	18.379	3.85%
QC value within limits for Ti 334.940 Recovery = 95.37%						
Tl 190.801†	1264.2	493.54 ug/L	14.392	493.54 ppb	14.392	2.92%
QC value within limits for Tl 190.801 Recovery = 98.71%						
U 409.014†	17157.7	499.37 ug/L	21.498	499.37 ppb	21.498	4.31%
QC value within limits for U 409.014 Recovery = 99.87%						
V 292.402†	62297.2	492.79 ug/L	18.244	492.79 ppb	18.244	3.70%
QC value within limits for V 292.402 Recovery = 98.56%						
Zn 213.857†	40434.0	486.02 ug/L	18.473	486.02 ppb	18.473	3.80%
QC value within limits for Zn 213.857 Recovery = 97.20%						
SiO2†	65979.0	5169.7 ug/L	142.83	5169.7 ppb	142.83	2.76%
QC value within limits for SiO2 Recovery = 96.68%						

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 17:31:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3317.5	3317.5	99.0 %			17:33:42
1	Y RADIAL	2731.1	2731.1	99.56 %			17:33:42
1	Al 396.153Radial†	-58.2	1.3	2.7144 ug/L		2.7144 ppb	17:33:42
1	Ca 317.933Radial†	6.7	-3.5	-13.811 ug/L		-13.811 ppb	17:33:42
1	Fe 238.204 Radial†	9.3	0.8	21.416 ug/L		21.416 ppb	17:33:42
1	K 766.490 Radial†	2147.2	54.1	24.788 ug/L		24.788 ppb	17:33:22
1	Mg 279.077 IEC†	3.9	3.5	339.69 ug/L		339.69 ppb	17:33:42
1	Na 589.592 Radial†	-790.2	-15.5	-5.1727 ug/L		-5.1727 ppb	17:33:22
1	Sr 421.552†	16.7	-18.8	-0.1860 ug/L		-0.1860 ppb	17:33:22
1	Sc 361.383	840066.9	840066.9	100.64 %			17:34:39
1	Y 371.029	720285.7	720285.7	100.65 %			17:34:39
1	Ag 328.068†	187.5	27.2	0.1418 ug/L		0.1418 ppb	17:34:39
1	As 188.979†	-25.5	-9.4	-5.2312 ug/L		-5.2312 ppb	17:34:59
1	B 249.677†	-140.4	-49.3	-1.3861 ug/L		-1.3861 ppb	17:34:59
1	Ba 233.527†	9.5	16.7	0.1569 ug/L		0.1569 ppb	17:34:59
1	Be 313.107†	-3503.0	131.7	0.0571 ug/L		0.0571 ppb	17:34:39
1	Cd 226.502†	-136.5	5.9	0.0840 ug/L		0.0840 ppb	17:34:59
1	Co 228.616†	-39.9	3.9	0.1013 ug/L		0.1013 ppb	17:34:59
1	Cr 267.716†	69.1	2.9	0.0376 ug/L		0.0376 ppb	17:34:59
1	Cu 324.752†	6065.1	-43.8	-0.1424 ug/L		-0.1424 ppb	17:34:39
1	Mn 257.610†	394.8	2.6	-0.0084 ug/L		-0.0084 ppb	17:34:59
1	Mo 202.031†	10.7	-3.2	-0.2733 ug/L		-0.2733 ppb	17:34:59
1	Ni 231.604†	52.1	-1.3	-0.0404 ug/L		-0.0404 ppb	17:34:59
1	P 214.914†	180.8	4.2	3.2433 ug/L		3.2433 ppb	17:34:59
1	Pb 220.353†	-30.7	13.5	2.0798 ug/L		2.0798 ppb	17:34:59
1	S 181.975 Axial†	36.7	5.6	9.9223 ug/L		9.9223 ppb	17:34:59
1	Sb 206.836†	34.1	5.4	2.2352 ug/L		2.2352 ppb	17:34:59
1	Se 196.026†	-21.4	-2.1	-1.6321 ug/L		-1.6321 ppb	17:34:59
1	Si 251.611†	541.5	85.7	3.1799 ug/L		3.1799 ppb	17:34:59
1	Sn 189.927†	12.3	4.4	0.9970 ug/L		0.9970 ppb	17:34:59
1	Ti 334.940†	-906.3	59.7	0.0698 ug/L		0.0698 ppb	17:34:39
1	Tl 190.801†	-21.3	9.9	3.8257 ug/L		3.8257 ppb	17:34:59
1	U 409.014†	-1851.1	163.8	4.7805 ug/L		4.7805 ppb	17:34:39
1	V 292.402†	-1210.0	44.4	0.3555 ug/L		0.3555 ppb	17:34:39
1	Zn 213.857†	571.3	65.2	0.7887 ug/L		0.7887 ppb	17:34:59
1	SiO2†	566.1	84.0	6.6094 ug/L		6.6094 ppb	17:36:10
2	Sc Radial	3299.3	3299.3	98.5 %			17:34:07
2	Y RADIAL	2721.2	2721.2	99.20 %			17:34:07
2	Al 396.153Radial†	-59.7	-0.6	-1.2281 ug/L		-1.2281 ppb	17:34:07
2	Ca 317.933Radial†	12.8	2.8	11.225 ug/L		11.225 ppb	17:34:07
2	Fe 238.204 Radial†	7.3	-1.3	-34.918 ug/L		-34.918 ppb	17:34:07
2	K 766.490 Radial†	2148.6	67.5	30.880 ug/L		30.880 ppb	17:33:47
2	Mg 279.077 IEC†	2.3	1.9	179.99 ug/L		179.99 ppb	17:34:07
2	Na 589.592 Radial†	-737.8	33.4	11.142 ug/L		11.142 ppb	17:33:47
2	Sr 421.552†	49.2	14.3	0.1415 ug/L		0.1415 ppb	17:33:47
2	Sc 361.383	846598.3	846598.3	101.42 %			17:35:04
2	Y 371.029	726952.0	726952.0	101.58 %			17:35:04
2	Ag 328.068†	192.1	30.4	0.1470 ug/L		0.1470 ppb	17:35:04
2	As 188.979†	-20.9	-4.7	-2.6061 ug/L		-2.6061 ppb	17:35:24
2	B 249.677†	-201.2	-108.2	-3.0274 ug/L		-3.0274 ppb	17:35:24
2	Ba 233.527†	12.9	19.9	0.1854 ug/L		0.1854 ppb	17:35:24
2	Be 313.107†	-3471.2	189.9	0.0822 ug/L		0.0822 ppb	17:35:04
2	Cd 226.502†	-140.0	3.6	0.0545 ug/L		0.0545 ppb	17:35:24
2	Co 228.616†	-48.0	-3.8	-0.0970 ug/L		-0.0970 ppb	17:35:24
2	Cr 267.716†	59.0	-7.6	-0.0981 ug/L		-0.0981 ppb	17:35:24
2	Cu 324.752†	6102.5	-53.3	-0.1714 ug/L		-0.1714 ppb	17:35:04
2	Mn 257.610†	403.1	7.8	-0.0006 ug/L		-0.0006 ppb	17:35:24
2	Mo 202.031†	13.5	-0.4	-0.0410 ug/L		-0.0410 ppb	17:35:24
2	Ni 231.604†	54.0	0.2	0.0056 ug/L		0.0056 ppb	17:35:24

2	P 214.914†	167.5	-10.2	-7.7060 ug/L	-7.7060 ppb	17:35:24
2	Pb 220.353†	-27.4	16.9	2.6158 ug/L	2.6158 ppb	17:35:24
2	S 181.975 Axial†	24.5	-6.7	-12.027 ug/L	-12.027 ppb	17:35:24
2	Sb 206.836†	26.6	-2.3	-0.9447 ug/L	-0.9447 ppb	17:35:24
2	Se 196.026†	-15.0	4.5	3.5295 ug/L	3.5295 ppb	17:35:24
2	Si 251.611†	544.7	84.7	3.1409 ug/L	3.1409 ppb	17:35:24
2	Sn 189.927†	8.9	0.9	0.2104 ug/L	0.2104 ppb	17:35:24
2	Ti 334.940†	-916.8	56.3	0.0843 ug/L	0.0843 ppb	17:35:04
2	Tl 190.801†	-29.6	1.9	0.7441 ug/L	0.7441 ppb	17:35:24
2	U 409.014†	-2163.6	-130.1	-3.7960 ug/L	-3.7960 ppb	17:35:04
2	V 292.402†	-1218.2	45.6	0.3569 ug/L	0.3569 ppb	17:35:04
2	Zn 213.857†	573.1	62.6	0.7650 ug/L	0.7650 ppb	17:35:24
2	SiO2†	552.5	66.3	5.2057 ug/L	5.2057 ppb	17:36:30
3	Sc Radial	3315.8	3315.8	99.0 %		17:34:32
3	Y RADIAL	2721.2	2721.2	99.20 %		17:34:32
3	Al 396.153Radial†	-68.3	-8.9	-19.217 ug/L	-19.217 ppb	17:34:32
3	Ca 317.933Radial†	11.1	1.0	3.9817 ug/L	3.9817 ppb	17:34:32
3	Fe 238.204 Radial†	6.8	-1.7	-48.605 ug/L	-48.605 ppb	17:34:32
3	K 766.490 Radial†	2074.4	-18.4	-8.4017 ug/L	-8.4017 ppb	17:34:12
3	Mg 279.077 IEC†	3.6	3.2	308.58 ug/L	308.58 ppb	17:34:32
3	Na 589.592 Radial†	-807.4	-33.3	-11.106 ug/L	-11.106 ppb	17:34:12
3	Sr 421.552†	33.9	-1.4	-0.0142 ug/L	-0.0142 ppb	17:34:12
3	Sc 361.383	840291.4	840291.4	100.66 %		17:35:29
3	Y 371.029	720788.3	720788.3	100.72 %		17:35:29
3	Ag 328.068†	91.2	-68.5	-0.3585 ug/L	-0.3585 ppb	17:35:29
3	As 188.979†	-19.6	-3.5	-1.9794 ug/L	-1.9794 ppb	17:35:49
3	B 249.677†	-200.6	-109.1	-3.0498 ug/L	-3.0498 ppb	17:35:49
3	Ba 233.527†	19.6	26.7	0.2485 ug/L	0.2485 ppb	17:35:49
3	Be 313.107†	-3542.2	93.7	0.0404 ug/L	0.0404 ppb	17:35:29
3	Cd 226.502†	-156.1	-13.5	-0.1896 ug/L	-0.1896 ppb	17:35:49
3	Co 228.616†	-45.7	-1.8	-0.0472 ug/L	-0.0472 ppb	17:35:49
3	Cr 267.716†	63.6	-2.6	-0.0344 ug/L	-0.0344 ppb	17:35:49
3	Cu 324.752†	6045.9	-64.4	-0.2094 ug/L	-0.2094 ppb	17:35:29
3	Mn 257.610†	417.0	24.5	0.0148 ug/L	0.0148 ppb	17:35:49
3	Mo 202.031†	13.1	-0.8	-0.0702 ug/L	-0.0702 ppb	17:35:49
3	Ni 231.604†	65.3	11.8	0.3722 ug/L	0.3722 ppb	17:35:49
3	P 214.914†	186.9	10.3	7.9018 ug/L	7.9018 ppb	17:35:49
3	Pb 220.353†	-35.8	8.4	1.2971 ug/L	1.2971 ppb	17:35:49
3	S 181.975 Axial†	29.4	-1.6	-2.9041 ug/L	-2.9041 ppb	17:35:49
3	Sb 206.836†	26.9	-1.8	-0.7199 ug/L	-0.7199 ppb	17:35:49
3	Se 196.026†	-21.5	-2.1	-1.8776 ug/L	-1.8776 ppb	17:35:49
3	Si 251.611†	531.9	76.0	2.8192 ug/L	2.8192 ppb	17:35:49
3	Sn 189.927†	12.7	4.8	1.0912 ug/L	1.0912 ppb	17:35:49
3	Ti 334.940†	-972.2	-5.5	-0.0336 ug/L	-0.0336 ppb	17:35:29
3	Tl 190.801†	-29.5	1.8	0.6908 ug/L	0.6908 ppb	17:35:49
3	U 409.014†	-2050.6	-33.9	-0.9838 ug/L	-0.9838 ppb	17:35:29
3	V 292.402†	-1198.2	56.4	0.4508 ug/L	0.4508 ppb	17:35:29
3	Zn 213.857†	577.1	70.8	0.8647 ug/L	0.8647 ppb	17:35:49
3	SiO2†	543.7	61.6	4.8425 ug/L	4.8425 ppb	17:36:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842318.8	100.91 %	0.444			0.44%
Sc Radial	3310.8	98.8 %	0.30			0.30%
Y 371.029	722675.3	100.98 %	0.519			0.51%
Y RADIAL	2724.5	99.32 %	0.207			0.21%
Ag 328.068†	-3.6	-0.0232 ug/L	0.29034	-0.0232 ppb	0.29034	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-2.8	-5.9103 ug/L	11.69156	-5.9103 ppb	11.69156	197.82%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-5.9	-3.2722 ug/L	1.72521	-3.2722 ppb	1.72521	52.72%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-88.9	-2.4878 ug/L	0.95412	-2.4878 ppb	0.95412	38.35%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	21.1	0.1970 ug/L	0.04688	0.1970 ppb	0.04688	23.80%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	138.4	0.0599 ug/L	0.02102	0.0599 ppb	0.02102	35.10%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.1	0.4653 ug/L	12.88351	0.4653 ppb	12.88351	>999.9%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-1.3	-0.0171 ug/L	0.15020	-0.0171 ppb	0.15020 880.93%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-0.6	-0.0143 ug/L	0.10317	-0.0143 ppb	0.10317 721.22%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-2.4	-0.0316 ug/L	0.06786	-0.0316 ppb	0.06786 214.43%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-53.9	-0.1744 ug/L	0.03357	-0.1744 ppb	0.03357 19.25%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-0.7	-20.702 ug/L	37.1122	-20.702 ppb	37.1122 179.27%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	34.4	15.755 ug/L	21.1410	15.755 ppb	21.1410 134.18%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	2.8	276.09 ug/L	84.665	276.09 ppb	84.665 30.67%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	11.6	0.0019 ug/L	0.01177	0.0019 ppb	0.01177 613.40%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-1.5	-0.1282 ug/L	0.12655	-0.1282 ppb	0.12655 98.73%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-5.1	-1.7123 ug/L	11.52077	-1.7123 ppb	11.52077 672.84%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	3.6	0.1125 ug/L	0.22609	0.1125 ppb	0.22609 200.97%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	1.4	1.1464 ug/L	8.01244	1.1464 ppb	8.01244 698.93%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	12.9	1.9976 ug/L	0.66315	1.9976 ppb	0.66315 33.20%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-0.9	-1.6696 ug/L	11.02653	-1.6696 ppb	11.02653 660.44%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	0.4	0.1902 ug/L	1.77462	0.1902 ppb	1.77462 933.00%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	0.1	0.0066 ug/L	3.05336	0.0066 ppb	3.05336 >999.9%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	82.1	3.0466 ug/L	0.19794	3.0466 ppb	0.19794 6.50%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	3.4	0.7662 ug/L	0.48363	0.7662 ppb	0.48363 63.12%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-2.0	-0.0196 ug/L	0.16384	-0.0196 ppb	0.16384 837.53%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	36.9	0.0402 ug/L	0.06427	0.0402 ppb	0.06427 159.99%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	4.5	1.7535 ug/L	1.79477	1.7535 ppb	1.79477 102.35%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-0.1	0.0002 ug/L	4.37210	0.0002 ppb	4.37210 >999.9%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	48.8	0.3877 ug/L	0.05461	0.3877 ppb	0.05461 14.08%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	66.2	0.8061 ug/L	0.05211	0.8061 ppb	0.05211 6.46%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	70.6	5.5525 ug/L	0.93314	5.5525 ppb	0.93314 16.81%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

=====
Analysis Begun

Start Time: 3/9/2010 17:45:37

Plasma On Time: 3/8/2010 08:27:38

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\030910.sif

Batch ID:

Results Data Set: 030910

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/9/2010 17:45:38

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	3289.7	3289.7	98.2 %		17:47:50
1	Y RADIAL	2682.4	2682.4	97.78 %		17:47:50
1	Al 396.153Radial†	2232.8	2334.0	4992.5 ug/L	4992.5 ppb	17:47:30
1	Ca 317.933Radial†	1269.6	1282.8	5090.8 ug/L	5090.8 ppb	17:47:50
1	Fe 238.204 Radial†	188.3	183.2	5106.3 ug/L	5106.3 ppb	17:47:50
1	K 766.490 Radial†	12979.7	11104.8	5077.1 ug/L	5077.1 ppb	17:47:30
1	Mg 279.077 IEC†	54.0	54.6	5294.2 ug/L	5294.2 ppb	17:47:50
1	Na 589.592 Radial†	28191.0	29493.7	9849.6 ug/L	9849.6 ppb	17:47:30
1	Sr 421.552†	50598.6	51496.3	510.60 ug/L	510.60 ppb	17:47:30
1	Sc 361.383	854695.8	854695.8	102.39 %		17:48:48
1	Y 371.029	723065.0	723065.0	101.03 %		17:48:48
1	Ag 328.068†	100388.5	97886.1	497.64 ug/L	497.64 ppb	17:48:53
1	As 188.979†	882.3	877.6	492.09 ug/L	492.09 ppb	17:49:13
1	B 249.677†	17557.6	17238.0	480.96 ug/L	480.96 ppb	17:48:53
1	Ba 233.527†	54116.0	52860.0	494.92 ug/L	494.92 ppb	17:48:53
1	Be 313.107†	1171783.9	1148043.9	496.56 ug/L	496.56 ppb	17:48:48
1	Cd 226.502†	34838.7	34167.0	493.79 ug/L	493.79 ppb	17:48:53
1	Co 228.616†	19835.0	19415.6	503.60 ug/L	503.60 ppb	17:48:53
1	Cr 267.716†	38927.8	37953.3	495.76 ug/L	495.76 ppb	17:48:53
1	Cu 324.752†	162319.9	152460.5	490.63 ug/L	490.63 ppb	17:48:53
1	Mn 257.610†	385894.8	376497.3	493.66 ug/L	493.66 ppb	17:48:48
1	Mo 202.031†	5812.4	5662.9	489.24 ug/L	489.24 ppb	17:49:13
1	Ni 231.604†	16417.8	15981.5	503.42 ug/L	503.42 ppb	17:48:53
1	P 214.914†	3483.3	3226.6	2355.0 ug/L	2355.0 ppb	17:49:13
1	Pb 220.353†	3225.3	3193.9	495.96 ug/L	495.96 ppb	17:49:13
1	S 181.975 Axial†	600.6	555.7	990.24 ug/L	990.24 ppb	17:49:13
1	Sb 206.836†	1216.9	1160.0	498.30 ug/L	498.30 ppb	17:49:13
1	Se 196.026†	605.9	611.0	514.07 ug/L	514.07 ppb	17:49:13
1	Si 251.611†	68739.3	66682.3	2466.5 ug/L	2466.5 ppb	17:48:53
1	Sn 189.927†	2214.1	2154.6	490.21 ug/L	490.21 ppb	17:49:13
1	Ti 334.940†	290451.0	284631.4	483.61 ug/L	483.61 ppb	17:48:53
1	Tl 190.801†	1280.8	1282.0	500.50 ug/L	500.50 ppb	17:49:13
1	U 409.014†	15716.9	17353.2	505.07 ug/L	505.07 ppb	17:48:53
1	V 292.402†	63428.4	63194.6	499.85 ug/L	499.85 ppb	17:48:53
1	Zn 213.857†	42439.2	40946.1	492.18 ug/L	492.18 ppb	17:48:53
1	SiO2†	68914.5	66827.4	5236.2 ug/L	5236.2 ppb	17:50:20
2	Sc Radial	3340.3	3340.3	99.7 %		17:48:16
2	Y RADIAL	2702.1	2702.1	98.50 %		17:48:16
2	Al 396.153Radial†	2185.9	2252.5	4817.0 ug/L	4817.0 ppb	17:47:56
2	Ca 317.933Radial†	1280.0	1273.7	5054.7 ug/L	5054.7 ppb	17:48:16
2	Fe 238.204 Radial†	192.4	184.3	5138.1 ug/L	5138.1 ppb	17:48:16
2	K 766.490 Radial†	12729.4	10653.6	4870.7 ug/L	4870.7 ppb	17:47:56
2	Mg 279.077 IEC†	54.6	54.3	5273.6 ug/L	5273.6 ppb	17:48:16
2	Na 589.592 Radial†	28013.5	28881.0	9645.0 ug/L	9645.0 ppb	17:47:56
2	Sr 421.552†	49999.4	50115.3	496.91 ug/L	496.91 ppb	17:47:56
2	Sc 361.383	855956.8	855956.8	102.54 %		17:49:19
2	Y 371.029	725081.6	725081.6	101.32 %		17:49:19

2	Ag 328.068†	99569.5	96943.0	492.87 ug/L	492.87 ppb	17:49:24
2	As 188.979†	895.6	889.3	498.56 ug/L	498.56 ppb	17:49:44
2	B 249.677†	17445.4	17103.3	477.19 ug/L	477.19 ppb	17:49:24
2	Ba 233.527†	53676.8	52353.8	490.19 ug/L	490.19 ppb	17:49:24
2	Be 313.107†	1175231.8	1149720.4	497.27 ug/L	497.27 ppb	17:49:19
2	Cd 226.502†	34616.3	33900.0	489.92 ug/L	489.92 ppb	17:49:24
2	Co 228.616†	19698.2	19253.7	499.42 ug/L	499.42 ppb	17:49:24
2	Cr 267.716†	38643.3	37619.9	491.41 ug/L	491.41 ppb	17:49:24
2	Cu 324.752†	160652.4	150600.7	484.66 ug/L	484.66 ppb	17:49:24
2	Mn 257.610†	385729.0	375780.4	492.72 ug/L	492.72 ppb	17:49:19
2	Mo 202.031†	5894.1	5734.2	495.40 ug/L	495.40 ppb	17:49:44
2	Ni 231.604†	16265.6	15809.5	498.00 ug/L	498.00 ppb	17:49:24
2	P 214.914†	3518.0	3255.4	2378.0 ug/L	2378.0 ppb	17:49:44
2	Pb 220.353†	3246.9	3210.4	498.47 ug/L	498.47 ppb	17:49:44
2	S 181.975 Axial†	606.8	560.9	999.49 ug/L	999.49 ppb	17:49:44
2	Sb 206.836†	1253.5	1193.9	512.59 ug/L	512.59 ppb	17:49:44
2	Se 196.026†	611.7	615.7	518.00 ug/L	518.00 ppb	17:49:44
2	Si 251.611†	68172.4	66030.6	2442.2 ug/L	2442.2 ppb	17:49:24
2	Sn 189.927†	2249.2	2185.6	497.25 ug/L	497.25 ppb	17:49:44
2	Ti 334.940†	287980.1	281803.8	478.81 ug/L	478.81 ppb	17:49:24
2	Tl 190.801†	1290.8	1289.9	503.55 ug/L	503.55 ppb	17:49:44
2	U 409.014†	15453.1	17073.3	496.90 ug/L	496.90 ppb	17:49:24
2	V 292.402†	62852.2	62541.3	494.83 ug/L	494.83 ppb	17:49:24
2	Zn 213.857†	42118.1	40571.9	487.68 ug/L	487.68 ppb	17:49:24
2	SiO2†	68725.6	66544.0	5213.8 ug/L	5213.8 ppb	17:50:26
3	Sc Radial	3335.7	3335.7	99.6 %		17:48:41
3	Y RADIAL	2705.9	2705.9	98.64 %		17:48:41
3	Al 396.153Radial†	2146.1	2215.6	4737.8 ug/L	4737.8 ppb	17:48:21
3	Ca 317.933Radial†	1283.1	1278.6	5074.2 ug/L	5074.2 ppb	17:48:41
3	Fe 238.204 Radial†	189.1	181.3	5053.3 ug/L	5053.3 ppb	17:48:41
3	K 766.490 Radial†	12787.9	10729.9	4905.6 ug/L	4905.6 ppb	17:48:21
3	Mg 279.077 IEC†	53.7	53.4	5186.4 ug/L	5186.4 ppb	17:48:41
3	Na 589.592 Radial†	27756.2	28661.2	9571.6 ug/L	9571.6 ppb	17:48:21
3	Sr 421.552†	49406.6	49588.8	491.69 ug/L	491.69 ppb	17:48:21
3	Sc 361.383	854084.4	854084.4	102.32 %		17:49:50
3	Y 371.029	722922.6	722922.6	101.01 %		17:49:50
3	Ag 328.068†	100661.5	98223.1	499.33 ug/L	499.33 ppb	17:49:55
3	As 188.979†	896.1	891.7	499.93 ug/L	499.93 ppb	17:50:15
3	B 249.677†	17804.6	17491.7	488.07 ug/L	488.07 ppb	17:49:55
3	Ba 233.527†	54361.8	53138.0	497.52 ug/L	497.52 ppb	17:49:55
3	Be 313.107†	1178097.2	1155033.4	499.58 ug/L	499.58 ppb	17:49:50
3	Cd 226.502†	34973.2	34322.8	496.05 ug/L	496.05 ppb	17:49:55
3	Co 228.616†	19907.7	19500.5	505.81 ug/L	505.81 ppb	17:49:55
3	Cr 267.716†	39005.8	38056.8	497.11 ug/L	497.11 ppb	17:49:55
3	Cu 324.752†	163474.9	153702.8	494.63 ug/L	494.63 ppb	17:49:55
3	Mn 257.610†	387910.8	378737.4	496.59 ug/L	496.59 ppb	17:49:50
3	Mo 202.031†	5860.4	5713.9	493.64 ug/L	493.64 ppb	17:50:15
3	Ni 231.604†	16425.8	16000.8	504.02 ug/L	504.02 ppb	17:49:55
3	P 214.914†	3508.4	3253.5	2374.6 ug/L	2374.6 ppb	17:50:15
3	Pb 220.353†	3249.6	3219.9	499.94 ug/L	499.94 ppb	17:50:15
3	S 181.975 Axial†	602.3	557.8	994.04 ug/L	994.04 ppb	17:50:15
3	Sb 206.836†	1243.4	1186.8	509.57 ug/L	509.57 ppb	17:50:15
3	Se 196.026†	609.6	615.0	517.15 ug/L	517.15 ppb	17:50:15
3	Si 251.611†	69204.8	67185.3	2485.0 ug/L	2485.0 ppb	17:49:55
3	Sn 189.927†	2238.7	2180.2	496.02 ug/L	496.02 ppb	17:50:15
3	Ti 334.940†	291282.8	285647.4	485.34 ug/L	485.34 ppb	17:49:55
3	Tl 190.801†	1291.4	1293.2	504.87 ug/L	504.87 ppb	17:50:15
3	U 409.014†	15828.3	17473.0	508.57 ug/L	508.57 ppb	17:49:55
3	V 292.402†	63685.9	63490.6	502.24 ug/L	502.24 ppb	17:49:55
3	Zn 213.857†	42635.4	41167.6	494.87 ug/L	494.87 ppb	17:49:55
3	SiO2†	68122.4	66101.4	5179.1 ug/L	5179.1 ppb	17:50:31

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854912.3	102.42 %	0.114			0.11%
Sc Radial	3321.9	99.1 %	0.83			0.84%
Y 371.029	723689.7	101.12 %	0.169			0.17%
Y RADIAL	2696.8	98.31 %	0.462			0.47%
Ag 328.068†	97684.1	496.62 ug/L	3.351	496.62 ppb	3.351	0.67%

QC value within limits for Ag 328.068 Recovery = 99.32%						
Al 396.153Radial†	2267.4	4849.1 ug/L	130.34	4849.1 ppb	130.34	2.69%
QC value within limits for Al 396.153Radial Recovery = 96.98%						
As 188.979†	886.2	496.86 ug/L	4.186	496.86 ppb	4.186	0.84%
QC value within limits for As 188.979 Recovery = 99.37%						
B 249.677†	17277.6	482.07 ug/L	5.527	482.07 ppb	5.527	1.15%
QC value within limits for B 249.677 Recovery = 96.41%						
Ba 233.527†	52783.9	494.21 ug/L	3.720	494.21 ppb	3.720	0.75%
QC value within limits for Ba 233.527 Recovery = 98.84%						
Be 313.107†	1150932.6	497.80 ug/L	1.579	497.80 ppb	1.579	0.32%
QC value within limits for Be 313.107 Recovery = 99.56%						
Ca 317.933Radial†	1278.3	5073.2 ug/L	18.10	5073.2 ppb	18.10	0.36%
QC value within limits for Ca 317.933Radial Recovery = 101.46%						
Cd 226.502†	34130.0	493.25 ug/L	3.098	493.25 ppb	3.098	0.63%
QC value within limits for Cd 226.502 Recovery = 98.65%						
Co 228.616†	19389.9	502.94 ug/L	3.243	502.94 ppb	3.243	0.64%
QC value within limits for Co 228.616 Recovery = 100.59%						
Cr 267.716†	37876.7	494.76 ug/L	2.980	494.76 ppb	2.980	0.60%
QC value within limits for Cr 267.716 Recovery = 98.95%						
Cu 324.752†	152254.7	489.97 ug/L	5.019	489.97 ppb	5.019	1.02%
QC value within limits for Cu 324.752 Recovery = 97.99%						
Fe 238.204 Radial†	182.9	5099.2 ug/L	42.85	5099.2 ppb	42.85	0.84%
QC value within limits for Fe 238.204 Radial Recovery = 101.98%						
K 766.490 Radial†	10829.4	4951.1 ug/L	110.50	4951.1 ppb	110.50	2.23%
QC value within limits for K 766.490 Radial Recovery = 99.02%						
Mg 279.077 IEC†	54.1	5251.4 ug/L	57.23	5251.4 ppb	57.23	1.09%
QC value within limits for Mg 279.077 IEC Recovery = 105.03%						
Mn 257.610†	377005.1	494.32 ug/L	2.019	494.32 ppb	2.019	0.41%
QC value within limits for Mn 257.610 Recovery = 98.86%						
Mo 202.031†	5703.7	492.76 ug/L	3.170	492.76 ppb	3.170	0.64%
QC value within limits for Mo 202.031 Recovery = 98.55%						
Na 589.592 Radial†	29012.0	9688.7 ug/L	144.07	9688.7 ppb	144.07	1.49%
QC value within limits for Na 589.592 Radial Recovery = 96.89%						
Ni 231.604†	15930.6	501.81 ug/L	3.317	501.81 ppb	3.317	0.66%
QC value within limits for Ni 231.604 Recovery = 100.36%						
P 214.914†	3245.2	2369.2 ug/L	12.45	2369.2 ppb	12.45	0.53%
QC value within limits for P 214.914 Recovery = 94.77%						
Pb 220.353†	3208.1	498.12 ug/L	2.016	498.12 ppb	2.016	0.40%
QC value within limits for Pb 220.353 Recovery = 99.62%						
S 181.975 Axial†	558.1	994.59 ug/L	4.648	994.59 ppb	4.648	0.47%
QC value within limits for S 181.975 Axial Recovery = 99.46%						
Sb 206.836†	1180.2	506.82 ug/L	7.530	506.82 ppb	7.530	1.49%
QC value within limits for Sb 206.836 Recovery = 101.36%						
Se 196.026†	613.9	516.41 ug/L	2.067	516.41 ppb	2.067	0.40%
QC value within limits for Se 196.026 Recovery = 103.28%						
Si 251.611†	66632.7	2464.6 ug/L	21.48	2464.6 ppb	21.48	0.87%
QC value within limits for Si 251.611 Recovery = 98.58%						
Sn 189.927†	2173.5	494.49 ug/L	3.757	494.49 ppb	3.757	0.76%
QC value within limits for Sn 189.927 Recovery = 98.90%						
Sr 421.552†	50400.2	499.73 ug/L	9.769	499.73 ppb	9.769	1.95%
QC value within limits for Sr 421.552 Recovery = 99.95%						
Ti 334.940†	284027.5	482.59 ug/L	3.386	482.59 ppb	3.386	0.70%
QC value within limits for Ti 334.940 Recovery = 96.52%						
Tl 190.801†	1288.3	502.98 ug/L	2.242	502.98 ppb	2.242	0.45%
QC value within limits for Tl 190.801 Recovery = 100.60%						
U 409.014†	17299.8	503.51 ug/L	5.988	503.51 ppb	5.988	1.19%
QC value within limits for U 409.014 Recovery = 100.70%						
V 292.402†	63075.5	498.97 ug/L	3.782	498.97 ppb	3.782	0.76%
QC value within limits for V 292.402 Recovery = 99.79%						
Zn 213.857†	40895.2	491.58 ug/L	3.632	491.58 ppb	3.632	0.74%
QC value within limits for Zn 213.857 Recovery = 98.32%						
SiO2†	66490.9	5209.7 ug/L	28.79	5209.7 ppb	28.79	0.55%
QC value within limits for SiO2 Recovery = 97.42%						
All analyte(s) passed QC.						

Sequence No.: 2
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/9/2010 17:52:40
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3225.0	3225.0	96.3 %		17:54:53
1	Y RADIAL	2643.4	2643.4	96.36 %		17:54:53
1	Al 396.153Radial†	-54.9	3.0	6.3827 ug/L	6.3827 ppb	17:54:53
1	Ca 317.933Radial†	11.4	1.6	6.3843 ug/L	6.3843 ppb	17:54:53
1	Fe 238.204 Radial†	7.6	-0.8	-21.575 ug/L	-21.575 ppb	17:54:53
1	K 766.490 Radial†	2243.2	216.0	98.878 ug/L	98.878 ppb	17:54:33
1	Mg 279.077 IEC†	1.9	1.5	143.74 ug/L	143.74 ppb	17:54:53
1	Na 589.592 Radial†	-793.8	-42.0	-14.035 ug/L	-14.035 ppb	17:54:33
1	Sr 421.552†	43.8	9.9	0.0979 ug/L	0.0979 ppb	17:54:33
1	Sc 361.383	818780.3	818780.3	98.087 %		17:55:50
1	Y 371.029	702789.3	702789.3	98.201 %		17:55:50
1	Ag 328.068†	130.2	-26.4	-0.1337 ug/L	-0.1337 ppb	17:55:50
1	As 188.979†	-18.9	-3.3	-1.8320 ug/L	-1.8320 ppb	17:56:10
1	B 249.677†	-169.0	-82.1	-2.2974 ug/L	-2.2974 ppb	17:56:10
1	Ba 233.527†	6.9	14.2	0.1328 ug/L	0.1328 ppb	17:56:10
1	Be 313.107†	-3493.6	50.9	0.0216 ug/L	0.0216 ppb	17:55:50
1	Cd 226.502†	-143.2	-4.4	-0.0613 ug/L	-0.0613 ppb	17:56:10
1	Co 228.616†	-47.4	-4.8	-0.1238 ug/L	-0.1238 ppb	17:56:10
1	Cr 267.716†	65.3	0.8	0.0126 ug/L	0.0126 ppb	17:56:10
1	Cu 324.752†	6129.2	178.2	0.5759 ug/L	0.5759 ppb	17:55:50
1	Mn 257.610†	405.1	23.3	0.0225 ug/L	0.0225 ppb	17:56:10
1	Mo 202.031†	8.0	-5.6	-0.4833 ug/L	-0.4833 ppb	17:56:10
1	Ni 231.604†	98.0	46.9	1.4777 ug/L	1.4777 ppb	17:56:10
1	P 214.914†	180.4	8.5	6.3570 ug/L	6.3570 ppb	17:56:10
1	Pb 220.353†	-46.2	-3.2	-0.4921 ug/L	-0.4921 ppb	17:56:10
1	S 181.975 Axial†	31.4	1.2	2.0986 ug/L	2.0986 ppb	17:56:10
1	Sb 206.836†	28.0	0.0	0.0281 ug/L	0.0281 ppb	17:56:10
1	Se 196.026†	-19.9	-1.0	-0.9040 ug/L	-0.9040 ppb	17:56:10
1	Si 251.611†	511.8	69.4	2.5798 ug/L	2.5798 ppb	17:56:10
1	Sn 189.927†	12.9	5.3	1.2032 ug/L	1.2032 ppb	17:56:10
1	Ti 334.940†	-1029.7	-89.6	-0.1604 ug/L	-0.1604 ppb	17:55:50
1	Tl 190.801†	-23.1	7.5	2.9104 ug/L	2.9104 ppb	17:56:10
1	U 409.014†	-2173.8	-213.0	-6.2174 ug/L	-6.2174 ppb	17:55:50
1	V 292.402†	-1182.1	41.6	0.3121 ug/L	0.3121 ppb	17:55:50
1	Zn 213.857†	622.6	132.3	1.5977 ug/L	1.5977 ppb	17:56:10
1	SiO2†	499.0	30.3	2.3898 ug/L	2.3898 ppb	17:57:21
2	Sc Radial	3637.0	3637.0	109 %		17:55:18
2	Y RADIAL	2982.8	2982.8	108.7 %		17:55:18
2	Al 396.153Radial†	-49.4	14.5	31.110 ug/L	31.110 ppb	17:55:18
2	Ca 317.933Radial†	14.8	3.4	13.590 ug/L	13.590 ppb	17:55:18
2	Fe 238.204 Radial†	8.4	-0.9	-25.907 ug/L	-25.907 ppb	17:55:18
2	K 766.490 Radial†	2150.7	-133.2	-60.985 ug/L	-60.985 ppb	17:54:58
2	Mg 279.077 IEC†	1.2	0.7	66.577 ug/L	66.577 ppb	17:55:18
2	Na 589.592 Radial†	-807.1	39.1	13.050 ug/L	13.050 ppb	17:54:58
2	Sr 421.552†	12.7	-24.0	-0.2377 ug/L	-0.2377 ppb	17:54:58
2	Sc 361.383	816406.3	816406.3	97.803 %		17:56:15
2	Y 371.029	701242.3	701242.3	97.985 %		17:56:15
2	Ag 328.068†	170.6	15.3	0.0671 ug/L	0.0671 ppb	17:56:15
2	As 188.979†	-22.8	-7.4	-4.1189 ug/L	-4.1189 ppb	17:56:35
2	B 249.677†	-196.9	-111.1	-3.1101 ug/L	-3.1101 ppb	17:56:35
2	Ba 233.527†	-5.3	1.7	0.0149 ug/L	0.0149 ppb	17:56:35
2	Be 313.107†	-3528.6	4.7	0.0016 ug/L	0.0016 ppb	17:56:15
2	Cd 226.502†	-140.1	-1.7	-0.0209 ug/L	-0.0209 ppb	17:56:35
2	Co 228.616†	-56.2	-13.9	-0.3581 ug/L	-0.3581 ppb	17:56:35
2	Cr 267.716†	66.7	2.4	0.0298 ug/L	0.0298 ppb	17:56:35
2	Cu 324.752†	6150.5	218.2	0.7003 ug/L	0.7003 ppb	17:56:15
2	Mn 257.610†	398.1	17.3	0.0174 ug/L	0.0174 ppb	17:56:35
2	Mo 202.031†	18.3	4.9	0.4234 ug/L	0.4234 ppb	17:56:35
2	Ni 231.604†	110.6	60.1	1.8941 ug/L	1.8941 ppb	17:56:35

2	P 214.914†	177.9	6.5	4.8228 ug/L	4.8228 ppb	17:56:35
2	Pb 220.353†	-26.8	16.5	2.5641 ug/L	2.5641 ppb	17:56:35
2	S 181.975 Axial†	32.3	2.2	3.9276 ug/L	3.9276 ppb	17:56:35
2	Sb 206.836†	31.2	3.5	1.4653 ug/L	1.4653 ppb	17:56:35
2	Se 196.026†	-16.1	2.8	2.1969 ug/L	2.1969 ppb	17:56:35
2	Si 251.611†	496.6	55.4	2.0478 ug/L	2.0478 ppb	17:56:35
2	Sn 189.927†	12.6	5.0	1.1511 ug/L	1.1511 ppb	17:56:35
2	Ti 334.940†	-1057.4	-120.9	-0.2096 ug/L	-0.2096 ppb	17:56:15
2	Tl 190.801†	-26.9	3.6	1.3992 ug/L	1.3992 ppb	17:56:35
2	U 409.014†	-1916.7	43.4	1.2694 ug/L	1.2694 ppb	17:56:15
2	V 292.402†	-1252.0	-33.4	-0.2470 ug/L	-0.2470 ppb	17:56:15
2	Zn 213.857†	600.7	111.7	1.3465 ug/L	1.3465 ppb	17:56:35
2	SiO2†	532.8	66.3	5.1993 ug/L	5.1993 ppb	17:57:41
3	Sc Radial	3288.1	3288.1	98.1 %		17:55:43
3	Y RADIAL	2689.9	2689.9	98.06 %		17:55:43
3	Al 396.153Radial†	-64.2	-5.4	-11.587 ug/L	-11.587 ppb	17:55:43
3	Ca 317.933Radial†	16.1	6.2	24.585 ug/L	24.585 ppb	17:55:43
3	Fe 238.204 Radial†	10.5	2.1	57.521 ug/L	57.521 ppb	17:55:43
3	K 766.490 Radial†	2095.4	20.7	9.4598 ug/L	9.4598 ppb	17:55:23
3	Mg 279.077 IEC†	2.5	2.1	199.19 ug/L	199.19 ppb	17:55:43
3	Na 589.592 Radial†	-753.0	15.4	5.1267 ug/L	5.1267 ppb	17:55:23
3	Sr 421.552†	25.6	-9.6	-0.0950 ug/L	-0.0950 ppb	17:55:23
3	Sc 361.383	826466.8	826466.8	99.008 %		17:56:40
3	Y 371.029	709602.0	709602.0	99.153 %		17:56:40
3	Ag 328.068†	116.8	-41.1	-0.1886 ug/L	-0.1886 ppb	17:56:40
3	As 188.979†	-21.4	-5.6	-3.1108 ug/L	-3.1108 ppb	17:57:00
3	B 249.677†	-199.9	-111.7	-3.1414 ug/L	-3.1414 ppb	17:57:00
3	Ba 233.527†	21.6	29.0	0.2730 ug/L	0.2730 ppb	17:57:00
3	Be 313.107†	-3525.7	51.5	0.0220 ug/L	0.0220 ppb	17:56:40
3	Cd 226.502†	-149.0	-8.9	-0.1336 ug/L	-0.1336 ppb	17:57:00
3	Co 228.616†	-36.8	6.4	0.1652 ug/L	0.1652 ppb	17:57:00
3	Cr 267.716†	51.8	-13.4	-0.1716 ug/L	-0.1716 ppb	17:57:00
3	Cu 324.752†	6142.6	133.7	0.4333 ug/L	0.4333 ppb	17:56:40
3	Mn 257.610†	379.1	-6.8	-0.0113 ug/L	-0.0113 ppb	17:57:00
3	Mo 202.031†	9.5	-4.2	-0.3539 ug/L	-0.3539 ppb	17:57:00
3	Ni 231.604†	96.7	44.6	1.4062 ug/L	1.4062 ppb	17:57:00
3	P 214.914†	173.4	-0.3	-0.3425 ug/L	-0.3425 ppb	17:57:00
3	Pb 220.353†	-43.9	-0.4	-0.0779 ug/L	-0.0779 ppb	17:57:00
3	S 181.975 Axial†	32.1	1.5	2.7369 ug/L	2.7369 ppb	17:57:00
3	Sb 206.836†	30.7	2.5	1.0195 ug/L	1.0195 ppb	17:57:00
3	Se 196.026†	-24.1	-5.1	-4.0085 ug/L	-4.0085 ppb	17:57:00
3	Si 251.611†	496.4	49.0	1.8212 ug/L	1.8212 ppb	17:57:00
3	Sn 189.927†	6.5	-1.3	-0.2963 ug/L	-0.2963 ppb	17:57:00
3	Ti 334.940†	-1002.8	-52.6	-0.1023 ug/L	-0.1023 ppb	17:56:40
3	Tl 190.801†	-26.4	4.4	1.7132 ug/L	1.7132 ppb	17:57:00
3	U 409.014†	-1979.9	3.5	0.0948 ug/L	0.0948 ppb	17:56:40
3	V 292.402†	-1186.0	48.9	0.3726 ug/L	0.3726 ppb	17:56:40
3	Zn 213.857†	610.2	113.8	1.3627 ug/L	1.3627 ppb	17:57:00
3	SiO2†	505.2	31.8	2.5095 ug/L	2.5095 ppb	17:58:01

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820551.1	98.300 %	0.6300			0.64%
Sc Radial	3383.4	101 %	6.6			6.56%
Y 371.029	704544.5	98.446 %	0.6215			0.63%
Y RADIAL	2772.0	101.0 %	6.71			6.64%
Ag 328.068†	-17.4	-0.0850 ug/L	0.13461	-0.0850 ppb	0.13461	158.32%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.0	8.6350 ug/L	21.43733	8.6350 ppb	21.43733	248.26%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-5.4	-3.0205 ug/L	1.14608	-3.0205 ppb	1.14608	37.94%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-101.6	-2.8496 ug/L	0.47854	-2.8496 ppb	0.47854	16.79%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	15.0	0.1402 ug/L	0.12923	0.1402 ppb	0.12923	92.16%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	35.7	0.0151 ug/L	0.01170	0.0151 ppb	0.01170	77.62%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.7	14.853 ug/L	9.1661	14.853 ppb	9.1661	61.71%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-5.0	-0.0719 ug/L	0.05713	-0.0719 ppb	0.05713	79.41%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-4.1	-0.1056 ug/L	0.26211	-0.1056 ppb	0.26211	248.29%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-3.4	-0.0431 ug/L	0.11165	-0.0431 ppb	0.11165	259.10%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	176.7	0.5698 ug/L	0.13360	0.5698 ppb	0.13360	23.45%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.1	3.3462 ug/L	46.96639	3.3462 ppb	46.96639	>999.9%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	34.5	15.784 ug/L	80.1190	15.784 ppb	80.1190	507.58%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.4	136.50 ug/L	66.602	136.50 ppb	66.602	48.79%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	11.3	0.0095 ug/L	0.01825	0.0095 ppb	0.01825	191.65%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-1.6	-0.1379 ug/L	0.49044	-0.1379 ppb	0.49044	355.57%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	4.1	1.3806 ug/L	13.92551	1.3806 ppb	13.92551	>999.9%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	50.5	1.5927 ug/L	0.26348	1.5927 ppb	0.26348	16.54%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	4.9	3.6124 ug/L	3.50992	3.6124 ppb	3.50992	97.16%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	4.3	0.6647 ug/L	1.65790	0.6647 ppb	1.65790	249.42%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	1.6	2.9210 ug/L	0.92832	2.9210 ppb	0.92832	31.78%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	2.0	0.8376 ug/L	0.73568	0.8376 ppb	0.73568	87.83%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.1	-0.9052 ug/L	3.10268	-0.9052 ppb	3.10268	342.77%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	57.9	2.1496 ug/L	0.38942	2.1496 ppb	0.38942	18.12%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	3.0	0.6860 ug/L	0.85108	0.6860 ppb	0.85108	124.06%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-7.9	-0.0783 ug/L	0.16844	-0.0783 ppb	0.16844	215.20%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-87.7	-0.1574 ug/L	0.05371	-0.1574 ppb	0.05371	34.12%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	5.2	2.0076 ug/L	0.79746	2.0076 ppb	0.79746	39.72%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-55.4	-1.6177 ug/L	4.02649	-1.6177 ppb	4.02649	248.90%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	19.0	0.1459 ug/L	0.34159	0.1459 ppb	0.34159	234.16%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	119.3	1.4357 ug/L	0.14059	1.4357 ppb	0.14059	9.79%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	42.8	3.3662 ug/L	1.58867	3.3662 ppb	1.58867	47.19%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 13
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/9/2010 19:10:20
 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	3292.5	3292.5	98.3 %		19:12:32
1	Y RADIAL	2691.5	2691.5	98.11 %		19:12:32
1	Al 396.153Radial†	2368.6	2470.3	5285.5 ug/L	5285.5 ppb	19:12:12
1	Ca 317.933Radial†	1269.7	1281.8	5087.1 ug/L	5087.1 ppb	19:12:32
1	Fe 238.204 Radial†	197.6	192.5	5364.9 ug/L	5364.9 ppb	19:12:32
1	K 766.490 Radial†	12753.2	10863.2	4966.0 ug/L	4966.0 ppb	19:12:12
1	Mg 279.077 IEC†	52.0	52.4	5087.0 ug/L	5087.0 ppb	19:12:32
1	Na 589.592 Radial†	32537.7	33892.7	11319 ug/L	11319 ppb	19:12:12
1	Sr 421.552†	55902.2	56850.0	563.69 ug/L	563.69 ppb	19:12:12
1	Sc 361.383	854700.3	854700.3	102.39 %		19:13:30
1	Y 371.029	722836.6	722836.6	101.00 %		19:13:30
1	Ag 328.068†	100869.4	98355.2	500.10 ug/L	500.10 ppb	19:13:35
1	As 188.979†	893.8	888.9	498.46 ug/L	498.46 ppb	19:13:55
1	B 249.677†	17655.5	17333.5	483.59 ug/L	483.59 ppb	19:13:35
1	Ba 233.527†	54271.2	53011.3	496.35 ug/L	496.35 ppb	19:13:35
1	Be 313.107†	1177540.6	1153660.2	498.98 ug/L	498.98 ppb	19:13:30
1	Cd 226.502†	34986.3	34311.1	495.85 ug/L	495.85 ppb	19:13:35
1	Co 228.616†	19910.5	19489.2	505.50 ug/L	505.50 ppb	19:13:35
1	Cr 267.716†	39018.0	38041.3	496.92 ug/L	496.92 ppb	19:13:35
1	Cu 324.752†	163528.4	153639.9	494.44 ug/L	494.44 ppb	19:13:35
1	Mn 257.610†	388514.3	379053.7	497.04 ug/L	497.04 ppb	19:13:30
1	Mo 202.031†	5789.4	5640.4	487.32 ug/L	487.32 ppb	19:13:55
1	Ni 231.604†	16429.5	15992.8	503.77 ug/L	503.77 ppb	19:13:35
1	P 214.914†	3472.7	3216.2	2346.2 ug/L	2346.2 ppb	19:13:55
1	Pb 220.353†	3192.7	3162.1	491.04 ug/L	491.04 ppb	19:13:55
1	S 181.975 Axial†	593.6	548.8	977.93 ug/L	977.93 ppb	19:13:55
1	Sb 206.836†	1251.2	1193.5	512.17 ug/L	512.17 ppb	19:13:55
1	Se 196.026†	607.8	612.8	516.36 ug/L	516.36 ppb	19:13:55
1	Si 251.611†	69186.0	67118.3	2482.6 ug/L	2482.6 ppb	19:13:35
1	Sn 189.927†	2228.7	2168.8	493.42 ug/L	493.42 ppb	19:13:55
1	Ti 334.940†	291465.3	285620.5	485.31 ug/L	485.31 ppb	19:13:35
1	Tl 190.801†	1282.6	1283.7	501.20 ug/L	501.20 ppb	19:13:55
1	U 409.014†	15662.5	17299.9	503.48 ug/L	503.48 ppb	19:13:35
1	V 292.402†	63577.2	63339.5	500.91 ug/L	500.91 ppb	19:13:35
1	Zn 213.857†	42605.2	41108.1	494.10 ug/L	494.10 ppb	19:13:35
1	SiO2†	69264.4	67168.8	5263.1 ug/L	5263.1 ppb	19:15:02
2	Sc Radial	3309.4	3309.4	98.8 %		19:12:57
2	Y RADIAL	2715.5	2715.5	98.99 %		19:12:57
2	Al 396.153Radial†	2306.1	2394.7	5122.3 ug/L	5122.3 ppb	19:12:37
2	Ca 317.933Radial†	1276.3	1281.9	5087.3 ug/L	5087.3 ppb	19:12:57
2	Fe 238.204 Radial†	197.0	190.8	5318.9 ug/L	5318.9 ppb	19:12:57
2	K 766.490 Radial†	12619.1	10661.0	4873.5 ug/L	4873.5 ppb	19:12:37
2	Mg 279.077 IEC†	55.6	55.8	5416.4 ug/L	5416.4 ppb	19:12:57
2	Na 589.592 Radial†	31826.9	33003.7	11022 ug/L	11022 ppb	19:12:37
2	Sr 421.552†	54671.9	55313.3	548.45 ug/L	548.45 ppb	19:12:37
2	Sc 361.383	838881.1	838881.1	100.50 %		19:14:01
2	Y 371.029	709946.8	709946.8	99.201 %		19:14:01
2	Ag 328.068†	100013.9	99361.7	505.20 ug/L	505.20 ppb	19:14:06
2	As 188.979†	891.4	903.0	506.29 ug/L	506.29 ppb	19:14:26
2	B 249.677†	17431.3	17435.6	486.44 ug/L	486.44 ppb	19:14:06
2	Ba 233.527†	54073.6	53814.2	503.86 ug/L	503.86 ppb	19:14:06
2	Be 313.107†	1161706.6	1159591.4	501.55 ug/L	501.55 ppb	19:14:01
2	Cd 226.502†	34831.7	34801.5	502.94 ug/L	502.94 ppb	19:14:06
2	Co 228.616†	19767.6	19713.7	511.33 ug/L	511.33 ppb	19:14:06
2	Cr 267.716†	38824.6	38567.4	503.79 ug/L	503.79 ppb	19:14:06
2	Cu 324.752†	161576.9	154709.8	497.88 ug/L	497.88 ppb	19:14:06
2	Mn 257.610†	383480.4	381200.0	499.83 ug/L	499.83 ppb	19:14:01
2	Mo 202.031†	5808.5	5766.0	498.16 ug/L	498.16 ppb	19:14:26
2	Ni 231.604†	16364.6	16230.9	511.27 ug/L	511.27 ppb	19:14:06

2	P 214.914†	3481.8	3289.3	2401.1 ug/L	2401.1 ppb	19:14:26
2	Pb 220.353†	3224.9	3252.9	505.10 ug/L	505.10 ppb	19:14:26
2	S 181.975 Axial†	597.0	563.2	1003.5 ug/L	1003.5 ppb	19:14:26
2	Sb 206.836†	1249.2	1214.5	521.26 ug/L	521.26 ppb	19:14:26
2	Se 196.026†	599.5	615.7	518.58 ug/L	518.58 ppb	19:14:26
2	Si 251.611†	68580.4	67789.9	2507.4 ug/L	2507.4 ppb	19:14:06
2	Sn 189.927†	2227.6	2208.8	502.51 ug/L	502.51 ppb	19:14:26
2	Ti 334.940†	289225.2	288759.5	490.62 ug/L	490.62 ppb	19:14:06
2	Tl 190.801†	1268.8	1293.6	505.05 ug/L	505.05 ppb	19:14:26
2	U 409.014†	15370.4	17297.8	503.41 ug/L	503.41 ppb	19:14:06
2	V 292.402†	63346.6	64281.0	508.42 ug/L	508.42 ppb	19:14:06
2	Zn 213.857†	42323.4	41612.3	500.17 ug/L	500.17 ppb	19:14:06
2	SiO2†	69665.0	68843.1	5394.3 ug/L	5394.3 ppb	19:15:07
3	Sc Radial	3302.8	3302.8	98.6 %		19:13:23
3	Y RADIAL	2699.9	2699.9	98.42 %		19:13:23
3	Al 396.153Radial†	2335.4	2429.1	5196.7 ug/L	5196.7 ppb	19:13:02
3	Ca 317.933Radial†	1272.5	1280.7	5082.4 ug/L	5082.4 ppb	19:13:23
3	Fe 238.204 Radial†	192.7	186.8	5207.9 ug/L	5207.9 ppb	19:13:23
3	K 766.490 Radial†	12687.9	10756.3	4917.1 ug/L	4917.1 ppb	19:13:02
3	Mg 279.077 IEC†	54.6	54.9	5330.1 ug/L	5330.1 ppb	19:13:23
3	Na 589.592 Radial†	32104.1	33349.4	11137 ug/L	11137 ppb	19:13:02
3	Sr 421.552†	55125.8	55884.6	554.12 ug/L	554.12 ppb	19:13:02
3	Sc 361.383	850641.7	850641.7	101.90 %		19:14:32
3	Y 371.029	721192.7	721192.7	100.77 %		19:14:32
3	Ag 328.068†	100101.1	98071.3	498.61 ug/L	498.61 ppb	19:14:37
3	As 188.979†	887.7	887.1	497.38 ug/L	497.38 ppb	19:14:57
3	B 249.677†	17478.1	17241.7	481.04 ug/L	481.04 ppb	19:14:37
3	Ba 233.527†	53885.8	52886.0	495.17 ug/L	495.17 ppb	19:14:37
3	Be 313.107†	1178730.0	1160314.4	501.85 ug/L	501.85 ppb	19:14:32
3	Cd 226.502†	34734.1	34226.5	494.64 ug/L	494.64 ppb	19:14:37
3	Co 228.616†	19740.0	19414.6	503.57 ug/L	503.57 ppb	19:14:37
3	Cr 267.716†	38705.3	37916.3	495.28 ug/L	495.28 ppb	19:14:37
3	Cu 324.752†	161999.5	152901.6	492.06 ug/L	492.06 ppb	19:14:37
3	Mn 257.610†	387184.0	379558.7	497.68 ug/L	497.68 ppb	19:14:32
3	Mo 202.031†	5803.2	5681.0	490.81 ug/L	490.81 ppb	19:14:57
3	Ni 231.604†	16307.9	15950.1	502.43 ug/L	502.43 ppb	19:14:37
3	P 214.914†	3459.2	3219.2	2349.1 ug/L	2349.1 ppb	19:14:57
3	Pb 220.353†	3188.4	3172.8	492.71 ug/L	492.71 ppb	19:14:57
3	S 181.975 Axial†	584.5	542.7	967.01 ug/L	967.01 ppb	19:14:57
3	Sb 206.836†	1246.9	1195.1	512.92 ug/L	512.92 ppb	19:14:57
3	Se 196.026†	601.9	609.8	513.47 ug/L	513.47 ppb	19:14:57
3	Si 251.611†	68471.9	66739.9	2468.6 ug/L	2468.6 ppb	19:14:37
3	Sn 189.927†	2219.4	2170.1	493.72 ug/L	493.72 ppb	19:14:57
3	Ti 334.940†	289170.6	284726.9	483.77 ug/L	483.77 ppb	19:14:37
3	Tl 190.801†	1260.4	1267.9	495.06 ug/L	495.06 ppb	19:14:57
3	U 409.014†	15660.2	17370.7	505.57 ug/L	505.57 ppb	19:14:37
3	V 292.402†	63262.3	63326.8	500.89 ug/L	500.89 ppb	19:14:37
3	Zn 213.857†	42212.4	40921.1	491.87 ug/L	491.87 ppb	19:14:37
3	SiO2†	68093.9	66342.9	5198.1 ug/L	5198.1 ppb	19:15:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	848074.4	101.60 %	0.984			0.97%
Sc Radial	3301.6	98.5 %	0.25			0.26%
Y 371.029	717992.0	100.33 %	0.980			0.98%
Y RADIAL	2702.3	98.51 %	0.444			0.45%
Ag 328.068†	98596.1	501.30 ug/L	3.454	501.30 ppb	3.454	0.69%
QC value within limits for Ag 328.068 Recovery = 100.26%						
Al 396.153Radial†	2431.3	5201.5 ug/L	81.67	5201.5 ppb	81.67	1.57%
QC value within limits for Al 396.153Radial Recovery = 104.03%						
As 188.979†	893.0	500.71 ug/L	4.863	500.71 ppb	4.863	0.97%
QC value within limits for As 188.979 Recovery = 100.14%						
B 249.677†	17336.9	483.69 ug/L	2.699	483.69 ppb	2.699	0.56%
QC value within limits for B 249.677 Recovery = 96.74%						
Ba 233.527†	53237.2	498.46 ug/L	4.714	498.46 ppb	4.714	0.95%
QC value within limits for Ba 233.527 Recovery = 99.69%						
Be 313.107†	1157855.3	500.80 ug/L	1.577	500.80 ppb	1.577	0.31%
QC value within limits for Be 313.107 Recovery = 100.16%						
Ca 317.933Radial†	1281.5	5085.6 ug/L	2.78	5085.6 ppb	2.78	0.05%

QC value within limits for Ca 317.933 Radial Recovery = 101.71%

Cd 226.502†	34446.4	497.81 ug/L	4.488	497.81 ppb	4.488	0.90%
QC value within limits for Cd 226.502 Recovery = 99.56%						
Co 228.616†	19539.2	506.80 ug/L	4.040	506.80 ppb	4.040	0.80%
QC value within limits for Co 228.616 Recovery = 101.36%						
Cr 267.716†	38175.0	498.66 ug/L	4.515	498.66 ppb	4.515	0.91%
QC value within limits for Cr 267.716 Recovery = 99.73%						
Cu 324.752†	153750.4	494.80 ug/L	2.929	494.80 ppb	2.929	0.59%
QC value within limits for Cu 324.752 Recovery = 98.96%						
Fe 238.204 Radial†	190.0	5297.2 ug/L	80.74	5297.2 ppb	80.74	1.52%
QC value within limits for Fe 238.204 Radial Recovery = 105.94%						
K 766.490 Radial†	10760.1	4918.9 ug/L	46.25	4918.9 ppb	46.25	0.94%
QC value within limits for K 766.490 Radial Recovery = 98.38%						
Mg 279.077 IEC†	54.4	5277.8 ug/L	170.85	5277.8 ppb	170.85	3.24%
QC value within limits for Mg 279.077 IEC Recovery = 105.56%						
Mn 257.610†	379937.5	498.18 ug/L	1.465	498.18 ppb	1.465	0.29%
QC value within limits for Mn 257.610 Recovery = 99.64%						
Mo 202.031†	5695.8	492.10 ug/L	5.532	492.10 ppb	5.532	1.12%
QC value within limits for Mo 202.031 Recovery = 98.42%						
Na 589.592 Radial†	33415.3	11159 ug/L	149.7	11159 ppb	149.7	1.34%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 111.59%						
Ni 231.604†	16057.9	505.82 ug/L	4.767	505.82 ppb	4.767	0.94%
QC value within limits for Ni 231.604 Recovery = 101.16%						
P 214.914†	3241.6	2365.5 ug/L	30.89	2365.5 ppb	30.89	1.31%
QC value within limits for P 214.914 Recovery = 94.62%						
Pb 220.353†	3195.9	496.28 ug/L	7.681	496.28 ppb	7.681	1.55%
QC value within limits for Pb 220.353 Recovery = 99.26%						
S 181.975 Axial†	551.6	982.83 ug/L	18.751	982.83 ppb	18.751	1.91%
QC value within limits for S 181.975 Axial Recovery = 98.28%						
Sb 206.836†	1201.1	515.45 ug/L	5.047	515.45 ppb	5.047	0.98%
QC value within limits for Sb 206.836 Recovery = 103.09%						
Se 196.026†	612.8	516.14 ug/L	2.559	516.14 ppb	2.559	0.50%
QC value within limits for Se 196.026 Recovery = 103.23%						
Si 251.611†	67216.0	2486.2 ug/L	19.66	2486.2 ppb	19.66	0.79%
QC value within limits for Si 251.611 Recovery = 99.45%						
Sn 189.927†	2182.6	496.55 ug/L	5.165	496.55 ppb	5.165	1.04%
QC value within limits for Sn 189.927 Recovery = 99.31%						
Sr 421.552†	56016.0	555.42 ug/L	7.702	555.42 ppb	7.702	1.39%
QC value greater than the upper limit for Sr 421.552 Recovery = 111.08%						
Ti 334.940†	286368.9	486.57 ug/L	3.591	486.57 ppb	3.591	0.74%
QC value within limits for Ti 334.940 Recovery = 97.31%						
Tl 190.801†	1281.7	500.43 ug/L	5.039	500.43 ppb	5.039	1.01%
QC value within limits for Tl 190.801 Recovery = 100.09%						
U 409.014†	17322.8	504.15 ug/L	1.227	504.15 ppb	1.227	0.24%
QC value within limits for U 409.014 Recovery = 100.83%						
V 292.402†	63649.1	503.41 ug/L	4.339	503.41 ppb	4.339	0.86%
QC value within limits for V 292.402 Recovery = 100.68%						
Zn 213.857†	41213.8	495.38 ug/L	4.298	495.38 ppb	4.298	0.87%
QC value within limits for Zn 213.857 Recovery = 99.08%						
SiO2†	67451.6	5285.2 ug/L	99.95	5285.2 ppb	99.95	1.89%
QC value within limits for SiO2 Recovery = 98.83%						

QC Failed. Continue with analysis.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/9/2010 19:17:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3305.0	3305.0	98.6 %		19:19:35
1	Y RADIAL	2719.2	2719.2	99.12 %		19:19:35
1	Al 396.153Radial†	-64.7	-5.6	-12.004 ug/L	-12.004 ppb	19:19:35
1	Ca 317.933Radial†	10.8	0.7	2.7454 ug/L	2.7454 ppb	19:19:35
1	Fe 238.204 Radial†	8.3	-0.3	-7.3554 ug/L	-7.3554 ppb	19:19:35
1	K 766.490 Radial†	2057.9	-28.3	-12.936 ug/L	-12.936 ppb	19:19:15
1	Mg 279.077 IEC†	0.3	-0.1	-12.189 ug/L	-12.189 ppb	19:19:35
1	Na 589.592 Radial†	-802.9	-31.3	-10.454 ug/L	-10.454 ppb	19:19:15
1	Sr 421.552†	0.4	-35.3	-0.3496 ug/L	-0.3496 ppb	19:19:15
1	Sc 361.383	827842.1	827842.1	99.173 %		19:20:31
1	Y 371.029	709656.8	709656.8	99.161 %		19:20:31
1	Ag 328.068†	178.8	21.2	0.1068 ug/L	0.1068 ppb	19:20:31
1	As 188.979†	-18.8	-3.0	-1.6845 ug/L	-1.6845 ppb	19:20:51
1	B 249.677†	-255.8	-167.7	-4.6994 ug/L	-4.6994 ppb	19:20:51
1	Ba 233.527†	8.9	16.1	0.1508 ug/L	0.1508 ppb	19:20:51
1	Be 313.107†	-3501.5	81.8	0.0351 ug/L	0.0351 ppb	19:20:31
1	Cd 226.502†	-149.4	-9.1	-0.1304 ug/L	-0.1304 ppb	19:20:51
1	Co 228.616†	-39.4	3.8	0.0973 ug/L	0.0973 ppb	19:20:51
1	Cr 267.716†	75.9	10.8	0.1420 ug/L	0.1420 ppb	19:20:51
1	Cu 324.752†	6091.3	71.6	0.2309 ug/L	0.2309 ppb	19:20:31
1	Mn 257.610†	371.8	-14.8	-0.0196 ug/L	-0.0196 ppb	19:20:51
1	Mo 202.031†	5.9	-7.8	-0.6733 ug/L	-0.6733 ppb	19:20:51
1	Ni 231.604†	92.4	40.1	1.2641 ug/L	1.2641 ppb	19:20:51
1	P 214.914†	190.9	17.1	12.973 ug/L	12.973 ppb	19:20:51
1	Pb 220.353†	-38.9	4.7	0.7289 ug/L	0.7289 ppb	19:20:51
1	S 181.975 Axial†	28.7	-1.9	-3.4610 ug/L	-3.4610 ppb	19:20:51
1	Sb 206.836†	38.2	10.0	4.1316 ug/L	4.1316 ppb	19:20:51
1	Se 196.026†	-19.7	-0.6	-0.5238 ug/L	-0.5238 ppb	19:20:51
1	Si 251.611†	497.3	49.1	1.8271 ug/L	1.8271 ppb	19:20:51
1	Sn 189.927†	6.0	-1.7	-0.3961 ug/L	-0.3961 ppb	19:20:51
1	Ti 334.940†	-1003.4	-51.5	-0.0855 ug/L	-0.0855 ppb	19:20:31
1	Tl 190.801†	-29.2	1.6	0.6217 ug/L	0.6217 ppb	19:20:51
1	U 409.014†	-2039.4	-53.2	-1.5541 ug/L	-1.5541 ppb	19:20:31
1	V 292.402†	-1219.8	16.8	0.1193 ug/L	0.1193 ppb	19:20:31
1	Zn 213.857†	576.3	78.7	0.9474 ug/L	0.9474 ppb	19:20:51
1	SiO2†	480.0	5.6	0.4551 ug/L	0.4551 ppb	19:22:02
2	Sc Radial	3263.8	3263.8	97.4 %		19:20:00
2	Y RADIAL	2687.8	2687.8	97.98 %		19:20:00
2	Al 396.153Radial†	-66.1	-7.8	-16.828 ug/L	-16.828 ppb	19:20:00
2	Ca 317.933Radial†	12.8	2.9	11.664 ug/L	11.664 ppb	19:20:00
2	Fe 238.204 Radial†	9.4	1.1	29.631 ug/L	29.631 ppb	19:20:00
2	K 766.490 Radial†	2182.2	125.7	57.524 ug/L	57.524 ppb	19:19:40
2	Mg 279.077 IEC†	1.1	0.6	61.352 ug/L	61.352 ppb	19:20:00
2	Na 589.592 Radial†	-803.1	-41.8	-13.949 ug/L	-13.949 ppb	19:19:40
2	Sr 421.552†	7.6	-27.9	-0.2765 ug/L	-0.2765 ppb	19:19:40
2	Sc 361.383	834882.8	834882.8	100.02 %		19:20:57
2	Y 371.029	716026.4	716026.4	100.05 %		19:20:57
2	Ag 328.068†	159.4	0.3	0.0159 ug/L	0.0159 ppb	19:20:57
2	As 188.979†	-21.6	-5.6	-3.1254 ug/L	-3.1254 ppb	19:21:17
2	B 249.677†	-264.3	-174.0	-4.8822 ug/L	-4.8822 ppb	19:21:17
2	Ba 233.527†	6.8	14.0	0.1322 ug/L	0.1322 ppb	19:21:17
2	Be 313.107†	-3496.1	117.0	0.0504 ug/L	0.0504 ppb	19:20:57
2	Cd 226.502†	-157.8	-16.2	-0.2368 ug/L	-0.2368 ppb	19:21:17
2	Co 228.616†	-50.0	-6.4	-0.1670 ug/L	-0.1670 ppb	19:21:17
2	Cr 267.716†	62.9	-2.8	-0.0333 ug/L	-0.0333 ppb	19:21:17
2	Cu 324.752†	6121.3	49.9	0.1645 ug/L	0.1645 ppb	19:20:57
2	Mn 257.610†	385.3	-4.4	-0.0054 ug/L	-0.0054 ppb	19:21:17
2	Mo 202.031†	14.7	0.9	0.0790 ug/L	0.0790 ppb	19:21:17
2	Ni 231.604†	105.9	52.8	1.6653 ug/L	1.6653 ppb	19:21:17

2	P 214.914†	169.1	-6.4	-4.9039 ug/L	-4.9039 ppb	19:21:17
2	Pb 220.353†	-34.4	9.5	1.4621 ug/L	1.4621 ppb	19:21:17
2	S 181.975 Axial†	29.7	-1.2	-2.0577 ug/L	-2.0577 ppb	19:21:17
2	Sb 206.836†	28.5	0.0	0.0040 ug/L	0.0040 ppb	19:21:17
2	Se 196.026†	-22.4	-3.2	-2.4916 ug/L	-2.4916 ppb	19:21:17
2	Si 251.611†	488.9	36.4	1.3493 ug/L	1.3493 ppb	19:21:17
2	Sn 189.927†	5.9	-1.9	-0.4386 ug/L	-0.4386 ppb	19:21:17
2	Ti 334.940†	-996.6	-36.2	-0.0631 ug/L	-0.0631 ppb	19:20:57
2	Tl 190.801†	-27.9	3.2	1.2377 ug/L	1.2377 ppb	19:21:17
2	U 409.014†	-2152.0	-148.5	-4.3408 ug/L	-4.3408 ppb	19:20:57
2	V 292.402†	-1190.2	56.8	0.4330 ug/L	0.4330 ppb	19:20:57
2	Zn 213.857†	573.3	70.8	0.8436 ug/L	0.8436 ppb	19:21:17
2	SiO2†	495.7	17.1	1.3406 ug/L	1.3406 ppb	19:22:22
3	Sc Radial	3281.7	3281.7	97.9 %		19:20:25
3	Y RADIAL	2702.3	2702.3	98.51 %		19:20:25
3	Al 396.153Radial†	-63.9	-5.2	-11.273 ug/L	-11.273 ppb	19:20:25
3	Ca 317.933Radial†	9.8	-0.2	-0.8300 ug/L	-0.8300 ppb	19:20:25
3	Fe 238.204 Radial†	8.3	-0.2	-5.3618 ug/L	-5.3618 ppb	19:20:25
3	K 766.490 Radial†	2079.6	8.7	4.0038 ug/L	4.0038 ppb	19:20:05
3	Mg 279.077 IEC†	2.5	2.1	205.36 ug/L	205.36 ppb	19:20:25
3	Na 589.592 Radial†	-843.4	-78.4	-26.198 ug/L	-26.198 ppb	19:20:05
3	Sr 421.552†	8.8	-26.7	-0.2648 ug/L	-0.2648 ppb	19:20:05
3	Sc 361.383	838221.9	838221.9	100.42 %		19:21:22
3	Y 371.029	718897.9	718897.9	100.45 %		19:21:22
3	Ag 328.068†	103.2	-56.3	-0.2842 ug/L	-0.2842 ppb	19:21:22
3	As 188.979†	-14.5	1.5	0.8262 ug/L	0.8262 ppb	19:21:42
3	B 249.677†	-268.3	-177.0	-4.9604 ug/L	-4.9604 ppb	19:21:42
3	Ba 233.527†	-3.5	3.7	0.0346 ug/L	0.0346 ppb	19:21:42
3	Be 313.107†	-3484.2	142.8	0.0616 ug/L	0.0616 ppb	19:21:22
3	Cd 226.502†	-146.5	-4.3	-0.0610 ug/L	-0.0610 ppb	19:21:42
3	Co 228.616†	-44.7	-0.9	-0.0239 ug/L	-0.0239 ppb	19:21:42
3	Cr 267.716†	66.6	0.6	0.0087 ug/L	0.0087 ppb	19:21:42
3	Cu 324.752†	6085.4	-10.3	-0.0326 ug/L	-0.0326 ppb	19:21:22
3	Mn 257.610†	373.9	-17.4	-0.0317 ug/L	-0.0317 ppb	19:21:42
3	Mo 202.031†	14.9	1.1	0.0908 ug/L	0.0908 ppb	19:21:42
3	Ni 231.604†	104.1	50.7	1.5970 ug/L	1.5970 ppb	19:21:42
3	P 214.914†	168.3	-7.8	-5.9435 ug/L	-5.9435 ppb	19:21:42
3	Pb 220.353†	-47.8	-3.7	-0.5748 ug/L	-0.5748 ppb	19:21:42
3	S 181.975 Axial†	26.3	-4.7	-8.2989 ug/L	-8.2989 ppb	19:21:42
3	Sb 206.836†	16.4	-12.1	-5.0243 ug/L	-5.0243 ppb	19:21:42
3	Se 196.026†	-19.4	-0.1	-0.1355 ug/L	-0.1355 ppb	19:21:42
3	Si 251.611†	496.7	42.3	1.5660 ug/L	1.5660 ppb	19:21:42
3	Sn 189.927†	4.1	-3.7	-0.8505 ug/L	-0.8505 ppb	19:21:42
3	Ti 334.940†	-967.4	-3.1	-0.0216 ug/L	-0.0216 ppb	19:21:22
3	Tl 190.801†	-27.3	3.9	1.5199 ug/L	1.5199 ppb	19:21:42
3	U 409.014†	-2061.1	-49.4	-1.4420 ug/L	-1.4420 ppb	19:21:22
3	V 292.402†	-1233.4	18.5	0.1478 ug/L	0.1478 ppb	19:21:22
3	Zn 213.857†	566.3	61.5	0.7374 ug/L	0.7374 ppb	19:21:42
3	SiO2†	481.5	1.0	0.0752 ug/L	0.0752 ppb	19:22:43

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	833648.9	99.869 %	0.6348			0.64%
Sc Radial	3283.5	98.0 %	0.62			0.63%
Y 371.029	714860.3	99.888 %	0.6609			0.66%
Y RADIAL	2703.1	98.54 %	0.574			0.58%
Ag 328.068†	-11.6	-0.0538 ug/L	0.20463	-0.0538 ppb	0.20463	380.03%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.2	-13.368 ug/L	3.0181	-13.368 ppb	3.0181	22.58%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.4	-1.3279 ug/L	1.99980	-1.3279 ppb	1.99980	150.60%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-172.9	-4.8473 ug/L	0.13391	-4.8473 ppb	0.13391	2.76%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	11.3	0.1059 ug/L	0.06242	0.1059 ppb	0.06242	58.97%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	113.9	0.0490 ug/L	0.01330	0.0490 ppb	0.01330	27.13%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.1	4.5264 ug/L	6.43455	4.5264 ppb	6.43455	142.16%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-9.9	-0.1427 ug/L	0.08855	-0.1427 ppb	0.08855	62.03%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-1.2	-0.0312 ug/L	0.13227	-0.0312 ppb	0.13227	423.97%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	2.9	0.0391 ug/L	0.09150	0.0391 ppb	0.09150	233.72%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	37.1	0.1209 ug/L	0.13705	0.1209 ppb	0.13705	113.32%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.2	5.6380 ug/L	20.80258	5.6380 ppb	20.80258	368.97%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	35.4	16.197 ug/L	36.7788	16.197 ppb	36.7788	227.07%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.9	84.843 ug/L	110.6628	84.843 ppb	110.6628	130.43%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-12.2	-0.0189 ug/L	0.01317	-0.0189 ppb	0.01317	69.76%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-2.0	-0.1679 ug/L	0.43776	-0.1679 ppb	0.43776	260.78%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-50.5	-16.867 ug/L	8.2678	-16.867 ppb	8.2678	49.02%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	47.9	1.5088 ug/L	0.21464	1.5088 ppb	0.21464	14.23%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	1.0	0.7085 ug/L	10.63410	0.7085 ppb	10.63410	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	3.5	0.5388 ug/L	1.03165	0.5388 ppb	1.03165	191.49%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-2.6	-4.6059 ug/L	3.27432	-4.6059 ppb	3.27432	71.09%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-0.7	-0.2962 ug/L	4.58533	-0.2962 ppb	4.58533	>999.9%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.3	-1.0503 ug/L	1.26321	-1.0503 ppb	1.26321	120.27%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	42.6	1.5808 ug/L	0.23925	1.5808 ppb	0.23925	15.13%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-2.5	-0.5617 ug/L	0.25098	-0.5617 ppb	0.25098	44.68%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-29.9	-0.2970 ug/L	0.04593	-0.2970 ppb	0.04593	15.46%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-30.3	-0.0567 ug/L	0.03242	-0.0567 ppb	0.03242	57.17%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.9	1.1264 ug/L	0.45934	1.1264 ppb	0.45934	40.78%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-83.7	-2.4456 ug/L	1.64222	-2.4456 ppb	1.64222	67.15%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	30.7	0.2334 ug/L	0.17345	0.2334 ppb	0.17345	74.33%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	70.3	0.8428 ug/L	0.10503	0.8428 ppb	0.10503	12.46%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	7.9	0.6236 ug/L	0.64934	0.6236 ppb	0.64934	104.12%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 23
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/9/2010 20:21:23
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3287.1	3287.1	98.1 %		20:23:35
1	Y RADIAL	2664.6	2664.6	97.13 %		20:23:35
1	Al 396.153Radial†	2305.3	2409.7	5154.3 ug/L	5154.3 ppb	20:23:15
1	Ca 317.933Radial†	1281.8	1296.3	5144.3 ug/L	5144.3 ppb	20:23:35
1	Fe 238.204 Radial†	193.3	188.4	5252.1 ug/L	5252.1 ppb	20:23:35
1	K 766.490 Radial†	12848.4	10981.4	5020.2 ug/L	5020.2 ppb	20:23:15
1	Mg 279.077 IEC†	53.5	54.1	5252.3 ug/L	5252.3 ppb	20:23:35
1	Na 589.592 Radial†	31051.2	32431.9	10831 ug/L	10831 ppb	20:23:15
1	Sr 421.552†	54166.6	55174.2	547.07 ug/L	547.07 ppb	20:23:15
1	Sc 361.383	839243.1	839243.1	100.54 %		20:24:32
1	Y 371.029	709912.0	709912.0	99.196 %		20:24:32
1	Ag 328.068†	100441.6	99744.2	507.11 ug/L	507.11 ppb	20:24:37
1	As 188.979†	897.4	908.6	509.37 ug/L	509.37 ppb	20:24:57
1	B 249.677†	17545.2	17541.4	489.40 ug/L	489.40 ppb	20:24:37
1	Ba 233.527†	54470.7	54185.9	507.33 ug/L	507.33 ppb	20:24:37
1	Be 313.107†	1171341.3	1168675.7	505.48 ug/L	505.48 ppb	20:24:32
1	Cd 226.502†	35155.5	35108.7	507.39 ug/L	507.39 ppb	20:24:37
1	Co 228.616†	19994.3	19930.7	516.97 ug/L	516.97 ppb	20:24:37
1	Cr 267.716†	39036.9	38761.9	506.32 ug/L	506.32 ppb	20:24:37
1	Cu 324.752†	162407.4	155466.5	500.31 ug/L	500.31 ppb	20:24:37
1	Mn 257.610†	381195.6	378762.8	496.64 ug/L	496.64 ppb	20:24:37
1	Mo 202.031†	5895.5	5850.1	505.41 ug/L	505.41 ppb	20:24:57
1	Ni 231.604†	16482.3	16340.9	514.74 ug/L	514.74 ppb	20:24:37
1	P 214.914†	3531.5	3337.2	2437.1 ug/L	2437.1 ppb	20:24:57
1	Pb 220.353†	3259.7	3286.1	510.28 ug/L	510.28 ppb	20:24:57
1	S 181.975 Axial†	605.4	571.3	1018.1 ug/L	1018.1 ppb	20:24:57
1	Sb 206.836†	1265.5	1230.2	528.00 ug/L	528.00 ppb	20:24:57
1	Se 196.026†	614.3	630.2	530.20 ug/L	530.20 ppb	20:24:57
1	Si 251.611†	69054.5	68231.9	2523.7 ug/L	2523.7 ppb	20:24:37
1	Sn 189.927†	2254.8	2234.9	508.45 ug/L	508.45 ppb	20:24:57
1	Ti 334.940†	291020.3	290420.8	493.46 ug/L	493.46 ppb	20:24:37
1	Tl 190.801†	1289.6	1313.7	512.84 ug/L	512.84 ppb	20:24:57
1	U 409.014†	15488.4	17408.5	506.64 ug/L	506.64 ppb	20:24:37
1	V 292.402†	63615.4	64521.2	510.40 ug/L	510.40 ppb	20:24:37
1	Zn 213.857†	42539.8	41809.4	502.55 ug/L	502.55 ppb	20:24:37
1	SiO2†	69055.4	68206.8	5344.2 ug/L	5344.2 ppb	20:26:04
2	Sc Radial	3271.7	3271.7	97.7 %		20:24:00
2	Y RADIAL	2668.2	2668.2	97.26 %		20:24:00
2	Al 396.153Radial†	2246.2	2360.2	5048.3 ug/L	5048.3 ppb	20:23:40
2	Ca 317.933Radial†	1275.3	1295.8	5142.4 ug/L	5142.4 ppb	20:24:00
2	Fe 238.204 Radial†	191.3	187.3	5221.3 ug/L	5221.3 ppb	20:24:00
2	K 766.490 Radial†	12808.5	11002.1	5029.8 ug/L	5029.8 ppb	20:23:40
2	Mg 279.077 IEC†	54.5	55.3	5368.4 ug/L	5368.4 ppb	20:24:00
2	Na 589.592 Radial†	30033.3	31538.2	10532 ug/L	10532 ppb	20:23:40
2	Sr 421.552†	52538.4	53766.3	533.11 ug/L	533.11 ppb	20:23:40
2	Sc 361.383	844914.4	844914.4	101.22 %		20:25:03
2	Y 371.029	713324.7	713324.7	99.673 %		20:25:03
2	Ag 328.068†	100372.9	99005.7	503.35 ug/L	503.35 ppb	20:25:08
2	As 188.979†	894.6	899.8	504.47 ug/L	504.47 ppb	20:25:28
2	B 249.677†	17546.8	17425.9	486.18 ug/L	486.18 ppb	20:25:08
2	Ba 233.527†	54311.4	53664.9	502.46 ug/L	502.46 ppb	20:25:08
2	Be 313.107†	1173281.2	1162772.1	502.93 ug/L	502.93 ppb	20:25:03
2	Cd 226.502†	35136.8	34855.5	503.74 ug/L	503.74 ppb	20:25:08
2	Co 228.616†	19971.6	19774.8	512.92 ug/L	512.92 ppb	20:25:08
2	Cr 267.716†	38917.1	38383.0	501.37 ug/L	501.37 ppb	20:25:08
2	Cu 324.752†	162417.5	154392.2	496.85 ug/L	496.85 ppb	20:25:08
2	Mn 257.610†	380623.2	375652.3	492.56 ug/L	492.56 ppb	20:25:08
2	Mo 202.031†	5855.8	5771.6	498.63 ug/L	498.63 ppb	20:25:28
2	Ni 231.604†	16425.9	16175.2	509.52 ug/L	509.52 ppb	20:25:08

2	P 214.914†	3518.2	3300.5	2409.9 ug/L	2409.9 ppb	20:25:28
2	Pb 220.353†	3255.3	3260.0	506.21 ug/L	506.21 ppb	20:25:28
2	S 181.975 Axial†	599.3	561.2	1000.1 ug/L	1000.1 ppb	20:25:28
2	Sb 206.836†	1268.5	1224.7	525.51 ug/L	525.51 ppb	20:25:28
2	Se 196.026†	602.6	614.5	517.31 ug/L	517.31 ppb	20:25:28
2	Si 251.611†	69087.2	67803.2	2507.9 ug/L	2507.9 ppb	20:25:08
2	Sn 189.927†	2250.0	2215.1	503.95 ug/L	503.95 ppb	20:25:28
2	Ti 334.940†	290715.7	288176.9	489.63 ug/L	489.63 ppb	20:25:08
2	Tl 190.801†	1282.4	1298.1	506.74 ug/L	506.74 ppb	20:25:28
2	U 409.014†	15845.3	17657.7	513.93 ug/L	513.93 ppb	20:25:08
2	V 292.402†	63454.5	63937.5	505.78 ug/L	505.78 ppb	20:25:08
2	Zn 213.857†	42496.7	41482.7	498.63 ug/L	498.63 ppb	20:25:08
2	SiO2†	68445.1	67142.8	5260.8 ug/L	5260.8 ppb	20:26:09
3	Sc Radial	3280.9	3280.9	97.9 %		20:24:25
3	Y RADIAL	2679.9	2679.9	97.69 %		20:24:25
3	Al 396.153Radial†	2297.0	2405.7	5145.9 ug/L	5145.9 ppb	20:24:05
3	Ca 317.933Radial†	1280.3	1297.2	5148.2 ug/L	5148.2 ppb	20:24:25
3	Fe 238.204 Radial†	192.5	188.0	5240.8 ug/L	5240.8 ppb	20:24:25
3	K 766.490 Radial†	12827.1	10984.4	5021.8 ug/L	5021.8 ppb	20:24:05
3	Mg 279.077 IEC†	56.0	56.7	5502.2 ug/L	5502.2 ppb	20:24:25
3	Na 589.592 Radial†	29898.4	31314.4	10458 ug/L	10458 ppb	20:24:05
3	Sr 421.552†	52789.9	53872.6	534.16 ug/L	534.16 ppb	20:24:05
3	Sc 361.383	838426.3	838426.3	100.44 %		20:25:34
3	Y 371.029	708810.5	708810.5	99.042 %		20:25:34
3	Ag 328.068†	101156.3	100553.0	511.20 ug/L	511.20 ppb	20:25:39
3	As 188.979†	882.3	894.4	501.54 ug/L	501.54 ppb	20:25:59
3	B 249.677†	17833.3	17845.3	497.92 ug/L	497.92 ppb	20:25:39
3	Ba 233.527†	54476.3	54244.3	507.89 ug/L	507.89 ppb	20:25:39
3	Be 313.107†	1163255.1	1161760.0	502.50 ug/L	502.50 ppb	20:25:34
3	Cd 226.502†	35172.8	35160.0	508.14 ug/L	508.14 ppb	20:25:39
3	Co 228.616†	19966.8	19922.7	516.75 ug/L	516.75 ppb	20:25:39
3	Cr 267.716†	39190.1	38952.3	508.81 ug/L	508.81 ppb	20:25:39
3	Cu 324.752†	164139.3	157348.2	506.37 ug/L	506.37 ppb	20:25:39
3	Mn 257.610†	382275.7	380207.5	498.52 ug/L	498.52 ppb	20:25:39
3	Mo 202.031†	5838.6	5799.2	501.02 ug/L	501.02 ppb	20:25:59
3	Ni 231.604†	16483.5	16358.1	515.28 ug/L	515.28 ppb	20:25:39
3	P 214.914†	3516.1	3325.3	2426.9 ug/L	2426.9 ppb	20:25:59
3	Pb 220.353†	3240.4	3270.1	507.79 ug/L	507.79 ppb	20:25:59
3	S 181.975 Axial†	596.5	563.0	1003.2 ug/L	1003.2 ppb	20:25:59
3	Sb 206.836†	1256.0	1222.0	524.50 ug/L	524.50 ppb	20:25:59
3	Se 196.026†	611.6	628.2	528.49 ug/L	528.49 ppb	20:25:59
3	Si 251.611†	69421.1	68663.9	2539.8 ug/L	2539.8 ppb	20:25:39
3	Sn 189.927†	2249.6	2231.9	507.78 ug/L	507.78 ppb	20:25:59
3	Ti 334.940†	292440.2	292116.4	496.32 ug/L	496.32 ppb	20:25:39
3	Tl 190.801†	1288.7	1314.1	513.02 ug/L	513.02 ppb	20:25:59
3	U 409.014†	15673.8	17608.2	512.47 ug/L	512.47 ppb	20:25:39
3	V 292.402†	63933.5	64899.5	513.31 ug/L	513.31 ppb	20:25:39
3	Zn 213.857†	42763.8	42073.6	505.75 ug/L	505.75 ppb	20:25:39
3	SiO2†	69128.2	68346.2	5355.2 ug/L	5355.2 ppb	20:26:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	840861.3	100.73 %	0.423			0.42%
Sc Radial	3279.9	97.9 %	0.23			0.24%
Y 371.029	710682.4	99.304 %	0.3289			0.33%
Y RADIAL	2670.9	97.36 %	0.291			0.30%
Ag 328.068†	99767.6	507.22 ug/L	3.929	507.22 ppb	3.929	0.77%
QC value within limits for Ag 328.068 Recovery = 101.44%						
Al 396.153Radial†	2391.9	5116.2 ug/L	58.93	5116.2 ppb	58.93	1.15%
QC value within limits for Al 396.153Radial Recovery = 102.32%						
As 188.979†	900.9	505.12 ug/L	3.958	505.12 ppb	3.958	0.78%
QC value within limits for As 188.979 Recovery = 101.02%						
B 249.677†	17604.2	491.17 ug/L	6.067	491.17 ppb	6.067	1.24%
QC value within limits for B 249.677 Recovery = 98.23%						
Ba 233.527†	54031.7	505.89 ug/L	2.988	505.89 ppb	2.988	0.59%
QC value within limits for Ba 233.527 Recovery = 101.18%						
Be 313.107†	1164402.6	503.64 ug/L	1.612	503.64 ppb	1.612	0.32%
QC value within limits for Be 313.107 Recovery = 100.73%						
Ca 317.933Radial†	1296.4	5145.0 ug/L	2.91	5145.0 ppb	2.91	0.06%

QC value within limits for Ca 317.933 Radial Recovery = 102.90%

Cd 226.502†	35041.4	506.42 ug/L	2.357	506.42 ppb	2.357	0.47%
QC value within limits for Cd 226.502 Recovery = 101.28%						
Co 228.616†	19876.1	515.55 ug/L	2.277	515.55 ppb	2.277	0.44%
QC value within limits for Co 228.616 Recovery = 103.11%						
Cr 267.716†	38699.1	505.50 ug/L	3.787	505.50 ppb	3.787	0.75%
QC value within limits for Cr 267.716 Recovery = 101.10%						
Cu 324.752†	155735.6	501.18 ug/L	4.816	501.18 ppb	4.816	0.96%
QC value within limits for Cu 324.752 Recovery = 100.24%						
Fe 238.204 Radial†	187.9	5238.0 ug/L	15.54	5238.0 ppb	15.54	0.30%
QC value within limits for Fe 238.204 Radial Recovery = 104.76%						
K 766.490 Radial†	10989.3	5023.9 ug/L	5.14	5023.9 ppb	5.14	0.10%
QC value within limits for K 766.490 Radial Recovery = 100.48%						
Mg 279.077 IEC†	55.4	5374.3 ug/L	125.07	5374.3 ppb	125.07	2.33%
QC value within limits for Mg 279.077 IEC Recovery = 107.49%						
Mn 257.610†	378207.6	495.91 ug/L	3.050	495.91 ppb	3.050	0.61%
QC value within limits for Mn 257.610 Recovery = 99.18%						
Mo 202.031†	5807.0	501.69 ug/L	3.440	501.69 ppb	3.440	0.69%
QC value within limits for Mo 202.031 Recovery = 100.34%						
Na 589.592 Radial†	31761.5	10607 ug/L	197.5	10607 ppb	197.5	1.86%
QC value within limits for Na 589.592 Radial Recovery = 106.07%						
Ni 231.604†	16291.4	513.18 ug/L	3.182	513.18 ppb	3.182	0.62%
QC value within limits for Ni 231.604 Recovery = 102.64%						
P 214.914†	3321.0	2424.6 ug/L	13.74	2424.6 ppb	13.74	0.57%
QC value within limits for P 214.914 Recovery = 96.98%						
Pb 220.353†	3272.1	508.09 ug/L	2.054	508.09 ppb	2.054	0.40%
QC value within limits for Pb 220.353 Recovery = 101.62%						
S 181.975 Axial†	565.2	1007.1 ug/L	9.61	1007.1 ppb	9.61	0.95%
QC value within limits for S 181.975 Axial Recovery = 100.71%						
Sb 206.836†	1225.7	526.00 ug/L	1.803	526.00 ppb	1.803	0.34%
QC value within limits for Sb 206.836 Recovery = 105.20%						
Se 196.026†	624.3	525.34 ug/L	6.999	525.34 ppb	6.999	1.33%
QC value within limits for Se 196.026 Recovery = 105.07%						
Si 251.611†	68233.0	2523.8 ug/L	15.94	2523.8 ppb	15.94	0.63%
QC value within limits for Si 251.611 Recovery = 100.95%						
Sn 189.927†	2227.3	506.73 ug/L	2.424	506.73 ppb	2.424	0.48%
QC value within limits for Sn 189.927 Recovery = 101.35%						
Sr 421.552†	54271.0	538.12 ug/L	7.774	538.12 ppb	7.774	1.44%
QC value within limits for Sr 421.552 Recovery = 107.62%						
Ti 334.940†	290238.0	493.14 ug/L	3.353	493.14 ppb	3.353	0.68%
QC value within limits for Ti 334.940 Recovery = 98.63%						
Tl 190.801†	1308.6	510.86 ug/L	3.571	510.86 ppb	3.571	0.70%
QC value within limits for Tl 190.801 Recovery = 102.17%						
U 409.014†	17558.1	511.01 ug/L	3.857	511.01 ppb	3.857	0.75%
QC value within limits for U 409.014 Recovery = 102.20%						
V 292.402†	64452.7	509.83 ug/L	3.798	509.83 ppb	3.798	0.74%
QC value within limits for V 292.402 Recovery = 101.97%						
Zn 213.857†	41788.6	502.31 ug/L	3.564	502.31 ppb	3.564	0.71%
QC value within limits for Zn 213.857 Recovery = 100.46%						
SiO2†	67898.6	5320.0 ug/L	51.64	5320.0 ppb	51.64	0.97%
QC value within limits for SiO2 Recovery = 99.49%						

All analyte(s) passed QC.

Sequence No.: 24

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/9/2010 20:28:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3255.3	3255.3	97.2 %		20:30:36
1	Y RADIAL	2686.0	2686.0	97.91 %		20:30:36
1	Al 396.153Radial†	-68.4	-10.3	-22.167 ug/L	-22.167 ppb	20:30:36
1	Ca 317.933Radial†	9.2	-0.8	-3.0469 ug/L	-3.0469 ppb	20:30:36
1	Fe 238.204 Radial†	10.1	1.8	49.066 ug/L	49.066 ppb	20:30:36
1	K 766.490 Radial†	2034.7	-20.3	-9.2911 ug/L	-9.2911 ppb	20:30:16
1	Mg 279.077 IEC†	-0.4	-0.8	-81.237 ug/L	-81.237 ppb	20:30:36
1	Na 589.592 Radial†	-781.9	-22.2	-7.3987 ug/L	-7.3987 ppb	20:30:16
1	Sr 421.552†	58.4	24.4	0.2421 ug/L	0.2421 ppb	20:30:16
1	Sc 361.383	821050.3	821050.3	98.359 %		20:31:33
1	Y 371.029	704157.6	704157.6	98.392 %		20:31:33
1	Ag 328.068†	220.7	65.3	0.3468 ug/L	0.3468 ppb	20:31:33
1	As 188.979†	-10.5	5.2	2.9268 ug/L	2.9268 ppb	20:31:53
1	B 249.677†	-263.9	-178.1	-5.0018 ug/L	-5.0018 ppb	20:31:53
1	Ba 233.527†	-0.4	6.8	0.0647 ug/L	0.0647 ppb	20:31:53
1	Be 313.107†	-3497.3	56.9	0.0246 ug/L	0.0246 ppb	20:31:33
1	Cd 226.502†	-159.9	-21.0	-0.3079 ug/L	-0.3079 ppb	20:31:53
1	Co 228.616†	-41.3	1.6	0.0394 ug/L	0.0394 ppb	20:31:53
1	Cr 267.716†	53.9	-11.0	-0.1405 ug/L	-0.1405 ppb	20:31:53
1	Cu 324.752†	6132.1	163.9	0.5311 ug/L	0.5311 ppb	20:31:33
1	Mn 257.610†	380.7	-2.6	0.0047 ug/L	0.0047 ppb	20:31:53
1	Mo 202.031†	10.0	-3.6	-0.3048 ug/L	-0.3048 ppb	20:31:53
1	Ni 231.604†	104.4	53.1	1.6740 ug/L	1.6740 ppb	20:31:53
1	P 214.914†	176.8	4.3	3.1271 ug/L	3.1271 ppb	20:31:53
1	Pb 220.353†	-46.3	-3.2	-0.5037 ug/L	-0.5037 ppb	20:31:53
1	S 181.975 Axial†	30.7	0.3	0.6212 ug/L	0.6212 ppb	20:31:53
1	Sb 206.836†	30.4	2.4	0.9968 ug/L	0.9968 ppb	20:31:53
1	Se 196.026†	-14.6	4.4	3.6982 ug/L	3.6982 ppb	20:31:53
1	Si 251.611†	496.7	52.6	1.9533 ug/L	1.9533 ppb	20:31:53
1	Sn 189.927†	9.2	1.5	0.3430 ug/L	0.3430 ppb	20:31:53
1	Ti 334.940†	-938.7	5.9	0.0170 ug/L	0.0170 ppb	20:31:33
1	Tl 190.801†	-19.7	11.1	4.2989 ug/L	4.2989 ppb	20:31:53
1	U 409.014†	-2029.7	-60.4	-1.7681 ug/L	-1.7681 ppb	20:31:33
1	V 292.402†	-1221.2	5.2	0.0241 ug/L	0.0241 ppb	20:31:33
1	Zn 213.857†	564.4	71.3	0.8466 ug/L	0.8466 ppb	20:31:53
1	SiO2†	492.4	22.1	1.7458 ug/L	1.7458 ppb	20:33:04
2	Sc Radial	3258.3	3258.3	97.2 %		20:31:01
2	Y RADIAL	2681.8	2681.8	97.76 %		20:31:01
2	Al 396.153Radial†	-67.1	-9.0	-19.235 ug/L	-19.235 ppb	20:31:01
2	Ca 317.933Radial†	11.8	1.9	7.5927 ug/L	7.5927 ppb	20:31:01
2	Fe 238.204 Radial†	10.9	2.6	72.249 ug/L	72.249 ppb	20:31:01
2	K 766.490 Radial†	2101.8	46.8	21.441 ug/L	21.441 ppb	20:30:41
2	Mg 279.077 IEC†	2.5	2.1	204.66 ug/L	204.66 ppb	20:31:01
2	Na 589.592 Radial†	-803.2	-43.3	-14.452 ug/L	-14.452 ppb	20:30:41
2	Sr 421.552†	-6.2	-42.0	-0.4168 ug/L	-0.4168 ppb	20:30:41
2	Sc 361.383	824748.5	824748.5	98.802 %		20:31:58
2	Y 371.029	706061.0	706061.0	98.658 %		20:31:58
2	Ag 328.068†	187.6	30.8	0.1796 ug/L	0.1796 ppb	20:31:58
2	As 188.979†	-22.0	-6.3	-3.4790 ug/L	-3.4790 ppb	20:32:18
2	B 249.677†	-236.2	-148.9	-4.1843 ug/L	-4.1843 ppb	20:32:18
2	Ba 233.527†	18.7	26.1	0.2470 ug/L	0.2470 ppb	20:32:18
2	Be 313.107†	-3592.1	-23.1	-0.0103 ug/L	-0.0103 ppb	20:31:58
2	Cd 226.502†	-164.5	-24.9	-0.3672 ug/L	-0.3672 ppb	20:32:18
2	Co 228.616†	-55.7	-12.8	-0.3344 ug/L	-0.3344 ppb	20:32:18
2	Cr 267.716†	63.1	-1.9	-0.0208 ug/L	-0.0208 ppb	20:32:18
2	Cu 324.752†	6088.2	91.5	0.2987 ug/L	0.2987 ppb	20:31:58
2	Mn 257.610†	375.8	-9.4	-0.0135 ug/L	-0.0135 ppb	20:32:18
2	Mo 202.031†	8.8	-4.8	-0.4124 ug/L	-0.4124 ppb	20:32:18
2	Ni 231.604†	96.6	44.7	1.4100 ug/L	1.4100 ppb	20:32:18

2	P 214.914†	172.5	-0.8	-0.6994 ug/L	-0.6994 ppb	20:32:18
2	Pb 220.353†	-45.4	-2.0	-0.3246 ug/L	-0.3246 ppb	20:32:18
2	S 181.975 Axial†	33.2	2.8	4.9269 ug/L	4.9269 ppb	20:32:18
2	Sb 206.836†	24.9	-3.3	-1.3658 ug/L	-1.3658 ppb	20:32:18
2	Se 196.026†	-16.2	2.8	2.4615 ug/L	2.4615 ppb	20:32:18
2	Si 251.611†	491.1	44.7	1.6619 ug/L	1.6619 ppb	20:32:18
2	Sn 189.927†	5.7	-2.1	-0.4724 ug/L	-0.4724 ppb	20:32:18
2	Ti 334.940†	-1034.6	-86.9	-0.1631 ug/L	-0.1631 ppb	20:31:58
2	Tl 190.801†	-20.8	10.0	3.8847 ug/L	3.8847 ppb	20:32:18
2	U 409.014†	-2003.8	-25.0	-0.7371 ug/L	-0.7371 ppb	20:31:58
2	V 292.402†	-1189.9	42.4	0.3172 ug/L	0.3172 ppb	20:31:58
2	Zn 213.857†	567.8	72.2	0.8556 ug/L	0.8556 ppb	20:32:18
2	SiO2†	502.8	30.4	2.3981 ug/L	2.3981 ppb	20:33:24
3	Sc Radial	3303.8	3303.8	98.6 %		20:31:26
3	Y RADIAL	2716.8	2716.8	99.03 %		20:31:26
3	Al 396.153Radial†	-69.3	-10.3	-22.162 ug/L	-22.162 ppb	20:31:26
3	Ca 317.933Radial†	11.6	1.5	6.0581 ug/L	6.0581 ppb	20:31:26
3	Fe 238.204 Radial†	8.9	0.4	11.321 ug/L	11.321 ppb	20:31:26
3	K 766.490 Radial†	2104.5	19.8	9.0778 ug/L	9.0778 ppb	20:31:06
3	Mg 279.077 IEC†	-0.3	-0.7	-72.720 ug/L	-72.720 ppb	20:31:26
3	Na 589.592 Radial†	-850.4	-79.8	-26.636 ug/L	-26.636 ppb	20:31:06
3	Sr 421.552†	23.0	-12.3	-0.1221 ug/L	-0.1221 ppb	20:31:06
3	Sc 361.383	830950.3	830950.3	99.545 %		20:32:23
3	Y 371.029	711629.2	711629.2	99.436 %		20:32:23
3	Ag 328.068†	135.5	-23.0	-0.1130 ug/L	-0.1130 ppb	20:32:23
3	As 188.979†	-23.4	-7.5	-4.1835 ug/L	-4.1835 ppb	20:32:43
3	B 249.677†	-282.4	-193.5	-5.4262 ug/L	-5.4262 ppb	20:32:43
3	Ba 233.527†	-9.5	-2.4	-0.0221 ug/L	-0.0221 ppb	20:32:43
3	Be 313.107†	-3536.7	59.6	0.0252 ug/L	0.0252 ppb	20:32:23
3	Cd 226.502†	-151.1	-10.2	-0.1482 ug/L	-0.1482 ppb	20:32:43
3	Co 228.616†	-38.2	5.1	0.1348 ug/L	0.1348 ppb	20:32:43
3	Cr 267.716†	59.9	-5.6	-0.0725 ug/L	-0.0725 ppb	20:32:43
3	Cu 324.752†	6152.5	110.1	0.3553 ug/L	0.3553 ppb	20:32:23
3	Mn 257.610†	388.0	0.0	0.0042 ug/L	0.0042 ppb	20:32:43
3	Mo 202.031†	18.7	5.0	0.4311 ug/L	0.4311 ppb	20:32:43
3	Ni 231.604†	109.4	56.9	1.7922 ug/L	1.7922 ppb	20:32:43
3	P 214.914†	178.2	3.6	2.6638 ug/L	2.6638 ppb	20:32:43
3	Pb 220.353†	-40.2	3.5	0.5434 ug/L	0.5434 ppb	20:32:43
3	S 181.975 Axial†	31.9	1.2	2.1380 ug/L	2.1380 ppb	20:32:43
3	Sb 206.836†	39.8	11.5	4.7909 ug/L	4.7909 ppb	20:32:43
3	Se 196.026†	-18.0	1.1	0.9349 ug/L	0.9349 ppb	20:32:43
3	Si 251.611†	496.5	46.4	1.7141 ug/L	1.7141 ppb	20:32:43
3	Sn 189.927†	13.4	5.7	1.2866 ug/L	1.2866 ppb	20:32:43
3	Ti 334.940†	-1085.9	-130.6	-0.2150 ug/L	-0.2150 ppb	20:32:23
3	Tl 190.801†	-25.6	5.3	2.0721 ug/L	2.0721 ppb	20:32:43
3	U 409.014†	-2013.1	-19.1	-0.5590 ug/L	-0.5590 ppb	20:32:23
3	V 292.402†	-1261.0	-20.0	-0.1538 ug/L	-0.1538 ppb	20:32:23
3	Zn 213.857†	575.6	75.8	0.9063 ug/L	0.9063 ppb	20:32:43
3	SiO2†	500.3	24.1	1.8839 ug/L	1.8839 ppb	20:33:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825583.0	98.902 %	0.5993			0.61%
Sc Radial	3272.4	97.7 %	0.81			0.83%
Y 371.029	707282.6	98.829 %	0.5425			0.55%
Y RADIAL	2694.9	98.24 %	0.695			0.71%
Ag 328.068†	24.4	0.1378 ug/L	0.23274	0.1378 ppb	0.23274	168.86%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-9.9	-21.188 ug/L	1.6915	-21.188 ppb	1.6915	7.98%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.9	-1.5786 ug/L	3.91764	-1.5786 ppb	3.91764	248.18%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-173.5	-4.8708 ug/L	0.63126	-4.8708 ppb	0.63126	12.96%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.2	0.0965 ug/L	0.13734	0.0965 ppb	0.13734	142.30%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	31.1	0.0132 ug/L	0.02033	0.0132 ppb	0.02033	154.48%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.9	3.5346 ug/L	5.75118	3.5346 ppb	5.75118	162.71%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-18.7	-0.2744 ug/L	0.11326	-0.2744 ppb	0.11326 41.27%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-2.0	-0.0534 ug/L	0.24797	-0.0534 ppb	0.24797 464.50%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-6.2	-0.0779 ug/L	0.06003	-0.0779 ppb	0.06003 77.02%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	121.9	0.3950 ug/L	0.12118	0.3950 ppb	0.12118 30.67%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	1.6	44.212 ug/L	30.7528	44.212 ppb	30.7528 69.56%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	15.4	7.0758 ug/L	15.46341	7.0758 ppb	15.46341 218.54%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	0.2	16.900 ug/L	162.6584	16.900 ppb	162.6584 962.46%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	-4.0	-0.0015 ug/L	0.01037	-0.0015 ppb	0.01037 673.81%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-1.1	-0.0954 ug/L	0.45913	-0.0954 ppb	0.45913 481.49%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-48.4	-16.162 ug/L	9.7318	-16.162 ppb	9.7318 60.21%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	51.6	1.6254 ug/L	0.19567	1.6254 ppb	0.19567 12.04%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	2.4	1.6972 ug/L	2.08835	1.6972 ppb	2.08835 123.05%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-0.5	-0.0950 ug/L	0.56002	-0.0950 ppb	0.56002 589.74%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	1.4	2.5620 ug/L	2.18393	2.5620 ppb	2.18393 85.24%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	3.5	1.4740 ug/L	3.10598	1.4740 ppb	3.10598 210.72%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	2.8	2.3649 ug/L	1.38422	2.3649 ppb	1.38422 58.53%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	47.9	1.7765 ug/L	0.15541	1.7765 ppb	0.15541 8.75%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	1.7	0.3857 ug/L	0.88030	0.3857 ppb	0.88030 228.21%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-10.0	-0.0990 ug/L	0.33006	-0.0990 ppb	0.33006 333.56%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-70.5	-0.1203 ug/L	0.12177	-0.1203 ppb	0.12177 101.19%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	8.8	3.4186 ug/L	1.18431	3.4186 ppb	1.18431 34.64%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-34.8	-1.0214 ug/L	0.65279	-1.0214 ppb	0.65279 63.91%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	9.2	0.0625 ug/L	0.23784	0.0625 ppb	0.23784 380.37%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	73.1	0.8695 ug/L	0.03217	0.8695 ppb	0.03217 3.70%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	25.5	2.0092 ug/L	0.34374	2.0092 ppb	0.34374 17.11%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 32
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/9/2010 21:24:06
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3306.9	3306.9	98.7 %		21:26:18
1	Y RADIAL	2686.8	2686.8	97.94 %		21:26:18
1	Al 396.153Radial†	2175.0	2263.6	4841.0 ug/L	4841.0 ppb	21:25:58
1	Ca 317.933Radial†	1258.0	1264.3	5017.6 ug/L	5017.6 ppb	21:26:18
1	Fe 238.204 Radial†	185.1	178.9	4986.7 ug/L	4986.7 ppb	21:26:18
1	K 766.490 Radial†	12747.8	10801.1	4938.2 ug/L	4938.2 ppb	21:25:58
1	Mg 279.077 IEC†	52.3	52.6	5101.9 ug/L	5101.9 ppb	21:26:18
1	Na 589.592 Radial†	27778.2	28926.3	9660.1 ug/L	9660.1 ppb	21:25:58
1	Sr 421.552†	49672.4	50290.3	498.64 ug/L	498.64 ppb	21:25:58
1	Sc 361.383	844679.6	844679.6	101.19 %		21:27:15
1	Y 371.029	713869.5	713869.5	99.749 %		21:27:15
1	Ag 328.068†	100227.2	98889.3	502.68 ug/L	502.68 ppb	21:27:21
1	As 188.979†	874.7	880.4	493.64 ug/L	493.64 ppb	21:27:41
1	B 249.677†	17483.6	17368.2	484.61 ug/L	484.61 ppb	21:27:21
1	Ba 233.527†	53888.2	53261.6	498.68 ug/L	498.68 ppb	21:27:21
1	Be 313.107†	1151942.1	1142006.1	493.96 ug/L	493.96 ppb	21:27:15
1	Cd 226.502†	34579.2	34314.1	495.93 ug/L	495.93 ppb	21:27:21
1	Co 228.616†	19805.2	19615.9	508.79 ug/L	508.79 ppb	21:27:21
1	Cr 267.716†	38538.6	38019.6	496.62 ug/L	496.62 ppb	21:27:21
1	Cu 324.752†	162971.8	154984.5	498.75 ug/L	498.75 ppb	21:27:21
1	Mn 257.610†	381875.9	376994.8	494.30 ug/L	494.30 ppb	21:27:15
1	Mo 202.031†	5778.5	5696.7	492.15 ug/L	492.15 ppb	21:27:41
1	Ni 231.604†	16262.5	16018.2	504.57 ug/L	504.57 ppb	21:27:21
1	P 214.914†	3443.3	3227.4	2354.1 ug/L	2354.1 ppb	21:27:41
1	Pb 220.353†	3175.7	3182.3	494.13 ug/L	494.13 ppb	21:27:41
1	S 181.975 Axial†	590.7	552.8	985.16 ug/L	985.16 ppb	21:27:41
1	Sb 206.836†	1238.3	1195.2	513.04 ug/L	513.04 ppb	21:27:41
1	Se 196.026†	594.9	607.1	510.55 ug/L	510.55 ppb	21:27:41
1	Si 251.611†	68677.6	67417.4	2493.7 ug/L	2493.7 ppb	21:27:21
1	Sn 189.927†	2216.6	2182.7	496.58 ug/L	496.58 ppb	21:27:41
1	Ti 334.940†	290281.8	287827.9	489.05 ug/L	489.05 ppb	21:27:21
1	Tl 190.801†	1255.7	1272.0	496.66 ug/L	496.66 ppb	21:27:41
1	U 409.014†	15670.6	17489.5	509.06 ug/L	509.06 ppb	21:27:21
1	V 292.402†	63112.6	63617.0	503.21 ug/L	503.21 ppb	21:27:21
1	Zn 213.857†	42124.5	41126.5	494.37 ug/L	494.37 ppb	21:27:21
1	SiO2†	68557.4	67272.5	5271.1 ug/L	5271.1 ppb	21:28:48
2	Sc Radial	3388.5	3388.5	101 %		21:26:43
2	Y RADIAL	2750.4	2750.4	100.3 %		21:26:43
2	Al 396.153Radial†	2206.7	2241.9	4794.4 ug/L	4794.4 ppb	21:26:23
2	Ca 317.933Radial†	1286.3	1261.6	5006.8 ug/L	5006.8 ppb	21:26:43
2	Fe 238.204 Radial†	190.4	179.6	5007.4 ug/L	5007.4 ppb	21:26:43
2	K 766.490 Radial†	12830.8	10572.0	4833.4 ug/L	4833.4 ppb	21:26:23
2	Mg 279.077 IEC†	51.7	50.6	4915.3 ug/L	4915.3 ppb	21:26:43
2	Na 589.592 Radial†	27655.3	28126.7	9393.1 ug/L	9393.1 ppb	21:26:23
2	Sr 421.552†	49878.7	49281.9	488.64 ug/L	488.64 ppb	21:26:23
2	Sc 361.383	846520.9	846520.9	101.41 %		21:27:46
2	Y 371.029	715020.9	715020.9	99.910 %		21:27:46
2	Ag 328.068†	100621.9	99063.1	503.57 ug/L	503.57 ppb	21:27:52
2	As 188.979†	877.2	881.0	493.96 ug/L	493.96 ppb	21:28:12
2	B 249.677†	17531.0	17377.3	484.87 ug/L	484.87 ppb	21:27:52
2	Ba 233.527†	54124.6	53378.9	499.77 ug/L	499.77 ppb	21:27:52
2	Be 313.107†	1152339.6	1139921.9	493.06 ug/L	493.06 ppb	21:27:46
2	Cd 226.502†	34633.5	34293.2	495.63 ug/L	495.63 ppb	21:27:52
2	Co 228.616†	19744.4	19513.3	506.13 ug/L	506.13 ppb	21:27:52
2	Cr 267.716†	38627.0	38023.9	496.67 ug/L	496.67 ppb	21:27:52
2	Cu 324.752†	163279.5	154937.7	498.60 ug/L	498.60 ppb	21:27:52
2	Mn 257.610†	382044.2	376339.9	493.45 ug/L	493.45 ppb	21:27:46
2	Mo 202.031†	5795.1	5700.7	492.50 ug/L	492.50 ppb	21:28:12
2	Ni 231.604†	16287.5	16007.9	504.25 ug/L	504.25 ppb	21:27:52

2	P 214.914†	3446.7	3223.4	2351.0 ug/L	2351.0 ppb	21:28:12
2	Pb 220.353†	3190.4	3190.0	495.32 ug/L	495.32 ppb	21:28:12
2	S 181.975 Axial†	589.5	550.4	980.84 ug/L	980.84 ppb	21:28:12
2	Sb 206.836†	1252.3	1206.4	517.66 ug/L	517.66 ppb	21:28:12
2	Se 196.026†	597.7	608.6	511.79 ug/L	511.79 ppb	21:28:12
2	Si 251.611†	68781.0	67371.7	2492.0 ug/L	2492.0 ppb	21:27:52
2	Sn 189.927†	2221.7	2183.0	496.64 ug/L	496.64 ppb	21:28:12
2	Ti 334.940†	290869.9	287783.8	488.99 ug/L	488.99 ppb	21:27:52
2	Tl 190.801†	1273.2	1286.6	502.32 ug/L	502.32 ppb	21:28:12
2	U 409.014†	15879.6	17661.9	514.09 ug/L	514.09 ppb	21:27:52
2	V 292.402†	63271.7	63638.3	503.38 ug/L	503.38 ppb	21:27:52
2	Zn 213.857†	42232.2	41142.3	494.56 ug/L	494.56 ppb	21:27:52
2	SiO2†	69007.9	67569.4	5294.4 ug/L	5294.4 ppb	21:28:53
3	Sc Radial	3332.8	3332.8	99.5 %		21:27:08
3	Y RADIAL	2708.2	2708.2	98.72 %		21:27:08
3	Al 396.153Radial†	2219.8	2291.6	4901.3 ug/L	4901.3 ppb	21:26:48
3	Ca 317.933Radial†	1266.2	1262.7	5011.0 ug/L	5011.0 ppb	21:27:08
3	Fe 238.204 Radial†	187.5	179.9	5014.5 ug/L	5014.5 ppb	21:27:08
3	K 766.490 Radial†	12857.1	10810.6	4942.6 ug/L	4942.6 ppb	21:26:48
3	Mg 279.077 IEC†	55.1	55.0	5334.4 ug/L	5334.4 ppb	21:27:08
3	Na 589.592 Radial†	27806.5	28735.9	9596.5 ug/L	9596.5 ppb	21:26:48
3	Sr 421.552†	50068.9	50297.6	498.72 ug/L	498.72 ppb	21:26:48
3	Sc 361.383	858935.4	858935.4	102.90 %		21:28:17
3	Y 371.029	726065.6	726065.6	101.45 %		21:28:17
3	Ag 328.068†	100204.4	97223.3	494.24 ug/L	494.24 ppb	21:28:23
3	As 188.979†	888.0	878.9	492.75 ug/L	492.75 ppb	21:28:43
3	B 249.677†	17421.8	17021.4	474.91 ug/L	474.91 ppb	21:28:23
3	Ba 233.527†	53815.1	52306.6	489.74 ug/L	489.74 ppb	21:28:23
3	Be 313.107†	1172704.3	1143289.6	494.50 ug/L	494.50 ppb	21:28:17
3	Cd 226.502†	34572.6	33740.5	487.63 ug/L	487.63 ppb	21:28:23
3	Co 228.616†	19711.9	19200.3	498.02 ug/L	498.02 ppb	21:28:23
3	Cr 267.716†	38581.8	37429.5	488.91 ug/L	488.91 ppb	21:28:23
3	Cu 324.752†	162505.5	151858.4	488.69 ug/L	488.69 ppb	21:28:23
3	Mn 257.610†	387378.7	376079.2	493.10 ug/L	493.10 ppb	21:28:17
3	Mo 202.031†	5829.7	5651.8	488.27 ug/L	488.27 ppb	21:28:43
3	Ni 231.604†	16219.4	15709.5	494.85 ug/L	494.85 ppb	21:28:23
3	P 214.914†	3495.0	3221.1	2351.3 ug/L	2351.3 ppb	21:28:43
3	Pb 220.353†	3220.8	3174.0	492.86 ug/L	492.86 ppb	21:28:43
3	S 181.975 Axial†	592.8	545.2	971.57 ug/L	971.57 ppb	21:28:43
3	Sb 206.836†	1259.5	1195.5	513.03 ug/L	513.03 ppb	21:28:43
3	Se 196.026†	601.4	603.7	507.86 ug/L	507.86 ppb	21:28:43
3	Si 251.611†	68596.0	66211.7	2449.0 ug/L	2449.0 ppb	21:28:23
3	Sn 189.927†	2240.6	2169.7	493.62 ug/L	493.62 ppb	21:28:43
3	Ti 334.940†	289603.9	282408.0	479.82 ug/L	479.82 ppb	21:28:23
3	Tl 190.801†	1264.8	1260.2	492.06 ug/L	492.06 ppb	21:28:43
3	U 409.014†	15870.1	17426.3	507.23 ug/L	507.23 ppb	21:28:23
3	V 292.402†	63090.5	62560.4	494.91 ug/L	494.91 ppb	21:28:23
3	Zn 213.857†	42128.7	40439.8	486.11 ug/L	486.11 ppb	21:28:23
3	SiO2†	68234.3	65834.2	5158.2 ug/L	5158.2 ppb	21:28:58

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	850045.3	101.83 %	0.929			0.91%
Sc Radial	3342.7	99.8 %	1.25			1.25%
Y 371.029	718318.7	100.37 %	0.941			0.94%
Y RADIAL	2715.1	98.98 %	1.180			1.19%
Ag 328.068†	98391.9	500.16 ug/L	5.146	500.16 ppb	5.146	1.03%
QC value within limits for Ag 328.068 Recovery = 100.03%						
Al 396.153Radial†	2265.7	4845.6 ug/L	53.59	4845.6 ppb	53.59	1.11%
QC value within limits for Al 396.153Radial Recovery = 96.91%						
As 188.979†	880.1	493.45 ug/L	0.625	493.45 ppb	0.625	0.13%
QC value within limits for As 188.979 Recovery = 98.69%						
B 249.677†	17255.6	481.47 ug/L	5.675	481.47 ppb	5.675	1.18%
QC value within limits for B 249.677 Recovery = 96.29%						
Ba 233.527†	52982.4	496.06 ug/L	5.503	496.06 ppb	5.503	1.11%
QC value within limits for Ba 233.527 Recovery = 99.21%						
Be 313.107†	1141739.2	493.84 ug/L	0.724	493.84 ppb	0.724	0.15%
QC value within limits for Be 313.107 Recovery = 98.77%						
Ca 317.933Radial†	1262.9	5011.8 ug/L	5.45	5011.8 ppb	5.45	0.11%

QC value within limits for Ca 317.933 Radial Recovery = 100.24%

Cd 226.502†	34115.9	493.06 ug/L	4.707	493.06 ppb	4.707	0.95%
QC value within limits for Cd 226.502 Recovery = 98.61%						
Co 228.616†	19443.1	504.31 ug/L	5.610	504.31 ppb	5.610	1.11%
QC value within limits for Co 228.616 Recovery = 100.86%						
Cr 267.716†	37824.3	494.07 ug/L	4.465	494.07 ppb	4.465	0.90%
QC value within limits for Cr 267.716 Recovery = 98.81%						
Cu 324.752†	153926.9	495.34 ug/L	5.763	495.34 ppb	5.763	1.16%
QC value within limits for Cu 324.752 Recovery = 99.07%						
Fe 238.204 Radial†	179.4	5002.9 ug/L	14.43	5002.9 ppb	14.43	0.29%
QC value within limits for Fe 238.204 Radial Recovery = 100.06%						
K 766.490 Radial†	10727.9	4904.7 ug/L	61.79	4904.7 ppb	61.79	1.26%
QC value within limits for K 766.490 Radial Recovery = 98.09%						
Mg 279.077 IEC†	52.7	5117.2 ug/L	209.97	5117.2 ppb	209.97	4.10%
QC value within limits for Mg 279.077 IEC Recovery = 102.34%						
Mn 257.610†	376471.3	493.62 ug/L	0.620	493.62 ppb	0.620	0.13%
QC value within limits for Mn 257.610 Recovery = 98.72%						
Mo 202.031†	5683.1	490.97 ug/L	2.345	490.97 ppb	2.345	0.48%
QC value within limits for Mo 202.031 Recovery = 98.19%						
Na 589.592 Radial†	28596.3	9549.9 ug/L	139.47	9549.9 ppb	139.47	1.46%
QC value within limits for Na 589.592 Radial Recovery = 95.50%						
Ni 231.604†	15911.9	501.22 ug/L	5.522	501.22 ppb	5.522	1.10%
QC value within limits for Ni 231.604 Recovery = 100.24%						
P 214.914†	3224.0	2352.1 ug/L	1.69	2352.1 ppb	1.69	0.07%
QC value within limits for P 214.914 Recovery = 94.08%						
Pb 220.353†	3182.1	494.10 ug/L	1.226	494.10 ppb	1.226	0.25%
QC value within limits for Pb 220.353 Recovery = 98.82%						
S 181.975 Axial†	549.5	979.19 ug/L	6.941	979.19 ppb	6.941	0.71%
QC value within limits for S 181.975 Axial Recovery = 97.92%						
Sb 206.836†	1199.0	514.58 ug/L	2.672	514.58 ppb	2.672	0.52%
QC value within limits for Sb 206.836 Recovery = 102.92%						
Se 196.026†	606.5	510.07 ug/L	2.007	510.07 ppb	2.007	0.39%
QC value within limits for Se 196.026 Recovery = 102.01%						
Si 251.611†	67000.3	2478.2 ug/L	25.31	2478.2 ppb	25.31	1.02%
QC value within limits for Si 251.611 Recovery = 99.13%						
Sn 189.927†	2178.4	495.61 ug/L	1.725	495.61 ppb	1.725	0.35%
QC value within limits for Sn 189.927 Recovery = 99.12%						
Sr 421.552†	49956.6	495.34 ug/L	5.794	495.34 ppb	5.794	1.17%
QC value within limits for Sr 421.552 Recovery = 99.07%						
Ti 334.940†	286006.6	485.95 ug/L	5.310	485.95 ppb	5.310	1.09%
QC value within limits for Ti 334.940 Recovery = 97.19%						
Tl 190.801†	1272.9	497.01 ug/L	5.137	497.01 ppb	5.137	1.03%
QC value within limits for Tl 190.801 Recovery = 99.40%						
U 409.014†	17525.9	510.13 ug/L	3.554	510.13 ppb	3.554	0.70%
QC value within limits for U 409.014 Recovery = 102.03%						
V 292.402†	63271.9	500.50 ug/L	4.839	500.50 ppb	4.839	0.97%
QC value within limits for V 292.402 Recovery = 100.10%						
Zn 213.857†	40902.9	491.68 ug/L	4.826	491.68 ppb	4.826	0.98%
QC value within limits for Zn 213.857 Recovery = 98.34%						
SiO2†	66892.1	5241.3 ug/L	72.84	5241.3 ppb	72.84	1.39%
QC value within limits for SiO2 Recovery = 98.01%						

All analyte(s) passed QC.

Sequence No.: 33

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/9/2010 21:31:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3327.6	3327.6	99.3 %		21:33:20
1	Y RADIAL	2709.9	2709.9	98.78 %		21:33:20
1	Al 396.153Radial†	-64.2	-4.6	-9.8612 ug/L	-9.8612 ppb	21:33:20
1	Ca 317.933Radial†	8.4	-1.7	-6.8971 ug/L	-6.8971 ppb	21:33:20
1	Fe 238.204 Radial†	8.5	-0.0	-1.1791 ug/L	-1.1791 ppb	21:33:20
1	K 766.490 Radial†	2193.7	94.3	43.167 ug/L	43.167 ppb	21:33:00
1	Mg 279.077 IEC†	0.8	0.4	35.259 ug/L	35.259 ppb	21:33:20
1	Na 589.592 Radial†	-779.2	-2.0	-0.6549 ug/L	-0.6549 ppb	21:33:00
1	Sr 421.552†	30.9	-4.5	-0.0450 ug/L	-0.0450 ppb	21:33:00
1	Sc 361.383	838021.8	838021.8	100.39 %		21:34:17
1	Y 371.029	716696.8	716696.8	100.14 %		21:34:17
1	Ag 328.068†	84.5	-74.9	-0.3816 ug/L	-0.3816 ppb	21:34:17
1	As 188.979†	-19.2	-3.2	-1.7609 ug/L	-1.7609 ppb	21:34:37
1	B 249.677†	-237.4	-146.2	-4.0992 ug/L	-4.0992 ppb	21:34:37
1	Ba 233.527†	-14.1	-6.9	-0.0641 ug/L	-0.0641 ppb	21:34:37
1	Be 313.107†	-3596.4	30.2	0.0129 ug/L	0.0129 ppb	21:34:17
1	Cd 226.502†	-155.9	-13.7	-0.1961 ug/L	-0.1961 ppb	21:34:37
1	Co 228.616†	-37.2	6.5	0.1695 ug/L	0.1695 ppb	21:34:37
1	Cr 267.716†	50.5	-15.4	-0.2028 ug/L	-0.2028 ppb	21:34:37
1	Cu 324.752†	6033.6	-60.5	-0.1972 ug/L	-0.1972 ppb	21:34:17
1	Mn 257.610†	378.0	-13.1	-0.0188 ug/L	-0.0188 ppb	21:34:37
1	Mo 202.031†	14.7	0.8	0.0729 ug/L	0.0729 ppb	21:34:37
1	Ni 231.604†	107.8	54.4	1.7132 ug/L	1.7132 ppb	21:34:37
1	P 214.914†	161.9	-14.1	-10.697 ug/L	-10.697 ppb	21:34:37
1	Pb 220.353†	-48.4	-4.3	-0.6633 ug/L	-0.6633 ppb	21:34:37
1	S 181.975 Axial†	29.6	-1.3	-2.3934 ug/L	-2.3934 ppb	21:34:37
1	Sb 206.836†	26.5	-2.1	-0.8776 ug/L	-0.8776 ppb	21:34:37
1	Se 196.026†	-18.0	1.3	1.0570 ug/L	1.0570 ppb	21:34:37
1	Si 251.611†	483.3	29.0	1.0754 ug/L	1.0754 ppb	21:34:37
1	Sn 189.927†	5.3	-2.5	-0.5713 ug/L	-0.5713 ppb	21:34:37
1	Ti 334.940†	-995.7	-31.6	-0.0594 ug/L	-0.0594 ppb	21:34:17
1	Tl 190.801†	-35.1	-3.9	-1.5097 ug/L	-1.5097 ppb	21:34:37
1	U 409.014†	-1851.7	158.7	4.6347 ug/L	4.6347 ppb	21:34:17
1	V 292.402†	-1224.4	27.2	0.2231 ug/L	0.2231 ppb	21:34:17
1	Zn 213.857†	564.2	59.5	0.7115 ug/L	0.7115 ppb	21:34:37
1	SiO2†	491.1	10.7	0.8419 ug/L	0.8419 ppb	21:35:48
2	Sc Radial	3297.3	3297.3	98.4 %		21:33:45
2	Y RADIAL	2691.4	2691.4	98.11 %		21:33:45
2	Al 396.153Radial†	-61.8	-2.8	-5.9225 ug/L	-5.9225 ppb	21:33:45
2	Ca 317.933Radial†	12.9	2.8	11.303 ug/L	11.303 ppb	21:33:45
2	Fe 238.204 Radial†	7.8	-0.7	-19.770 ug/L	-19.770 ppb	21:33:45
2	K 766.490 Radial†	2200.6	121.6	55.658 ug/L	55.658 ppb	21:33:25
2	Mg 279.077 IEC†	1.6	1.2	114.14 ug/L	114.14 ppb	21:33:45
2	Na 589.592 Radial†	-782.0	-12.0	-4.0006 ug/L	-4.0006 ppb	21:33:25
2	Sr 421.552†	29.4	-5.8	-0.0580 ug/L	-0.0580 ppb	21:33:25
2	Sc 361.383	835382.5	835382.5	100.08 %		21:34:42
2	Y 371.029	715095.5	715095.5	99.920 %		21:34:42
2	Ag 328.068†	160.9	1.7	0.0062 ug/L	0.0062 ppb	21:34:42
2	As 188.979†	-18.6	-2.6	-1.4358 ug/L	-1.4358 ppb	21:35:02
2	B 249.677†	-263.5	-173.1	-4.8481 ug/L	-4.8481 ppb	21:35:02
2	Ba 233.527†	3.2	10.4	0.0986 ug/L	0.0986 ppb	21:35:02
2	Be 313.107†	-3567.3	48.0	0.0206 ug/L	0.0206 ppb	21:34:42
2	Cd 226.502†	-157.3	-15.6	-0.2223 ug/L	-0.2223 ppb	21:35:02
2	Co 228.616†	-41.7	1.9	0.0506 ug/L	0.0506 ppb	21:35:02
2	Cr 267.716†	72.2	6.4	0.0844 ug/L	0.0844 ppb	21:35:02
2	Cu 324.752†	5931.5	-143.5	-0.4625 ug/L	-0.4625 ppb	21:34:42
2	Mn 257.610†	355.6	-34.4	-0.0516 ug/L	-0.0516 ppb	21:35:02
2	Mo 202.031†	16.4	2.6	0.2234 ug/L	0.2234 ppb	21:35:02
2	Ni 231.604†	100.4	47.3	1.4914 ug/L	1.4914 ppb	21:35:02

2	P 214.914†	174.7	-0.8	-0.5068 ug/L	-0.5068 ppb	21:35:02
2	Pb 220.353†	-47.3	-3.3	-0.5092 ug/L	-0.5092 ppb	21:35:02
2	S 181.975 Axial†	26.2	-4.7	-8.4155 ug/L	-8.4155 ppb	21:35:02
2	Sb 206.836†	41.2	12.7	5.2691 ug/L	5.2691 ppb	21:35:02
2	Se 196.026†	-20.2	-0.9	-0.8087 ug/L	-0.8087 ppb	21:35:02
2	Si 251.611†	482.5	29.7	1.1001 ug/L	1.1001 ppb	21:35:02
2	Sn 189.927†	5.3	-2.5	-0.5762 ug/L	-0.5762 ppb	21:35:02
2	Ti 334.940†	-977.5	-16.5	-0.0357 ug/L	-0.0357 ppb	21:34:42
2	Tl 190.801†	-30.4	0.7	0.2503 ug/L	0.2503 ppb	21:35:02
2	U 409.014†	-2022.4	-17.7	-0.5155 ug/L	-0.5155 ppb	21:34:42
2	V 292.402†	-1138.2	109.5	0.8618 ug/L	0.8618 ppb	21:34:42
2	Zn 213.857†	554.8	51.9	0.6242 ug/L	0.6242 ppb	21:35:02
2	SiO2†	515.6	36.7	2.8774 ug/L	2.8774 ppb	21:36:08
3	Sc Radial	3285.1	3285.1	98.1 %		21:34:10
3	Y RADIAL	2687.0	2687.0	97.95 %		21:34:10
3	Al 396.153Radial†	-65.7	-7.0	-15.013 ug/L	-15.013 ppb	21:34:10
3	Ca 317.933Radial†	10.2	0.2	0.6871 ug/L	0.6871 ppb	21:34:10
3	Fe 238.204 Radial†	7.5	-0.9	-25.970 ug/L	-25.970 ppb	21:34:10
3	K 766.490 Radial†	2045.5	-28.2	-12.915 ug/L	-12.915 ppb	21:33:50
3	Mg 279.077 IEC†	2.8	2.4	233.66 ug/L	233.66 ppb	21:34:10
3	Na 589.592 Radial†	-792.7	-25.9	-8.6337 ug/L	-8.6337 ppb	21:33:50
3	Sr 421.552†	21.5	-13.7	-0.1361 ug/L	-0.1361 ppb	21:33:50
3	Sc 361.383	835503.5	835503.5	100.09 %		21:35:07
3	Y 371.029	716621.1	716621.1	100.13 %		21:35:07
3	Ag 328.068†	162.9	3.7	0.0110 ug/L	0.0110 ppb	21:35:07
3	As 188.979†	-25.0	-9.1	-5.0396 ug/L	-5.0396 ppb	21:35:28
3	B 249.677†	-247.1	-156.7	-4.3878 ug/L	-4.3878 ppb	21:35:28
3	Ba 233.527†	1.1	8.2	0.0768 ug/L	0.0768 ppb	21:35:28
3	Be 313.107†	-3573.7	42.1	0.0181 ug/L	0.0181 ppb	21:35:07
3	Cd 226.502†	-151.4	-9.7	-0.1360 ug/L	-0.1360 ppb	21:35:28
3	Co 228.616†	-44.5	-0.9	-0.0245 ug/L	-0.0245 ppb	21:35:28
3	Cr 267.716†	66.6	0.8	0.0092 ug/L	0.0092 ppb	21:35:28
3	Cu 324.752†	5984.3	-91.6	-0.2966 ug/L	-0.2966 ppb	21:35:07
3	Mn 257.610†	350.4	-39.6	-0.0640 ug/L	-0.0640 ppb	21:35:28
3	Mo 202.031†	10.4	-3.4	-0.2968 ug/L	-0.2968 ppb	21:35:28
3	Ni 231.604†	103.4	50.3	1.5854 ug/L	1.5854 ppb	21:35:28
3	P 214.914†	176.0	0.5	0.4362 ug/L	0.4362 ppb	21:35:28
3	Pb 220.353†	-43.1	0.9	0.1389 ug/L	0.1389 ppb	21:35:28
3	S 181.975 Axial†	31.0	0.1	0.1649 ug/L	0.1649 ppb	21:35:28
3	Sb 206.836†	32.2	3.7	1.5228 ug/L	1.5228 ppb	21:35:28
3	Se 196.026†	-17.3	1.9	1.4619 ug/L	1.4619 ppb	21:35:28
3	Si 251.611†	481.7	28.9	1.0750 ug/L	1.0750 ppb	21:35:28
3	Sn 189.927†	11.2	3.4	0.7767 ug/L	0.7767 ppb	21:35:28
3	Ti 334.940†	-970.8	-9.7	-0.0359 ug/L	-0.0359 ppb	21:35:07
3	Tl 190.801†	-23.9	7.2	2.8026 ug/L	2.8026 ppb	21:35:28
3	U 409.014†	-1969.5	35.4	1.0381 ug/L	1.0381 ppb	21:35:07
3	V 292.402†	-1212.4	35.4	0.2828 ug/L	0.2828 ppb	21:35:07
3	Zn 213.857†	557.4	54.4	0.6546 ug/L	0.6546 ppb	21:35:28
3	SiO2†	484.3	5.4	0.4297 ug/L	0.4297 ppb	21:36:28

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	836302.6	100.19 %		0.179			0.18%
Sc Radial	3303.3	98.6 %		0.65			0.66%
Y 371.029	716137.8	100.07 %		0.126			0.13%
Y RADIAL	2696.1	98.28 %		0.443			0.45%
Ag 328.068†	-23.2	-0.1215 ug/L		0.22533	-0.1215 ppb	0.22533	185.51%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-4.8	-10.266 ug/L		4.5588	-10.266 ppb	4.5588	44.41%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-4.9	-2.7454 ug/L		1.99341	-2.7454 ppb	1.99341	72.61%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-158.7	-4.4450 ug/L		0.37772	-4.4450 ppb	0.37772	8.50%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	3.9	0.0371 ug/L		0.08831	0.0371 ppb	0.08831	238.00%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	40.1	0.0172 ug/L		0.00394	0.0172 ppb	0.00394	22.86%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	0.4	1.6977 ug/L		9.14222	1.6977 ppb	9.14222	538.49%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	-13.0	-0.1848 ug/L	0.04425	-0.1848 ppb	0.04425	23.95%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	2.5	0.0652 ug/L	0.09783	0.0652 ppb	0.09783	150.06%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-2.7	-0.0364 ug/L	0.14894	-0.0364 ppb	0.14894	409.32%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-98.5	-0.3188 ug/L	0.13402	-0.3188 ppb	0.13402	42.04%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.6	-15.640 ug/L	12.9011	-15.640 ppb	12.9011	82.49%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	62.6	28.637 ug/L	36.5228	28.637 ppb	36.5228	127.54%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	1.3	127.69 ug/L	99.894	127.69 ppb	99.894	78.23%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-29.0	-0.0448 ug/L	0.02338	-0.0448 ppb	0.02338	52.20%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	0.0	-0.0002 ug/L	0.26767	-0.0002 ppb	0.26767	>999.9%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-13.3	-4.4297 ug/L	4.00667	-4.4297 ppb	4.00667	90.45%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	50.7	1.5966 ug/L	0.11133	1.5966 ppb	0.11133	6.97%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-4.8	-3.5893 ug/L	6.17367	-3.5893 ppb	6.17367	172.00%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-2.2	-0.3445 ug/L	0.42573	-0.3445 ppb	0.42573	123.57%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-2.0	-3.5480 ug/L	4.40521	-3.5480 ppb	4.40521	124.16%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	4.8	1.9714 ug/L	3.09786	1.9714 ppb	3.09786	157.14%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	0.8	0.5701 ug/L	1.21111	0.5701 ppb	1.21111	212.44%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	29.2	1.0835 ug/L	0.01438	1.0835 ppb	0.01438	1.33%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-0.5	-0.1236 ug/L	0.77965	-0.1236 ppb	0.77965	630.78%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-8.0	-0.0797 ug/L	0.04926	-0.0797 ppb	0.04926	61.80%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	-19.3	-0.0437 ug/L	0.01364	-0.0437 ppb	0.01364	31.22%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	1.3	0.5144 ug/L	2.16824	0.5144 ppb	2.16824	421.52%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	58.8	1.7191 ug/L	2.64178	1.7191 ppb	2.64178	153.67%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	57.4	0.4559 ug/L	0.35276	0.4559 ppb	0.35276	77.38%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	55.3	0.6634 ug/L	0.04435	0.6634 ppb	0.04435	6.68%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		17.6	1.3830 ug/L	1.31048	1.3830 ppb	1.31048	94.76%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 41

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/9/2010 22:27:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3284.4	3284.4	98.0 %		22:29:38
1	Y RADIAL	2655.6	2655.6	96.80 %		22:29:38
1	Al 396.153Radial†	2201.6	2305.9	4931.7 ug/L	4931.7 ppb	22:29:18
1	Ca 317.933Radial†	1272.6	1288.0	5111.3 ug/L	5111.3 ppb	22:29:38
1	Fe 238.204 Radial†	188.0	183.1	5105.1 ug/L	5105.1 ppb	22:29:38
1	K 766.490 Radial†	12916.5	11061.7	5057.5 ug/L	5057.5 ppb	22:29:18
1	Mg 279.077 IEC†	50.9	51.5	4994.2 ug/L	4994.2 ppb	22:29:38
1	Na 589.592 Radial†	27646.7	28985.0	9679.7 ug/L	9679.7 ppb	22:29:18
1	Sr 421.552†	50030.0	50999.8	505.68 ug/L	505.68 ppb	22:29:18
1	Sc 361.383	850988.9	850988.9	101.95 %		22:30:36
1	Y 371.029	719606.5	719606.5	100.55 %		22:30:36
1	Ag 328.068†	100976.8	98890.3	502.73 ug/L	502.73 ppb	22:30:41
1	As 188.979†	895.6	894.4	501.48 ug/L	501.48 ppb	22:31:01
1	B 249.677†	17798.1	17548.5	489.65 ug/L	489.65 ppb	22:30:41
1	Ba 233.527†	54308.5	53279.1	498.85 ug/L	498.85 ppb	22:30:41
1	Be 313.107†	1172747.8	1153974.6	499.13 ug/L	499.13 ppb	22:30:36
1	Cd 226.502†	34970.4	34444.5	497.80 ug/L	497.80 ppb	22:30:41
1	Co 228.616†	19906.6	19570.1	507.60 ug/L	507.60 ppb	22:30:41
1	Cr 267.716†	38891.6	38083.5	497.46 ug/L	497.46 ppb	22:30:41
1	Cu 324.752†	164140.8	154937.2	498.60 ug/L	498.60 ppb	22:30:41
1	Mn 257.610†	381511.2	373839.1	490.18 ug/L	490.18 ppb	22:30:41
1	Mo 202.031†	5833.7	5708.5	493.18 ug/L	493.18 ppb	22:31:01
1	Ni 231.604†	16385.0	16019.2	504.60 ug/L	504.60 ppb	22:30:41
1	P 214.914†	3483.4	3241.5	2364.8 ug/L	2364.8 ppb	22:31:01
1	Pb 220.353†	3214.5	3197.1	496.44 ug/L	496.44 ppb	22:31:01
1	S 181.975 Axial†	602.5	560.1	998.09 ug/L	998.09 ppb	22:31:01
1	Sb 206.836†	1244.2	1192.0	511.74 ug/L	511.74 ppb	22:31:01
1	Se 196.026†	595.7	603.5	508.01 ug/L	508.01 ppb	22:31:01
1	Si 251.611†	69230.7	67456.8	2495.1 ug/L	2495.1 ppb	22:30:41
1	Sn 189.927†	2239.2	2188.6	497.94 ug/L	497.94 ppb	22:31:01
1	Ti 334.940†	292890.2	288259.7	489.80 ug/L	489.80 ppb	22:30:41
1	Tl 190.801†	1289.4	1295.8	505.89 ug/L	505.89 ppb	22:31:01
1	U 409.014†	15937.2	17636.1	513.32 ug/L	513.32 ppb	22:30:41
1	V 292.402†	63751.6	63781.5	504.49 ug/L	504.49 ppb	22:30:41
1	Zn 213.857†	42452.8	41140.0	494.52 ug/L	494.52 ppb	22:30:41
1	SiO2†	68670.5	66881.2	5240.4 ug/L	5240.4 ppb	22:32:08
2	Sc Radial	3082.9	3082.9	92.0 %		22:30:04
2	Y RADIAL	2503.4	2503.4	91.26 %		22:30:04
2	Al 396.153Radial†	2181.4	2430.6	5199.1 ug/L	5199.1 ppb	22:29:44
2	Ca 317.933Radial†	1288.1	1389.6	5514.8 ug/L	5514.8 ppb	22:30:04
2	Fe 238.204 Radial†	193.8	202.0	5629.3 ug/L	5629.3 ppb	22:30:04
2	K 766.490 Radial†	12699.7	11687.1	5343.4 ug/L	5343.4 ppb	22:29:44
2	Mg 279.077 IEC†	54.2	58.5	5677.3 ug/L	5677.3 ppb	22:30:04
2	Na 589.592 Radial†	27163.6	30302.8	10120 ug/L	10120 ppb	22:29:44
2	Sr 421.552†	49419.1	53670.9	532.16 ug/L	532.16 ppb	22:29:44
2	Sc 361.383	822155.6	822155.6	98.492 %		22:31:06
2	Y 371.029	695059.6	695059.6	97.121 %		22:31:06
2	Ag 328.068†	100782.8	102166.9	519.50 ug/L	519.50 ppb	22:31:12
2	As 188.979†	877.2	906.6	508.50 ug/L	508.50 ppb	22:31:32
2	B 249.677†	17713.3	18074.8	504.26 ug/L	504.26 ppb	22:31:12
2	Ba 233.527†	54532.2	55374.4	518.47 ug/L	518.47 ppb	22:31:12
2	Be 313.107†	1168906.4	1190417.9	514.90 ug/L	514.90 ppb	22:31:06
2	Cd 226.502†	35040.8	35718.9	516.19 ug/L	516.19 ppb	22:31:12
2	Co 228.616†	19952.2	20301.3	526.56 ug/L	526.56 ppb	22:31:12
2	Cr 267.716†	39019.5	39551.2	516.64 ug/L	516.64 ppb	22:31:12
2	Cu 324.752†	163853.7	160292.2	515.85 ug/L	515.85 ppb	22:31:12
2	Mn 257.610†	382407.5	387873.4	508.60 ug/L	508.60 ppb	22:31:12
2	Mo 202.031†	5829.3	5904.8	510.17 ug/L	510.17 ppb	22:31:32
2	Ni 231.604†	16494.3	16693.8	525.86 ug/L	525.86 ppb	22:31:12

2	P 214.914†	3467.5	3345.2	2439.8 ug/L	2439.8 ppb	22:31:32
2	Pb 220.353†	3199.9	3292.8	511.28 ug/L	511.28 ppb	22:31:32
2	S 181.975 Axial†	586.9	565.1	1006.9 ug/L	1006.9 ppb	22:31:32
2	Sb 206.836†	1232.3	1222.7	525.03 ug/L	525.03 ppb	22:31:32
2	Se 196.026†	593.9	622.2	524.74 ug/L	524.74 ppb	22:31:32
2	Si 251.611†	69255.2	69863.3	2584.1 ug/L	2584.1 ppb	22:31:12
2	Sn 189.927†	2226.9	2253.2	512.66 ug/L	512.66 ppb	22:31:32
2	Ti 334.940†	293438.5	298892.1	507.86 ug/L	507.86 ppb	22:31:12
2	Tl 190.801†	1272.8	1323.3	516.68 ug/L	516.68 ppb	22:31:32
2	U 409.014†	15957.1	18204.6	529.82 ug/L	529.82 ppb	22:31:12
2	V 292.402†	63831.4	66055.5	522.43 ug/L	522.43 ppb	22:31:12
2	Zn 213.857†	42669.2	42820.2	514.67 ug/L	514.67 ppb	22:31:12
2	SiO2†	69363.5	69947.1	5480.7 ug/L	5480.7 ppb	22:32:13
3	Sc Radial	3276.8	3276.8	97.8 %		22:30:29
3	Y RADIAL	2657.1	2657.1	96.86 %		22:30:29
3	Al 396.153Radial†	2147.7	2256.0	4824.3 ug/L	4824.3 ppb	22:30:09
3	Ca 317.933Radial†	1278.4	1296.9	5146.9 ug/L	5146.9 ppb	22:30:29
3	Fe 238.204 Radial†	189.4	185.0	5158.7 ug/L	5158.7 ppb	22:30:29
3	K 766.490 Radial†	12600.7	10769.5	4923.8 ug/L	4923.8 ppb	22:30:09
3	Mg 279.077 IEC†	54.9	55.7	5403.4 ug/L	5403.4 ppb	22:30:29
3	Na 589.592 Radial†	26600.7	27981.3	9344.5 ug/L	9344.5 ppb	22:30:09
3	Sr 421.552†	48307.4	49357.7	489.40 ug/L	489.40 ppb	22:30:09
3	Sc 361.383	842036.5	842036.5	100.87 %		22:31:37
3	Y 371.029	711483.5	711483.5	99.416 %		22:31:37
3	Ag 328.068†	101640.4	100601.2	511.41 ug/L	511.41 ppb	22:31:42
3	As 188.979†	889.5	897.8	503.41 ug/L	503.41 ppb	22:32:02
3	B 249.677†	18070.5	18004.2	502.39 ug/L	502.39 ppb	22:31:42
3	Ba 233.527†	54627.8	54162.0	507.11 ug/L	507.11 ppb	22:31:42
3	Be 313.107†	1173126.8	1166580.7	504.59 ug/L	504.59 ppb	22:31:37
3	Cd 226.502†	35059.5	34897.5	504.35 ug/L	504.35 ppb	22:31:42
3	Co 228.616†	20065.7	19935.5	517.08 ug/L	517.08 ppb	22:31:42
3	Cr 267.716†	39085.6	38681.5	505.27 ug/L	505.27 ppb	22:31:42
3	Cu 324.752†	165349.2	157846.9	507.96 ug/L	507.96 ppb	22:31:42
3	Mn 257.610†	383144.2	379436.7	497.51 ug/L	497.51 ppb	22:31:42
3	Mo 202.031†	5866.4	5801.9	501.24 ug/L	501.24 ppb	22:32:02
3	Ni 231.604†	16478.1	16282.3	512.89 ug/L	512.89 ppb	22:31:42
3	P 214.914†	3504.1	3298.4	2406.1 ug/L	2406.1 ppb	22:32:02
3	Pb 220.353†	3214.7	3230.8	501.64 ug/L	501.64 ppb	22:32:02
3	S 181.975 Axial†	593.0	557.0	992.62 ug/L	992.62 ppb	22:32:02
3	Sb 206.836†	1247.3	1208.0	518.62 ug/L	518.62 ppb	22:32:02
3	Se 196.026†	602.5	616.5	518.70 ug/L	518.70 ppb	22:32:02
3	Si 251.611†	69580.2	68525.3	2534.6 ug/L	2534.6 ppb	22:31:42
3	Sn 189.927†	2238.5	2211.3	503.10 ug/L	503.10 ppb	22:32:02
3	Ti 334.940†	294819.2	293226.5	498.21 ug/L	498.21 ppb	22:31:42
3	Tl 190.801†	1285.5	1305.5	509.67 ug/L	509.67 ppb	22:32:02
3	U 409.014†	16129.4	17992.9	523.72 ug/L	523.72 ppb	22:31:42
3	V 292.402†	63981.1	64673.8	511.58 ug/L	511.58 ppb	22:31:42
3	Zn 213.857†	42834.8	41961.4	504.41 ug/L	504.41 ppb	22:31:42
3	SiO2†	69118.3	68041.3	5331.3 ug/L	5331.3 ppb	22:32:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838393.7	100.44 %	1.768			1.76%
Sc Radial	3214.7	95.9 %	3.41			3.55%
Y 371.029	708716.5	99.029 %	1.7474			1.76%
Y RADIAL	2605.4	94.97 %	3.218			3.39%
Ag 328.068†	100552.8	511.21 ug/L	8.386	511.21 ppb	8.386	1.64%
QC value within limits for Ag 328.068 Recovery = 102.24%						
Al 396.153Radial†	2330.8	4985.0 ug/L	193.02	4985.0 ppb	193.02	3.87%
QC value within limits for Al 396.153Radial Recovery = 99.70%						
As 188.979†	899.6	504.46 ug/L	3.625	504.46 ppb	3.625	0.72%
QC value within limits for As 188.979 Recovery = 100.89%						
B 249.677†	17875.9	498.77 ug/L	7.951	498.77 ppb	7.951	1.59%
QC value within limits for B 249.677 Recovery = 99.75%						
Ba 233.527†	54271.8	508.14 ug/L	9.853	508.14 ppb	9.853	1.94%
QC value within limits for Ba 233.527 Recovery = 101.63%						
Be 313.107†	1170324.4	506.21 ug/L	8.008	506.21 ppb	8.008	1.58%
QC value within limits for Be 313.107 Recovery = 101.24%						
Ca 317.933Radial†	1324.8	5257.7 ug/L	223.38	5257.7 ppb	223.38	4.25%

QC value within limits for Ca 317.933 Radial Recovery = 105.15%

Cd	226.502†	35020.3	506.11 ug/L	9.318	506.11 ppb	9.318	1.84%
QC value within limits for Cd 226.502 Recovery = 101.22%							
Co	228.616†	19935.6	517.08 ug/L	9.478	517.08 ppb	9.478	1.83%
QC value within limits for Co 228.616 Recovery = 103.42%							
Cr	267.716†	38772.1	506.46 ug/L	9.647	506.46 ppb	9.647	1.90%
QC value within limits for Cr 267.716 Recovery = 101.29%							
Cu	324.752†	157692.1	507.47 ug/L	8.636	507.47 ppb	8.636	1.70%
QC value within limits for Cu 324.752 Recovery = 101.49%							
Fe	238.204 Radial†	190.0	5297.7 ug/L	288.40	5297.7 ppb	288.40	5.44%
QC value within limits for Fe 238.204 Radial Recovery = 105.95%							
K	766.490 Radial†	11172.8	5108.2 ug/L	214.36	5108.2 ppb	214.36	4.20%
QC value within limits for K 766.490 Radial Recovery = 102.16%							
Mg	279.077 IEC†	55.2	5358.3 ug/L	343.80	5358.3 ppb	343.80	6.42%
QC value within limits for Mg 279.077 IEC Recovery = 107.17%							
Mn	257.610†	380383.1	498.76 ug/L	9.271	498.76 ppb	9.271	1.86%
QC value within limits for Mn 257.610 Recovery = 99.75%							
Mo	202.031†	5805.1	501.53 ug/L	8.498	501.53 ppb	8.498	1.69%
QC value within limits for Mo 202.031 Recovery = 100.31%							
Na	589.592 Radial†	29089.7	9714.7 ug/L	388.83	9714.7 ppb	388.83	4.00%
QC value within limits for Na 589.592 Radial Recovery = 97.15%							
Ni	231.604†	16331.8	514.45 ug/L	10.712	514.45 ppb	10.712	2.08%
QC value within limits for Ni 231.604 Recovery = 102.89%							
P	214.914†	3295.0	2403.6 ug/L	37.59	2403.6 ppb	37.59	1.56%
QC value within limits for P 214.914 Recovery = 96.14%							
Pb	220.353†	3240.2	503.12 ug/L	7.531	503.12 ppb	7.531	1.50%
QC value within limits for Pb 220.353 Recovery = 100.62%							
S	181.975 Axial†	560.7	999.19 ug/L	7.183	999.19 ppb	7.183	0.72%
QC value within limits for S 181.975 Axial Recovery = 99.92%							
Sb	206.836†	1207.6	518.46 ug/L	6.646	518.46 ppb	6.646	1.28%
QC value within limits for Sb 206.836 Recovery = 103.69%							
Se	196.026†	614.1	517.15 ug/L	8.475	517.15 ppb	8.475	1.64%
QC value within limits for Se 196.026 Recovery = 103.43%							
Si	251.611†	68615.1	2538.0 ug/L	44.60	2538.0 ppb	44.60	1.76%
QC value within limits for Si 251.611 Recovery = 101.52%							
Sn	189.927†	2217.7	504.57 ug/L	7.468	504.57 ppb	7.468	1.48%
QC value within limits for Sn 189.927 Recovery = 100.91%							
Sr	421.552†	51342.8	509.08 ug/L	21.585	509.08 ppb	21.585	4.24%
QC value within limits for Sr 421.552 Recovery = 101.82%							
Ti	334.940†	293459.4	498.62 ug/L	9.035	498.62 ppb	9.035	1.81%
QC value within limits for Ti 334.940 Recovery = 99.72%							
Tl	190.801†	1308.2	510.74 ug/L	5.474	510.74 ppb	5.474	1.07%
QC value within limits for Tl 190.801 Recovery = 102.15%							
U	409.014†	17944.5	522.29 ug/L	8.341	522.29 ppb	8.341	1.60%
QC value within limits for U 409.014 Recovery = 104.46%							
V	292.402†	64836.9	512.83 ug/L	9.032	512.83 ppb	9.032	1.76%
QC value within limits for V 292.402 Recovery = 102.57%							
Zn	213.857†	41973.9	504.53 ug/L	10.075	504.53 ppb	10.075	2.00%
QC value within limits for Zn 213.857 Recovery = 100.91%							
SiO2†		68289.9	5350.8 ug/L	121.37	5350.8 ppb	121.37	2.27%
QC value within limits for SiO2 Recovery = 100.06%							

All analyte(s) passed QC.

Sequence No.: 42
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/9/2010 22:34:28
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3132.0	3132.0	93.5 %		22:36:40
1	Y RADIAL	2555.9	2555.9	93.17 %		22:36:40
1	Al 396.153Radial†	-61.7	-6.0	-12.893 ug/L	-12.893 ppb	22:36:40
1	Ca 317.933Radial†	6.9	-2.8	-11.123 ug/L	-11.123 ppb	22:36:40
1	Fe 238.204 Radial†	8.3	0.2	6.0144 ug/L	6.0144 ppb	22:36:40
1	K 766.490 Radial†	2069.7	99.6	45.610 ug/L	45.610 ppb	22:36:20
1	Mg 279.077 IEC†	-1.2	-1.7	-167.56 ug/L	-167.56 ppb	22:36:40
1	Na 589.592 Radial†	-785.4	-57.6	-19.231 ug/L	-19.231 ppb	22:36:20
1	Sr 421.552†	9.3	-25.8	-0.2554 ug/L	-0.2554 ppb	22:36:20
1	Sc 361.383	832266.4	832266.4	99.703 %		22:37:37
1	Y 371.029	713617.8	713617.8	99.714 %		22:37:37
1	Ag 328.068†	149.7	-9.0	-0.0436 ug/L	-0.0436 ppb	22:37:37
1	As 188.979†	-13.1	2.9	1.5984 ug/L	1.5984 ppb	22:37:57
1	B 249.677†	-133.2	-43.4	-1.2178 ug/L	-1.2178 ppb	22:37:57
1	Ba 233.527†	-3.9	3.3	0.0311 ug/L	0.0311 ppb	22:37:57
1	Be 313.107†	-3486.9	115.3	0.0497 ug/L	0.0497 ppb	22:37:37
1	Cd 226.502†	-147.4	-6.3	-0.0899 ug/L	-0.0899 ppb	22:37:57
1	Co 228.616†	-49.9	-6.5	-0.1689 ug/L	-0.1689 ppb	22:37:57
1	Cr 267.716†	68.0	2.5	0.0326 ug/L	0.0326 ppb	22:37:57
1	Cu 324.752†	6012.4	-40.1	-0.1293 ug/L	-0.1293 ppb	22:37:37
1	Mn 257.610†	411.1	22.6	0.0371 ug/L	0.0371 ppb	22:37:57
1	Mo 202.031†	10.3	-3.5	-0.3007 ug/L	-0.3007 ppb	22:37:57
1	Ni 231.604†	110.6	57.8	1.8234 ug/L	1.8234 ppb	22:37:57
1	P 214.914†	175.5	0.6	0.4710 ug/L	0.4710 ppb	22:37:57
1	Pb 220.353†	-42.4	1.4	0.2074 ug/L	0.2074 ppb	22:37:57
1	S 181.975 Axial†	34.4	3.7	6.5899 ug/L	6.5899 ppb	22:37:57
1	Sb 206.836†	33.5	5.1	2.1112 ug/L	2.1112 ppb	22:37:57
1	Se 196.026†	-19.4	-0.2	-0.1493 ug/L	-0.1493 ppb	22:37:57
1	Si 251.611†	509.0	58.1	2.1580 ug/L	2.1580 ppb	22:37:57
1	Sn 189.927†	9.6	1.9	0.4191 ug/L	0.4191 ppb	22:37:57
1	Ti 334.940†	-977.5	-20.1	-0.0224 ug/L	-0.0224 ppb	22:37:37
1	Tl 190.801†	-26.6	4.3	1.6848 ug/L	1.6848 ppb	22:37:57
1	U 409.014†	-1966.5	30.8	0.8984 ug/L	0.8984 ppb	22:37:37
1	V 292.402†	-1229.0	14.1	0.1037 ug/L	0.1037 ppb	22:37:37
1	Zn 213.857†	605.9	105.3	1.2650 ug/L	1.2650 ppb	22:37:57
1	SiO2†	507.7	30.8	2.4240 ug/L	2.4240 ppb	22:39:08
2	Sc Radial	3361.8	3361.8	100 %		22:37:05
2	Y RADIAL	2730.2	2730.2	99.53 %		22:37:05
2	Al 396.153Radial†	-69.1	-8.8	-18.913 ug/L	-18.913 ppb	22:37:05
2	Ca 317.933Radial†	11.5	1.3	5.0859 ug/L	5.0859 ppb	22:37:05
2	Fe 238.204 Radial†	6.5	-2.1	-59.507 ug/L	-59.507 ppb	22:37:05
2	K 766.490 Radial†	2129.1	7.5	3.4266 ug/L	3.4266 ppb	22:36:45
2	Mg 279.077 IEC†	1.9	1.5	143.10 ug/L	143.10 ppb	22:37:05
2	Na 589.592 Radial†	-772.7	12.5	4.1896 ug/L	4.1896 ppb	22:36:45
2	Sr 421.552†	7.4	-28.3	-0.2808 ug/L	-0.2808 ppb	22:36:45
2	Sc 361.383	836737.3	836737.3	100.24 %		22:38:02
2	Y 371.029	716281.5	716281.5	100.09 %		22:38:02
2	Ag 328.068†	98.3	-61.0	-0.3270 ug/L	-0.3270 ppb	22:38:02
2	As 188.979†	-23.0	-6.9	-3.8694 ug/L	-3.8694 ppb	22:38:22
2	B 249.677†	-172.9	-82.2	-2.2952 ug/L	-2.2952 ppb	22:38:22
2	Ba 233.527†	2.3	9.5	0.0879 ug/L	0.0879 ppb	22:38:22
2	Be 313.107†	-3557.8	63.2	0.0273 ug/L	0.0273 ppb	22:38:02
2	Cd 226.502†	-142.7	-0.8	-0.0042 ug/L	-0.0042 ppb	22:38:22
2	Co 228.616†	-48.1	-4.4	-0.1129 ug/L	-0.1129 ppb	22:38:22
2	Cr 267.716†	60.9	-5.0	-0.0678 ug/L	-0.0678 ppb	22:38:22
2	Cu 324.752†	6031.0	-53.8	-0.1777 ug/L	-0.1777 ppb	22:38:02
2	Mn 257.610†	390.1	-0.5	-0.0123 ug/L	-0.0123 ppb	22:38:22
2	Mo 202.031†	12.6	-1.2	-0.1053 ug/L	-0.1053 ppb	22:38:22
2	Ni 231.604†	89.6	36.3	1.1448 ug/L	1.1448 ppb	22:38:22

2	P 214.914†	176.8	0.9	0.7856 ug/L	0.7856 ppb	22:38:22
2	Pb 220.353†	-38.8	5.2	0.8161 ug/L	0.8161 ppb	22:38:22
2	S 181.975 Axial†	28.7	-2.2	-3.9951 ug/L	-3.9951 ppb	22:38:22
2	Sb 206.836†	32.8	4.3	1.7544 ug/L	1.7544 ppb	22:38:22
2	Se 196.026†	-17.7	1.5	1.0831 ug/L	1.0831 ppb	22:38:22
2	Si 251.611†	505.4	51.8	1.9232 ug/L	1.9232 ppb	22:38:22
2	Sn 189.927†	3.3	-4.5	-1.0276 ug/L	-1.0276 ppb	22:38:22
2	Ti 334.940†	-968.0	-5.5	-0.0215 ug/L	-0.0215 ppb	22:38:02
2	Tl 190.801†	-32.6	-1.4	-0.5608 ug/L	-0.5608 ppb	22:38:22
2	U 409.014†	-1912.3	95.4	2.7930 ug/L	2.7930 ppb	22:38:02
2	V 292.402†	-1188.8	60.8	0.4898 ug/L	0.4898 ppb	22:38:02
2	Zn 213.857†	594.4	90.5	1.1005 ug/L	1.1005 ppb	22:38:22
2	SiO2†	515.5	35.8	2.8161 ug/L	2.8161 ppb	22:39:28
3	Sc Radial	3294.3	3294.3	98.3 %		22:37:30
3	Y RADIAL	2688.5	2688.5	98.00 %		22:37:30
3	Al 396.153Radial†	-63.6	-4.7	-10.022 ug/L	-10.022 ppb	22:37:30
3	Ca 317.933Radial†	10.6	0.6	2.3587 ug/L	2.3587 ppb	22:37:30
3	Fe 238.204 Radial†	9.3	0.8	23.302 ug/L	23.302 ppb	22:37:30
3	K 766.490 Radial†	2092.8	14.1	6.4398 ug/L	6.4398 ppb	22:37:10
3	Mg 279.077 IEC†	0.8	0.4	34.264 ug/L	34.264 ppb	22:37:30
3	Na 589.592 Radial†	-766.3	3.2	1.0733 ug/L	1.0733 ppb	22:37:10
3	Sr 421.552†	2.2	-33.4	-0.3316 ug/L	-0.3316 ppb	22:37:10
3	Sc 361.383	832755.6	832755.6	99.762 %		22:38:28
3	Y 371.029	712374.5	712374.5	99.540 %		22:38:28
3	Ag 328.068†	111.1	-47.7	-0.2349 ug/L	-0.2349 ppb	22:38:28
3	As 188.979†	-22.8	-6.9	-3.8269 ug/L	-3.8269 ppb	22:38:48
3	B 249.677†	-174.4	-84.7	-2.3764 ug/L	-2.3764 ppb	22:38:48
3	Ba 233.527†	-6.0	1.1	0.0119 ug/L	0.0119 ppb	22:38:48
3	Be 313.107†	-3552.7	51.4	0.0223 ug/L	0.0223 ppb	22:38:28
3	Cd 226.502†	-147.7	-6.5	-0.0949 ug/L	-0.0949 ppb	22:38:48
3	Co 228.616†	-48.1	-4.6	-0.1219 ug/L	-0.1219 ppb	22:38:48
3	Cr 267.716†	58.5	-7.1	-0.0924 ug/L	-0.0924 ppb	22:38:48
3	Cu 324.752†	6019.7	-36.4	-0.1176 ug/L	-0.1176 ppb	22:38:28
3	Mn 257.610†	379.7	-9.1	-0.0110 ug/L	-0.0110 ppb	22:38:48
3	Mo 202.031†	4.9	-8.8	-0.7609 ug/L	-0.7609 ppb	22:38:48
3	Ni 231.604†	106.3	53.5	1.6857 ug/L	1.6857 ppb	22:38:48
3	P 214.914†	172.6	-2.4	-1.8347 ug/L	-1.8347 ppb	22:38:48
3	Pb 220.353†	-45.0	-1.2	-0.1980 ug/L	-0.1980 ppb	22:38:48
3	S 181.975 Axial†	31.0	0.3	0.4629 ug/L	0.4629 ppb	22:38:48
3	Sb 206.836†	30.2	1.8	0.7590 ug/L	0.7590 ppb	22:38:48
3	Se 196.026†	-19.5	-0.3	-0.1969 ug/L	-0.1969 ppb	22:38:48
3	Si 251.611†	483.6	32.4	1.2098 ug/L	1.2098 ppb	22:38:48
3	Sn 189.927†	12.1	4.4	0.9878 ug/L	0.9878 ppb	22:38:48
3	Ti 334.940†	-919.7	38.3	0.0612 ug/L	0.0612 ppb	22:38:28
3	Tl 190.801†	-25.7	5.3	2.0533 ug/L	2.0533 ppb	22:38:48
3	U 409.014†	-1885.0	113.6	3.3156 ug/L	3.3156 ppb	22:38:28
3	V 292.402†	-1199.5	44.4	0.3392 ug/L	0.3392 ppb	22:38:28
3	Zn 213.857†	586.0	85.0	1.0170 ug/L	1.0170 ppb	22:38:48
3	SiO2†	509.5	32.2	2.5523 ug/L	2.5523 ppb	22:39:48

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	833919.8	99.901 %		0.2938			0.29%
Sc Radial	3262.7	97.4 %		3.53			3.62%
Y 371.029	714091.3	99.780 %		0.2789			0.28%
Y RADIAL	2658.2	96.90 %		3.318			3.42%
Ag 328.068†	-39.2	-0.2018 ug/L		0.14459	-0.2018 ppb	0.14459	71.64%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-6.5	-13.942 ug/L		4.5374	-13.942 ppb	4.5374	32.54%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-3.7	-2.0326 ug/L		3.14462	-2.0326 ppb	3.14462	154.71%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-70.1	-1.9631 ug/L		0.64676	-1.9631 ppb	0.64676	32.95%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	4.6	0.0436 ug/L		0.03950	0.0436 ppb	0.03950	90.56%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	76.6	0.0331 ug/L		0.01458	0.0331 ppb	0.01458	44.06%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-0.3	-1.2263 ug/L		8.67896	-1.2263 ppb	8.67896	707.76%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-4.5	-0.0630 ug/L	0.05100	-0.0630 ppb	0.05100	80.96%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-5.2	-0.1346 ug/L	0.03010	-0.1346 ppb	0.03010	22.37%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-3.2	-0.0425 ug/L	0.06621	-0.0425 ppb	0.06621	155.62%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-43.4	-0.1415 ug/L	0.03185	-0.1415 ppb	0.03185	22.50%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.4	-10.064 ug/L	43.6835	-10.064 ppb	43.6835	434.08%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	40.4	18.492 ug/L	23.5331	18.492 ppb	23.5331	127.26%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.0	3.2655 ug/L	157.63184	3.2655 ppb	157.63184	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	4.4	0.0046 ug/L	0.02816	0.0046 ppb	0.02816	611.77%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-4.5	-0.3890 ug/L	0.33661	-0.3890 ppb	0.33661	86.53%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-13.9	-4.6561 ug/L	12.71822	-4.6561 ppb	12.71822	273.15%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	49.2	1.5513 ug/L	0.35871	1.5513 ppb	0.35871	23.12%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.3	-0.1927 ug/L	1.43070	-0.1927 ppb	1.43070	742.43%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	1.8	0.2752 ug/L	0.51042	0.2752 ppb	0.51042	185.50%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	0.6	1.0192 ug/L	5.31438	1.0192 ppb	5.31438	521.41%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	3.7	1.5415 ug/L	0.70076	1.5415 ppb	0.70076	45.46%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.3	0.2456 ug/L	0.72570	0.2456 ppb	0.72570	295.46%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	47.4	1.7637 ug/L	0.49384	1.7637 ppb	0.49384	28.00%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	0.6	0.1264 ug/L	1.03908	0.1264 ppb	1.03908	822.05%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-29.2	-0.2892 ug/L	0.03881	-0.2892 ppb	0.03881	13.42%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	4.3	0.0058 ug/L	0.04801	0.0058 ppb	0.04801	830.18%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.7	1.0591 ug/L	1.41490	1.0591 ppb	1.41490	133.60%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	79.9	2.3357 ug/L	1.27186	2.3357 ppb	1.27186	54.45%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	39.8	0.3109 ug/L	0.19458	0.3109 ppb	0.19458	62.58%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	93.6	1.1275 ug/L	0.12620	1.1275 ppb	0.12620	11.19%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	32.9	2.5975 ug/L	0.19990	2.5975 ppb	0.19990	7.70%	
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: 3/9/2010 23:16:29

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	3292.5	3292.5	98.3 %		23:18:42
1	Y RADIAL	2682.1	2682.1	97.77 %		23:18:42
1	Al 396.153Radial†	2210.0	2308.9	4938.0 ug/L	4938.0 ppb	23:18:22
1	Ca 317.933Radial†	1263.8	1275.9	5063.4 ug/L	5063.4 ppb	23:18:42
1	Fe 238.204 Radial†	184.5	179.1	4992.7 ug/L	4992.7 ppb	23:18:42
1	K 766.490 Radial†	12741.9	10851.5	4961.2 ug/L	4961.2 ppb	23:18:22
1	Mg 279.077 IEC†	52.4	52.9	5132.1 ug/L	5132.1 ppb	23:18:42
1	Na 589.592 Radial†	27873.1	29145.9	9733.5 ug/L	9733.5 ppb	23:18:22
1	Sr 421.552†	50114.6	50960.3	505.29 ug/L	505.29 ppb	23:18:22
1	Sc 361.383	841353.0	841353.0	100.79 %		23:19:39
1	Y 371.029	711800.5	711800.5	99.460 %		23:19:39
1	Ag 328.068†	100310.8	99363.8	505.09 ug/L	505.09 ppb	23:19:44
1	As 188.979†	891.0	900.0	504.54 ug/L	504.54 ppb	23:20:04
1	B 249.677†	17429.7	17383.1	485.02 ug/L	485.02 ppb	23:19:44
1	Ba 233.527†	53851.8	53436.0	500.31 ug/L	500.31 ppb	23:19:44
1	Be 313.107†	1169714.2	1164139.7	503.52 ug/L	503.52 ppb	23:19:39
1	Cd 226.502†	34597.1	34467.0	498.14 ug/L	498.14 ppb	23:19:44
1	Co 228.616†	19761.3	19649.6	509.68 ug/L	509.68 ppb	23:19:44
1	Cr 267.716†	38574.1	38205.4	499.04 ug/L	499.04 ppb	23:19:44
1	Cu 324.752†	162611.4	155263.8	499.65 ug/L	499.65 ppb	23:19:44
1	Mn 257.610†	386080.4	382658.5	501.72 ug/L	501.72 ppb	23:19:39
1	Mo 202.031†	5838.8	5779.2	499.27 ug/L	499.27 ppb	23:20:04
1	Ni 231.604†	16282.6	16101.7	507.20 ug/L	507.20 ppb	23:19:44
1	P 214.914†	3487.3	3284.5	2397.3 ug/L	2397.3 ppb	23:20:04
1	Pb 220.353†	3240.6	3259.0	506.06 ug/L	506.06 ppb	23:20:04
1	S 181.975 Axial†	589.6	554.2	987.48 ug/L	987.48 ppb	23:20:04
1	Sb 206.836†	1249.0	1210.7	519.67 ug/L	519.67 ppb	23:20:04
1	Se 196.026†	602.0	616.5	518.24 ug/L	518.24 ppb	23:20:04
1	Si 251.611†	68637.3	67645.8	2502.1 ug/L	2502.1 ppb	23:19:44
1	Sn 189.927†	2225.8	2200.5	500.65 ug/L	500.65 ppb	23:20:04
1	Ti 334.940†	289673.9	288359.0	489.95 ug/L	489.95 ppb	23:19:44
1	Tl 190.801†	1272.0	1293.1	504.86 ug/L	504.86 ppb	23:20:04
1	U 409.014†	15714.6	17594.3	512.11 ug/L	512.11 ppb	23:19:44
1	V 292.402†	63092.0	63843.3	505.08 ug/L	505.08 ppb	23:19:44
1	Zn 213.857†	42206.3	41372.4	497.34 ug/L	497.34 ppb	23:19:44
1	SiO2†	68369.2	67353.7	5277.3 ug/L	5277.3 ppb	23:21:12
2	Sc Radial	3240.3	3240.3	96.7 %		23:19:07
2	Y RADIAL	2635.7	2635.7	96.08 %		23:19:07
2	Al 396.153Radial†	2219.6	2355.0	5036.9 ug/L	5036.9 ppb	23:18:47
2	Ca 317.933Radial†	1268.5	1301.4	5164.9 ug/L	5164.9 ppb	23:19:07
2	Fe 238.204 Radial†	187.7	185.5	5170.1 ug/L	5170.1 ppb	23:19:07
2	K 766.490 Radial†	12858.2	11180.7	5111.8 ug/L	5111.8 ppb	23:18:47
2	Mg 279.077 IEC†	50.9	52.1	5060.6 ug/L	5060.6 ppb	23:19:07
2	Na 589.592 Radial†	28065.7	29802.1	9952.6 ug/L	9952.6 ppb	23:18:47
2	Sr 421.552†	50448.2	52127.0	516.86 ug/L	516.86 ppb	23:18:47
2	Sc 361.383	834391.9	834391.9	99.958 %		23:20:10
2	Y 371.029	705673.9	705673.9	98.604 %		23:20:10
2	Ag 328.068†	100528.1	100411.6	510.45 ug/L	510.45 ppb	23:20:15
2	As 188.979†	883.1	899.4	504.29 ug/L	504.29 ppb	23:20:35
2	B 249.677†	17543.7	17641.3	492.22 ug/L	492.22 ppb	23:20:15
2	Ba 233.527†	53881.1	53911.1	504.76 ug/L	504.76 ppb	23:20:15
2	Be 313.107†	1167602.1	1171708.6	506.79 ug/L	506.79 ppb	23:20:10
2	Cd 226.502†	34584.0	34740.2	502.08 ug/L	502.08 ppb	23:20:15
2	Co 228.616†	19774.8	19826.7	514.27 ug/L	514.27 ppb	23:20:15
2	Cr 267.716†	38609.9	38560.5	503.69 ug/L	503.69 ppb	23:20:15
2	Cu 324.752†	162959.7	156958.2	505.11 ug/L	505.11 ppb	23:20:15
2	Mn 257.610†	385687.4	385460.9	505.42 ug/L	505.42 ppb	23:20:10
2	Mo 202.031†	5839.5	5828.2	503.52 ug/L	503.52 ppb	23:20:35
2	Ni 231.604†	16253.1	16207.0	510.52 ug/L	510.52 ppb	23:20:15

2	P 214.914†	3475.3	3301.4	2408.9 ug/L	2408.9 ppb	23:20:35
2	Pb 220.353†	3211.6	3256.9	505.73 ug/L	505.73 ppb	23:20:35
2	S 181.975 Axial†	587.2	556.5	991.72 ug/L	991.72 ppb	23:20:35
2	Sb 206.836†	1238.2	1210.2	519.53 ug/L	519.53 ppb	23:20:35
2	Se 196.026†	610.9	630.4	530.09 ug/L	530.09 ppb	23:20:35
2	Si 251.611†	68725.9	68302.6	2526.4 ug/L	2526.4 ppb	23:20:15
2	Sn 189.927†	2203.4	2196.5	499.74 ug/L	499.74 ppb	23:20:35
2	Ti 334.940†	290340.0	291423.1	495.18 ug/L	495.18 ppb	23:20:15
2	Tl 190.801†	1267.6	1299.2	507.28 ug/L	507.28 ppb	23:20:35
2	U 409.014†	15759.4	17769.2	517.19 ug/L	517.19 ppb	23:20:15
2	V 292.402†	63181.1	64454.6	509.89 ug/L	509.89 ppb	23:20:15
2	Zn 213.857†	42242.7	41758.1	501.96 ug/L	501.96 ppb	23:20:15
2	SiO2†	69720.0	69271.0	5427.8 ug/L	5427.8 ppb	23:21:17
3	Sc Radial	3309.8	3309.8	98.8 %		23:19:32
3	Y RADIAL	2699.2	2699.2	98.40 %		23:19:32
3	Al 396.153Radial†	2256.5	2344.1	5013.8 ug/L	5013.8 ppb	23:19:12
3	Ca 317.933Radial†	1273.2	1278.6	5074.4 ug/L	5074.4 ppb	23:19:32
3	Fe 238.204 Radial†	189.3	183.0	5102.5 ug/L	5102.5 ppb	23:19:32
3	K 766.490 Radial†	12986.7	11031.5	5043.6 ug/L	5043.6 ppb	23:19:12
3	Mg 279.077 IEC†	56.5	56.8	5507.4 ug/L	5507.4 ppb	23:19:32
3	Na 589.592 Radial†	28108.5	29235.7	9763.4 ug/L	9763.4 ppb	23:19:12
3	Sr 421.552†	50883.6	51471.7	510.36 ug/L	510.36 ppb	23:19:12
3	Sc 361.383	846876.4	846876.4	101.45 %		23:20:41
3	Y 371.029	717542.7	717542.7	100.26 %		23:20:41
3	Ag 328.068†	101313.4	99703.0	506.84 ug/L	506.84 ppb	23:20:46
3	As 188.979†	885.1	888.4	498.10 ug/L	498.10 ppb	23:21:06
3	B 249.677†	17650.0	17487.4	487.93 ug/L	487.93 ppb	23:20:46
3	Ba 233.527†	54375.8	53604.1	501.89 ug/L	501.89 ppb	23:20:46
3	Be 313.107†	1171518.8	1158349.4	501.02 ug/L	501.02 ppb	23:20:41
3	Cd 226.502†	34925.4	34566.6	499.57 ug/L	499.57 ppb	23:20:46
3	Co 228.616†	19918.5	19676.7	510.38 ug/L	510.38 ppb	23:20:46
3	Cr 267.716†	38981.5	38357.4	501.03 ug/L	501.03 ppb	23:20:46
3	Cu 324.752†	163947.2	155528.2	500.50 ug/L	500.50 ppb	23:20:46
3	Mn 257.610†	385276.1	379367.4	497.41 ug/L	497.41 ppb	23:20:41
3	Mo 202.031†	5868.1	5770.2	498.50 ug/L	498.50 ppb	23:21:06
3	Ni 231.604†	16383.0	16095.3	507.00 ug/L	507.00 ppb	23:20:46
3	P 214.914†	3489.0	3263.6	2381.2 ug/L	2381.2 ppb	23:21:06
3	Pb 220.353†	3227.1	3224.8	500.76 ug/L	500.76 ppb	23:21:06
3	S 181.975 Axial†	596.4	557.0	992.59 ug/L	992.59 ppb	23:21:06
3	Sb 206.836†	1231.2	1185.1	508.96 ug/L	508.96 ppb	23:21:06
3	Se 196.026†	611.0	621.4	522.59 ug/L	522.59 ppb	23:21:06
3	Si 251.611†	69066.2	67624.4	2501.3 ug/L	2501.3 ppb	23:20:46
3	Sn 189.927†	2222.4	2182.7	496.60 ug/L	496.60 ppb	23:21:06
3	Ti 334.940†	292353.5	289125.8	491.23 ug/L	491.23 ppb	23:20:46
3	Tl 190.801†	1283.8	1296.5	506.18 ug/L	506.18 ppb	23:21:06
3	U 409.014†	15834.9	17611.2	512.59 ug/L	512.59 ppb	23:20:46
3	V 292.402†	63793.9	64126.8	507.27 ug/L	507.27 ppb	23:20:46
3	Zn 213.857†	42487.2	41376.1	497.37 ug/L	497.37 ppb	23:20:46
3	SiO2†	68979.4	67512.8	5289.8 ug/L	5289.8 ppb	23:21:22

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	840873.8	100.73 %		0.749			0.74%
Sc Radial	3280.9	97.9 %		1.08			1.10%
Y 371.029	711672.4	99.442 %		0.8294			0.83%
Y RADIAL	2672.4	97.42 %		1.199			1.23%
Ag 328.068†	99826.2	507.46 ug/L		2.734	507.46 ppb	2.734	0.54%
QC value within limits for Ag 328.068 Recovery = 101.49%							
Al 396.153Radial†	2336.0	4996.3 ug/L		51.72	4996.3 ppb	51.72	1.04%
QC value within limits for Al 396.153Radial Recovery = 99.93%							
As 188.979†	895.9	502.31 ug/L		3.647	502.31 ppb	3.647	0.73%
QC value within limits for As 188.979 Recovery = 100.46%							
B 249.677†	17503.9	488.39 ug/L		3.621	488.39 ppb	3.621	0.74%
QC value within limits for B 249.677 Recovery = 97.68%							
Ba 233.527†	53650.4	502.32 ug/L		2.258	502.32 ppb	2.258	0.45%
QC value within limits for Ba 233.527 Recovery = 100.46%							
Be 313.107†	1164732.6	503.78 ug/L		2.896	503.78 ppb	2.896	0.57%
QC value within limits for Be 313.107 Recovery = 100.76%							
Ca 317.933Radial†	1285.3	5100.9 ug/L		55.70	5100.9 ppb	55.70	1.09%

QC value within limits for Ca 317.933 Radial Recovery = 102.02%

Cd 226.502†	34591.3	499.93 ug/L	1.991	499.93 ppb	1.991	0.40%
QC value within limits for Cd 226.502 Recovery = 99.99%						
Co 228.616†	19717.7	511.44 ug/L	2.474	511.44 ppb	2.474	0.48%
QC value within limits for Co 228.616 Recovery = 102.29%						
Cr 267.716†	38374.4	501.26 ug/L	2.330	501.26 ppb	2.330	0.46%
QC value within limits for Cr 267.716 Recovery = 100.25%						
Cu 324.752†	155916.8	501.75 ug/L	2.936	501.75 ppb	2.936	0.59%
QC value within limits for Cu 324.752 Recovery = 100.35%						
Fe 238.204 Radial†	182.5	5088.4 ug/L	89.53	5088.4 ppb	89.53	1.76%
QC value within limits for Fe 238.204 Radial Recovery = 101.77%						
K 766.490 Radial†	11021.2	5038.9 ug/L	75.39	5038.9 ppb	75.39	1.50%
QC value within limits for K 766.490 Radial Recovery = 100.78%						
Mg 279.077 IEC†	53.9	5233.4 ug/L	240.02	5233.4 ppb	240.02	4.59%
QC value within limits for Mg 279.077 IEC Recovery = 104.67%						
Mn 257.610†	382495.6	501.52 ug/L	4.009	501.52 ppb	4.009	0.80%
QC value within limits for Mn 257.610 Recovery = 100.30%						
Mo 202.031†	5792.5	500.43 ug/L	2.701	500.43 ppb	2.701	0.54%
QC value within limits for Mo 202.031 Recovery = 100.09%						
Na 589.592 Radial†	29394.5	9816.5 ug/L	118.81	9816.5 ppb	118.81	1.21%
QC value within limits for Na 589.592 Radial Recovery = 98.16%						
Ni 231.604†	16134.7	508.24 ug/L	1.975	508.24 ppb	1.975	0.39%
QC value within limits for Ni 231.604 Recovery = 101.65%						
P 214.914†	3283.2	2395.8 ug/L	13.94	2395.8 ppb	13.94	0.58%
QC value within limits for P 214.914 Recovery = 95.83%						
Pb 220.353†	3246.9	504.18 ug/L	2.967	504.18 ppb	2.967	0.59%
QC value within limits for Pb 220.353 Recovery = 100.84%						
S 181.975 Axial†	555.9	990.59 ug/L	2.734	990.59 ppb	2.734	0.28%
QC value within limits for S 181.975 Axial Recovery = 99.06%						
Sb 206.836†	1202.0	516.05 ug/L	6.141	516.05 ppb	6.141	1.19%
QC value within limits for Sb 206.836 Recovery = 103.21%						
Se 196.026†	622.8	523.64 ug/L	5.994	523.64 ppb	5.994	1.14%
QC value within limits for Se 196.026 Recovery = 104.73%						
Si 251.611†	67857.6	2509.9 ug/L	14.26	2509.9 ppb	14.26	0.57%
QC value within limits for Si 251.611 Recovery = 100.40%						
Sn 189.927†	2193.3	499.00 ug/L	2.124	499.00 ppb	2.124	0.43%
QC value within limits for Sn 189.927 Recovery = 99.80%						
Sr 421.552†	51519.7	510.83 ug/L	5.799	510.83 ppb	5.799	1.14%
QC value within limits for Sr 421.552 Recovery = 102.17%						
Ti 334.940†	289636.0	492.12 ug/L	2.724	492.12 ppb	2.724	0.55%
QC value within limits for Ti 334.940 Recovery = 98.42%						
Tl 190.801†	1296.3	506.11 ug/L	1.214	506.11 ppb	1.214	0.24%
QC value within limits for Tl 190.801 Recovery = 101.22%						
U 409.014†	17658.2	513.96 ug/L	2.803	513.96 ppb	2.803	0.55%
QC value within limits for U 409.014 Recovery = 102.79%						
V 292.402†	64141.5	507.41 ug/L	2.407	507.41 ppb	2.407	0.47%
QC value within limits for V 292.402 Recovery = 101.48%						
Zn 213.857†	41502.2	498.89 ug/L	2.662	498.89 ppb	2.662	0.53%
QC value within limits for Zn 213.857 Recovery = 99.78%						
SiO2†	68045.8	5331.6 ug/L	83.51	5331.6 ppb	83.51	1.57%
QC value within limits for SiO2 Recovery = 99.70%						

All analyte(s) passed QC.

Sequence No.: 49
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/9/2010 23:23:31
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3275.6	3275.6	97.8 %		23:25:43
1	Y RADIAL	2685.2	2685.2	97.88 %		23:25:43
1	Al 396.153Radial†	-65.8	-7.3	-15.729 ug/L	-15.729 ppb	23:25:43
1	Ca 317.933Radial†	9.2	-0.8	-3.2989 ug/L	-3.2989 ppb	23:25:43
1	Fe 238.204 Radial†	7.9	-0.6	-15.512 ug/L	-15.512 ppb	23:25:43
1	K 766.490 Radial†	2068.1	0.9	0.4084 ug/L	0.4084 ppb	23:25:23
1	Mg 279.077 IEC†	1.8	1.4	137.50 ug/L	137.50 ppb	23:25:43
1	Na 589.592 Radial†	-763.0	2.2	0.7347 ug/L	0.7347 ppb	23:25:23
1	Sr 421.552†	25.6	-9.5	-0.0941 ug/L	-0.0941 ppb	23:25:23
1	Sc 361.383	812786.8	812786.8	97.369 %		23:26:40
1	Y 371.029	696362.7	696362.7	97.303 %		23:26:40
1	Ag 328.068†	141.0	-14.3	-0.0722 ug/L	-0.0722 ppb	23:26:40
1	As 188.979†	-15.8	-0.2	-0.1403 ug/L	-0.1403 ppb	23:27:00
1	B 249.677†	-264.2	-181.1	-5.0739 ug/L	-5.0739 ppb	23:27:00
1	Ba 233.527†	-8.6	-1.6	-0.0148 ug/L	-0.0148 ppb	23:27:00
1	Be 313.107†	-3518.2	-0.7	-0.0002 ug/L	-0.0002 ppb	23:26:40
1	Cd 226.502†	-153.5	-16.1	-0.2299 ug/L	-0.2299 ppb	23:27:00
1	Co 228.616†	-42.2	0.2	0.0050 ug/L	0.0050 ppb	23:27:00
1	Cr 267.716†	54.5	-9.8	-0.1261 ug/L	-0.1261 ppb	23:27:00
1	Cu 324.752†	6107.5	202.0	0.6512 ug/L	0.6512 ppb	23:26:40
1	Mn 257.610†	394.2	15.2	0.0127 ug/L	0.0127 ppb	23:27:00
1	Mo 202.031†	11.1	-2.3	-0.2018 ug/L	-0.2018 ppb	23:27:00
1	Ni 231.604†	113.6	63.6	2.0044 ug/L	2.0044 ppb	23:27:00
1	P 214.914†	168.6	-2.3	-1.8455 ug/L	-1.8455 ppb	23:27:00
1	Pb 220.353†	-48.0	-5.4	-0.8323 ug/L	-0.8323 ppb	23:27:00
1	S 181.975 Axial†	30.0	-0.1	-0.1486 ug/L	-0.1486 ppb	23:27:00
1	Sb 206.836†	22.8	-5.1	-2.0964 ug/L	-2.0964 ppb	23:27:00
1	Se 196.026†	-20.8	-2.1	-1.7516 ug/L	-1.7516 ppb	23:27:00
1	Si 251.611†	512.6	74.0	2.7460 ug/L	2.7460 ppb	23:27:00
1	Sn 189.927†	7.2	-0.4	-0.1004 ug/L	-0.1004 ppb	23:27:00
1	Ti 334.940†	-902.3	33.6	0.0469 ug/L	0.0469 ppb	23:26:40
1	Tl 190.801†	-19.8	10.8	4.1702 ug/L	4.1702 ppb	23:27:00
1	U 409.014†	-2058.4	-110.8	-3.2347 ug/L	-3.2347 ppb	23:26:40
1	V 292.402†	-1153.8	61.8	0.4784 ug/L	0.4784 ppb	23:26:40
1	Zn 213.857†	576.4	89.5	1.0748 ug/L	1.0748 ppb	23:27:00
1	SiO2†	512.9	48.3	3.7974 ug/L	3.7974 ppb	23:28:11
2	Sc Radial	3286.1	3286.1	98.1 %		23:26:08
2	Y RADIAL	2689.8	2689.8	98.05 %		23:26:08
2	Al 396.153Radial†	-65.3	-6.6	-14.098 ug/L	-14.098 ppb	23:26:08
2	Ca 317.933Radial†	6.8	-3.3	-13.106 ug/L	-13.106 ppb	23:26:08
2	Fe 238.204 Radial†	9.0	0.5	14.694 ug/L	14.694 ppb	23:26:08
2	K 766.490 Radial†	1939.6	-136.8	-62.627 ug/L	-62.627 ppb	23:25:48
2	Mg 279.077 IEC†	4.7	4.3	418.53 ug/L	418.53 ppb	23:26:08
2	Na 589.592 Radial†	-814.7	-48.0	-16.029 ug/L	-16.029 ppb	23:25:48
2	Sr 421.552†	5.1	-30.4	-0.3018 ug/L	-0.3018 ppb	23:25:48
2	Sc 361.383	820415.9	820415.9	98.283 %		23:27:05
2	Y 371.029	702619.9	702619.9	98.177 %		23:27:05
2	Ag 328.068†	145.0	-11.5	-0.0523 ug/L	-0.0523 ppb	23:27:05
2	As 188.979†	-27.0	-11.6	-6.4186 ug/L	-6.4186 ppb	23:27:25
2	B 249.677†	-239.4	-153.4	-4.3027 ug/L	-4.3027 ppb	23:27:25
2	Ba 233.527†	-0.9	6.3	0.0592 ug/L	0.0592 ppb	23:27:25
2	Be 313.107†	-3588.0	-38.1	-0.0167 ug/L	-0.0167 ppb	23:27:05
2	Cd 226.502†	-152.3	-13.4	-0.1942 ug/L	-0.1942 ppb	23:27:25
2	Co 228.616†	-34.6	8.3	0.2154 ug/L	0.2154 ppb	23:27:25
2	Cr 267.716†	74.2	9.8	0.1291 ug/L	0.1291 ppb	23:27:25
2	Cu 324.752†	6143.7	180.6	0.5828 ug/L	0.5828 ppb	23:27:05
2	Mn 257.610†	410.5	28.0	0.0211 ug/L	0.0211 ppb	23:27:25
2	Mo 202.031†	9.6	-4.0	-0.3429 ug/L	-0.3429 ppb	23:27:25
2	Ni 231.604†	103.9	52.7	1.6595 ug/L	1.6595 ppb	23:27:25

2	P 214.914†	184.6	12.4	9.2841 ug/L	9.2841 ppb	23:27:25
2	Pb 220.353†	-48.5	-5.4	-0.8467 ug/L	-0.8467 ppb	23:27:25
2	S 181.975 Axial†	30.1	-0.2	-0.4041 ug/L	-0.4041 ppb	23:27:25
2	Sb 206.836†	25.4	-2.6	-1.1165 ug/L	-1.1165 ppb	23:27:25
2	Se 196.026†	-15.6	3.4	2.7693 ug/L	2.7693 ppb	23:27:25
2	Si 251.611†	535.6	92.5	3.4343 ug/L	3.4343 ppb	23:27:25
2	Sn 189.927†	3.6	-4.2	-0.9464 ug/L	-0.9464 ppb	23:27:25
2	Ti 334.940†	-1007.0	-64.3	-0.1446 ug/L	-0.1446 ppb	23:27:05
2	Tl 190.801†	-29.4	1.1	0.4441 ug/L	0.4441 ppb	23:27:25
2	U 409.014†	-2021.1	-53.2	-1.5560 ug/L	-1.5560 ppb	23:27:05
2	V 292.402†	-1226.4	-1.1	-0.0105 ug/L	-0.0105 ppb	23:27:05
2	Zn 213.857†	574.2	81.8	0.9789 ug/L	0.9789 ppb	23:27:25
2	SiO2†	566.4	97.8	7.6930 ug/L	7.6930 ppb	23:28:31
3	Sc Radial	3286.6	3286.6	98.1 %		23:26:33
3	Y RADIAL	2699.0	2699.0	98.39 %		23:26:33
3	Al 396.153Radial†	-70.4	-11.7	-25.258 ug/L	-25.258 ppb	23:26:33
3	Ca 317.933Radial†	5.5	-4.7	-18.461 ug/L	-18.461 ppb	23:26:33
3	Fe 238.204 Radial†	9.4	0.9	24.981 ug/L	24.981 ppb	23:26:33
3	K 766.490 Radial†	2081.7	7.7	3.5381 ug/L	3.5381 ppb	23:26:13
3	Mg 279.077 IEC†	2.5	2.1	199.73 ug/L	199.73 ppb	23:26:33
3	Na 589.592 Radial†	-800.9	-33.8	-11.293 ug/L	-11.293 ppb	23:26:13
3	Sr 421.552†	15.6	-19.8	-0.1958 ug/L	-0.1958 ppb	23:26:13
3	Sc 361.383	895549.4	895549.4	107.28 %		23:27:30
3	Y 371.029	766753.8	766753.8	107.14 %		23:27:30
3	Ag 328.068†	188.1	16.3	0.0874 ug/L	0.0874 ppb	23:27:30
3	As 188.979†	-20.0	-2.7	-1.5052 ug/L	-1.5052 ppb	23:27:50
3	B 249.677†	-262.6	-154.5	-4.3360 ug/L	-4.3360 ppb	23:27:50
3	Ba 233.527†	1.9	9.0	0.0863 ug/L	0.0863 ppb	23:27:50
3	Be 313.107†	-3483.1	366.0	0.1584 ug/L	0.1584 ppb	23:27:30
3	Cd 226.502†	-135.6	15.2	0.2199 ug/L	0.2199 ppb	23:27:50
3	Co 228.616†	-49.3	-2.4	-0.0610 ug/L	-0.0610 ppb	23:27:50
3	Cr 267.716†	60.1	-9.7	-0.1273 ug/L	-0.1273 ppb	23:27:50
3	Cu 324.752†	6095.2	-389.1	-1.2551 ug/L	-1.2551 ppb	23:27:30
3	Mn 257.610†	374.9	-40.2	-0.0584 ug/L	-0.0584 ppb	23:27:50
3	Mo 202.031†	20.8	5.6	0.4868 ug/L	0.4868 ppb	23:27:50
3	Ni 231.604†	110.3	49.8	1.5698 ug/L	1.5698 ppb	23:27:50
3	P 214.914†	170.3	-16.7	-12.443 ug/L	-12.443 ppb	23:27:50
3	Pb 220.353†	-45.8	1.2	0.1823 ug/L	0.1823 ppb	23:27:50
3	S 181.975 Axial†	29.6	-3.3	-5.7935 ug/L	-5.7935 ppb	23:27:50
3	Sb 206.836†	23.1	-7.0	-2.8900 ug/L	-2.8900 ppb	23:27:50
3	Se 196.026†	-23.2	-2.4	-1.9287 ug/L	-1.9287 ppb	23:27:50
3	Si 251.611†	522.3	34.5	1.2714 ug/L	1.2714 ppb	23:27:50
3	Sn 189.927†	4.7	-3.4	-0.7866 ug/L	-0.7866 ppb	23:27:50
3	Ti 334.940†	-898.0	123.2	0.1872 ug/L	0.1872 ppb	23:27:30
3	Tl 190.801†	-28.5	4.5	1.7452 ug/L	1.7452 ppb	23:27:50
3	U 409.014†	-1863.7	266.0	7.7660 ug/L	7.7660 ppb	23:27:30
3	V 292.402†	-1216.3	113.1	0.9043 ug/L	0.9043 ppb	23:27:30
3	Zn 213.857†	566.5	25.6	0.2984 ug/L	0.2984 ppb	23:27:50
3	SiO2†	497.7	-14.6	-1.1605 ug/L	-1.1605 ppb	23:28:51

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842917.4	100.98 %	5.480			5.43%
Sc Radial	3282.8	98.0 %	0.19			0.19%
Y 371.029	721912.1	100.87 %	5.444			5.40%
Y RADIAL	2691.3	98.11 %	0.255			0.26%
Ag 328.068†	-3.2	-0.0124 ug/L	0.08698	-0.0124 ppb	0.08698	702.29%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-8.5	-18.362 ug/L	6.0279	-18.362 ppb	6.0279	32.83%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-4.8	-2.6880 ug/L	3.30210	-2.6880 ppb	3.30210	122.84%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-163.0	-4.5709 ug/L	0.43597	-4.5709 ppb	0.43597	9.54%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.5	0.0436 ug/L	0.05234	0.0436 ppb	0.05234	120.08%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	109.0	0.0472 ug/L	0.09669	0.0472 ppb	0.09669	204.97%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.9	-11.622 ug/L	7.6892	-11.622 ppb	7.6892	66.16%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-4.7	-0.0680 ug/L	0.25002	-0.0680 ppb	0.25002 367.45%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	2.1	0.0531 ug/L	0.14435	0.0531 ppb	0.14435 271.60%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-3.2	-0.0414 ug/L	0.14765	-0.0414 ppb	0.14765 356.41%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-2.1	-0.0070 ug/L	1.08137	-0.0070 ppb	1.08137 >999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	0.3	8.0543 ug/L	21.04749	8.0543 ppb	21.04749 261.32%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-42.7	-19.560 ug/L	37.3297	-19.560 ppb	37.3297 190.85%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	2.6	251.92 ug/L	147.604	251.92 ppb	147.604 58.59%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	1.0	-0.0082 ug/L	0.04366	-0.0082 ppb	0.04366 533.30%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-0.2	-0.0193 ug/L	0.44392	-0.0193 ppb	0.44392 >999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-26.5	-8.8626 ug/L	8.64215	-8.8626 ppb	8.64215 97.51%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	55.4	1.7445 ug/L	0.22946	1.7445 ppb	0.22946 13.15%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-2.2	-1.6682 ug/L	10.86484	-1.6682 ppb	10.86484 651.27%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-3.2	-0.4989 ug/L	0.58997	-0.4989 ppb	0.58997 118.25%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-1.2	-2.1154 ug/L	3.18792	-2.1154 ppb	3.18792 150.70%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-4.9	-2.0343 ug/L	0.88838	-2.0343 ppb	0.88838 43.67%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-0.4	-0.3037 ug/L	2.66276	-0.3037 ppb	2.66276 876.91%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	67.0	2.4839 ug/L	1.10501	2.4839 ppb	1.10501 44.49%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-2.7	-0.6111 ug/L	0.44944	-0.6111 ppb	0.44944 73.54%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-19.9	-0.1972 ug/L	0.10387	-0.1972 ppb	0.10387 52.67%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	30.8	0.0298 ug/L	0.16660	0.0298 ppb	0.16660 558.56%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	5.5	2.1198 ug/L	1.89108	2.1198 ppb	1.89108 89.21%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	34.0	0.9918 ug/L	5.92639	0.9918 ppb	5.92639 597.56%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	57.9	0.4574 ug/L	0.45775	0.4574 ppb	0.45775 100.08%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	65.6	0.7840 ug/L	0.42328	0.7840 ppb	0.42328 53.99%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	43.8	3.4433 ug/L	4.43736	3.4433 ppb	4.43736 128.87%
QC value within limits for SiO2 Recovery = Not calculated					
All analyte(s) passed QC.					

Sequence No.: 58

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/10/2010 00:27:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3349.4	3349.4	100.0 %			00:29:16
1	Y RADIAL	2723.1	2723.1	99.26 %			00:29:16
1	Al 396.153Radial†	2313.3	2374.0	5079.2 ug/L		5079.2 ppb	00:28:56
1	Ca 317.933Radial†	1280.8	1270.9	5043.8 ug/L		5043.8 ppb	00:29:16
1	Fe 238.204 Radial†	190.1	181.5	5059.1 ug/L		5059.1 ppb	00:29:16
1	K 766.490 Radial†	13037.3	10926.9	4995.6 ug/L		4995.6 ppb	00:28:56
1	Mg 279.077 IEC†	54.8	54.4	5280.1 ug/L		5280.1 ppb	00:29:16
1	Na 589.592 Radial†	29690.6	30482.3	10180 ug/L		10180 ppb	00:28:56
1	Sr 421.552†	52895.1	52875.7	524.28 ug/L		524.28 ppb	00:28:56
1	Sc 361.383	886391.6	886391.6	106.19 %			00:30:13
1	Y 371.029	749522.8	749522.8	104.73 %			00:30:13
1	Ag 328.068†	100885.2	94847.9	482.22 ug/L		482.22 ppb	00:30:18
1	As 188.979†	887.8	852.0	477.75 ug/L		477.75 ppb	00:30:38
1	B 249.677†	17716.9	16774.8	468.03 ug/L		468.03 ppb	00:30:18
1	Ba 233.527†	54229.9	51077.4	478.24 ug/L		478.24 ppb	00:30:18
1	Be 313.107†	1149757.1	1086377.7	469.91 ug/L		469.91 ppb	00:30:13
1	Cd 226.502†	34872.7	32982.4	476.66 ug/L		476.66 ppb	00:30:18
1	Co 228.616†	19849.8	18736.8	485.99 ug/L		485.99 ppb	00:30:18
1	Cr 267.716†	38837.4	36508.7	476.89 ug/L		476.89 ppb	00:30:18
1	Cu 324.752†	163598.1	147995.4	476.27 ug/L		476.27 ppb	00:30:18
1	Mn 257.610†	379296.0	356806.2	467.85 ug/L		467.85 ppb	00:30:13
1	Mo 202.031†	5850.5	5495.8	474.82 ug/L		474.82 ppb	00:30:38
1	Ni 231.604†	16362.8	15356.4	483.73 ug/L		483.73 ppb	00:30:18
1	P 214.914†	3500.9	3121.5	2277.9 ug/L		2277.9 ppb	00:30:38
1	Pb 220.353†	3225.4	3081.4	478.52 ug/L		478.52 ppb	00:30:38
1	S 181.975 Axial†	594.4	528.9	942.42 ug/L		942.42 ppb	00:30:38
1	Sb 206.836†	1249.3	1148.1	492.80 ug/L		492.80 ppb	00:30:38
1	Se 196.026†	601.4	585.6	493.24 ug/L		493.24 ppb	00:30:38
1	Si 251.611†	69378.0	64883.2	2399.9 ug/L		2399.9 ppb	00:30:18
1	Sn 189.927†	2223.6	2086.2	474.66 ug/L		474.66 ppb	00:30:38
1	Ti 334.940†	291543.3	275516.5	468.13 ug/L		468.13 ppb	00:30:18
1	Tl 190.801†	1279.7	1236.2	482.61 ug/L		482.61 ppb	00:30:38
1	U 409.014†	15903.7	16980.2	494.22 ug/L		494.22 ppb	00:30:18
1	V 292.402†	63561.2	61104.5	483.34 ug/L		483.34 ppb	00:30:18
1	Zn 213.857†	42469.1	39492.1	474.69 ug/L		474.69 ppb	00:30:18
1	SiO2†	69230.9	64718.6	5071.0 ug/L		5071.0 ppb	00:31:46
2	Sc Radial	3073.9	3073.9	91.7 %			00:29:41
2	Y RADIAL	2499.7	2499.7	91.12 %			00:29:41
2	Al 396.153Radial†	2272.8	2537.2	5428.4 ug/L		5428.4 ppb	00:29:21
2	Ca 317.933Radial†	1287.7	1393.4	5529.7 ug/L		5529.7 ppb	00:29:41
2	Fe 238.204 Radial†	193.7	202.4	5642.7 ug/L		5642.7 ppb	00:29:41
2	K 766.490 Radial†	13000.7	12055.9	5511.9 ug/L		5511.9 ppb	00:29:21
2	Mg 279.077 IEC†	57.0	61.7	5984.8 ug/L		5984.8 ppb	00:29:41
2	Na 589.592 Radial†	29590.6	33035.2	11032 ug/L		11032 ppb	00:29:21
2	Sr 421.552†	52727.0	57434.8	569.49 ug/L		569.49 ppb	00:29:21
2	Sc 361.383	833559.2	833559.2	99.858 %			00:30:44
2	Y 371.029	704752.7	704752.7	98.475 %			00:30:44
2	Ag 328.068†	100893.4	100877.8	512.96 ug/L		512.96 ppb	00:30:49
2	As 188.979†	894.1	911.4	511.07 ug/L		511.07 ppb	00:31:09
2	B 249.677†	17711.1	17826.5	497.32 ug/L		497.32 ppb	00:30:49
2	Ba 233.527†	54231.4	54315.7	508.57 ug/L		508.57 ppb	00:30:49
2	Be 313.107†	1176721.7	1182008.0	511.25 ug/L		511.25 ppb	00:30:44
2	Cd 226.502†	35024.4	35215.8	508.91 ug/L		508.91 ppb	00:30:49
2	Co 228.616†	19957.6	20029.5	519.52 ug/L		519.52 ppb	00:30:49
2	Cr 267.716†	39095.8	39085.7	510.56 ug/L		510.56 ppb	00:30:49
2	Cu 324.752†	163510.9	157673.0	507.43 ug/L		507.43 ppb	00:30:49
2	Mn 257.610†	389137.7	389301.6	510.46 ug/L		510.46 ppb	00:30:44
2	Mo 202.031†	5878.8	5873.4	507.46 ug/L		507.46 ppb	00:31:09
2	Ni 231.604†	16432.2	16402.5	516.68 ug/L		516.68 ppb	00:30:49

2	P 214.914†	3500.6	3330.2	2430.1 ug/L	2430.1 ppb	00:31:09
2	Pb 220.353†	3250.8	3299.4	512.34 ug/L	512.34 ppb	00:31:09
2	S 181.975 Axial†	591.8	561.8	1001.1 ug/L	1001.1 ppb	00:31:09
2	Sb 206.836†	1249.8	1223.1	525.03 ug/L	525.03 ppb	00:31:09
2	Se 196.026†	603.4	623.5	525.92 ug/L	525.92 ppb	00:31:09
2	Si 251.611†	69262.4	68908.5	2548.8 ug/L	2548.8 ppb	00:30:49
2	Sn 189.927†	2222.1	2217.4	504.52 ug/L	504.52 ppb	00:31:09
2	Ti 334.940†	292303.4	293679.4	498.98 ug/L	498.98 ppb	00:30:49
2	Tl 190.801†	1285.3	1318.2	514.65 ug/L	514.65 ppb	00:31:09
2	U 409.014†	15862.4	17888.1	520.59 ug/L	520.59 ppb	00:30:49
2	V 292.402†	63769.3	65106.7	514.98 ug/L	514.98 ppb	00:30:49
2	Zn 213.857†	42612.3	42170.5	506.85 ug/L	506.85 ppb	00:30:49
2	SiO2†	68867.3	68486.8	5366.1 ug/L	5366.1 ppb	00:31:51
3	Sc Radial	3303.5	3303.5	98.6 %		00:30:06
3	Y RADIAL	2689.1	2689.1	98.03 %		00:30:06
3	Al 396.153Radial†	2285.1	2377.6	5085.6 ug/L	5085.6 ppb	00:29:46
3	Ca 317.933Radial†	1280.6	1288.5	5113.7 ug/L	5113.7 ppb	00:30:06
3	Fe 238.204 Radial†	195.3	189.4	5280.6 ug/L	5280.6 ppb	00:30:06
3	K 766.490 Radial†	12937.0	11006.4	5032.0 ug/L	5032.0 ppb	00:29:46
3	Mg 279.077 IEC†	55.6	55.9	5425.0 ug/L	5425.0 ppb	00:30:06
3	Na 589.592 Radial†	29313.4	30512.6	10190 ug/L	10190 ppb	00:29:46
3	Sr 421.552†	52438.3	53147.9	526.98 ug/L	526.98 ppb	00:29:46
3	Sc 361.383	838920.7	838920.7	100.50 %		00:31:15
3	Y 371.029	708657.8	708657.8	99.021 %		00:31:15
3	Ag 328.068†	99932.0	99275.5	504.73 ug/L	504.73 ppb	00:31:20
3	As 188.979†	885.3	896.9	502.86 ug/L	502.86 ppb	00:31:40
3	B 249.677†	17404.4	17408.0	485.67 ug/L	485.67 ppb	00:31:20
3	Ba 233.527†	53829.3	53568.5	501.56 ug/L	501.56 ppb	00:31:20
3	Be 313.107†	1182605.9	1180332.0	510.51 ug/L	510.51 ppb	00:31:15
3	Cd 226.502†	34647.2	34616.4	500.27 ug/L	500.27 ppb	00:31:20
3	Co 228.616†	19769.0	19714.2	511.35 ug/L	511.35 ppb	00:31:20
3	Cr 267.716†	38664.4	38406.2	501.68 ug/L	501.68 ppb	00:31:20
3	Cu 324.752†	161792.4	154916.7	498.54 ug/L	498.54 ppb	00:31:20
3	Mn 257.610†	390921.1	388585.6	509.51 ug/L	509.51 ppb	00:31:15
3	Mo 202.031†	5850.7	5807.8	501.76 ug/L	501.76 ppb	00:31:40
3	Ni 231.604†	16337.7	16203.3	510.40 ug/L	510.40 ppb	00:31:20
3	P 214.914†	3483.2	3290.5	2401.9 ug/L	2401.9 ppb	00:31:40
3	Pb 220.353†	3220.7	3248.6	504.44 ug/L	504.44 ppb	00:31:40
3	S 181.975 Axial†	595.1	561.3	1000.1 ug/L	1000.1 ppb	00:31:40
3	Sb 206.836†	1239.9	1205.2	517.44 ug/L	517.44 ppb	00:31:40
3	Se 196.026†	603.2	619.4	521.46 ug/L	521.46 ppb	00:31:40
3	Si 251.611†	68642.5	67848.4	2509.5 ug/L	2509.5 ppb	00:31:20
3	Sn 189.927†	2218.7	2199.8	500.48 ug/L	500.48 ppb	00:31:40
3	Ti 334.940†	289419.7	288939.4	490.92 ug/L	490.92 ppb	00:31:20
3	Tl 190.801†	1282.2	1306.8	510.24 ug/L	510.24 ppb	00:31:40
3	U 409.014†	15713.0	17638.0	513.35 ug/L	513.35 ppb	00:31:20
3	V 292.402†	63080.4	64013.1	506.40 ug/L	506.40 ppb	00:31:20
3	Zn 213.857†	42212.2	41499.6	498.82 ug/L	498.82 ppb	00:31:20
3	SiO2†	69501.7	68677.3	5381.2 ug/L	5381.2 ppb	00:31:56

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852957.2	102.18 %	3.484			3.41%
Sc Radial	3242.2	96.8 %	4.41			4.55%
Y 371.029	720977.8	100.74 %	3.465			3.44%
Y RADIAL	2637.3	96.14 %	4.388			4.56%
Ag 328.068†	98333.8	499.97 ug/L	15.915	499.97 ppb	15.915	3.18%
QC value within limits for Ag 328.068 Recovery = 99.99%						
Al 396.153Radial†	2429.6	5197.7 ug/L	199.76	5197.7 ppb	199.76	3.84%
QC value within limits for Al 396.153Radial Recovery = 103.95%						
As 188.979†	886.8	497.23 ug/L	17.360	497.23 ppb	17.360	3.49%
QC value within limits for As 188.979 Recovery = 99.45%						
B 249.677†	17336.5	483.67 ug/L	14.747	483.67 ppb	14.747	3.05%
QC value within limits for B 249.677 Recovery = 96.73%						
Ba 233.527†	52987.2	496.12 ug/L	15.880	496.12 ppb	15.880	3.20%
QC value within limits for Ba 233.527 Recovery = 99.22%						
Be 313.107†	1149572.6	497.22 ug/L	23.657	497.22 ppb	23.657	4.76%
QC value within limits for Be 313.107 Recovery = 99.44%						
Ca 317.933Radial†	1317.6	5229.1 ug/L	262.68	5229.1 ppb	262.68	5.02%

QC value within limits for Ca 317.933 Radial Recovery = 104.58%

Cd 226.502†	34271.5	495.28 ug/L	16.696	495.28 ppb	16.696	3.37%
QC value within limits for Cd 226.502 Recovery = 99.06%						
Co 228.616†	19493.5	505.62 ug/L	17.484	505.62 ppb	17.484	3.46%
QC value within limits for Co 228.616 Recovery = 101.12%						
Cr 267.716†	38000.2	496.38 ug/L	17.449	496.38 ppb	17.449	3.52%
QC value within limits for Cr 267.716 Recovery = 99.28%						
Cu 324.752†	153528.4	494.08 ug/L	16.052	494.08 ppb	16.052	3.25%
QC value within limits for Cu 324.752 Recovery = 98.82%						
Fe 238.204 Radial†	191.1	5327.5 ug/L	294.62	5327.5 ppb	294.62	5.53%
QC value within limits for Fe 238.204 Radial Recovery = 106.55%						
K 766.490 Radial†	11329.8	5179.8 ug/L	288.14	5179.8 ppb	288.14	5.56%
QC value within limits for K 766.490 Radial Recovery = 103.60%						
Mg 279.077 IEC†	57.3	5563.3 ug/L	372.16	5563.3 ppb	372.16	6.69%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 111.27%						
Mn 257.610†	378231.1	495.94 ug/L	24.332	495.94 ppb	24.332	4.91%
QC value within limits for Mn 257.610 Recovery = 99.19%						
Mo 202.031†	5725.7	494.68 ug/L	17.435	494.68 ppb	17.435	3.52%
QC value within limits for Mo 202.031 Recovery = 98.94%						
Na 589.592 Radial†	31343.4	10467 ug/L	489.3	10467 ppb	489.3	4.67%
QC value within limits for Na 589.592 Radial Recovery = 104.67%						
Ni 231.604†	15987.4	503.60 ug/L	17.497	503.60 ppb	17.497	3.47%
QC value within limits for Ni 231.604 Recovery = 100.72%						
P 214.914†	3247.4	2370.0 ug/L	80.97	2370.0 ppb	80.97	3.42%
QC value within limits for P 214.914 Recovery = 94.80%						
Pb 220.353†	3209.8	498.44 ug/L	17.693	498.44 ppb	17.693	3.55%
QC value within limits for Pb 220.353 Recovery = 99.69%						
S 181.975 Axial†	550.7	981.21 ug/L	33.589	981.21 ppb	33.589	3.42%
QC value within limits for S 181.975 Axial Recovery = 98.12%						
Sb 206.836†	1192.1	511.76 ug/L	16.852	511.76 ppb	16.852	3.29%
QC value within limits for Sb 206.836 Recovery = 102.35%						
Se 196.026†	609.5	513.54 ug/L	17.721	513.54 ppb	17.721	3.45%
QC value within limits for Se 196.026 Recovery = 102.71%						
Si 251.611†	67213.4	2486.1 ug/L	77.15	2486.1 ppb	77.15	3.10%
QC value within limits for Si 251.611 Recovery = 99.44%						
Sn 189.927†	2167.8	493.22 ug/L	16.200	493.22 ppb	16.200	3.28%
QC value within limits for Sn 189.927 Recovery = 98.64%						
Sr 421.552†	54486.1	540.25 ug/L	25.356	540.25 ppb	25.356	4.69%
QC value within limits for Sr 421.552 Recovery = 108.05%						
Ti 334.940†	286045.1	486.01 ug/L	16.003	486.01 ppb	16.003	3.29%
QC value within limits for Ti 334.940 Recovery = 97.20%						
Tl 190.801†	1287.1	502.50 ug/L	17.369	502.50 ppb	17.369	3.46%
QC value within limits for Tl 190.801 Recovery = 100.50%						
U 409.014†	17502.1	509.39 ug/L	13.624	509.39 ppb	13.624	2.67%
QC value within limits for U 409.014 Recovery = 101.88%						
V 292.402†	63408.1	501.58 ug/L	16.362	501.58 ppb	16.362	3.26%
QC value within limits for V 292.402 Recovery = 100.32%						
Zn 213.857†	41054.1	493.45 ug/L	16.737	493.45 ppb	16.737	3.39%
QC value within limits for Zn 213.857 Recovery = 98.69%						
SiO2†	67294.2	5272.8 ug/L	174.91	5272.8 ppb	174.91	3.32%
QC value within limits for SiO2 Recovery = 98.60%						

QC Failed. Continue with analysis.

Sequence No.: 59

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/10/2010 00:34:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3367.3	3367.3	101 %		00:36:17
1	Y RADIAL	2740.0	2740.0	99.88 %		00:36:17
1	Al 396.153Radial†	-64.6	-4.2	-9.0743 ug/L	-9.0743 ppb	00:36:17
1	Ca 317.933Radial†	10.1	-0.2	-0.7609 ug/L	-0.7609 ppb	00:36:17
1	Fe 238.204 Radial†	7.2	-1.4	-40.176 ug/L	-40.176 ppb	00:36:17
1	K 766.490 Radial†	2050.9	-73.9	-33.802 ug/L	-33.802 ppb	00:35:57
1	Mg 279.077 IEC†	-1.6	-2.0	-196.14 ug/L	-196.14 ppb	00:36:17
1	Na 589.592 Radial†	-821.5	-34.8	-11.622 ug/L	-11.622 ppb	00:35:57
1	Sr 421.552†	19.0	-16.8	-0.1667 ug/L	-0.1667 ppb	00:35:57
1	Sc 361.383	825399.4	825399.4	98.880 %		00:37:14
1	Y 371.029	708028.8	708028.8	98.933 %		00:37:14
1	Ag 328.068†	143.1	-14.3	-0.0809 ug/L	-0.0809 ppb	00:37:14
1	As 188.979†	-18.8	-3.1	-1.7097 ug/L	-1.7097 ppb	00:37:34
1	B 249.677†	-188.0	-99.9	-2.7938 ug/L	-2.7938 ppb	00:37:34
1	Ba 233.527†	0.6	7.8	0.0714 ug/L	0.0714 ppb	00:37:34
1	Be 313.107†	-3567.7	4.4	0.0019 ug/L	0.0019 ppb	00:37:14
1	Cd 226.502†	-155.7	-15.9	-0.2260 ug/L	-0.2260 ppb	00:37:34
1	Co 228.616†	-42.7	0.4	0.0098 ug/L	0.0098 ppb	00:37:34
1	Cr 267.716†	86.2	21.5	0.2805 ug/L	0.2805 ppb	00:37:34
1	Cu 324.752†	6004.7	2.2	0.0077 ug/L	0.0077 ppb	00:37:14
1	Mn 257.610†	419.6	34.7	0.0495 ug/L	0.0495 ppb	00:37:34
1	Mo 202.031†	9.6	-4.0	-0.3522 ug/L	-0.3522 ppb	00:37:34
1	Ni 231.604†	109.9	58.1	1.8302 ug/L	1.8302 ppb	00:37:34
1	P 214.914†	166.1	-7.4	-5.6398 ug/L	-5.6398 ppb	00:37:34
1	Pb 220.353†	-26.5	17.2	2.6609 ug/L	2.6609 ppb	00:37:34
1	S 181.975 Axial†	30.0	-0.6	-0.9863 ug/L	-0.9863 ppb	00:37:34
1	Sb 206.836†	27.7	-0.5	-0.2251 ug/L	-0.2251 ppb	00:37:34
1	Se 196.026†	-15.8	3.2	2.5113 ug/L	2.5113 ppb	00:37:34
1	Si 251.611†	572.0	126.0	4.6776 ug/L	4.6776 ppb	00:37:34
1	Sn 189.927†	2.9	-4.9	-1.1011 ug/L	-1.1011 ppb	00:37:34
1	Ti 334.940†	-953.0	-3.6	0.0118 ug/L	0.0118 ppb	00:37:14
1	Tl 190.801†	-26.7	4.1	1.5927 ug/L	1.5927 ppb	00:37:34
1	U 409.014†	-2140.6	-161.7	-4.7168 ug/L	-4.7168 ppb	00:37:14
1	V 292.402†	-1231.1	1.8	0.0017 ug/L	0.0017 ppb	00:37:14
1	Zn 213.857†	604.9	109.3	1.3208 ug/L	1.3208 ppb	00:37:34
1	SiO2†	575.7	103.7	8.1580 ug/L	8.1580 ppb	00:38:45
2	Sc Radial	3294.7	3294.7	98.3 %		00:36:42
2	Y RADIAL	2694.3	2694.3	98.22 %		00:36:42
2	Al 396.153Radial†	-69.3	-10.5	-22.525 ug/L	-22.525 ppb	00:36:42
2	Ca 317.933Radial†	11.1	1.1	4.4103 ug/L	4.4103 ppb	00:36:42
2	Fe 238.204 Radial†	9.7	1.2	33.283 ug/L	33.283 ppb	00:36:42
2	K 766.490 Radial†	2062.2	-17.3	-7.9246 ug/L	-7.9246 ppb	00:36:22
2	Mg 279.077 IEC†	4.2	3.8	370.22 ug/L	370.22 ppb	00:36:42
2	Na 589.592 Radial†	-767.8	1.8	0.5888 ug/L	0.5888 ppb	00:36:22
2	Sr 421.552†	37.6	2.6	0.0254 ug/L	0.0254 ppb	00:36:22
2	Sc 361.383	834803.8	834803.8	100.01 %		00:37:39
2	Y 371.029	714031.8	714031.8	99.772 %		00:37:39
2	Ag 328.068†	200.9	41.8	0.2248 ug/L	0.2248 ppb	00:37:39
2	As 188.979†	-19.2	-3.3	-1.8095 ug/L	-1.8095 ppb	00:37:59
2	B 249.677†	-174.8	-84.5	-2.3752 ug/L	-2.3752 ppb	00:37:59
2	Ba 233.527†	-6.8	0.3	0.0049 ug/L	0.0049 ppb	00:37:59
2	Be 313.107†	-3578.9	33.9	0.0146 ug/L	0.0146 ppb	00:37:39
2	Cd 226.502†	-145.5	-4.0	-0.0600 ug/L	-0.0600 ppb	00:37:59
2	Co 228.616†	-41.8	1.8	0.0451 ug/L	0.0451 ppb	00:37:59
2	Cr 267.716†	52.4	-13.3	-0.1706 ug/L	-0.1706 ppb	00:37:59
2	Cu 324.752†	6011.2	-59.7	-0.1892 ug/L	-0.1892 ppb	00:37:39
2	Mn 257.610†	432.8	43.1	0.0446 ug/L	0.0446 ppb	00:37:59
2	Mo 202.031†	7.7	-6.1	-0.5236 ug/L	-0.5236 ppb	00:37:59
2	Ni 231.604†	105.1	52.1	1.6415 ug/L	1.6415 ppb	00:37:59

2	P 214.914†	174.6	-0.8	-0.6049 ug/L	-0.6049 ppb	00:37:59
2	Pb 220.353†	-38.8	5.2	0.7904 ug/L	0.7904 ppb	00:37:59
2	S 181.975 Axial†	27.4	-3.4	-6.0950 ug/L	-6.0950 ppb	00:37:59
2	Sb 206.836†	24.6	-3.9	-1.6013 ug/L	-1.6013 ppb	00:37:59
2	Se 196.026†	-14.2	5.0	4.1807 ug/L	4.1807 ppb	00:37:59
2	Si 251.611†	567.7	115.3	4.2817 ug/L	4.2817 ppb	00:37:59
2	Sn 189.927†	15.4	7.6	1.7179 ug/L	1.7179 ppb	00:37:59
2	Ti 334.940†	-959.0	1.4	-0.0263 ug/L	-0.0263 ppb	00:37:39
2	Tl 190.801†	-32.7	-1.6	-0.6263 ug/L	-0.6263 ppb	00:37:59
2	U 409.014†	-2080.4	-77.1	-2.2558 ug/L	-2.2558 ppb	00:37:39
2	V 292.402†	-1200.1	46.7	0.3553 ug/L	0.3553 ppb	00:37:39
2	Zn 213.857†	592.7	90.2	1.0792 ug/L	1.0792 ppb	00:37:59
2	SiO2†	581.6	103.1	8.1122 ug/L	8.1122 ppb	00:39:05
3	Sc Radial	3317.5	3317.5	99.0 %		00:37:07
3	Y RADIAL	2706.9	2706.9	98.68 %		00:37:07
3	Al 396.153Radial†	-71.3	-12.0	-25.795 ug/L	-25.795 ppb	00:37:07
3	Ca 317.933Radial†	14.0	3.9	15.559 ug/L	15.559 ppb	00:37:07
3	Fe 238.204 Radial†	7.5	-1.1	-29.405 ug/L	-29.405 ppb	00:37:07
3	K 766.490 Radial†	2139.7	46.5	21.290 ug/L	21.290 ppb	00:36:47
3	Mg 279.077 IEC†	1.1	0.7	65.454 ug/L	65.454 ppb	00:37:07
3	Na 589.592 Radial†	-801.2	-26.5	-8.8564 ug/L	-8.8564 ppb	00:36:47
3	Sr 421.552†	4.7	-30.9	-0.3064 ug/L	-0.3064 ppb	00:36:47
3	Sc 361.383	830530.9	830530.9	99.495 %		00:38:05
3	Y 371.029	710480.0	710480.0	99.276 %		00:38:05
3	Ag 328.068†	194.4	36.4	0.1722 ug/L	0.1722 ppb	00:38:05
3	As 188.979†	-21.1	-5.3	-2.9324 ug/L	-2.9324 ppb	00:38:25
3	B 249.677†	-202.5	-113.3	-3.1712 ug/L	-3.1712 ppb	00:38:25
3	Ba 233.527†	0.1	7.3	0.0673 ug/L	0.0673 ppb	00:38:25
3	Be 313.107†	-3603.0	-8.7	-0.0037 ug/L	-0.0037 ppb	00:38:05
3	Cd 226.502†	-146.3	-5.4	-0.0738 ug/L	-0.0738 ppb	00:38:25
3	Co 228.616†	-43.6	-0.3	-0.0063 ug/L	-0.0063 ppb	00:38:25
3	Cr 267.716†	68.6	3.3	0.0402 ug/L	0.0402 ppb	00:38:25
3	Cu 324.752†	6015.5	-24.4	-0.0816 ug/L	-0.0816 ppb	00:38:05
3	Mn 257.610†	445.2	57.8	0.0702 ug/L	0.0702 ppb	00:38:25
3	Mo 202.031†	13.0	-0.7	-0.0592 ug/L	-0.0592 ppb	00:38:25
3	Ni 231.604†	106.7	54.2	1.7080 ug/L	1.7080 ppb	00:38:25
3	P 214.914†	172.8	-1.7	-1.2792 ug/L	-1.2792 ppb	00:38:25
3	Pb 220.353†	-40.1	3.6	0.5584 ug/L	0.5584 ppb	00:38:25
3	S 181.975 Axial†	24.0	-6.7	-11.959 ug/L	-11.959 ppb	00:38:25
3	Sb 206.836†	24.8	-3.6	-1.4732 ug/L	-1.4732 ppb	00:38:25
3	Se 196.026†	-16.7	2.4	1.8653 ug/L	1.8653 ppb	00:38:25
3	Si 251.611†	582.3	132.8	4.9260 ug/L	4.9260 ppb	00:38:25
3	Sn 189.927†	7.5	-0.3	-0.0555 ug/L	-0.0555 ppb	00:38:25
3	Ti 334.940†	-952.3	3.1	0.0010 ug/L	0.0010 ppb	00:38:05
3	Tl 190.801†	-19.1	11.9	4.6027 ug/L	4.6027 ppb	00:38:25
3	U 409.014†	-1907.4	86.0	2.5160 ug/L	2.5160 ppb	00:38:05
3	V 292.402†	-1243.1	-2.7	-0.0113 ug/L	-0.0113 ppb	00:38:05
3	Zn 213.857†	592.4	92.9	1.1211 ug/L	1.1211 ppb	00:38:25
3	SiO2†	585.8	110.3	8.6661 ug/L	8.6661 ppb	00:39:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830244.7	99.461 %	0.5641			0.57%
Sc Radial	3326.5	99.3 %	1.11			1.12%
Y 371.029	710846.9	99.327 %	0.4217			0.42%
Y RADIAL	2713.8	98.92 %	0.861			0.87%
Ag 328.068†	21.3	0.1054 ug/L	0.16343	0.1054 ppb	0.16343	155.07%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-8.9	-19.131 ug/L	8.8617	-19.131 ppb	8.8617	46.32%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.9	-2.1506 ug/L	0.67897	-2.1506 ppb	0.67897	31.57%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-99.2	-2.7801 ug/L	0.39816	-2.7801 ppb	0.39816	14.32%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.1	0.0479 ug/L	0.03723	0.0479 ppb	0.03723	77.79%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	9.9	0.0043 ug/L	0.00941	0.0043 ppb	0.00941	220.80%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.6	6.4027 ug/L	8.34015	6.4027 ppb	8.34015	130.26%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-8.4	-0.1200 ug/L	0.09213	-0.1200 ppb	0.09213 76.80%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	0.6	0.0162 ug/L	0.02631	0.0162 ppb	0.02631 162.42%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	3.8	0.0500 ug/L	0.22569	0.0500 ppb	0.22569 451.06%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-27.3	-0.0877 ug/L	0.09855	-0.0877 ppb	0.09855 112.37%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-0.4	-12.099 ug/L	39.6695	-12.099 ppb	39.6695 327.86%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-14.9	-6.8121 ug/L	27.56249	-6.8121 ppb	27.56249 404.61%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	0.8	79.848 ug/L	283.4544	79.848 ppb	283.4544 354.99%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	45.2	0.0548 ug/L	0.01358	0.0548 ppb	0.01358 24.79%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-3.6	-0.3117 ug/L	0.23485	-0.3117 ppb	0.23485 75.35%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-19.9	-6.6300 ug/L	6.40279	-6.6300 ppb	6.40279 96.57%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	54.8	1.7266 ug/L	0.09571	1.7266 ppb	0.09571 5.54%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-3.3	-2.5080 ug/L	2.73314	-2.5080 ppb	2.73314 108.98%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	8.7	1.3366 ug/L	1.15275	1.3366 ppb	1.15275 86.25%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-3.6	-6.3469 ug/L	5.49090	-6.3469 ppb	5.49090 86.51%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-2.7	-1.0999 ug/L	0.76024	-1.0999 ppb	0.76024 69.12%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	3.6	2.8524 ug/L	1.19482	2.8524 ppb	1.19482 41.89%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	124.7	4.6284 ug/L	0.32496	4.6284 ppb	0.32496 7.02%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	0.8	0.1871 ug/L	1.42508	0.1871 ppb	1.42508 761.70%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-15.0	-0.1492 ug/L	0.16658	-0.1492 ppb	0.16658 111.64%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	0.3	-0.0045 ug/L	0.01963	-0.0045 ppb	0.01963 437.67%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	4.8	1.8564 ug/L	2.62446	1.8564 ppb	2.62446 141.38%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-50.9	-1.4855 ug/L	3.67742	-1.4855 ppb	3.67742 247.55%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	15.3	0.1152 ug/L	0.20797	0.1152 ppb	0.20797 180.48%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	97.5	1.1737 ug/L	0.12908	1.1737 ppb	0.12908 11.00%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	105.7	8.3121 ug/L	0.30740	8.3121 ppb	0.30740 3.70%
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: 3/10/2010 01:31:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3280.5	3280.5	97.9 %		01:33:35
1	Y RADIAL	2665.9	2665.9	97.18 %		01:33:35
1	Al 396.153Radial†	2278.8	2387.3	5106.7 ug/L	5106.7 ppb	01:33:15
1	Ca 317.933Radial†	1332.4	1350.6	5359.8 ug/L	5359.8 ppb	01:33:35
1	Fe 238.204 Radial†	198.9	194.6	5422.7 ug/L	5422.7 ppb	01:33:35
1	K 766.490 Radial†	13157.0	11323.0	5176.8 ug/L	5176.8 ppb	01:33:15
1	Mg 279.077 IEC†	55.1	55.8	5413.3 ug/L	5413.3 ppb	01:33:35
1	Na 589.592 Radial†	29144.7	30548.4	10202 ug/L	10202 ppb	01:33:15
1	Sr 421.552†	52217.8	53294.9	528.43 ug/L	528.43 ppb	01:33:15
1	Sc 361.383	858724.2	858724.2	102.87 %		01:34:33
1	Y 371.029	726576.3	726576.3	101.52 %		01:34:33
1	Ag 328.068†	101319.7	98331.3	499.98 ug/L	499.98 ppb	01:34:38
1	As 188.979†	904.1	894.8	501.69 ug/L	501.69 ppb	01:34:58
1	B 249.677†	17621.2	17219.3	480.39 ug/L	480.39 ppb	01:34:38
1	Ba 233.527†	54313.8	52804.3	494.41 ug/L	494.41 ppb	01:34:38
1	Be 313.107†	1183919.2	1154471.6	499.33 ug/L	499.33 ppb	01:34:33
1	Cd 226.502†	34953.2	34118.8	493.06 ug/L	493.06 ppb	01:34:38
1	Co 228.616†	19830.0	19319.8	501.13 ug/L	501.13 ppb	01:34:38
1	Cr 267.716†	38931.3	37778.4	493.49 ug/L	493.49 ppb	01:34:38
1	Cu 324.752†	163343.9	152712.2	491.46 ug/L	491.46 ppb	01:34:38
1	Mn 257.610†	390344.0	379054.3	497.03 ug/L	497.03 ppb	01:34:33
1	Mo 202.031†	5929.3	5750.0	496.78 ug/L	496.78 ppb	01:34:58
1	Ni 231.604†	16419.5	15907.9	501.10 ug/L	501.10 ppb	01:34:38
1	P 214.914†	3541.5	3267.2	2385.4 ug/L	2385.4 ppb	01:34:58
1	Pb 220.353†	3281.2	3233.5	502.08 ug/L	502.08 ppb	01:34:58
1	S 181.975 Axial†	591.3	543.9	969.15 ug/L	969.15 ppb	01:34:58
1	Sb 206.836†	1259.6	1195.9	513.35 ug/L	513.35 ppb	01:34:58
1	Se 196.026†	617.6	619.6	521.97 ug/L	521.97 ppb	01:34:58
1	Si 251.611†	69072.3	66691.1	2466.7 ug/L	2466.7 ppb	01:34:38
1	Sn 189.927†	2233.4	2163.2	492.19 ug/L	492.19 ppb	01:34:58
1	Ti 334.940†	291404.6	284227.6	482.95 ug/L	482.95 ppb	01:34:38
1	Tl 190.801†	1301.6	1296.3	506.08 ug/L	506.08 ppb	01:34:58
1	U 409.014†	15918.8	17477.4	508.66 ug/L	508.66 ppb	01:34:38
1	V 292.402†	63664.7	63133.7	499.45 ug/L	499.45 ppb	01:34:38
1	Zn 213.857†	42529.4	40839.3	490.85 ug/L	490.85 ppb	01:34:38
1	SiO2†	70806.7	68351.0	5355.7 ug/L	5355.7 ppb	01:36:05
2	Sc Radial	3315.5	3315.5	99.0 %		01:34:00
2	Y RADIAL	2690.8	2690.8	98.09 %		01:34:00
2	Al 396.153Radial†	2257.1	2340.9	5006.4 ug/L	5006.4 ppb	01:33:40
2	Ca 317.933Radial†	1314.4	1318.0	5230.5 ug/L	5230.5 ppb	01:34:00
2	Fe 238.204 Radial†	193.6	187.0	5212.9 ug/L	5212.9 ppb	01:34:00
2	K 766.490 Radial†	12959.8	10981.8	5020.7 ug/L	5020.7 ppb	01:33:40
2	Mg 279.077 IEC†	52.4	52.5	5094.6 ug/L	5094.6 ppb	01:34:00
2	Na 589.592 Radial†	28818.5	29904.4	9986.8 ug/L	9986.8 ppb	01:33:40
2	Sr 421.552†	51785.9	52295.3	518.52 ug/L	518.52 ppb	01:33:40
2	Sc 361.383	843114.2	843114.2	101.00 %		01:35:04
2	Y 371.029	712501.8	712501.8	99.558 %		01:35:04
2	Ag 328.068†	101834.9	100665.0	511.75 ug/L	511.75 ppb	01:35:09
2	As 188.979†	897.2	904.3	507.01 ug/L	507.01 ppb	01:35:29
2	B 249.677†	17762.9	17676.8	493.20 ug/L	493.20 ppb	01:35:09
2	Ba 233.527†	54727.6	54191.5	507.39 ug/L	507.39 ppb	01:35:09
2	Be 313.107†	1190311.9	1182108.7	511.29 ug/L	511.29 ppb	01:35:04
2	Cd 226.502†	35222.4	35014.3	506.04 ug/L	506.04 ppb	01:35:09
2	Co 228.616†	20062.2	19906.6	516.34 ug/L	516.34 ppb	01:35:09
2	Cr 267.716†	39209.7	38754.8	506.23 ug/L	506.23 ppb	01:35:09
2	Cu 324.752†	164906.6	157199.2	505.88 ug/L	505.88 ppb	01:35:09
2	Mn 257.610†	392697.7	388409.9	509.28 ug/L	509.28 ppb	01:35:04
2	Mo 202.031†	5936.6	5863.9	506.60 ug/L	506.60 ppb	01:35:29
2	Ni 231.604†	16526.2	16309.2	513.74 ug/L	513.74 ppb	01:35:09

2	P 214.914†	3522.4	3312.1	2416.9 ug/L	2416.9 ppb	01:35:29
2	Pb 220.353†	3278.5	3289.9	510.84 ug/L	510.84 ppb	01:35:29
2	S 181.975 Axial†	592.3	555.6	990.04 ug/L	990.04 ppb	01:35:29
2	Sb 206.836†	1252.3	1211.4	520.15 ug/L	520.15 ppb	01:35:29
2	Se 196.026†	609.4	622.5	523.82 ug/L	523.82 ppb	01:35:29
2	Si 251.611†	69690.3	68546.1	2535.3 ug/L	2535.3 ppb	01:35:09
2	Sn 189.927†	2244.8	2214.7	503.88 ug/L	503.88 ppb	01:35:29
2	Ti 334.940†	294395.0	292432.9	496.90 ug/L	496.90 ppb	01:35:09
2	Tl 190.801†	1293.7	1312.0	512.25 ug/L	512.25 ppb	01:35:29
2	U 409.014†	15965.0	17809.7	518.36 ug/L	518.36 ppb	01:35:09
2	V 292.402†	64102.9	64713.3	511.94 ug/L	511.94 ppb	01:35:09
2	Zn 213.857†	42882.6	41954.5	504.32 ug/L	504.32 ppb	01:35:09
2	SiO2†	70036.9	68863.2	5395.7 ug/L	5395.7 ppb	01:36:10
3	Sc Radial	3334.1	3334.1	99.5 %		01:34:25
3	Y RADIAL	2714.8	2714.8	98.96 %		01:34:25
3	Al 396.153Radial†	2317.4	2388.7	5109.6 ug/L	5109.6 ppb	01:34:05
3	Ca 317.933Radial†	1319.5	1315.7	5221.6 ug/L	5221.6 ppb	01:34:25
3	Fe 238.204 Radial†	198.5	190.8	5318.9 ug/L	5318.9 ppb	01:34:25
3	K 766.490 Radial†	13106.7	11056.4	5054.8 ug/L	5054.8 ppb	01:34:05
3	Mg 279.077 IEC†	52.4	52.2	5068.4 ug/L	5068.4 ppb	01:34:25
3	Na 589.592 Radial†	29277.4	30203.3	10087 ug/L	10087 ppb	01:34:05
3	Sr 421.552†	52870.7	53093.8	526.44 ug/L	526.44 ppb	01:34:05
3	Sc 361.383	855564.7	855564.7	102.49 %		01:35:35
3	Y 371.029	722866.3	722866.3	101.01 %		01:35:35
3	Ag 328.068†	102969.8	100305.0	509.96 ug/L	509.96 ppb	01:35:40
3	As 188.979†	909.6	903.4	506.56 ug/L	506.56 ppb	01:36:00
3	B 249.677†	17973.8	17626.6	491.78 ug/L	491.78 ppb	01:35:40
3	Ba 233.527†	55366.8	54026.6	505.85 ug/L	505.85 ppb	01:35:40
3	Be 313.107†	1203175.4	1177509.2	509.30 ug/L	509.30 ppb	01:35:35
3	Cd 226.502†	35682.2	34955.4	505.17 ug/L	505.17 ppb	01:35:40
3	Co 228.616†	20332.1	19880.9	515.66 ug/L	515.66 ppb	01:35:40
3	Cr 267.716†	39776.2	38742.5	506.07 ug/L	506.07 ppb	01:35:40
3	Cu 324.752†	166755.7	156627.3	504.05 ug/L	504.05 ppb	01:35:40
3	Mn 257.610†	397201.4	387146.0	507.64 ug/L	507.64 ppb	01:35:35
3	Mo 202.031†	5941.6	5783.2	499.64 ug/L	499.64 ppb	01:36:00
3	Ni 231.604†	16714.6	16254.8	512.02 ug/L	512.02 ppb	01:35:40
3	P 214.914†	3545.0	3283.3	2395.3 ug/L	2395.3 ppb	01:36:00
3	Pb 220.353†	3271.8	3236.1	502.50 ug/L	502.50 ppb	01:36:00
3	S 181.975 Axial†	600.6	555.1	989.10 ug/L	989.10 ppb	01:36:00
3	Sb 206.836†	1266.1	1206.8	517.97 ug/L	517.97 ppb	01:36:00
3	Se 196.026†	606.5	610.9	514.67 ug/L	514.67 ppb	01:36:00
3	Si 251.611†	70512.9	68344.6	2528.0 ug/L	2528.0 ppb	01:35:40
3	Sn 189.927†	2240.1	2177.7	495.47 ug/L	495.47 ppb	01:36:00
3	Ti 334.940†	298191.3	291895.2	495.98 ug/L	495.98 ppb	01:35:40
3	Tl 190.801†	1303.5	1302.8	508.69 ug/L	508.69 ppb	01:36:00
3	U 409.014†	16319.6	17925.6	521.73 ug/L	521.73 ppb	01:35:40
3	V 292.402†	64980.9	64646.4	511.31 ug/L	511.31 ppb	01:35:40
3	Zn 213.857†	43424.1	41864.9	503.23 ug/L	503.23 ppb	01:35:40
3	SiO2†	70239.8	68052.0	5332.2 ug/L	5332.2 ppb	01:36:15

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852467.7	102.12 %	0.989			0.97%
Sc Radial	3310.0	98.8 %	0.81			0.82%
Y 371.029	720648.1	100.70 %	1.019			1.01%
Y RADIAL	2690.5	98.08 %	0.891			0.91%
Ag 328.068†	99767.1	507.23 ug/L	6.342	507.23 ppb	6.342	1.25%
QC value within limits for Ag 328.068 Recovery = 101.45%						
Al 396.153Radial†	2372.3	5074.2 ug/L	58.75	5074.2 ppb	58.75	1.16%
QC value within limits for Al 396.153Radial Recovery = 101.48%						
As 188.979†	900.8	505.09 ug/L	2.953	505.09 ppb	2.953	0.58%
QC value within limits for As 188.979 Recovery = 101.02%						
B 249.677†	17507.6	488.46 ug/L	7.024	488.46 ppb	7.024	1.44%
QC value within limits for B 249.677 Recovery = 97.69%						
Ba 233.527†	53674.1	502.55 ug/L	7.090	502.55 ppb	7.090	1.41%
QC value within limits for Ba 233.527 Recovery = 100.51%						
Be 313.107†	1171363.2	506.64 ug/L	6.408	506.64 ppb	6.408	1.26%
QC value within limits for Be 313.107 Recovery = 101.33%						
Ca 317.933Radial†	1328.1	5270.7 ug/L	77.33	5270.7 ppb	77.33	1.47%

QC value within limits for Ca 317.933 Radial Recovery = 105.41%

Cd 226.502†	34696.2	501.42 ug/L	7.256	501.42 ppb	7.256	1.45%
QC value within limits for Cd 226.502 Recovery = 100.28%						
Co 228.616†	19702.4	511.04 ug/L	8.594	511.04 ppb	8.594	1.68%
QC value within limits for Co 228.616 Recovery = 102.21%						
Cr 267.716†	38425.2	501.93 ug/L	7.311	501.93 ppb	7.311	1.46%
QC value within limits for Cr 267.716 Recovery = 100.39%						
Cu 324.752†	155512.9	500.46 ug/L	7.851	500.46 ppb	7.851	1.57%
QC value within limits for Cu 324.752 Recovery = 100.09%						
Fe 238.204 Radial†	190.8	5318.1 ug/L	104.91	5318.1 ppb	104.91	1.97%
QC value within limits for Fe 238.204 Radial Recovery = 106.36%						
K 766.490 Radial†	11120.4	5084.1 ug/L	82.05	5084.1 ppb	82.05	1.61%
QC value within limits for K 766.490 Radial Recovery = 101.68%						
Mg 279.077 IEC†	53.5	5192.1 ug/L	192.01	5192.1 ppb	192.01	3.70%
QC value within limits for Mg 279.077 IEC Recovery = 103.84%						
Mn 257.610†	384870.1	504.65 ug/L	6.650	504.65 ppb	6.650	1.32%
QC value within limits for Mn 257.610 Recovery = 100.93%						
Mo 202.031†	5799.0	501.01 ug/L	5.049	501.01 ppb	5.049	1.01%
QC value within limits for Mo 202.031 Recovery = 100.20%						
Na 589.592 Radial†	30218.7	10092 ug/L	107.6	10092 ppb	107.6	1.07%
QC value within limits for Na 589.592 Radial Recovery = 100.92%						
Ni 231.604†	16157.3	508.95 ug/L	6.855	508.95 ppb	6.855	1.35%
QC value within limits for Ni 231.604 Recovery = 101.79%						
P 214.914†	3287.5	2399.2 ug/L	16.09	2399.2 ppb	16.09	0.67%
QC value within limits for P 214.914 Recovery = 95.97%						
Pb 220.353†	3253.2	505.14 ug/L	4.942	505.14 ppb	4.942	0.98%
QC value within limits for Pb 220.353 Recovery = 101.03%						
S 181.975 Axial†	551.5	982.76 ug/L	11.796	982.76 ppb	11.796	1.20%
QC value within limits for S 181.975 Axial Recovery = 98.28%						
Sb 206.836†	1204.7	517.16 ug/L	3.475	517.16 ppb	3.475	0.67%
QC value within limits for Sb 206.836 Recovery = 103.43%						
Se 196.026†	617.7	520.15 ug/L	4.839	520.15 ppb	4.839	0.93%
QC value within limits for Se 196.026 Recovery = 104.03%						
Si 251.611†	67860.6	2510.0 ug/L	37.69	2510.0 ppb	37.69	1.50%
QC value within limits for Si 251.611 Recovery = 100.40%						
Sn 189.927†	2185.2	497.18 ug/L	6.032	497.18 ppb	6.032	1.21%
QC value within limits for Sn 189.927 Recovery = 99.44%						
Sr 421.552†	52894.7	524.47 ug/L	5.242	524.47 ppb	5.242	1.00%
QC value within limits for Sr 421.552 Recovery = 104.89%						
Ti 334.940†	289518.6	491.94 ug/L	7.801	491.94 ppb	7.801	1.59%
QC value within limits for Ti 334.940 Recovery = 98.39%						
Tl 190.801†	1303.7	509.01 ug/L	3.095	509.01 ppb	3.095	0.61%
QC value within limits for Tl 190.801 Recovery = 101.80%						
U 409.014†	17737.6	516.25 ug/L	6.786	516.25 ppb	6.786	1.31%
QC value within limits for U 409.014 Recovery = 103.25%						
V 292.402†	64164.4	507.57 ug/L	7.039	507.57 ppb	7.039	1.39%
QC value within limits for V 292.402 Recovery = 101.51%						
Zn 213.857†	41552.9	499.47 ug/L	7.478	499.47 ppb	7.478	1.50%
QC value within limits for Zn 213.857 Recovery = 99.89%						
SiO2†	68422.1	5361.2 ug/L	32.11	5361.2 ppb	32.11	0.60%
QC value within limits for SiO2 Recovery = 100.26%						

All analyte(s) passed QC.

Sequence No.: 68

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/10/2010 01:38:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3322.4	3322.4	99.2 %		01:40:39
1	Y RADIAL	2710.1	2710.1	98.79 %		01:40:39
1	Al 396.153Radial†	-55.4	4.2	8.9134 ug/L	8.9134 ppb	01:40:39
1	Ca 317.933Radial†	9.3	-0.8	-3.1240 ug/L	-3.1240 ppb	01:40:39
1	Fe 238.204 Radial†	8.5	-0.0	-0.9638 ug/L	-0.9638 ppb	01:40:39
1	K 766.490 Radial†	2240.8	145.2	66.469 ug/L	66.469 ppb	01:40:19
1	Mg 279.077 IEC†	1.2	0.7	69.850 ug/L	69.850 ppb	01:40:39
1	Na 589.592 Radial†	-737.4	39.0	13.009 ug/L	13.009 ppb	01:40:19
1	Sr 421.552†	21.3	-14.2	-0.1409 ug/L	-0.1409 ppb	01:40:19
1	Sc 361.383	830300.5	830300.5	99.468 %		01:41:35
1	Y 371.029	711202.2	711202.2	99.376 %		01:41:35
1	Ag 328.068†	103.8	-54.7	-0.2729 ug/L	-0.2729 ppb	01:41:35
1	As 188.979†	-24.8	-9.0	-5.0080 ug/L	-5.0080 ppb	01:41:55
1	B 249.677†	-264.8	-176.0	-4.9348 ug/L	-4.9348 ppb	01:41:55
1	Ba 233.527†	-3.1	4.0	0.0388 ug/L	0.0388 ppb	01:41:55
1	Be 313.107†	-3602.5	-9.3	-0.0038 ug/L	-0.0038 ppb	01:41:35
1	Cd 226.502†	-147.6	-6.8	-0.0980 ug/L	-0.0980 ppb	01:41:55
1	Co 228.616†	-41.6	1.8	0.0469 ug/L	0.0469 ppb	01:41:55
1	Cr 267.716†	78.3	13.0	0.1706 ug/L	0.1706 ppb	01:41:55
1	Cu 324.752†	6089.9	52.1	0.1684 ug/L	0.1684 ppb	01:41:35
1	Mn 257.610†	413.6	26.1	0.0313 ug/L	0.0313 ppb	01:41:55
1	Mo 202.031†	18.7	5.1	0.4369 ug/L	0.4369 ppb	01:41:55
1	Ni 231.604†	88.1	35.6	1.1211 ug/L	1.1211 ppb	01:41:55
1	P 214.914†	169.9	-4.6	-3.4866 ug/L	-3.4866 ppb	01:41:55
1	Pb 220.353†	-31.0	12.7	1.9719 ug/L	1.9719 ppb	01:41:55
1	S 181.975 Axial†	32.7	2.0	3.6013 ug/L	3.6013 ppb	01:41:55
1	Sb 206.836†	24.2	-4.1	-1.6910 ug/L	-1.6910 ppb	01:41:55
1	Se 196.026†	-19.9	-0.8	-0.6260 ug/L	-0.6260 ppb	01:41:55
1	Si 251.611†	543.7	94.2	3.4881 ug/L	3.4881 ppb	01:41:55
1	Sn 189.927†	12.2	4.5	1.0200 ug/L	1.0200 ppb	01:41:55
1	Ti 334.940†	-910.1	45.3	0.0716 ug/L	0.0716 ppb	01:41:35
1	Tl 190.801†	-25.1	5.8	2.2677 ug/L	2.2677 ppb	01:41:55
1	U 409.014†	-2051.7	-59.5	-1.7385 ug/L	-1.7385 ppb	01:41:35
1	V 292.402†	-1162.5	78.0	0.6130 ug/L	0.6130 ppb	01:41:35
1	Zn 213.857†	585.4	86.1	1.0375 ug/L	1.0375 ppb	01:41:55
1	SiO2†	557.5	82.0	6.4306 ug/L	6.4306 ppb	01:43:06
2	Sc Radial	3281.0	3281.0	97.9 %		01:41:04
2	Y RADIAL	2682.4	2682.4	97.78 %		01:41:04
2	Al 396.153Radial†	-58.1	0.7	1.5511 ug/L	1.5511 ppb	01:41:04
2	Ca 317.933Radial†	8.2	-1.8	-7.1622 ug/L	-7.1622 ppb	01:41:04
2	Fe 238.204 Radial†	8.7	0.2	5.6056 ug/L	5.6056 ppb	01:41:04
2	K 766.490 Radial†	2103.6	33.7	15.414 ug/L	15.414 ppb	01:40:44
2	Mg 279.077 IEC†	3.1	2.8	267.33 ug/L	267.33 ppb	01:41:04
2	Na 589.592 Radial†	-755.6	11.0	3.6766 ug/L	3.6766 ppb	01:40:44
2	Sr 421.552†	36.8	1.9	0.0186 ug/L	0.0186 ppb	01:40:44
2	Sc 361.383	819812.9	819812.9	98.211 %		01:42:01
2	Y 371.029	701099.4	701099.4	97.965 %		01:42:01
2	Ag 328.068†	133.3	-23.3	-0.1174 ug/L	-0.1174 ppb	01:42:01
2	As 188.979†	-15.6	0.1	0.0681 ug/L	0.0681 ppb	01:42:21
2	B 249.677†	-280.2	-195.1	-5.4683 ug/L	-5.4683 ppb	01:42:21
2	Ba 233.527†	3.6	10.8	0.1006 ug/L	0.1006 ppb	01:42:21
2	Be 313.107†	-3529.0	19.3	0.0084 ug/L	0.0084 ppb	01:42:01
2	Cd 226.502†	-144.6	-5.7	-0.0821 ug/L	-0.0821 ppb	01:42:21
2	Co 228.616†	-53.9	-11.3	-0.2947 ug/L	-0.2947 ppb	01:42:21
2	Cr 267.716†	73.5	9.2	0.1190 ug/L	0.1190 ppb	01:42:21
2	Cu 324.752†	6055.0	94.8	0.3050 ug/L	0.3050 ppb	01:42:01
2	Mn 257.610†	422.4	40.4	0.0425 ug/L	0.0425 ppb	01:42:21
2	Mo 202.031†	10.4	-3.2	-0.2728 ug/L	-0.2728 ppb	01:42:21
2	Ni 231.604†	87.1	35.6	1.1233 ug/L	1.1233 ppb	01:42:21

2	P 214.914†	169.4	-2.9	-2.2997 ug/L	-2.2997 ppb	01:42:21
2	Pb 220.353†	-49.4	-6.4	-0.9930 ug/L	-0.9930 ppb	01:42:21
2	S 181.975 Axial†	27.5	-2.9	-5.1097 ug/L	-5.1097 ppb	01:42:21
2	Sb 206.836†	24.5	-3.5	-1.4706 ug/L	-1.4706 ppb	01:42:21
2	Se 196.026†	-13.2	5.8	4.7526 ug/L	4.7526 ppb	01:42:21
2	Si 251.611†	534.8	92.1	3.4201 ug/L	3.4201 ppb	01:42:21
2	Sn 189.927†	8.7	1.1	0.2413 ug/L	0.2413 ppb	01:42:21
2	Ti 334.940†	-923.9	19.5	0.0099 ug/L	0.0099 ppb	01:42:01
2	Tl 190.801†	-29.7	0.9	0.3368 ug/L	0.3368 ppb	01:42:21
2	U 409.014†	-1937.3	30.6	0.8929 ug/L	0.8929 ppb	01:42:01
2	V 292.402†	-1245.1	-21.0	-0.1621 ug/L	-0.1621 ppb	01:42:01
2	Zn 213.857†	549.6	57.2	0.6853 ug/L	0.6853 ppb	01:42:21
2	SiO2†	566.1	97.9	7.7011 ug/L	7.7011 ppb	01:43:26
3	Sc Radial	3233.0	3233.0	96.5 %		01:41:29
3	Y RADIAL	2636.6	2636.6	96.11 %		01:41:29
3	Al 396.153Radial†	-69.2	-11.7	-25.160 ug/L	-25.160 ppb	01:41:29
3	Ca 317.933Radial†	8.6	-1.3	-5.1698 ug/L	-5.1698 ppb	01:41:29
3	Fe 238.204 Radial†	7.8	-0.6	-15.704 ug/L	-15.704 ppb	01:41:29
3	K 766.490 Radial†	2141.1	104.4	47.784 ug/L	47.784 ppb	01:41:09
3	Mg 279.077 IEC†	1.9	1.5	143.69 ug/L	143.69 ppb	01:41:29
3	Na 589.592 Radial†	-767.7	-13.0	-4.3361 ug/L	-4.3361 ppb	01:41:09
3	Sr 421.552†	32.7	-1.7	-0.0172 ug/L	-0.0172 ppb	01:41:09
3	Sc 361.383	857354.0	857354.0	102.71 %		01:42:26
3	Y 371.029	733842.1	733842.1	102.54 %		01:42:26
3	Ag 328.068†	73.3	-87.7	-0.4497 ug/L	-0.4497 ppb	01:42:26
3	As 188.979†	-23.1	-6.5	-3.6336 ug/L	-3.6336 ppb	01:42:46
3	B 249.677†	-279.0	-181.4	-5.0834 ug/L	-5.0834 ppb	01:42:46
3	Ba 233.527†	-9.4	-1.9	-0.0187 ug/L	-0.0187 ppb	01:42:46
3	Be 313.107†	-3556.9	149.4	0.0647 ug/L	0.0647 ppb	01:42:26
3	Cd 226.502†	-142.1	3.2	0.0491 ug/L	0.0491 ppb	01:42:46
3	Co 228.616†	-49.7	-4.8	-0.1241 ug/L	-0.1241 ppb	01:42:46
3	Cr 267.716†	52.5	-14.6	-0.1921 ug/L	-0.1921 ppb	01:42:46
3	Cu 324.752†	6128.9	-103.1	-0.3337 ug/L	-0.3337 ppb	01:42:26
3	Mn 257.610†	423.7	22.8	0.0225 ug/L	0.0225 ppb	01:42:46
3	Mo 202.031†	15.2	1.0	0.0866 ug/L	0.0866 ppb	01:42:46
3	Ni 231.604†	107.1	51.3	1.6165 ug/L	1.6165 ppb	01:42:46
3	P 214.914†	174.6	-5.4	-4.0539 ug/L	-4.0539 ppb	01:42:46
3	Pb 220.353†	-48.7	-3.5	-0.5508 ug/L	-0.5508 ppb	01:42:46
3	S 181.975 Axial†	30.9	-0.8	-1.3904 ug/L	-1.3904 ppb	01:42:46
3	Sb 206.836†	34.6	5.2	2.1206 ug/L	2.1206 ppb	01:42:46
3	Se 196.026†	-15.2	4.4	3.5406 ug/L	3.5406 ppb	01:42:46
3	Si 251.611†	527.0	60.7	2.2480 ug/L	2.2480 ppb	01:42:46
3	Sn 189.927†	-1.5	-9.3	-2.1050 ug/L	-2.1050 ppb	01:42:46
3	Ti 334.940†	-940.1	45.0	0.0633 ug/L	0.0633 ppb	01:42:26
3	Tl 190.801†	-34.6	-2.6	-1.0064 ug/L	-1.0064 ppb	01:42:46
3	U 409.014†	-1994.1	61.7	1.8032 ug/L	1.8032 ppb	01:42:26
3	V 292.402†	-1286.9	-6.2	-0.0390 ug/L	-0.0390 ppb	01:42:26
3	Zn 213.857†	567.1	49.6	0.5948 ug/L	0.5948 ppb	01:42:46
3	SiO2†	545.9	53.0	4.1645 ug/L	4.1645 ppb	01:43:46

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835822.5	100.13 %	2.320			2.32%
Sc Radial	3278.8	97.9 %	1.34			1.36%
Y 371.029	715381.2	99.960 %	2.3428			2.34%
Y RADIAL	2676.4	97.56 %	1.354			1.39%
Ag 328.068†	-55.3	-0.2800 ug/L	0.16630	-0.2800 ppb	0.16630	59.39%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-2.3	-4.8986 ug/L	17.92912	-4.8986 ppb	17.92912	366.01%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-5.1	-2.8578 ug/L	2.62545	-2.8578 ppb	2.62545	91.87%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-184.2	-5.1622 ug/L	0.27536	-5.1622 ppb	0.27536	5.33%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.3	0.0403 ug/L	0.05965	0.0403 ppb	0.05965	148.16%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	53.1	0.0231 ug/L	0.03653	0.0231 ppb	0.03653	158.29%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.3	-5.1520 ug/L	2.01918	-5.1520 ppb	2.01918	39.19%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-3.1	-0.0437 ug/L	0.08077	-0.0437 ppb	0.08077 184.93%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-4.8	-0.1240 ug/L	0.17079	-0.1240 ppb	0.17079 137.75%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	2.5	0.0325 ug/L	0.19623	0.0325 ppb	0.19623 603.89%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	14.6	0.0466 ug/L	0.33634	0.0466 ppb	0.33634 722.02%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-0.1	-3.6874 ug/L	10.91284	-3.6874 ppb	10.91284 295.95%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	94.4	43.222 ug/L	25.8310	43.222 ppb	25.8310 59.76%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	1.7	160.29 ug/L	99.782	160.29 ppb	99.782 62.25%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	29.8	0.0321 ug/L	0.01005	0.0321 ppb	0.01005 31.30%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	1.0	0.0836 ug/L	0.35482	0.0836 ppb	0.35482 424.59%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	12.3	4.1166 ug/L	8.68103	4.1166 ppb	8.68103 210.88%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	40.8	1.2870 ug/L	0.28541	1.2870 ppb	0.28541 22.18%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-4.3	-3.2801 ug/L	0.89515	-3.2801 ppb	0.89515 27.29%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	0.9	0.1427 ug/L	1.59950	0.1427 ppb	1.59950 >999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-0.5	-0.9663 ug/L	4.37099	-0.9663 ppb	4.37099 452.37%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-0.8	-0.3470 ug/L	2.13984	-0.3470 ppb	2.13984 616.65%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	3.2	2.5557 ug/L	2.82135	2.5557 ppb	2.82135 110.39%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	82.3	3.0521 ug/L	0.69720	3.0521 ppb	0.69720 22.84%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-1.2	-0.2812 ug/L	1.62673	-0.2812 ppb	1.62673 578.49%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-4.7	-0.0465 ug/L	0.08367	-0.0465 ppb	0.08367 179.98%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	36.6	0.0483 ug/L	0.03345	0.0483 ppb	0.03345 69.32%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	1.4	0.5327 ug/L	1.64583	0.5327 ppb	1.64583 308.95%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	10.9	0.3192 ug/L	1.83921	0.3192 ppb	1.83921 576.17%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	16.9	0.1373 ug/L	0.41653	0.1373 ppb	0.41653 303.38%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	64.3	0.7725 ug/L	0.23384	0.7725 ppb	0.23384 30.27%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	77.7	6.0987 ug/L	1.79152	6.0987 ppb	1.79152 29.38%
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: 3/10/2010 02:35:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3301.9	3301.9	98.6 %		02:37:58
1	Y RADIAL	2679.7	2679.7	97.68 %		02:37:58
1	Al 396.153Radial†	2239.1	2332.0	4987.2 ug/L	4987.2 ppb	02:37:38
1	Ca 317.933Radial†	1308.4	1317.4	5228.2 ug/L	5228.2 ppb	02:37:58
1	Fe 238.204 Radial†	196.6	190.9	5321.3 ug/L	5321.3 ppb	02:37:58
1	K 766.490 Radial†	12878.0	10952.9	5007.6 ug/L	5007.6 ppb	02:37:38
1	Mg 279.077 IEC†	54.4	54.7	5312.0 ug/L	5312.0 ppb	02:37:58
1	Na 589.592 Radial†	27910.2	29103.1	9719.2 ug/L	9719.2 ppb	02:37:38
1	Sr 421.552†	50285.8	50989.3	505.57 ug/L	505.57 ppb	02:37:38
1	Sc 361.383	844424.9	844424.9	101.16 %		02:38:55
1	Y 371.029	713106.4	713106.4	99.643 %		02:38:55
1	Ag 328.068†	102443.0	101109.6	514.04 ug/L	514.04 ppb	02:39:01
1	As 188.979†	911.8	917.3	514.30 ug/L	514.30 ppb	02:39:21
1	B 249.677†	17800.3	17686.5	493.44 ug/L	493.44 ppb	02:39:01
1	Ba 233.527†	55311.6	54684.8	512.01 ug/L	512.01 ppb	02:39:01
1	Be 313.107†	1197991.6	1187871.1	513.78 ug/L	513.78 ppb	02:38:55
1	Cd 226.502†	35682.4	35415.0	511.82 ug/L	511.82 ppb	02:39:01
1	Co 228.616†	20265.3	20076.6	520.75 ug/L	520.75 ppb	02:39:01
1	Cr 267.716†	39587.9	39068.4	510.33 ug/L	510.33 ppb	02:39:01
1	Cu 324.752†	165459.4	157492.2	506.83 ug/L	506.83 ppb	02:39:01
1	Mn 257.610†	396232.2	391300.3	513.07 ug/L	513.07 ppb	02:38:55
1	Mo 202.031†	5987.8	5905.4	510.19 ug/L	510.19 ppb	02:39:21
1	Ni 231.604†	16664.5	16420.4	517.24 ug/L	517.24 ppb	02:39:01
1	P 214.914†	3590.1	3373.5	2463.3 ug/L	2463.3 ppb	02:39:21
1	Pb 220.353†	3305.7	3311.7	514.20 ug/L	514.20 ppb	02:39:21
1	S 181.975 Axial†	608.3	570.5	1016.6 ug/L	1016.6 ppb	02:39:21
1	Sb 206.836†	1281.2	1238.0	531.31 ug/L	531.31 ppb	02:39:21
1	Se 196.026†	625.6	637.7	536.45 ug/L	536.45 ppb	02:39:21
1	Si 251.611†	70175.8	68919.0	2549.1 ug/L	2549.1 ppb	02:39:01
1	Sn 189.927†	2265.0	2231.2	507.62 ug/L	507.62 ppb	02:39:21
1	Ti 334.940†	296666.4	294225.8	499.92 ug/L	499.92 ppb	02:39:01
1	Tl 190.801†	1314.5	1330.5	519.44 ug/L	519.44 ppb	02:39:21
1	U 409.014†	16133.2	17951.4	522.48 ug/L	522.48 ppb	02:39:01
1	V 292.402†	64620.5	65126.4	515.21 ug/L	515.21 ppb	02:39:01
1	Zn 213.857†	43216.4	42218.5	507.48 ug/L	507.48 ppb	02:39:01
1	SiO2†	70830.8	69540.4	5448.8 ug/L	5448.8 ppb	02:40:28
2	Sc Radial	3330.3	3330.3	99.4 %		02:38:23
2	Y RADIAL	2697.8	2697.8	98.34 %		02:38:23
2	Al 396.153Radial†	2211.2	2284.6	4885.3 ug/L	4885.3 ppb	02:38:03
2	Ca 317.933Radial†	1319.5	1317.3	5227.7 ug/L	5227.7 ppb	02:38:23
2	Fe 238.204 Radial†	195.9	188.5	5254.9 ug/L	5254.9 ppb	02:38:23
2	K 766.490 Radial†	13020.6	10984.8	5022.2 ug/L	5022.2 ppb	02:38:03
2	Mg 279.077 IEC†	54.4	54.3	5266.0 ug/L	5266.0 ppb	02:38:23
2	Na 589.592 Radial†	27710.4	28660.5	9571.4 ug/L	9571.4 ppb	02:38:03
2	Sr 421.552†	50268.4	50536.4	501.08 ug/L	501.08 ppb	02:38:03
2	Sc 361.383	845898.6	845898.6	101.34 %		02:39:26
2	Y 371.029	713633.2	713633.2	99.716 %		02:39:26
2	Ag 328.068†	102618.9	101106.8	514.01 ug/L	514.01 ppb	02:39:32
2	As 188.979†	909.7	913.7	512.27 ug/L	512.27 ppb	02:39:52
2	B 249.677†	17903.8	17758.0	495.46 ug/L	495.46 ppb	02:39:32
2	Ba 233.527†	55252.8	54531.5	510.57 ug/L	510.57 ppb	02:39:32
2	Be 313.107†	1197777.9	1185597.0	512.80 ug/L	512.80 ppb	02:39:26
2	Cd 226.502†	35584.0	35256.4	509.53 ug/L	509.53 ppb	02:39:32
2	Co 228.616†	20312.9	20088.6	521.06 ug/L	521.06 ppb	02:39:32
2	Cr 267.716†	39503.8	38917.2	508.35 ug/L	508.35 ppb	02:39:32
2	Cu 324.752†	165855.0	157597.6	507.17 ug/L	507.17 ppb	02:39:32
2	Mn 257.610†	397520.8	391889.6	513.84 ug/L	513.84 ppb	02:39:26
2	Mo 202.031†	5984.7	5892.0	509.03 ug/L	509.03 ppb	02:39:52
2	Ni 231.604†	16716.3	16442.9	517.95 ug/L	517.95 ppb	02:39:32

2	P 214.914†	3585.1	3362.4	2454.8 ug/L	2454.8 ppb	02:39:52
2	Pb 220.353†	3310.2	3310.5	514.00 ug/L	514.00 ppb	02:39:52
2	S 181.975 Axial†	610.1	571.2	1017.9 ug/L	1017.9 ppb	02:39:52
2	Sb 206.836†	1278.8	1233.5	529.39 ug/L	529.39 ppb	02:39:52
2	Se 196.026†	619.6	630.6	530.49 ug/L	530.49 ppb	02:39:52
2	Si 251.611†	70302.0	68922.6	2549.3 ug/L	2549.3 ppb	02:39:32
2	Sn 189.927†	2261.8	2224.1	506.02 ug/L	506.02 ppb	02:39:52
2	Ti 334.940†	296847.7	293893.9	499.37 ug/L	499.37 ppb	02:39:32
2	Tl 190.801†	1306.0	1319.9	515.33 ug/L	515.33 ppb	02:39:52
2	U 409.014†	16047.6	17839.2	519.21 ug/L	519.21 ppb	02:39:32
2	V 292.402†	64713.5	65107.0	515.05 ug/L	515.05 ppb	02:39:32
2	Zn 213.857†	43258.1	42185.3	507.08 ug/L	507.08 ppb	02:39:32
2	SiO2†	70224.9	68820.4	5392.3 ug/L	5392.3 ppb	02:40:33
3	Sc Radial	3357.9	3357.9	100 %		02:38:48
3	Y RADIAL	2711.3	2711.3	98.84 %		02:38:48
3	Al 396.153Radial†	2231.4	2286.5	4889.4 ug/L	4889.4 ppb	02:38:28
3	Ca 317.933Radial†	1322.3	1309.2	5195.5 ug/L	5195.5 ppb	02:38:48
3	Fe 238.204 Radial†	194.5	185.5	5170.3 ug/L	5170.3 ppb	02:38:48
3	K 766.490 Radial†	13193.6	11049.9	5052.1 ug/L	5052.1 ppb	02:38:28
3	Mg 279.077 IEC†	52.6	52.1	5053.9 ug/L	5053.9 ppb	02:38:48
3	Na 589.592 Radial†	27758.0	28478.9	9510.7 ug/L	9510.7 ppb	02:38:28
3	Sr 421.552†	50429.8	50282.0	498.56 ug/L	498.56 ppb	02:38:28
3	Sc 361.383	845862.3	845862.3	101.33 %		02:39:58
3	Y 371.029	714880.1	714880.1	99.890 %		02:39:58
3	Ag 328.068†	103331.0	101813.8	517.56 ug/L	517.56 ppb	02:40:03
3	As 188.979†	907.2	911.2	510.90 ug/L	510.90 ppb	02:40:23
3	B 249.677†	18146.0	17997.7	502.19 ug/L	502.19 ppb	02:40:03
3	Ba 233.527†	55556.4	54833.4	513.40 ug/L	513.40 ppb	02:40:03
3	Be 313.107†	1199319.5	1187169.1	513.49 ug/L	513.49 ppb	02:39:58
3	Cd 226.502†	35734.9	35406.8	511.72 ug/L	511.72 ppb	02:40:03
3	Co 228.616†	20392.9	20168.5	523.13 ug/L	523.13 ppb	02:40:03
3	Cr 267.716†	39752.7	39164.5	511.57 ug/L	511.57 ppb	02:40:03
3	Cu 324.752†	167895.8	159618.7	513.66 ug/L	513.66 ppb	02:40:03
3	Mn 257.610†	395948.4	390354.7	511.83 ug/L	511.83 ppb	02:39:58
3	Mo 202.031†	5975.5	5883.2	508.26 ug/L	508.26 ppb	02:40:23
3	Ni 231.604†	16792.3	16518.5	520.33 ug/L	520.33 ppb	02:40:03
3	P 214.914†	3581.5	3359.0	2451.0 ug/L	2451.0 ppb	02:40:23
3	Pb 220.353†	3302.1	3302.6	512.79 ug/L	512.79 ppb	02:40:23
3	S 181.975 Axial†	604.3	565.5	1007.7 ug/L	1007.7 ppb	02:40:23
3	Sb 206.836†	1277.9	1232.7	529.02 ug/L	529.02 ppb	02:40:23
3	Se 196.026†	615.4	626.5	526.92 ug/L	526.92 ppb	02:40:23
3	Si 251.611†	70877.8	69493.8	2570.5 ug/L	2570.5 ppb	02:40:03
3	Sn 189.927†	2259.3	2221.8	505.48 ug/L	505.48 ppb	02:40:23
3	Ti 334.940†	299518.5	296542.1	503.87 ug/L	503.87 ppb	02:40:03
3	Tl 190.801†	1314.3	1328.1	518.55 ug/L	518.55 ppb	02:40:23
3	U 409.014†	16490.1	18276.5	531.99 ug/L	531.99 ppb	02:40:03
3	V 292.402†	65182.5	65572.5	518.70 ug/L	518.70 ppb	02:40:03
3	Zn 213.857†	43489.0	42414.9	509.86 ug/L	509.86 ppb	02:40:03
3	SiO2†	70540.1	69134.5	5417.0 ug/L	5417.0 ppb	02:40:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	845395.3	101.28 %	0.101			0.10%
Sc Radial	3330.0	99.4 %	0.84			0.84%
Y 371.029	713873.3	99.750 %	0.1273			0.13%
Y RADIAL	2696.3	98.29 %	0.578			0.59%
Ag 328.068†	101343.4	515.20 ug/L	2.041	515.20 ppb	2.041	0.40%
QC value within limits for Ag 328.068 Recovery = 103.04%						
Al 396.153Radial†	2301.0	4920.6 ug/L	57.67	4920.6 ppb	57.67	1.17%
QC value within limits for Al 396.153Radial Recovery = 98.41%						
As 188.979†	914.1	512.49 ug/L	1.706	512.49 ppb	1.706	0.33%
QC value within limits for As 188.979 Recovery = 102.50%						
B 249.677†	17814.1	497.03 ug/L	4.578	497.03 ppb	4.578	0.92%
QC value within limits for B 249.677 Recovery = 99.41%						
Ba 233.527†	54683.2	511.99 ug/L	1.413	511.99 ppb	1.413	0.28%
QC value within limits for Ba 233.527 Recovery = 102.40%						
Be 313.107†	1186879.1	513.35 ug/L	0.504	513.35 ppb	0.504	0.10%
QC value within limits for Be 313.107 Recovery = 102.67%						
Ca 317.933Radial†	1314.6	5217.1 ug/L	18.72	5217.1 ppb	18.72	0.36%

QC value within limits for Ca 317.933 Radial Recovery = 104.34%

Cd 226.502†	35359.4	511.02 ug/L	1.292	511.02 ppb	1.292	0.25%
QC value within limits for Cd 226.502 Recovery = 102.20%						
Co 228.616†	20111.2	521.65 ug/L	1.289	521.65 ppb	1.289	0.25%
QC value within limits for Co 228.616 Recovery = 104.33%						
Cr 267.716†	39050.0	510.08 ug/L	1.625	510.08 ppb	1.625	0.32%
QC value within limits for Cr 267.716 Recovery = 102.02%						
Cu 324.752†	158236.2	509.22 ug/L	3.850	509.22 ppb	3.850	0.76%
QC value within limits for Cu 324.752 Recovery = 101.84%						
Fe 238.204 Radial†	188.3	5248.9 ug/L	75.68	5248.9 ppb	75.68	1.44%
QC value within limits for Fe 238.204 Radial Recovery = 104.98%						
K 766.490 Radial†	10995.8	5027.3 ug/L	22.67	5027.3 ppb	22.67	0.45%
QC value within limits for K 766.490 Radial Recovery = 100.55%						
Mg 279.077 IEC†	53.7	5210.7 ug/L	137.69	5210.7 ppb	137.69	2.64%
QC value within limits for Mg 279.077 IEC Recovery = 104.21%						
Mn 257.610†	391181.5	512.92 ug/L	1.015	512.92 ppb	1.015	0.20%
QC value within limits for Mn 257.610 Recovery = 102.58%						
Mo 202.031†	5893.5	509.16 ug/L	0.969	509.16 ppb	0.969	0.19%
QC value within limits for Mo 202.031 Recovery = 101.83%						
Na 589.592 Radial†	28747.5	9600.4 ug/L	107.22	9600.4 ppb	107.22	1.12%
QC value within limits for Na 589.592 Radial Recovery = 96.00%						
Ni 231.604†	16460.6	518.51 ug/L	1.620	518.51 ppb	1.620	0.31%
QC value within limits for Ni 231.604 Recovery = 103.70%						
P 214.914†	3365.0	2456.4 ug/L	6.32	2456.4 ppb	6.32	0.26%
QC value within limits for P 214.914 Recovery = 98.26%						
Pb 220.353†	3308.3	513.66 ug/L	0.761	513.66 ppb	0.761	0.15%
QC value within limits for Pb 220.353 Recovery = 102.73%						
S 181.975 Axial†	569.1	1014.0 ug/L	5.57	1014.0 ppb	5.57	0.55%
QC value within limits for S 181.975 Axial Recovery = 101.40%						
Sb 206.836†	1234.7	529.91 ug/L	1.229	529.91 ppb	1.229	0.23%
QC value within limits for Sb 206.836 Recovery = 105.98%						
Se 196.026†	631.6	531.29 ug/L	4.815	531.29 ppb	4.815	0.91%
QC value within limits for Se 196.026 Recovery = 106.26%						
Si 251.611†	69111.8	2556.3 ug/L	12.28	2556.3 ppb	12.28	0.48%
QC value within limits for Si 251.611 Recovery = 102.25%						
Sn 189.927†	2225.7	506.37 ug/L	1.113	506.37 ppb	1.113	0.22%
QC value within limits for Sn 189.927 Recovery = 101.27%						
Sr 421.552†	50602.6	501.74 ug/L	3.553	501.74 ppb	3.553	0.71%
QC value within limits for Sr 421.552 Recovery = 100.35%						
Ti 334.940†	294887.3	501.05 ug/L	2.457	501.05 ppb	2.457	0.49%
QC value within limits for Ti 334.940 Recovery = 100.21%						
Tl 190.801†	1326.2	517.77 ug/L	2.166	517.77 ppb	2.166	0.42%
QC value within limits for Tl 190.801 Recovery = 103.55%						
U 409.014†	18022.4	524.56 ug/L	6.637	524.56 ppb	6.637	1.27%
QC value within limits for U 409.014 Recovery = 104.91%						
V 292.402†	65268.7	516.32 ug/L	2.062	516.32 ppb	2.062	0.40%
QC value within limits for V 292.402 Recovery = 103.26%						
Zn 213.857†	42272.9	508.14 ug/L	1.500	508.14 ppb	1.500	0.30%
QC value within limits for Zn 213.857 Recovery = 101.63%						
SiO2†	69165.1	5419.3 ug/L	28.34	5419.3 ppb	28.34	0.52%
QC value within limits for SiO2 Recovery = 101.34%						

All analyte(s) passed QC.

Sequence No.: 77

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/10/2010 02:42:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3320.2	3320.2	99.1 %		02:45:01
1	Y RADIAL	2711.1	2711.1	98.83 %		02:45:01
1	Al 396.153Radial†	-63.4	-4.0	-8.5408 ug/L	-8.5408 ppb	02:45:01
1	Ca 317.933Radial†	8.6	-1.5	-6.0306 ug/L	-6.0306 ppb	02:45:01
1	Fe 238.204 Radial†	8.5	-0.0	-0.3095 ug/L	-0.3095 ppb	02:45:01
1	K 766.490 Radial†	2134.5	39.4	18.051 ug/L	18.051 ppb	02:44:41
1	Mg 279.077 IEC†	1.3	0.9	87.038 ug/L	87.038 ppb	02:45:01
1	Na 589.592 Radial†	-739.4	36.5	12.176 ug/L	12.176 ppb	02:44:41
1	Sr 421.552†	35.2	-0.2	-0.0015 ug/L	-0.0015 ppb	02:44:41
1	Sc 361.383	831595.9	831595.9	99.623 %		02:45:58
1	Y 371.029	711898.9	711898.9	99.474 %		02:45:58
1	Ag 328.068†	112.3	-46.4	-0.2325 ug/L	-0.2325 ppb	02:45:58
1	As 188.979†	-18.6	-2.7	-1.5202 ug/L	-1.5202 ppb	02:46:18
1	B 249.677†	-282.0	-192.9	-5.4062 ug/L	-5.4062 ppb	02:46:18
1	Ba 233.527†	4.3	11.5	0.1084 ug/L	0.1084 ppb	02:46:18
1	Be 313.107†	-3613.0	-14.1	-0.0060 ug/L	-0.0060 ppb	02:45:58
1	Cd 226.502†	-148.1	-7.1	-0.1009 ug/L	-0.1009 ppb	02:46:18
1	Co 228.616†	-46.2	-2.8	-0.0757 ug/L	-0.0757 ppb	02:46:18
1	Cr 267.716†	59.8	-5.7	-0.0736 ug/L	-0.0736 ppb	02:46:18
1	Cu 324.752†	6074.9	27.5	0.0876 ug/L	0.0876 ppb	02:45:58
1	Mn 257.610†	451.9	63.9	0.0802 ug/L	0.0802 ppb	02:46:18
1	Mo 202.031†	4.5	-9.2	-0.7954 ug/L	-0.7954 ppb	02:46:18
1	Ni 231.604†	102.6	50.0	1.5760 ug/L	1.5760 ppb	02:46:18
1	P 214.914†	182.6	7.9	5.9650 ug/L	5.9650 ppb	02:46:18
1	Pb 220.353†	-36.5	7.3	1.1308 ug/L	1.1308 ppb	02:46:18
1	S 181.975 Axial†	33.1	2.4	4.2967 ug/L	4.2967 ppb	02:46:18
1	Sb 206.836†	27.0	-1.4	-0.5982 ug/L	-0.5982 ppb	02:46:18
1	Se 196.026†	-16.5	2.7	2.1506 ug/L	2.1506 ppb	02:46:18
1	Si 251.611†	527.9	77.5	2.8818 ug/L	2.8818 ppb	02:46:18
1	Sn 189.927†	7.3	-0.5	-0.1174 ug/L	-0.1174 ppb	02:46:18
1	Ti 334.940†	-920.5	36.3	0.0532 ug/L	0.0532 ppb	02:45:58
1	Tl 190.801†	-27.5	3.5	1.3436 ug/L	1.3436 ppb	02:46:18
1	U 409.014†	-1953.1	42.7	1.2459 ug/L	1.2459 ppb	02:45:58
1	V 292.402†	-1157.6	84.8	0.6549 ug/L	0.6549 ppb	02:45:58
1	Zn 213.857†	561.6	61.3	0.7337 ug/L	0.7337 ppb	02:46:18
1	SiO2†	521.3	44.8	3.5376 ug/L	3.5376 ppb	02:47:29
2	Sc Radial	3302.3	3302.3	98.6 %		02:45:26
2	Y RADIAL	2696.0	2696.0	98.28 %		02:45:26
2	Al 396.153Radial†	-58.0	1.2	2.6700 ug/L	2.6700 ppb	02:45:26
2	Ca 317.933Radial†	12.7	2.7	10.725 ug/L	10.725 ppb	02:45:26
2	Fe 238.204 Radial†	8.9	0.4	11.343 ug/L	11.343 ppb	02:45:26
2	K 766.490 Radial†	2118.2	34.6	15.845 ug/L	15.845 ppb	02:45:06
2	Mg 279.077 IEC†	2.8	2.4	229.43 ug/L	229.43 ppb	02:45:26
2	Na 589.592 Radial†	-743.3	28.5	9.5153 ug/L	9.5153 ppb	02:45:06
2	Sr 421.552†	-0.5	-36.2	-0.3586 ug/L	-0.3586 ppb	02:45:06
2	Sc 361.383	824851.7	824851.7	98.815 %		02:46:23
2	Y 371.029	706009.4	706009.4	98.651 %		02:46:23
2	Ag 328.068†	95.1	-62.8	-0.3185 ug/L	-0.3185 ppb	02:46:23
2	As 188.979†	-18.7	-2.9	-1.6297 ug/L	-1.6297 ppb	02:46:43
2	B 249.677†	-296.3	-209.6	-5.8778 ug/L	-5.8778 ppb	02:46:43
2	Ba 233.527†	-11.2	-4.2	-0.0395 ug/L	-0.0395 ppb	02:46:43
2	Be 313.107†	-3581.5	-11.9	-0.0050 ug/L	-0.0050 ppb	02:46:23
2	Cd 226.502†	-148.0	-8.2	-0.1178 ug/L	-0.1178 ppb	02:46:43
2	Co 228.616†	-47.0	-4.0	-0.1062 ug/L	-0.1062 ppb	02:46:43
2	Cr 267.716†	72.4	7.6	0.0972 ug/L	0.0972 ppb	02:46:43
2	Cu 324.752†	6070.8	73.2	0.2342 ug/L	0.2342 ppb	02:46:23
2	Mn 257.610†	443.0	58.6	0.0686 ug/L	0.0686 ppb	02:46:43
2	Mo 202.031†	7.4	-6.2	-0.5377 ug/L	-0.5377 ppb	02:46:43
2	Ni 231.604†	91.1	39.2	1.2343 ug/L	1.2343 ppb	02:46:43

2	P 214.914†	166.9	-6.5	-4.9789 ug/L	-4.9789 ppb	02:46:43
2	Pb 220.353†	-34.6	8.9	1.3824 ug/L	1.3824 ppb	02:46:43
2	S 181.975 Axial†	26.2	-4.3	-7.7496 ug/L	-7.7496 ppb	02:46:43
2	Sb 206.836†	23.2	-5.0	-2.1179 ug/L	-2.1179 ppb	02:46:43
2	Se 196.026†	-19.1	-0.1	-0.0753 ug/L	-0.0753 ppb	02:46:43
2	Si 251.611†	512.0	65.7	2.4444 ug/L	2.4444 ppb	02:46:43
2	Sn 189.927†	-1.7	-9.5	-2.1578 ug/L	-2.1578 ppb	02:46:43
2	Ti 334.940†	-904.6	44.9	0.0574 ug/L	0.0574 ppb	02:46:23
2	Tl 190.801†	-25.7	5.1	1.9805 ug/L	1.9805 ppb	02:46:43
2	U 409.014†	-1863.6	117.2	3.4209 ug/L	3.4209 ppb	02:46:23
2	V 292.402†	-1286.0	-54.6	-0.4250 ug/L	-0.4250 ppb	02:46:23
2	Zn 213.857†	561.4	65.6	0.7864 ug/L	0.7864 ppb	02:46:43
2	SiO2†	532.6	60.6	4.7712 ug/L	4.7712 ppb	02:47:49
3	Sc Radial	3295.3	3295.3	98.4 %		02:45:51
3	Y RADIAL	2685.5	2685.5	97.90 %		02:45:51
3	Al 396.153Radial†	-62.8	-3.8	-8.2471 ug/L	-8.2471 ppb	02:45:51
3	Ca 317.933Radial†	7.9	-2.2	-8.5442 ug/L	-8.5442 ppb	02:45:51
3	Fe 238.204 Radial†	9.2	0.7	20.262 ug/L	20.262 ppb	02:45:51
3	K 766.490 Radial†	2091.8	12.3	5.6467 ug/L	5.6467 ppb	02:45:31
3	Mg 279.077 IEC†	1.0	0.5	52.845 ug/L	52.845 ppb	02:45:51
3	Na 589.592 Radial†	-745.1	25.0	8.3622 ug/L	8.3622 ppb	02:45:31
3	Sr 421.552†	14.7	-20.7	-0.2051 ug/L	-0.2051 ppb	02:45:31
3	Sc 361.383	832499.7	832499.7	99.731 %		02:46:48
3	Y 371.029	713672.4	713672.4	99.722 %		02:46:48
3	Ag 328.068†	130.6	-28.1	-0.1384 ug/L	-0.1384 ppb	02:46:48
3	As 188.979†	-21.8	-5.9	-3.2784 ug/L	-3.2784 ppb	02:47:08
3	B 249.677†	-290.0	-200.6	-5.6255 ug/L	-5.6255 ppb	02:47:08
3	Ba 233.527†	-3.1	4.1	0.0387 ug/L	0.0387 ppb	02:47:08
3	Be 313.107†	-3597.7	5.1	0.0027 ug/L	0.0027 ppb	02:46:48
3	Cd 226.502†	-152.8	-11.7	-0.1700 ug/L	-0.1700 ppb	02:47:08
3	Co 228.616†	-53.7	-10.3	-0.2674 ug/L	-0.2674 ppb	02:47:08
3	Cr 267.716†	58.3	-7.2	-0.0950 ug/L	-0.0950 ppb	02:47:08
3	Cu 324.752†	6085.8	31.8	0.1014 ug/L	0.1014 ppb	02:46:48
3	Mn 257.610†	434.3	45.8	0.0598 ug/L	0.0598 ppb	02:47:08
3	Mo 202.031†	17.6	3.8	0.3318 ug/L	0.3318 ppb	02:47:08
3	Ni 231.604†	74.7	21.9	0.6910 ug/L	0.6910 ppb	02:47:08
3	P 214.914†	165.2	-9.8	-7.4433 ug/L	-7.4433 ppb	02:47:08
3	Pb 220.353†	-33.8	10.0	1.5432 ug/L	1.5432 ppb	02:47:08
3	S 181.975 Axial†	22.5	-8.3	-14.741 ug/L	-14.741 ppb	02:47:08
3	Sb 206.836†	34.8	6.4	2.6684 ug/L	2.6684 ppb	02:47:08
3	Se 196.026†	-14.5	4.6	3.8335 ug/L	3.8335 ppb	02:47:08
3	Si 251.611†	528.0	77.0	2.8500 ug/L	2.8500 ppb	02:47:08
3	Sn 189.927†	8.6	0.8	0.1897 ug/L	0.1897 ppb	02:47:08
3	Ti 334.940†	-843.8	114.2	0.1870 ug/L	0.1870 ppb	02:46:48
3	Tl 190.801†	-25.7	5.3	2.0472 ug/L	2.0472 ppb	02:47:08
3	U 409.014†	-1876.5	121.6	3.5477 ug/L	3.5477 ppb	02:46:48
3	V 292.402†	-1241.0	2.4	0.0281 ug/L	0.0281 ppb	02:46:48
3	Zn 213.857†	573.5	72.6	0.8735 ug/L	0.8735 ppb	02:47:08
3	SiO2†	523.7	46.6	3.6520 ug/L	3.6520 ppb	02:48:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	829649.1	99.390 %	0.5007			0.50%
Sc Radial	3305.9	98.7 %	0.38			0.39%
Y 371.029	710526.9	99.282 %	0.5605			0.56%
Y RADIAL	2697.5	98.33 %	0.468			0.48%
Ag 328.068†	-45.8	-0.2298 ug/L	0.09009	-0.2298 ppb	0.09009	39.20%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-2.2	-4.7060 ug/L	6.38945	-4.7060 ppb	6.38945	135.77%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.9	-2.1428 ug/L	0.98503	-2.1428 ppb	0.98503	45.97%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-201.0	-5.6365 ug/L	0.23599	-5.6365 ppb	0.23599	4.19%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.8	0.0359 ug/L	0.07401	0.0359 ppb	0.07401	206.29%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-7.0	-0.0028 ug/L	0.00471	-0.0028 ppb	0.00471	170.97%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.3	-1.2833 ug/L	10.47504	-1.2833 ppb	10.47504	816.24%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-9.0	-0.1296 ug/L	0.03600	-0.1296 ppb	0.03600	27.78%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-5.7	-0.1498 ug/L	0.10300	-0.1498 ppb	0.10300	68.76%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-1.8	-0.0238 ug/L	0.10534	-0.0238 ppb	0.10534	442.85%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	44.1	0.1411 ug/L	0.08096	0.1411 ppb	0.08096	57.39%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.4	10.432 ug/L	10.3162	10.432 ppb	10.3162	98.89%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	28.8	13.181 ug/L	6.6175	13.181 ppb	6.6175	50.20%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.3	123.10 ug/L	93.652	123.10 ppb	93.652	76.08%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	56.1	0.0695 ug/L	0.01024	0.0695 ppb	0.01024	14.72%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-3.9	-0.3338 ug/L	0.59064	-0.3338 ppb	0.59064	176.95%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	30.0	10.018 ug/L	1.9557	10.018 ppb	1.9557	19.52%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	37.0	1.1671 ug/L	0.44635	1.1671 ppb	0.44635	38.24%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-2.8	-2.1524 ug/L	7.13709	-2.1524 ppb	7.13709	331.59%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	8.8	1.3521 ug/L	0.20784	1.3521 ppb	0.20784	15.37%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-3.4	-6.0648 ug/L	9.63023	-6.0648 ppb	9.63023	158.79%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	0.0	-0.0159 ug/L	2.44568	-0.0159 ppb	2.44568	>999.9%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.4	1.9696 ug/L	1.96067	1.9696 ppb	1.96067	99.55%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	73.4	2.7254 ug/L	0.24391	2.7254 ppb	0.24391	8.95%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-3.1	-0.6951 ug/L	1.27594	-0.6951 ppb	1.27594	183.55%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-19.0	-0.1884 ug/L	0.17914	-0.1884 ppb	0.17914	95.07%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	65.1	0.0992 ug/L	0.07609	0.0992 ppb	0.07609	76.69%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.6	1.7904 ug/L	0.38837	1.7904 ppb	0.38837	21.69%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	93.8	2.7382 ug/L	1.29392	2.7382 ppb	1.29392	47.25%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	10.9	0.0860 ug/L	0.54226	0.0860 ppb	0.54226	630.43%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	66.5	0.7979 ug/L	0.07057	0.7979 ppb	0.07057	8.84%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	50.6	3.9869 ug/L	0.68160	3.9869 ppb	0.68160	17.10%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 87

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/10/2010 03:54:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3200.6	3200.6	95.5 %		03:56:48
1	Y RADIAL	2591.7	2591.7	94.48 %		03:56:48
1	Al 396.153Radial†	2275.5	2442.0	5222.9 ug/L	5222.9 ppb	03:56:28
1	Ca 317.933Radial†	1314.5	1365.9	5420.5 ug/L	5420.5 ppb	03:56:48
1	Fe 238.204 Radial†	195.8	196.3	5473.0 ug/L	5473.0 ppb	03:56:48
1	K 766.490 Radial†	13359.8	11870.6	5427.4 ug/L	5427.4 ppb	03:56:28
1	Mg 279.077 IEC†	54.5	56.6	5491.3 ug/L	5491.3 ppb	03:56:48
1	Na 589.592 Radial†	28161.9	30262.6	10106 ug/L	10106 ppb	03:56:28
1	Sr 421.552†	51126.4	53483.7	530.31 ug/L	530.31 ppb	03:56:28
1	Sc 361.383	828464.3	828464.3	99.248 %		03:57:45
1	Y 371.029	700723.0	700723.0	97.912 %		03:57:45
1	Ag 328.068†	105781.8	106424.7	541.02 ug/L	541.02 ppb	03:57:51
1	As 188.979†	926.2	949.2	532.27 ug/L	532.27 ppb	03:58:11
1	B 249.677†	18557.3	18788.1	524.23 ug/L	524.23 ppb	03:57:51
1	Ba 233.527†	56823.0	57260.9	536.13 ug/L	536.13 ppb	03:57:51
1	Be 313.107†	1216112.5	1228944.5	531.57 ug/L	531.57 ppb	03:57:45
1	Cd 226.502†	36474.3	36892.4	533.18 ug/L	533.18 ppb	03:57:51
1	Co 228.616†	20830.3	21031.7	545.50 ug/L	545.50 ppb	03:57:51
1	Cr 267.716†	40791.9	41035.5	536.01 ug/L	536.01 ppb	03:57:51
1	Cu 324.752†	172448.5	167685.4	539.62 ug/L	539.62 ppb	03:57:51
1	Mn 257.610†	401069.5	403720.4	529.36 ug/L	529.36 ppb	03:57:45
1	Mo 202.031†	6038.2	6070.2	524.43 ug/L	524.43 ppb	03:58:11
1	Ni 231.604†	17186.6	17263.9	543.81 ug/L	543.81 ppb	03:57:51
1	P 214.914†	3589.6	3441.4	2508.5 ug/L	2508.5 ppb	03:58:11
1	Pb 220.353†	3332.1	3401.3	528.13 ug/L	528.13 ppb	03:58:11
1	S 181.975 Axial†	617.4	591.2	1053.5 ug/L	1053.5 ppb	03:58:11
1	Sb 206.836†	1290.3	1271.6	545.76 ug/L	545.76 ppb	03:58:11
1	Se 196.026†	628.0	652.0	548.65 ug/L	548.65 ppb	03:58:11
1	Si 251.611†	72539.2	72636.8	2686.8 ug/L	2686.8 ppb	03:57:51
1	Sn 189.927†	2291.5	2301.0	523.52 ug/L	523.52 ppb	03:58:11
1	Ti 334.940†	307235.7	310525.1	527.61 ug/L	527.61 ppb	03:57:51
1	Tl 190.801†	1314.1	1355.1	529.16 ug/L	529.16 ppb	03:58:11
1	U 409.014†	17016.9	19149.1	557.38 ug/L	557.38 ppb	03:57:51
1	V 292.402†	66849.1	68602.7	542.56 ug/L	542.56 ppb	03:57:51
1	Zn 213.857†	44583.6	44419.1	533.94 ug/L	533.94 ppb	03:57:51
1	SiO2†	70458.2	70513.9	5524.9 ug/L	5524.9 ppb	03:59:18
2	Sc Radial	3233.1	3233.1	96.5 %		03:57:13
2	Y RADIAL	2613.8	2613.8	95.28 %		03:57:13
2	Al 396.153Radial†	2269.2	2411.6	5157.8 ug/L	5157.8 ppb	03:56:53
2	Ca 317.933Radial†	1325.1	1363.0	5409.1 ug/L	5409.1 ppb	03:57:13
2	Fe 238.204 Radial†	196.1	194.6	5423.7 ug/L	5423.7 ppb	03:57:13
2	K 766.490 Radial†	13185.8	11549.9	5280.7 ug/L	5280.7 ppb	03:56:53
2	Mg 279.077 IEC†	55.0	56.5	5486.2 ug/L	5486.2 ppb	03:57:13
2	Na 589.592 Radial†	28079.9	29881.5	9979.1 ug/L	9979.1 ppb	03:56:53
2	Sr 421.552†	51167.2	52988.3	525.39 ug/L	525.39 ppb	03:56:53
2	Sc 361.383	836428.9	836428.9	100.20 %		03:58:16
2	Y 371.029	706465.1	706465.1	98.715 %		03:58:16
2	Ag 328.068†	104953.1	104582.8	531.68 ug/L	531.68 ppb	03:58:22
2	As 188.979†	915.1	929.2	521.07 ug/L	521.07 ppb	03:58:42
2	B 249.677†	18431.7	18484.8	515.76 ug/L	515.76 ppb	03:58:22
2	Ba 233.527†	56492.4	56385.8	527.94 ug/L	527.94 ppb	03:58:22
2	Be 313.107†	1218012.0	1219172.3	527.33 ug/L	527.33 ppb	03:58:16
2	Cd 226.502†	36264.4	36332.9	525.09 ug/L	525.09 ppb	03:58:22
2	Co 228.616†	20740.6	20742.4	538.00 ug/L	538.00 ppb	03:58:22
2	Cr 267.716†	40450.8	40303.6	526.46 ug/L	526.46 ppb	03:58:22
2	Cu 324.752†	170594.8	164180.9	528.35 ug/L	528.35 ppb	03:58:22
2	Mn 257.610†	401417.2	400219.3	524.76 ug/L	524.76 ppb	03:58:16
2	Mo 202.031†	6034.7	6008.8	519.13 ug/L	519.13 ppb	03:58:42
2	Ni 231.604†	17033.2	16945.9	533.79 ug/L	533.79 ppb	03:58:22

2	P 214.914†	3593.8	3411.2	2487.7 ug/L	2487.7 ppb	03:58:42
2	Pb 220.353†	3319.3	3356.6	521.19 ug/L	521.19 ppb	03:58:42
2	S 181.975 Axial†	606.1	574.1	1022.9 ug/L	1022.9 ppb	03:58:42
2	Sb 206.836†	1284.0	1252.9	537.77 ug/L	537.77 ppb	03:58:42
2	Se 196.026†	622.0	640.0	538.67 ug/L	538.67 ppb	03:58:42
2	Si 251.611†	71883.7	71286.6	2636.8 ug/L	2636.8 ppb	03:58:22
2	Sn 189.927†	2275.2	2262.8	514.83 ug/L	514.83 ppb	03:58:42
2	Ti 334.940†	304686.1	305032.9	518.29 ug/L	518.29 ppb	03:58:22
2	Tl 190.801†	1319.3	1347.7	526.23 ug/L	526.23 ppb	03:58:42
2	U 409.014†	16641.8	18611.4	541.71 ug/L	541.71 ppb	03:58:22
2	V 292.402†	66460.0	67572.9	534.43 ug/L	534.43 ppb	03:58:22
2	Zn 213.857†	44181.0	43589.5	523.97 ug/L	523.97 ppb	03:58:22
2	SiO2†	71049.6	70428.1	5518.3 ug/L	5518.3 ppb	03:59:23
3	Sc Radial	3257.7	3257.7	97.2 %		03:57:38
3	Y RADIAL	2637.2	2637.2	96.14 %		03:57:38
3	Al 396.153Radial†	2270.9	2395.5	5123.4 ug/L	5123.4 ppb	03:57:18
3	Ca 317.933Radial†	1323.7	1351.2	5362.4 ug/L	5362.4 ppb	03:57:38
3	Fe 238.204 Radial†	196.7	193.7	5400.0 ug/L	5400.0 ppb	03:57:38
3	K 766.490 Radial†	13175.1	11435.8	5228.5 ug/L	5228.5 ppb	03:57:18
3	Mg 279.077 IEC†	55.2	56.3	5464.8 ug/L	5464.8 ppb	03:57:38
3	Na 589.592 Radial†	28374.8	29965.3	10007 ug/L	10007 ppb	03:57:18
3	Sr 421.552†	51588.5	53021.6	525.73 ug/L	525.73 ppb	03:57:18
3	Sc 361.383	841470.4	841470.4	100.81 %		03:58:47
3	Y 371.029	711148.3	711148.3	99.369 %		03:58:47
3	Ag 328.068†	105082.8	104083.8	529.14 ug/L	529.14 ppb	03:58:53
3	As 188.979†	902.9	911.7	511.29 ug/L	511.29 ppb	03:59:13
3	B 249.677†	18517.9	18460.1	515.08 ug/L	515.08 ppb	03:58:53
3	Ba 233.527†	56474.2	56030.0	524.61 ug/L	524.61 ppb	03:58:53
3	Be 313.107†	1220168.5	1214028.8	525.11 ug/L	525.11 ppb	03:58:47
3	Cd 226.502†	36215.2	36067.4	521.25 ug/L	521.25 ppb	03:58:53
3	Co 228.616†	20679.8	20558.1	533.22 ug/L	533.22 ppb	03:58:53
3	Cr 267.716†	40496.6	40107.2	523.89 ug/L	523.89 ppb	03:58:53
3	Cu 324.752†	171267.9	163828.6	527.22 ug/L	527.22 ppb	03:58:53
3	Mn 257.610†	402786.2	399177.3	523.40 ug/L	523.40 ppb	03:58:47
3	Mo 202.031†	6037.1	5975.1	516.21 ug/L	516.21 ppb	03:59:13
3	Ni 231.604†	17008.5	16819.5	529.81 ug/L	529.81 ppb	03:58:53
3	P 214.914†	3586.6	3382.5	2466.1 ug/L	2466.1 ppb	03:59:13
3	Pb 220.353†	3329.5	3346.8	519.67 ug/L	519.67 ppb	03:59:13
3	S 181.975 Axial†	616.3	580.5	1034.5 ug/L	1034.5 ppb	03:59:13
3	Sb 206.836†	1277.6	1238.9	531.88 ug/L	531.88 ppb	03:59:13
3	Se 196.026†	625.7	639.9	538.51 ug/L	538.51 ppb	03:59:13
3	Si 251.611†	71885.0	70858.0	2620.9 ug/L	2620.9 ppb	03:58:53
3	Sn 189.927†	2280.2	2254.1	512.86 ug/L	512.86 ppb	03:59:13
3	Ti 334.940†	305148.7	303670.1	515.97 ug/L	515.97 ppb	03:58:53
3	Tl 190.801†	1318.6	1339.2	522.91 ug/L	522.91 ppb	03:59:13
3	U 409.014†	16658.4	18528.4	539.29 ug/L	539.29 ppb	03:58:53
3	V 292.402†	66451.7	67167.3	531.23 ug/L	531.23 ppb	03:58:53
3	Zn 213.857†	44234.2	43378.2	521.43 ug/L	521.43 ppb	03:58:53
3	SiO2†	71177.5	70130.1	5495.0 ug/L	5495.0 ppb	03:59:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835454.5	100.09 %	0.786			0.78%
Sc Radial	3230.5	96.4 %	0.85			0.89%
Y 371.029	706112.1	98.665 %	0.7296			0.74%
Y RADIAL	2614.3	95.30 %	0.829			0.87%
Ag 328.068†	105030.4	533.94 ug/L	6.256	533.94 ppb	6.256	1.17%
QC value within limits for Ag 328.068 Recovery = 106.79%						
Al 396.153Radial†	2416.4	5168.0 ug/L	50.54	5168.0 ppb	50.54	0.98%
QC value within limits for Al 396.153Radial Recovery = 103.36%						
As 188.979†	930.0	521.54 ug/L	10.498	521.54 ppb	10.498	2.01%
QC value within limits for As 188.979 Recovery = 104.31%						
B 249.677†	18577.7	518.36 ug/L	5.099	518.36 ppb	5.099	0.98%
QC value within limits for B 249.677 Recovery = 103.67%						
Ba 233.527†	56558.9	529.56 ug/L	5.930	529.56 ppb	5.930	1.12%
QC value within limits for Ba 233.527 Recovery = 105.91%						
Be 313.107†	1220715.2	528.00 ug/L	3.284	528.00 ppb	3.284	0.62%
QC value within limits for Be 313.107 Recovery = 105.60%						
Ca 317.933Radial†	1360.0	5397.4 ug/L	30.80	5397.4 ppb	30.80	0.57%

QC value within limits for Ca 317.933 Radial Recovery = 107.95%

Cd 226.502†	36430.9	526.51 ug/L	6.091	526.51 ppb	6.091	1.16%
QC value within limits for Cd 226.502 Recovery = 105.30%						
Co 228.616†	20777.4	538.91 ug/L	6.189	538.91 ppb	6.189	1.15%
QC value within limits for Co 228.616 Recovery = 107.78%						
Cr 267.716†	40482.1	528.79 ug/L	6.387	528.79 ppb	6.387	1.21%
QC value within limits for Cr 267.716 Recovery = 105.76%						
Cu 324.752†	165231.6	531.73 ug/L	6.859	531.73 ppb	6.859	1.29%
QC value within limits for Cu 324.752 Recovery = 106.35%						
Fe 238.204 Radial†	194.9	5432.3 ug/L	37.25	5432.3 ppb	37.25	0.69%
QC value within limits for Fe 238.204 Radial Recovery = 108.65%						
K 766.490 Radial†	11618.8	5312.2 ug/L	103.17	5312.2 ppb	103.17	1.94%
QC value within limits for K 766.490 Radial Recovery = 106.24%						
Mg 279.077 IEC†	56.5	5480.8 ug/L	14.04	5480.8 ppb	14.04	0.26%
QC value within limits for Mg 279.077 IEC Recovery = 109.62%						
Mn 257.610†	401039.0	525.84 ug/L	3.122	525.84 ppb	3.122	0.59%
QC value within limits for Mn 257.610 Recovery = 105.17%						
Mo 202.031†	6018.0	519.92 ug/L	4.165	519.92 ppb	4.165	0.80%
QC value within limits for Mo 202.031 Recovery = 103.98%						
Na 589.592 Radial†	30036.5	10031 ug/L	66.9	10031 ppb	66.9	0.67%
QC value within limits for Na 589.592 Radial Recovery = 100.31%						
Ni 231.604†	17009.8	535.81 ug/L	7.213	535.81 ppb	7.213	1.35%
QC value within limits for Ni 231.604 Recovery = 107.16%						
P 214.914†	3411.7	2487.4 ug/L	21.17	2487.4 ppb	21.17	0.85%
QC value within limits for P 214.914 Recovery = 99.50%						
Pb 220.353†	3368.2	522.99 ug/L	4.512	522.99 ppb	4.512	0.86%
QC value within limits for Pb 220.353 Recovery = 104.60%						
S 181.975 Axial†	581.9	1037.0 ug/L	15.45	1037.0 ppb	15.45	1.49%
QC value within limits for S 181.975 Axial Recovery = 103.70%						
Sb 206.836†	1254.5	538.47 ug/L	6.966	538.47 ppb	6.966	1.29%
QC value within limits for Sb 206.836 Recovery = 107.69%						
Se 196.026†	644.0	541.94 ug/L	5.808	541.94 ppb	5.808	1.07%
QC value within limits for Se 196.026 Recovery = 108.39%						
Si 251.611†	71593.8	2648.2 ug/L	34.37	2648.2 ppb	34.37	1.30%
QC value within limits for Si 251.611 Recovery = 105.93%						
Sn 189.927†	2272.6	517.07 ug/L	5.674	517.07 ppb	5.674	1.10%
QC value within limits for Sn 189.927 Recovery = 103.41%						
Sr 421.552†	53164.5	527.14 ug/L	2.745	527.14 ppb	2.745	0.52%
QC value within limits for Sr 421.552 Recovery = 105.43%						
Ti 334.940†	306409.4	520.62 ug/L	6.163	520.62 ppb	6.163	1.18%
QC value within limits for Ti 334.940 Recovery = 104.12%						
Tl 190.801†	1347.3	526.10 ug/L	3.125	526.10 ppb	3.125	0.59%
QC value within limits for Tl 190.801 Recovery = 105.22%						
U 409.014†	18763.0	546.12 ug/L	9.821	546.12 ppb	9.821	1.80%
QC value within limits for U 409.014 Recovery = 109.22%						
V 292.402†	67781.0	536.07 ug/L	5.839	536.07 ppb	5.839	1.09%
QC value within limits for V 292.402 Recovery = 107.21%						
Zn 213.857†	43795.6	526.45 ug/L	6.616	526.45 ppb	6.616	1.26%
QC value within limits for Zn 213.857 Recovery = 105.29%						
SiO2†	70357.4	5512.7 ug/L	15.72	5512.7 ppb	15.72	0.29%
QC value within limits for SiO2 Recovery = 103.09%						

All analyte(s) passed QC.

Sequence No.: 88
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/10/2010 04:01:39
 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	3313.8	3313.8	98.9 %		04:03:51
1	Y RADIAL	2701.8	2701.8	98.49 %		04:03:51
1	Al 396.153Radial†	-56.2	3.2	6.7933 ug/L	6.7933 ppb	04:03:51
1	Ca 317.933Radial†	8.3	-1.9	-7.3990 ug/L	-7.3990 ppb	04:03:51
1	Fe 238.204 Radial†	6.9	-1.6	-45.331 ug/L	-45.331 ppb	04:03:51
1	K 766.490 Radial†	2150.8	60.1	27.519 ug/L	27.519 ppb	04:03:31
1	Mg 279.077 IEC†	2.0	1.6	152.98 ug/L	152.98 ppb	04:03:51
1	Na 589.592 Radial†	-793.9	-20.1	-6.7203 ug/L	-6.7203 ppb	04:03:31
1	Sr 421.552†	10.8	-24.7	-0.2450 ug/L	-0.2450 ppb	04:03:31
1	Sc 361.383	832816.0	832816.0	99.769 %		04:04:48
1	Y 371.029	712869.7	712869.7	99.609 %		04:04:48
1	Ag 328.068†	176.7	18.0	0.0812 ug/L	0.0812 ppb	04:04:48
1	As 188.979†	-17.9	-1.9	-1.0885 ug/L	-1.0885 ppb	04:05:08
1	B 249.677†	-245.5	-155.9	-4.3614 ug/L	-4.3614 ppb	04:05:08
1	Ba 233.527†	-2.4	4.7	0.0428 ug/L	0.0428 ppb	04:05:08
1	Be 313.107†	-3570.2	34.1	0.0153 ug/L	0.0153 ppb	04:04:48
1	Cd 226.502†	-150.7	-9.4	-0.1319 ug/L	-0.1319 ppb	04:05:08
1	Co 228.616†	-53.8	-10.3	-0.2680 ug/L	-0.2680 ppb	04:05:08
1	Cr 267.716†	52.0	-13.6	-0.1771 ug/L	-0.1771 ppb	04:05:08
1	Cu 324.752†	6153.5	97.3	0.3135 ug/L	0.3135 ppb	04:04:48
1	Mn 257.610†	411.3	22.6	0.0189 ug/L	0.0189 ppb	04:05:08
1	Mo 202.031†	12.1	-1.6	-0.1426 ug/L	-0.1426 ppb	04:05:08
1	Ni 231.604†	95.2	42.4	1.3372 ug/L	1.3372 ppb	04:05:08
1	P 214.914†	175.3	0.3	0.2235 ug/L	0.2235 ppb	04:05:08
1	Pb 220.353†	-35.1	8.7	1.3612 ug/L	1.3612 ppb	04:05:08
1	S 181.975 Axial†	29.0	-1.8	-3.2129 ug/L	-3.2129 ppb	04:05:08
1	Sb 206.836†	32.9	4.5	1.8369 ug/L	1.8369 ppb	04:05:08
1	Se 196.026†	-15.1	4.1	3.1925 ug/L	3.1925 ppb	04:05:08
1	Si 251.611†	523.6	72.4	2.6863 ug/L	2.6863 ppb	04:05:08
1	Sn 189.927†	2.0	-5.8	-1.3112 ug/L	-1.3112 ppb	04:05:08
1	Ti 334.940†	-803.2	155.2	0.2527 ug/L	0.2527 ppb	04:04:48
1	Tl 190.801†	-25.6	5.4	2.1069 ug/L	2.1069 ppb	04:05:08
1	U 409.014†	-2179.0	-180.8	-5.2756 ug/L	-5.2756 ppb	04:04:48
1	V 292.402†	-1249.0	-5.1	-0.0428 ug/L	-0.0428 ppb	04:04:48
1	Zn 213.857†	570.5	69.4	0.8397 ug/L	0.8397 ppb	04:05:08
1	SiO2†	518.4	41.2	3.2380 ug/L	3.2380 ppb	04:06:19
2	Sc Radial	3277.3	3277.3	97.8 %		04:04:16
2	Y RADIAL	2661.0	2661.0	97.00 %		04:04:16
2	Al 396.153Radial†	-57.4	1.3	2.8791 ug/L	2.8791 ppb	04:04:16
2	Ca 317.933Radial†	10.9	0.9	3.6064 ug/L	3.6064 ppb	04:04:16
2	Fe 238.204 Radial†	9.1	0.7	19.388 ug/L	19.388 ppb	04:04:16
2	K 766.490 Radial†	2057.0	-11.5	-5.2788 ug/L	-5.2788 ppb	04:03:56
2	Mg 279.077 IEC†	1.3	0.9	82.638 ug/L	82.638 ppb	04:04:16
2	Na 589.592 Radial†	-780.0	-14.8	-4.9445 ug/L	-4.9445 ppb	04:03:56
2	Sr 421.552†	14.2	-21.2	-0.2099 ug/L	-0.2099 ppb	04:03:56
2	Sc 361.383	843374.0	843374.0	101.03 %		04:05:13
2	Y 371.029	722034.4	722034.4	100.89 %		04:05:13
2	Ag 328.068†	88.3	-71.6	-0.3573 ug/L	-0.3573 ppb	04:05:13
2	As 188.979†	-20.6	-4.4	-2.4447 ug/L	-2.4447 ppb	04:05:33
2	B 249.677†	-243.3	-150.6	-4.2245 ug/L	-4.2245 ppb	04:05:33
2	Ba 233.527†	-1.0	6.2	0.0596 ug/L	0.0596 ppb	04:05:33
2	Be 313.107†	-3602.4	47.0	0.0207 ug/L	0.0207 ppb	04:05:13
2	Cd 226.502†	-138.9	4.1	0.0584 ug/L	0.0584 ppb	04:05:33
2	Co 228.616†	-40.6	3.4	0.0870 ug/L	0.0870 ppb	04:05:33
2	Cr 267.716†	54.9	-11.4	-0.1487 ug/L	-0.1487 ppb	04:05:33
2	Cu 324.752†	6203.9	69.9	0.2242 ug/L	0.2242 ppb	04:05:13
2	Mn 257.610†	435.3	41.2	0.0525 ug/L	0.0525 ppb	04:05:33
2	Mo 202.031†	8.8	-5.0	-0.4317 ug/L	-0.4317 ppb	04:05:33
2	Ni 231.604†	88.7	34.8	1.0972 ug/L	1.0972 ppb	04:05:33

2	P 214.914†	169.7	-7.4	-5.6845 ug/L	-5.6845 ppb	04:05:33
2	Pb 220.353†	-28.0	16.2	2.5035 ug/L	2.5035 ppb	04:05:33
2	S 181.975 Axial†	32.0	0.9	1.5223 ug/L	1.5223 ppb	04:05:33
2	Sb 206.836†	28.5	-0.3	-0.1141 ug/L	-0.1141 ppb	04:05:33
2	Se 196.026†	-13.3	6.1	5.0035 ug/L	5.0035 ppb	04:05:33
2	Si 251.611†	511.6	53.9	2.0053 ug/L	2.0053 ppb	04:05:33
2	Sn 189.927†	7.7	-0.2	-0.0428 ug/L	-0.0428 ppb	04:05:33
2	Ti 334.940†	-859.4	109.7	0.1787 ug/L	0.1787 ppb	04:05:13
2	Tl 190.801†	-23.4	7.9	3.0612 ug/L	3.0612 ppb	04:05:33
2	U 409.014†	-1905.5	117.1	3.4191 ug/L	3.4191 ppb	04:05:13
2	V 292.402†	-1212.1	47.0	0.3660 ug/L	0.3660 ppb	04:05:13
2	Zn 213.857†	581.7	73.3	0.8789 ug/L	0.8789 ppb	04:05:33
2	SiO2†	518.3	34.5	2.7202 ug/L	2.7202 ppb	04:06:39
3	Sc Radial	3284.2	3284.2	98.0 %		04:04:41
3	Y RADIAL	2664.4	2664.4	97.12 %		04:04:41
3	Al 396.153Radial†	-66.3	-7.6	-16.419 ug/L	-16.419 ppb	04:04:41
3	Ca 317.933Radial†	9.6	-0.4	-1.7296 ug/L	-1.7296 ppb	04:04:41
3	Fe 238.204 Radial†	9.6	1.1	31.473 ug/L	31.473 ppb	04:04:41
3	K 766.490 Radial†	2133.7	62.3	28.519 ug/L	28.519 ppb	04:04:21
3	Mg 279.077 IEC†	2.3	1.9	184.77 ug/L	184.77 ppb	04:04:41
3	Na 589.592 Radial†	-788.0	-21.3	-7.1110 ug/L	-7.1110 ppb	04:04:21
3	Sr 421.552†	42.4	7.6	0.0750 ug/L	0.0750 ppb	04:04:21
3	Sc 361.383	830195.5	830195.5	99.455 %		04:05:39
3	Y 371.029	710176.7	710176.7	99.233 %		04:05:39
3	Ag 328.068†	135.1	-23.2	-0.1078 ug/L	-0.1078 ppb	04:05:39
3	As 188.979†	-22.1	-6.3	-3.4911 ug/L	-3.4911 ppb	04:05:59
3	B 249.677†	-259.4	-170.6	-4.7879 ug/L	-4.7879 ppb	04:05:59
3	Ba 233.527†	-4.0	3.2	0.0312 ug/L	0.0312 ppb	04:05:59
3	Be 313.107†	-3539.7	53.5	0.0232 ug/L	0.0232 ppb	04:05:39
3	Cd 226.502†	-161.1	-20.4	-0.2968 ug/L	-0.2968 ppb	04:05:59
3	Co 228.616†	-38.4	5.0	0.1282 ug/L	0.1282 ppb	04:05:59
3	Cr 267.716†	54.9	-10.5	-0.1361 ug/L	-0.1361 ppb	04:05:59
3	Cu 324.752†	6138.7	101.9	0.3285 ug/L	0.3285 ppb	04:05:39
3	Mn 257.610†	411.5	24.1	0.0271 ug/L	0.0271 ppb	04:05:59
3	Mo 202.031†	13.7	-0.0	0.0016 ug/L	0.0016 ppb	04:05:59
3	Ni 231.604†	105.8	53.3	1.6802 ug/L	1.6802 ppb	04:05:59
3	P 214.914†	170.5	-4.0	-3.1173 ug/L	-3.1173 ppb	04:05:59
3	Pb 220.353†	-53.3	-9.6	-1.4984 ug/L	-1.4984 ppb	04:05:59
3	S 181.975 Axial†	31.7	1.0	1.8526 ug/L	1.8526 ppb	04:05:59
3	Sb 206.836†	28.8	0.5	0.2102 ug/L	0.2102 ppb	04:05:59
3	Se 196.026†	-12.6	6.5	5.3928 ug/L	5.3928 ppb	04:05:59
3	Si 251.611†	491.7	42.0	1.5560 ug/L	1.5560 ppb	04:05:59
3	Sn 189.927†	7.8	0.0	0.0091 ug/L	0.0091 ppb	04:05:59
3	Ti 334.940†	-915.7	39.5	0.0511 ug/L	0.0511 ppb	04:05:39
3	Tl 190.801†	-25.2	5.7	2.2092 ug/L	2.2092 ppb	04:05:59
3	U 409.014†	-1931.9	60.6	1.7671 ug/L	1.7671 ppb	04:05:39
3	V 292.402†	-1197.9	42.3	0.3328 ug/L	0.3328 ppb	04:05:39
3	Zn 213.857†	562.5	63.1	0.7504 ug/L	0.7504 ppb	04:05:59
3	SiO2†	502.1	26.4	2.0721 ug/L	2.0721 ppb	04:06:59

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835461.8	100.09 %	0.836			0.84%
Sc Radial	3291.8	98.2 %	0.58			0.59%
Y 371.029	715026.9	99.911 %	0.8686			0.87%
Y RADIAL	2675.7	97.54 %	0.826			0.85%
Ag 328.068†	-25.6	-0.1279 ug/L	0.21996	-0.1279 ppb	0.21996	171.92%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.1	-2.2488 ug/L	12.42667	-2.2488 ppb	12.42667	552.60%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-4.2	-2.3414 ug/L	1.20467	-2.3414 ppb	1.20467	51.45%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-159.0	-4.4579 ug/L	0.29384	-4.4579 ppb	0.29384	6.59%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.7	0.0445 ug/L	0.01426	0.0445 ppb	0.01426	32.02%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	44.8	0.0197 ug/L	0.00406	0.0197 ppb	0.00406	20.54%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.5	-1.8407 ug/L	5.50353	-1.8407 ppb	5.50353	298.99%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-8.6	-0.1234 ug/L	0.17773	-0.1234 ppb	0.17773 143.98%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-0.6	-0.0176 ug/L	0.21782	-0.0176 ppb	0.21782 >999.9%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-11.8	-0.1539 ug/L	0.02101	-0.1539 ppb	0.02101 13.65%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	89.7	0.2888 ug/L	0.05641	0.2888 ppb	0.05641 19.54%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	0.1	1.8433 ug/L	41.29837	1.8433 ppb	41.29837 >999.9%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	37.0	16.920 ug/L	19.2312	16.920 ppb	19.2312 113.66%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	1.4	140.13 ug/L	52.264	140.13 ppb	52.264 37.30%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	29.3	0.0328 ug/L	0.01752	0.0328 ppb	0.01752 53.37%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-2.2	-0.1909 ug/L	0.22066	-0.1909 ppb	0.22066 115.58%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-18.7	-6.2586 ug/L	1.15467	-6.2586 ppb	1.15467 18.45%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	43.5	1.3715 ug/L	0.29303	1.3715 ppb	0.29303 21.37%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-3.7	-2.8595 ug/L	2.96241	-2.8595 ppb	2.96241 103.60%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	5.1	0.7888 ug/L	2.06145	0.7888 ppb	2.06145 261.35%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	0.0	0.0540 ug/L	2.83404	0.0540 ppb	2.83404 >999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	1.6	0.6443 ug/L	1.04548	0.6443 ppb	1.04548 162.26%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	5.6	4.5296 ug/L	1.17419	4.5296 ppb	1.17419 25.92%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	56.1	2.0825 ug/L	0.56909	2.0825 ppb	0.56909 27.33%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-2.0	-0.4483 ug/L	0.74774	-0.4483 ppb	0.74774 166.79%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-12.8	-0.1267 ug/L	0.17554	-0.1267 ppb	0.17554 138.60%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	101.5	0.1608 ug/L	0.10200	0.1608 ppb	0.10200 63.41%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	6.3	2.4591 ug/L	0.52394	2.4591 ppb	0.52394 21.31%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-1.0	-0.0298 ug/L	4.61748	-0.0298 ppb	4.61748 >999.9%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	28.1	0.2187 ug/L	0.22707	0.2187 ppb	0.22707 103.85%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	68.6	0.8230 ug/L	0.06588	0.8230 ppb	0.06588 8.01%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	34.0	2.6768 ug/L	0.58413	2.6768 ppb	0.58413 21.82%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 97

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/10/2010 05:06:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3299.0	3299.0	98.5 %		05:08:39
1	Y RADIAL	2685.6	2685.6	97.90 %		05:08:39
1	Al 396.153Radial†	2280.6	2376.1	5082.0 ug/L	5082.0 ppb	05:08:19
1	Ca 317.933Radial†	1304.5	1314.6	5217.1 ug/L	5217.1 ppb	05:08:39
1	Fe 238.204 Radial†	195.9	190.4	5306.7 ug/L	5306.7 ppb	05:08:39
1	K 766.490 Radial†	13114.4	11204.2	5122.4 ug/L	5122.4 ppb	05:08:19
1	Mg 279.077 IEC†	56.3	56.7	5505.1 ug/L	5505.1 ppb	05:08:39
1	Na 589.592 Radial†	29405.7	30646.2	10234 ug/L	10234 ppb	05:08:19
1	Sr 421.552†	52457.5	53238.7	527.88 ug/L	527.88 ppb	05:08:19
1	Sc 361.383	843097.7	843097.7	101.00 %		05:09:37
1	Y 371.029	712277.8	712277.8	99.527 %		05:09:37
1	Ag 328.068†	103086.2	101905.9	518.07 ug/L	518.07 ppb	05:09:42
1	As 188.979†	896.3	903.4	506.60 ug/L	506.60 ppb	05:10:02
1	B 249.677†	17771.9	17686.1	493.43 ug/L	493.43 ppb	05:09:42
1	Ba 233.527†	55333.3	54792.3	513.02 ug/L	513.02 ppb	05:09:42
1	Be 313.107†	1211454.8	1203065.2	520.35 ug/L	520.35 ppb	05:09:37
1	Cd 226.502†	35639.3	35427.7	512.01 ug/L	512.01 ppb	05:09:42
1	Co 228.616†	20242.5	20085.5	520.97 ug/L	520.97 ppb	05:09:42
1	Cr 267.716†	39722.6	39263.3	512.87 ug/L	512.87 ppb	05:09:42
1	Cu 324.752†	166916.0	159191.9	512.29 ug/L	512.29 ppb	05:09:42
1	Mn 257.610†	399570.8	395222.5	518.20 ug/L	518.20 ppb	05:09:37
1	Mo 202.031†	5956.2	5883.5	508.29 ug/L	508.29 ppb	05:10:02
1	Ni 231.604†	16741.3	16522.5	520.46 ug/L	520.46 ppb	05:09:42
1	P 214.914†	3535.0	3324.6	2425.1 ug/L	2425.1 ppb	05:10:02
1	Pb 220.353†	3289.6	3300.9	512.55 ug/L	512.55 ppb	05:10:02
1	S 181.975 Axial†	597.7	560.9	999.44 ug/L	999.44 ppb	05:10:02
1	Sb 206.836†	1258.8	1217.8	522.85 ug/L	522.85 ppb	05:10:02
1	Se 196.026†	613.7	626.9	527.63 ug/L	527.63 ppb	05:10:02
1	Si 251.611†	70362.1	69212.6	2560.0 ug/L	2560.0 ppb	05:09:42
1	Sn 189.927†	2242.9	2212.9	503.46 ug/L	503.46 ppb	05:10:02
1	Ti 334.940†	298152.8	296159.3	503.19 ug/L	503.19 ppb	05:09:42
1	Tl 190.801†	1287.2	1305.5	509.81 ug/L	509.81 ppb	05:10:02
1	U 409.014†	16301.9	18143.5	528.09 ug/L	528.09 ppb	05:09:42
1	V 292.402†	65161.4	65762.6	520.16 ug/L	520.16 ppb	05:09:42
1	Zn 213.857†	43404.7	42472.2	510.53 ug/L	510.53 ppb	05:09:42
1	SiO2†	71921.4	70730.3	5542.3 ug/L	5542.3 ppb	05:11:10
2	Sc Radial	3265.2	3265.2	97.5 %		05:09:05
2	Y RADIAL	2650.4	2650.4	96.62 %		05:09:05
2	Al 396.153Radial†	2285.4	2405.1	5144.0 ug/L	5144.0 ppb	05:08:44
2	Ca 317.933Radial†	1315.8	1339.9	5317.6 ug/L	5317.6 ppb	05:09:05
2	Fe 238.204 Radial†	195.6	192.1	5355.0 ug/L	5355.0 ppb	05:09:05
2	K 766.490 Radial†	13030.3	11256.1	5146.1 ug/L	5146.1 ppb	05:08:44
2	Mg 279.077 IEC†	57.5	58.5	5677.6 ug/L	5677.6 ppb	05:09:05
2	Na 589.592 Radial†	29288.8	30836.2	10298 ug/L	10298 ppb	05:08:44
2	Sr 421.552†	52258.3	53587.1	531.33 ug/L	531.33 ppb	05:08:44
2	Sc 361.383	839094.4	839094.4	100.52 %		05:10:08
2	Y 371.029	710375.6	710375.6	99.261 %		05:10:08
2	Ag 328.068†	103727.6	103030.9	523.79 ug/L	523.79 ppb	05:10:13
2	As 188.979†	914.6	925.8	519.12 ug/L	519.12 ppb	05:10:33
2	B 249.677†	18158.3	18154.3	506.53 ug/L	506.53 ppb	05:10:13
2	Ba 233.527†	55753.7	55471.9	519.38 ug/L	519.38 ppb	05:10:13
2	Be 313.107†	1203395.4	1200770.0	519.37 ug/L	519.37 ppb	05:10:08
2	Cd 226.502†	35899.0	35854.5	518.18 ug/L	518.18 ppb	05:10:13
2	Co 228.616†	20408.8	20346.6	527.74 ug/L	527.74 ppb	05:10:13
2	Cr 267.716†	40062.3	39788.9	519.73 ug/L	519.73 ppb	05:10:13
2	Cu 324.752†	168645.7	161701.1	520.37 ug/L	520.37 ppb	05:10:13
2	Mn 257.610†	396133.3	393690.3	516.19 ug/L	516.19 ppb	05:10:08
2	Mo 202.031†	5979.8	5935.0	512.75 ug/L	512.75 ppb	05:10:33
2	Ni 231.604†	16820.0	16679.8	525.41 ug/L	525.41 ppb	05:10:13

2	P 214.914†	3574.7	3380.8	2466.2 ug/L	2466.2 ppb	05:10:33
2	Pb 220.353†	3302.7	3329.5	516.99 ug/L	516.99 ppb	05:10:33
2	S 181.975 Axial†	599.9	566.0	1008.5 ug/L	1008.5 ppb	05:10:33
2	Sb 206.836†	1275.7	1240.7	532.48 ug/L	532.48 ppb	05:10:33
2	Se 196.026†	616.9	632.9	532.68 ug/L	532.68 ppb	05:10:33
2	Si 251.611†	70983.3	70163.0	2595.2 ug/L	2595.2 ppb	05:10:13
2	Sn 189.927†	2257.2	2237.7	509.12 ug/L	509.12 ppb	05:10:33
2	Ti 334.940†	300846.4	300247.2	510.13 ug/L	510.13 ppb	05:10:13
2	Tl 190.801†	1304.7	1329.0	518.91 ug/L	518.91 ppb	05:10:33
2	U 409.014†	16426.4	18344.4	533.93 ug/L	533.93 ppb	05:10:13
2	V 292.402†	65603.6	66510.3	526.06 ug/L	526.06 ppb	05:10:13
2	Zn 213.857†	43712.2	42983.1	516.68 ug/L	516.68 ppb	05:10:13
2	SiO2†	70694.3	69849.3	5473.0 ug/L	5473.0 ppb	05:11:15
3	Sc Radial	3290.6	3290.6	98.2 %		05:09:30
3	Y RADIAL	2668.0	2668.0	97.26 %		05:09:30
3	Al 396.153Radial†	2308.1	2410.0	5154.6 ug/L	5154.6 ppb	05:09:10
3	Ca 317.933Radial†	1307.9	1321.4	5244.2 ug/L	5244.2 ppb	05:09:30
3	Fe 238.204 Radial†	198.4	193.3	5389.6 ug/L	5389.6 ppb	05:09:30
3	K 766.490 Radial†	13206.5	11332.3	5181.0 ug/L	5181.0 ppb	05:09:10
3	Mg 279.077 IEC†	55.9	56.5	5481.9 ug/L	5481.9 ppb	05:09:30
3	Na 589.592 Radial†	29538.4	30858.2	10305 ug/L	10305 ppb	05:09:10
3	Sr 421.552†	52756.3	53679.9	532.25 ug/L	532.25 ppb	05:09:10
3	Sc 361.383	848954.3	848954.3	101.70 %		05:10:39
3	Y 371.029	717288.8	717288.8	100.23 %		05:10:39
3	Ag 328.068†	104638.0	102727.5	522.26 ug/L	522.26 ppb	05:10:44
3	As 188.979†	928.5	929.0	520.85 ug/L	520.85 ppb	05:11:04
3	B 249.677†	18316.8	18100.4	505.02 ug/L	505.02 ppb	05:10:44
3	Ba 233.527†	56273.8	55339.1	518.14 ug/L	518.14 ppb	05:10:44
3	Be 313.107†	1207426.6	1190829.9	515.08 ug/L	515.08 ppb	05:10:39
3	Cd 226.502†	36251.7	35786.5	517.19 ug/L	517.19 ppb	05:10:44
3	Co 228.616†	20641.0	20339.1	527.55 ug/L	527.55 ppb	05:10:44
3	Cr 267.716†	40425.4	39683.1	518.35 ug/L	518.35 ppb	05:10:44
3	Cu 324.752†	170239.1	161319.3	519.14 ug/L	519.14 ppb	05:10:44
3	Mn 257.610†	398332.7	391275.9	513.04 ug/L	513.04 ppb	05:10:39
3	Mo 202.031†	6074.6	5959.2	514.84 ug/L	514.84 ppb	05:11:04
3	Ni 231.604†	17060.9	16722.3	526.75 ug/L	526.75 ppb	05:10:44
3	P 214.914†	3617.5	3381.5	2467.0 ug/L	2467.0 ppb	05:11:04
3	Pb 220.353†	3363.1	3350.7	520.28 ug/L	520.28 ppb	05:11:04
3	S 181.975 Axial†	617.7	576.5	1027.3 ug/L	1027.3 ppb	05:11:04
3	Sb 206.836†	1288.1	1238.1	531.47 ug/L	531.47 ppb	05:11:04
3	Se 196.026†	632.5	641.1	539.49 ug/L	539.49 ppb	05:11:04
3	Si 251.611†	71803.4	70149.2	2594.7 ug/L	2594.7 ppb	05:10:44
3	Sn 189.927†	2290.8	2244.6	510.68 ug/L	510.68 ppb	05:11:04
3	Ti 334.940†	303685.8	299563.1	508.97 ug/L	508.97 ppb	05:10:44
3	Tl 190.801†	1333.1	1341.9	523.90 ug/L	523.90 ppb	05:11:04
3	U 409.014†	16651.8	18376.3	534.86 ug/L	534.86 ppb	05:10:44
3	V 292.402†	66139.8	66279.5	524.28 ug/L	524.28 ppb	05:10:44
3	Zn 213.857†	44197.9	42955.7	516.34 ug/L	516.34 ppb	05:10:44
3	SiO2†	70676.9	69015.4	5407.4 ug/L	5407.4 ppb	05:11:20

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843715.5	101.07 %	0.594			0.59%
Sc Radial	3284.9	98.0 %	0.53			0.54%
Y 371.029	713314.1	99.672 %	0.4990			0.50%
Y RADIAL	2668.0	97.26 %	0.640			0.66%
Ag 328.068†	102554.8	521.37 ug/L	2.959	521.37 ppb	2.959	0.57%
QC value within limits for Ag 328.068 Recovery = 104.27%						
Al 396.153Radial†	2397.1	5126.9 ug/L	39.20	5126.9 ppb	39.20	0.76%
QC value within limits for Al 396.153Radial Recovery = 102.54%						
As 188.979†	919.4	515.52 ug/L	7.778	515.52 ppb	7.778	1.51%
QC value within limits for As 188.979 Recovery = 103.10%						
B 249.677†	17980.3	501.66 ug/L	7.166	501.66 ppb	7.166	1.43%
QC value within limits for B 249.677 Recovery = 100.33%						
Ba 233.527†	55201.1	516.85 ug/L	3.372	516.85 ppb	3.372	0.65%
QC value within limits for Ba 233.527 Recovery = 103.37%						
Be 313.107†	1198221.7	518.26 ug/L	2.802	518.26 ppb	2.802	0.54%
QC value within limits for Be 313.107 Recovery = 103.65%						
Ca 317.933Radial†	1325.3	5259.6 ug/L	52.00	5259.6 ppb	52.00	0.99%

QC value within limits for Ca 317.933 Radial Recovery = 105.19%

Cd 226.502†	35689.6	515.79 ug/L	3.313	515.79 ppb	3.313	0.64%
QC value within limits for Cd 226.502 Recovery = 103.16%						
Co 228.616†	20257.0	525.42 ug/L	3.854	525.42 ppb	3.854	0.73%
QC value within limits for Co 228.616 Recovery = 105.08%						
Cr 267.716†	39578.4	516.99 ug/L	3.630	516.99 ppb	3.630	0.70%
QC value within limits for Cr 267.716 Recovery = 103.40%						
Cu 324.752†	160737.4	517.27 ug/L	4.351	517.27 ppb	4.351	0.84%
QC value within limits for Cu 324.752 Recovery = 103.45%						
Fe 238.204 Radial†	191.9	5350.4 ug/L	41.63	5350.4 ppb	41.63	0.78%
QC value within limits for Fe 238.204 Radial Recovery = 107.01%						
K 766.490 Radial†	11264.2	5149.8 ug/L	29.47	5149.8 ppb	29.47	0.57%
QC value within limits for K 766.490 Radial Recovery = 103.00%						
Mg 279.077 IEC†	57.2	5554.9 ug/L	106.92	5554.9 ppb	106.92	1.92%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 111.10%						
Mn 257.610†	393396.2	515.81 ug/L	2.602	515.81 ppb	2.602	0.50%
QC value within limits for Mn 257.610 Recovery = 103.16%						
Mo 202.031†	5925.9	511.96 ug/L	3.342	511.96 ppb	3.342	0.65%
QC value within limits for Mo 202.031 Recovery = 102.39%						
Na 589.592 Radial†	30780.2	10279 ug/L	38.9	10279 ppb	38.9	0.38%
QC value within limits for Na 589.592 Radial Recovery = 102.79%						
Ni 231.604†	16641.5	524.21 ug/L	3.317	524.21 ppb	3.317	0.63%
QC value within limits for Ni 231.604 Recovery = 104.84%						
P 214.914†	3362.3	2452.7 ug/L	23.97	2452.7 ppb	23.97	0.98%
QC value within limits for P 214.914 Recovery = 98.11%						
Pb 220.353†	3327.1	516.61 ug/L	3.878	516.61 ppb	3.878	0.75%
QC value within limits for Pb 220.353 Recovery = 103.32%						
S 181.975 Axial†	567.8	1011.7 ug/L	14.21	1011.7 ppb	14.21	1.40%
QC value within limits for S 181.975 Axial Recovery = 101.17%						
Sb 206.836†	1232.2	528.93 ug/L	5.293	528.93 ppb	5.293	1.00%
QC value within limits for Sb 206.836 Recovery = 105.79%						
Se 196.026†	633.6	533.27 ug/L	5.952	533.27 ppb	5.952	1.12%
QC value within limits for Se 196.026 Recovery = 106.65%						
Si 251.611†	69841.6	2583.3 ug/L	20.16	2583.3 ppb	20.16	0.78%
QC value within limits for Si 251.611 Recovery = 103.33%						
Sn 189.927†	2231.7	507.75 ug/L	3.800	507.75 ppb	3.800	0.75%
QC value within limits for Sn 189.927 Recovery = 101.55%						
Sr 421.552†	53501.9	530.49 ug/L	2.307	530.49 ppb	2.307	0.43%
QC value within limits for Sr 421.552 Recovery = 106.10%						
Ti 334.940†	298656.5	507.43 ug/L	3.720	507.43 ppb	3.720	0.73%
QC value within limits for Ti 334.940 Recovery = 101.49%						
Tl 190.801†	1325.5	517.54 ug/L	7.148	517.54 ppb	7.148	1.38%
QC value within limits for Tl 190.801 Recovery = 103.51%						
U 409.014†	18288.1	532.29 ug/L	3.673	532.29 ppb	3.673	0.69%
QC value within limits for U 409.014 Recovery = 106.46%						
V 292.402†	66184.1	523.50 ug/L	3.025	523.50 ppb	3.025	0.58%
QC value within limits for V 292.402 Recovery = 104.70%						
Zn 213.857†	42803.7	514.52 ug/L	3.455	514.52 ppb	3.455	0.67%
QC value within limits for Zn 213.857 Recovery = 102.90%						
SiO2†	69865.0	5474.2 ug/L	67.45	5474.2 ppb	67.45	1.23%
QC value within limits for SiO2 Recovery = 102.37%						

QC Failed. Continue with analysis.

Sequence No.: 98

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/10/2010 05:13:29

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	3282.9	3282.9	98.0 %		05:15:42
1	Y RADIAL	2678.0	2678.0	97.62 %		05:15:42
1	Al 396.153Radial†	-64.7	-6.0	-12.965 ug/L	-12.965 ppb	05:15:42
1	Ca 317.933Radial†	9.2	-0.8	-3.3007 ug/L	-3.3007 ppb	05:15:42
1	Fe 238.204 Radial†	9.5	1.0	28.874 ug/L	28.874 ppb	05:15:42
1	K 766.490 Radial†	2190.7	121.3	55.528 ug/L	55.528 ppb	05:15:22
1	Mg 279.077 IEC†	1.7	1.3	125.17 ug/L	125.17 ppb	05:15:42
1	Na 589.592 Radial†	-773.2	-6.5	-2.1604 ug/L	-2.1604 ppb	05:15:22
1	Sr 421.552†	-0.3	-36.0	-0.3568 ug/L	-0.3568 ppb	05:15:22
1	Sc 361.383	837869.5	837869.5	100.37 %		05:16:39
1	Y 371.029	716618.1	716618.1	100.13 %		05:16:39
1	Ag 328.068†	183.5	23.7	0.1330 ug/L	0.1330 ppb	05:16:39
1	As 188.979†	-21.0	-5.0	-2.7483 ug/L	-2.7483 ppb	05:16:59
1	B 249.677†	-299.6	-208.3	-5.8446 ug/L	-5.8446 ppb	05:16:59
1	Ba 233.527†	-1.2	6.0	0.0579 ug/L	0.0579 ppb	05:16:59
1	Be 313.107†	-3586.5	39.4	0.0175 ug/L	0.0175 ppb	05:16:39
1	Cd 226.502†	-146.5	-4.4	-0.0659 ug/L	-0.0659 ppb	05:16:59
1	Co 228.616†	-37.0	6.7	0.1736 ug/L	0.1736 ppb	05:16:59
1	Cr 267.716†	70.4	4.4	0.0607 ug/L	0.0607 ppb	05:16:59
1	Cu 324.752†	6106.9	13.7	0.0470 ug/L	0.0470 ppb	05:16:39
1	Mn 257.610†	427.0	35.7	0.0445 ug/L	0.0445 ppb	05:16:59
1	Mo 202.031†	13.0	-0.8	-0.0675 ug/L	-0.0675 ppb	05:16:59
1	Ni 231.604†	96.9	43.5	1.3713 ug/L	1.3713 ppb	05:16:59
1	P 214.914†	169.5	-6.5	-4.9984 ug/L	-4.9984 ppb	05:16:59
1	Pb 220.353†	-48.1	-4.0	-0.6311 ug/L	-0.6311 ppb	05:16:59
1	S 181.975 Axial†	27.2	-3.8	-6.7199 ug/L	-6.7199 ppb	05:16:59
1	Sb 206.836†	31.3	2.8	1.1505 ug/L	1.1505 ppb	05:16:59
1	Se 196.026†	-24.0	-4.7	-3.7476 ug/L	-3.7476 ppb	05:16:59
1	Si 251.611†	512.6	58.3	2.1617 ug/L	2.1617 ppb	05:16:59
1	Sn 189.927†	10.5	2.7	0.6078 ug/L	0.6078 ppb	05:16:59
1	Ti 334.940†	-830.4	132.9	0.2164 ug/L	0.2164 ppb	05:16:39
1	Tl 190.801†	-26.2	4.9	1.9175 ug/L	1.9175 ppb	05:16:59
1	U 409.014†	-2101.2	-90.2	-2.6380 ug/L	-2.6380 ppb	05:16:39
1	V 292.402†	-1187.4	63.8	0.4896 ug/L	0.4896 ppb	05:16:39
1	Zn 213.857†	580.6	76.0	0.9091 ug/L	0.9091 ppb	05:16:59
1	SiO2†	517.3	36.9	2.8996 ug/L	2.8996 ppb	05:18:10
2	Sc Radial	3315.0	3315.0	98.9 %		05:16:07
2	Y RADIAL	2693.6	2693.6	98.19 %		05:16:07
2	Al 396.153Radial†	-65.2	-5.8	-12.568 ug/L	-12.568 ppb	05:16:07
2	Ca 317.933Radial†	9.9	-0.2	-0.6853 ug/L	-0.6853 ppb	05:16:07
2	Fe 238.204 Radial†	7.8	-0.7	-20.376 ug/L	-20.376 ppb	05:16:07
2	K 766.490 Radial†	2196.8	105.8	48.453 ug/L	48.453 ppb	05:15:47
2	Mg 279.077 IEC†	2.8	2.4	234.02 ug/L	234.02 ppb	05:16:07
2	Na 589.592 Radial†	-772.8	1.5	0.5132 ug/L	0.5132 ppb	05:15:47
2	Sr 421.552†	-1.4	-37.1	-0.3678 ug/L	-0.3678 ppb	05:15:47
2	Sc 361.383	825806.9	825806.9	98.929 %		05:17:04
2	Y 371.029	707124.8	707124.8	98.807 %		05:17:04
2	Ag 328.068†	127.8	-29.9	-0.1589 ug/L	-0.1589 ppb	05:17:04
2	As 188.979†	-15.0	0.8	0.4577 ug/L	0.4577 ppb	05:17:24
2	B 249.677†	-302.1	-215.2	-6.0278 ug/L	-6.0278 ppb	05:17:24
2	Ba 233.527†	-9.3	-2.2	-0.0207 ug/L	-0.0207 ppb	05:17:24
2	Be 313.107†	-3576.8	-3.0	-0.0010 ug/L	-0.0010 ppb	05:17:04
2	Cd 226.502†	-154.6	-14.7	-0.2084 ug/L	-0.2084 ppb	05:17:24
2	Co 228.616†	-47.4	-4.3	-0.1110 ug/L	-0.1110 ppb	05:17:24
2	Cr 267.716†	63.9	-1.2	-0.0172 ug/L	-0.0172 ppb	05:17:24
2	Cu 324.752†	6121.7	117.5	0.3754 ug/L	0.3754 ppb	05:17:04
2	Mn 257.610†	438.1	53.1	0.0581 ug/L	0.0581 ppb	05:17:24
2	Mo 202.031†	17.8	4.2	0.3622 ug/L	0.3622 ppb	05:17:24
2	Ni 231.604†	90.0	37.9	1.1950 ug/L	1.1950 ppb	05:17:24

2	P 214.914†	169.4	-4.2	-3.2461 ug/L	-3.2461 ppb	05:17:24
2	Pb 220.353†	-32.8	10.8	1.6676 ug/L	1.6676 ppb	05:17:24
2	S 181.975 Axial†	28.5	-2.1	-3.7118 ug/L	-3.7118 ppb	05:17:24
2	Sb 206.836†	25.3	-2.9	-1.1865 ug/L	-1.1865 ppb	05:17:24
2	Se 196.026†	-24.6	-5.6	-4.6453 ug/L	-4.6453 ppb	05:17:24
2	Si 251.611†	511.9	65.0	2.4071 ug/L	2.4071 ppb	05:17:24
2	Sn 189.927†	4.8	-3.0	-0.6824 ug/L	-0.6824 ppb	05:17:24
2	Ti 334.940†	-869.7	81.1	0.1175 ug/L	0.1175 ppb	05:17:04
2	Tl 190.801†	-26.2	4.6	1.7939 ug/L	1.7939 ppb	05:17:24
2	U 409.014†	-1884.7	98.1	2.8662 ug/L	2.8662 ppb	05:17:04
2	V 292.402†	-1206.2	27.5	0.2330 ug/L	0.2330 ppb	05:17:04
2	Zn 213.857†	571.1	74.8	0.9023 ug/L	0.9023 ppb	05:17:24
2	SiO2†	517.4	44.5	3.4861 ug/L	3.4861 ppb	05:18:30
3	Sc Radial	3280.6	3280.6	97.9 %		05:16:32
3	Y RADIAL	2678.3	2678.3	97.63 %		05:16:32
3	Al 396.153Radial†	-65.8	-7.2	-15.409 ug/L	-15.409 ppb	05:16:32
3	Ca 317.933Radial†	9.8	-0.2	-0.9348 ug/L	-0.9348 ppb	05:16:32
3	Fe 238.204 Radial†	7.6	-0.9	-24.181 ug/L	-24.181 ppb	05:16:32
3	K 766.490 Radial†	2143.5	74.6	34.170 ug/L	34.170 ppb	05:16:12
3	Mg 279.077 IEC†	1.4	1.0	99.507 ug/L	99.507 ppb	05:16:32
3	Na 589.592 Radial†	-797.0	-31.4	-10.474 ug/L	-10.474 ppb	05:16:12
3	Sr 421.552†	29.3	-5.8	-0.0572 ug/L	-0.0572 ppb	05:16:12
3	Sc 361.383	823175.2	823175.2	98.614 %		05:17:29
3	Y 371.029	705129.6	705129.6	98.528 %		05:17:29
3	Ag 328.068†	139.9	-17.2	-0.0910 ug/L	-0.0910 ppb	05:17:29
3	As 188.979†	-19.2	-3.5	-1.9697 ug/L	-1.9697 ppb	05:17:49
3	B 249.677†	-317.1	-231.4	-6.4822 ug/L	-6.4822 ppb	05:17:49
3	Ba 233.527†	-2.6	4.5	0.0428 ug/L	0.0428 ppb	05:17:49
3	Be 313.107†	-3557.8	4.8	0.0022 ug/L	0.0022 ppb	05:17:29
3	Cd 226.502†	-144.1	-4.5	-0.0622 ug/L	-0.0622 ppb	05:17:49
3	Co 228.616†	-49.0	-6.1	-0.1572 ug/L	-0.1572 ppb	05:17:49
3	Cr 267.716†	51.0	-14.0	-0.1824 ug/L	-0.1824 ppb	05:17:49
3	Cu 324.752†	6109.9	125.4	0.4030 ug/L	0.4030 ppb	05:17:29
3	Mn 257.610†	415.0	31.2	0.0344 ug/L	0.0344 ppb	05:17:49
3	Mo 202.031†	16.1	2.5	0.2180 ug/L	0.2180 ppb	05:17:49
3	Ni 231.604†	98.5	46.9	1.4772 ug/L	1.4772 ppb	05:17:49
3	P 214.914†	175.6	2.7	1.9658 ug/L	1.9658 ppb	05:17:49
3	Pb 220.353†	-42.6	0.8	0.1181 ug/L	0.1181 ppb	05:17:49
3	S 181.975 Axial†	31.0	0.6	1.0776 ug/L	1.0776 ppb	05:17:49
3	Sb 206.836†	26.1	-2.0	-0.8394 ug/L	-0.8394 ppb	05:17:49
3	Se 196.026†	-23.6	-4.7	-3.8919 ug/L	-3.8919 ppb	05:17:49
3	Si 251.611†	501.4	56.0	2.0743 ug/L	2.0743 ppb	05:17:49
3	Sn 189.927†	8.3	0.6	0.1332 ug/L	0.1332 ppb	05:17:49
3	Ti 334.940†	-909.1	38.4	0.0577 ug/L	0.0577 ppb	05:17:29
3	Tl 190.801†	-15.0	15.8	6.1400 ug/L	6.1400 ppb	05:17:49
3	U 409.014†	-2022.5	-47.8	-1.3922 ug/L	-1.3922 ppb	05:17:29
3	V 292.402†	-1153.8	76.8	0.6051 ug/L	0.6051 ppb	05:17:29
3	Zn 213.857†	582.7	88.4	1.0665 ug/L	1.0665 ppb	05:17:49
3	SiO2†	519.0	47.8	3.7507 ug/L	3.7507 ppb	05:18:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	828950.5	99.306 %	0.9386			0.95%
Sc Radial	3292.8	98.3 %	0.57			0.58%
Y 371.029	709624.1	99.156 %	0.8577			0.87%
Y RADIAL	2683.3	97.81 %	0.325			0.33%
Ag 328.068†	-7.8	-0.0390 ug/L	0.15277	-0.0390 ppb	0.15277	391.72%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.3	-13.647 ug/L	1.5383	-13.647 ppb	1.5383	11.27%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.6	-1.4201 ug/L	1.67220	-1.4201 ppb	1.67220	117.75%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-218.3	-6.1182 ug/L	0.32824	-6.1182 ppb	0.32824	5.37%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.8	0.0267 ug/L	0.04172	0.0267 ppb	0.04172	156.43%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	13.7	0.0063 ug/L	0.00990	0.0063 ppb	0.00990	158.15%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.4	-1.6403 ug/L	1.44341	-1.6403 ppb	1.44341	88.00%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-7.9	-0.1122 ug/L	0.08339	-0.1122 ppb	0.08339	74.33%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-1.2	-0.0315 ug/L	0.17917	-0.0315 ppb	0.17917	568.26%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-3.6	-0.0463 ug/L	0.12412	-0.0463 ppb	0.12412	268.16%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	85.5	0.2751 ug/L	0.19804	0.2751 ppb	0.19804	71.99%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.2	-5.2275 ug/L	29.59433	-5.2275 ppb	29.59433	566.12%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	100.6	46.050 ug/L	10.8794	46.050 ppb	10.8794	23.63%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.6	152.90 ug/L	71.413	152.90 ppb	71.413	46.71%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	40.0	0.0457 ug/L	0.01187	0.0457 ppb	0.01187	26.01%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.0	0.1709 ug/L	0.21867	0.1709 ppb	0.21867	127.96%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-12.1	-4.0405 ug/L	5.72987	-4.0405 ppb	5.72987	141.81%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	42.8	1.3478 ug/L	0.14256	1.3478 ppb	0.14256	10.58%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-2.7	-2.0929 ug/L	3.62249	-2.0929 ppb	3.62249	173.08%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	2.5	0.3848 ug/L	1.17235	0.3848 ppb	1.17235	304.64%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-1.7	-3.1180 ug/L	3.93251	-3.1180 ppb	3.93251	126.12%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-0.7	-0.2918 ug/L	1.26111	-0.2918 ppb	1.26111	432.17%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-5.0	-4.0949 ug/L	0.48204	-4.0949 ppb	0.48204	11.77%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	59.8	2.2144 ug/L	0.17254	2.2144 ppb	0.17254	7.79%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	0.1	0.0195 ug/L	0.65260	0.0195 ppb	0.65260	>999.9%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-26.3	-0.2606 ug/L	0.17621	-0.2606 ppb	0.17621	67.62%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	84.2	0.1305 ug/L	0.08014	0.1305 ppb	0.08014	61.40%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	8.5	3.2838 ug/L	2.47434	3.2838 ppb	2.47434	75.35%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-13.3	-0.3880 ug/L	2.88624	-0.3880 ppb	2.88624	743.82%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	56.0	0.4425 ug/L	0.19046	0.4425 ppb	0.19046	43.04%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	79.7	0.9593 ug/L	0.09291	0.9593 ppb	0.09291	9.69%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	43.1	3.3788 ug/L	0.43555	3.3788 ppb	0.43555	12.89%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 109

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/10/2010 06:31:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3295.0	3295.0	98.3 %		06:33:22
1	Y RADIAL	2657.2	2657.2	96.86 %		06:33:22
1	Al 396.153Radial†	2109.7	2205.2	4716.0 ug/L	4716.0 ppb	06:33:02
1	Ca 317.933Radial†	1255.1	1265.9	5023.9 ug/L	5023.9 ppb	06:33:22
1	Fe 238.204 Radial†	182.2	176.6	4923.8 ug/L	4923.8 ppb	06:33:22
1	K 766.490 Radial†	12674.8	10773.3	4925.7 ug/L	4925.7 ppb	06:33:02
1	Mg 279.077 IEC†	53.2	53.7	5210.1 ug/L	5210.1 ppb	06:33:22
1	Na 589.592 Radial†	26217.4	27440.6	9164.0 ug/L	9164.0 ppb	06:33:02
1	Sr 421.552†	47718.2	48484.3	480.74 ug/L	480.74 ppb	06:33:02
1	Sc 361.383	851876.4	851876.4	102.05 %		06:34:19
1	Y 371.029	719908.1	719908.1	100.59 %		06:34:19
1	Ag 328.068†	99626.2	97463.6	495.44 ug/L	495.44 ppb	06:34:25
1	As 188.979†	856.6	855.3	479.65 ug/L	479.65 ppb	06:34:45
1	B 249.677†	17457.0	17196.1	479.82 ug/L	479.82 ppb	06:34:25
1	Ba 233.527†	53577.8	52507.5	491.62 ug/L	491.62 ppb	06:34:25
1	Be 313.107†	1169425.0	1149520.1	497.19 ug/L	497.19 ppb	06:34:19
1	Cd 226.502†	34539.7	33986.6	491.20 ug/L	491.20 ppb	06:34:25
1	Co 228.616†	19627.4	19276.2	499.97 ug/L	499.97 ppb	06:34:25
1	Cr 267.716†	38427.8	37589.2	491.00 ug/L	491.00 ppb	06:34:25
1	Cu 324.752†	161890.4	152564.3	490.96 ug/L	490.96 ppb	06:34:25
1	Mn 257.610†	376058.2	368105.9	482.64 ug/L	482.64 ppb	06:34:25
1	Mo 202.031†	5706.7	5578.2	481.91 ug/L	481.91 ppb	06:34:45
1	Ni 231.604†	16157.5	15779.6	497.05 ug/L	497.05 ppb	06:34:25
1	P 214.914†	3400.5	3156.8	2301.9 ug/L	2301.9 ppb	06:34:45
1	Pb 220.353†	3147.7	3128.3	485.74 ug/L	485.74 ppb	06:34:45
1	S 181.975 Axial†	567.3	525.1	935.61 ug/L	935.61 ppb	06:34:45
1	Sb 206.836†	1225.6	1172.5	503.23 ug/L	503.23 ppb	06:34:45
1	Se 196.026†	579.8	587.4	494.26 ug/L	494.26 ppb	06:34:45
1	Si 251.611†	68216.5	66392.2	2455.8 ug/L	2455.8 ppb	06:34:25
1	Sn 189.927†	2184.0	2132.3	485.13 ug/L	485.13 ppb	06:34:45
1	Ti 334.940†	288230.7	283394.5	481.51 ug/L	481.51 ppb	06:34:25
1	Tl 190.801†	1248.1	1254.1	489.63 ug/L	489.63 ppb	06:34:45
1	U 409.014†	15565.1	17255.2	502.24 ug/L	502.24 ppb	06:34:25
1	V 292.402†	62684.5	62670.7	495.68 ug/L	495.68 ppb	06:34:25
1	Zn 213.857†	42014.0	40666.6	488.86 ug/L	488.86 ppb	06:34:25
1	SiO2†	68313.3	66461.1	5207.7 ug/L	5207.7 ppb	06:35:52
2	Sc Radial	3287.7	3287.7	98.1 %		06:33:47
2	Y RADIAL	2660.9	2660.9	97.00 %		06:33:47
2	Al 396.153Radial†	2100.3	2200.3	4705.1 ug/L	4705.1 ppb	06:33:27
2	Ca 317.933Radial†	1260.3	1274.1	5056.4 ug/L	5056.4 ppb	06:33:47
2	Fe 238.204 Radial†	186.4	181.3	5053.6 ug/L	5053.6 ppb	06:33:47
2	K 766.490 Radial†	12562.2	10687.2	4886.2 ug/L	4886.2 ppb	06:33:27
2	Mg 279.077 IEC†	52.2	52.8	5122.3 ug/L	5122.3 ppb	06:33:47
2	Na 589.592 Radial†	26462.6	27749.7	9267.2 ug/L	9267.2 ppb	06:33:27
2	Sr 421.552†	47991.1	48870.3	484.56 ug/L	484.56 ppb	06:33:27
2	Sc 361.383	846423.3	846423.3	101.40 %		06:34:50
2	Y 371.029	715649.8	715649.8	99.998 %		06:34:50
2	Ag 328.068†	99535.7	98003.3	498.22 ug/L	498.22 ppb	06:34:55
2	As 188.979†	880.2	884.0	495.63 ug/L	495.63 ppb	06:35:15
2	B 249.677†	17409.2	17259.2	481.57 ug/L	481.57 ppb	06:34:55
2	Ba 233.527†	53497.4	52766.5	494.05 ug/L	494.05 ppb	06:34:55
2	Be 313.107†	1153973.5	1141664.4	493.80 ug/L	493.80 ppb	06:34:50
2	Cd 226.502†	34482.1	34147.9	493.52 ug/L	493.52 ppb	06:34:55
2	Co 228.616†	19553.5	19327.3	501.31 ug/L	501.31 ppb	06:34:55
2	Cr 267.716†	38445.5	37849.3	494.40 ug/L	494.40 ppb	06:34:55
2	Cu 324.752†	161676.7	153375.5	493.58 ug/L	493.58 ppb	06:34:55
2	Mn 257.610†	375775.5	370201.1	485.41 ug/L	485.41 ppb	06:34:55
2	Mo 202.031†	5756.3	5663.1	489.25 ug/L	489.25 ppb	06:35:15
2	Ni 231.604†	16150.7	15874.9	500.06 ug/L	500.06 ppb	06:34:55

2	P 214.914†	3421.3	3198.7	2333.2 ug/L	2333.2 ppb	06:35:15
2	Pb 220.353†	3166.8	3167.0	491.73 ug/L	491.73 ppb	06:35:15
2	S 181.975 Axial†	577.3	538.5	959.61 ug/L	959.61 ppb	06:35:15
2	Sb 206.836†	1238.5	1192.9	511.95 ug/L	511.95 ppb	06:35:15
2	Se 196.026†	595.4	606.4	510.12 ug/L	510.12 ppb	06:35:15
2	Si 251.611†	68123.4	66731.1	2468.3 ug/L	2468.3 ppb	06:34:55
2	Sn 189.927†	2197.5	2159.4	491.29 ug/L	491.29 ppb	06:35:15
2	Ti 334.940†	288227.4	285210.9	484.61 ug/L	484.61 ppb	06:34:55
2	Tl 190.801†	1255.2	1268.9	495.42 ug/L	495.42 ppb	06:35:15
2	U 409.014†	15561.9	17350.4	504.99 ug/L	504.99 ppb	06:34:55
2	V 292.402†	62754.4	63135.3	499.39 ug/L	499.39 ppb	06:34:55
2	Zn 213.857†	41951.5	40870.3	491.29 ug/L	491.29 ppb	06:34:55
2	SiO2†	67168.8	65763.6	5152.7 ug/L	5152.7 ppb	06:35:57
3	Sc Radial	3302.9	3302.9	98.6 %		06:34:12
3	Y RADIAL	2666.0	2666.0	97.18 %		06:34:12
3	Al 396.153Radial†	2120.7	2211.2	4728.6 ug/L	4728.6 ppb	06:33:52
3	Ca 317.933Radial†	1263.0	1270.9	5043.8 ug/L	5043.8 ppb	06:34:12
3	Fe 238.204 Radial†	185.0	179.1	4991.9 ug/L	4991.9 ppb	06:34:12
3	K 766.490 Radial†	12572.0	10638.4	4863.9 ug/L	4863.9 ppb	06:33:52
3	Mg 279.077 IEC†	51.2	51.5	5000.0 ug/L	5000.0 ppb	06:34:12
3	Na 589.592 Radial†	26458.9	27621.9	9224.5 ug/L	9224.5 ppb	06:33:52
3	Sr 421.552†	47912.6	48565.8	481.54 ug/L	481.54 ppb	06:33:52
3	Sc 361.383	845494.0	845494.0	101.29 %		06:35:21
3	Y 371.029	715460.8	715460.8	99.972 %		06:35:21
3	Ag 328.068†	99304.4	97882.8	497.59 ug/L	497.59 ppb	06:35:26
3	As 188.979†	875.4	880.2	493.51 ug/L	493.51 ppb	06:35:46
3	B 249.677†	17358.0	17227.5	480.68 ug/L	480.68 ppb	06:35:26
3	Ba 233.527†	53215.4	52546.0	491.99 ug/L	491.99 ppb	06:35:26
3	Be 313.107†	1163507.5	1152328.0	498.40 ug/L	498.40 ppb	06:35:21
3	Cd 226.502†	34416.4	34120.4	493.13 ug/L	493.13 ppb	06:35:26
3	Co 228.616†	19582.5	19377.1	502.60 ug/L	502.60 ppb	06:35:26
3	Cr 267.716†	38261.5	37709.4	492.57 ug/L	492.57 ppb	06:35:26
3	Cu 324.752†	161311.5	153190.3	492.98 ug/L	492.98 ppb	06:35:26
3	Mn 257.610†	374151.2	369004.8	483.84 ug/L	483.84 ppb	06:35:26
3	Mo 202.031†	5729.8	5643.2	487.53 ug/L	487.53 ppb	06:35:46
3	Ni 231.604†	16153.7	15895.3	500.70 ug/L	500.70 ppb	06:35:26
3	P 214.914†	3433.4	3214.3	2345.2 ug/L	2345.2 ppb	06:35:46
3	Pb 220.353†	3157.0	3160.8	490.77 ug/L	490.77 ppb	06:35:46
3	S 181.975 Axial†	576.5	538.4	959.33 ug/L	959.33 ppb	06:35:46
3	Sb 206.836†	1241.5	1197.2	513.71 ug/L	513.71 ppb	06:35:46
3	Se 196.026†	590.7	602.4	506.69 ug/L	506.69 ppb	06:35:46
3	Si 251.611†	67873.7	66558.4	2461.9 ug/L	2461.9 ppb	06:35:26
3	Sn 189.927†	2196.5	2160.7	491.60 ug/L	491.60 ppb	06:35:46
3	Ti 334.940†	286895.4	284208.3	482.91 ug/L	482.91 ppb	06:35:26
3	Tl 190.801†	1263.1	1278.1	498.95 ug/L	498.95 ppb	06:35:46
3	U 409.014†	15604.3	17409.1	506.72 ug/L	506.72 ppb	06:35:26
3	V 292.402†	62631.6	63082.1	498.97 ug/L	498.97 ppb	06:35:26
3	Zn 213.857†	41905.8	40870.6	491.30 ug/L	491.30 ppb	06:35:26
3	SiO2†	68122.1	66777.6	5232.4 ug/L	5232.4 ppb	06:36:02

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847931.2	101.58 %	0.413			0.41%
Sc Radial	3295.2	98.4 %	0.23			0.23%
Y 371.029	717006.2	100.19 %	0.351			0.35%
Y RADIAL	2661.4	97.02 %	0.161			0.17%
Ag 328.068†	97783.3	497.08 ug/L	1.457	497.08 ppb	1.457	0.29%
QC value within limits for Ag 328.068 Recovery = 99.42%						
Al 396.153Radial†	2205.6	4716.6 ug/L	11.73	4716.6 ppb	11.73	0.25%
QC value within limits for Al 396.153Radial Recovery = 94.33%						
As 188.979†	873.2	489.60 ug/L	8.681	489.60 ppb	8.681	1.77%
QC value within limits for As 188.979 Recovery = 97.92%						
B 249.677†	17227.6	480.69 ug/L	0.872	480.69 ppb	0.872	0.18%
QC value within limits for B 249.677 Recovery = 96.14%						
Ba 233.527†	52606.7	492.55 ug/L	1.310	492.55 ppb	1.310	0.27%
QC value within limits for Ba 233.527 Recovery = 98.51%						
Be 313.107†	1147837.5	496.47 ug/L	2.383	496.47 ppb	2.383	0.48%
QC value within limits for Be 313.107 Recovery = 99.29%						
Ca 317.933Radial†	1270.3	5041.4 ug/L	16.35	5041.4 ppb	16.35	0.32%

QC value within limits for Ca 317.933Radial Recovery = 100.83%

Cd 226.502†	34085.0	492.61 ug/L	1.242	492.61 ppb	1.242	0.25%
QC value within limits for Cd 226.502 Recovery = 98.52%						
Co 228.616†	19326.9	501.29 ug/L	1.312	501.29 ppb	1.312	0.26%
QC value within limits for Co 228.616 Recovery = 100.26%						
Cr 267.716†	37716.0	492.65 ug/L	1.702	492.65 ppb	1.702	0.35%
QC value within limits for Cr 267.716 Recovery = 98.53%						
Cu 324.752†	153043.4	492.50 ug/L	1.370	492.50 ppb	1.370	0.28%
QC value within limits for Cu 324.752 Recovery = 98.50%						
Fe 238.204 Radial†	179.0	4989.8 ug/L	64.89	4989.8 ppb	64.89	1.30%
QC value within limits for Fe 238.204 Radial Recovery = 99.80%						
K 766.490 Radial†	10699.7	4891.9 ug/L	31.30	4891.9 ppb	31.30	0.64%
QC value within limits for K 766.490 Radial Recovery = 97.84%						
Mg 279.077 IEC†	52.7	5110.8 ug/L	105.56	5110.8 ppb	105.56	2.07%
QC value within limits for Mg 279.077 IEC Recovery = 102.22%						
Mn 257.610†	369103.9	483.96 ug/L	1.385	483.96 ppb	1.385	0.29%
QC value within limits for Mn 257.610 Recovery = 96.79%						
Mo 202.031†	5628.2	486.23 ug/L	3.838	486.23 ppb	3.838	0.79%
QC value within limits for Mo 202.031 Recovery = 97.25%						
Na 589.592 Radial†	27604.1	9218.5 ug/L	51.87	9218.5 ppb	51.87	0.56%
QC value within limits for Na 589.592 Radial Recovery = 92.19%						
Ni 231.604†	15849.9	499.27 ug/L	1.946	499.27 ppb	1.946	0.39%
QC value within limits for Ni 231.604 Recovery = 99.85%						
P 214.914†	3189.9	2326.7 ug/L	22.37	2326.7 ppb	22.37	0.96%
QC value within limits for P 214.914 Recovery = 93.07%						
Pb 220.353†	3152.0	489.41 ug/L	3.220	489.41 ppb	3.220	0.66%
QC value within limits for Pb 220.353 Recovery = 97.88%						
S 181.975 Axial†	534.0	951.52 ug/L	13.776	951.52 ppb	13.776	1.45%
QC value within limits for S 181.975 Axial Recovery = 95.15%						
Sb 206.836†	1187.5	509.63 ug/L	5.614	509.63 ppb	5.614	1.10%
QC value within limits for Sb 206.836 Recovery = 101.93%						
Se 196.026†	598.7	503.69 ug/L	8.345	503.69 ppb	8.345	1.66%
QC value within limits for Se 196.026 Recovery = 100.74%						
Si 251.611†	66560.6	2462.0 ug/L	6.24	2462.0 ppb	6.24	0.25%
QC value within limits for Si 251.611 Recovery = 98.48%						
Sn 189.927†	2150.8	489.34 ug/L	3.648	489.34 ppb	3.648	0.75%
QC value within limits for Sn 189.927 Recovery = 97.87%						
Sr 421.552†	48640.1	482.28 ug/L	2.017	482.28 ppb	2.017	0.42%
QC value within limits for Sr 421.552 Recovery = 96.46%						
Ti 334.940†	284271.3	483.01 ug/L	1.550	483.01 ppb	1.550	0.32%
QC value within limits for Ti 334.940 Recovery = 96.60%						
Tl 190.801†	1267.0	494.67 ug/L	4.704	494.67 ppb	4.704	0.95%
QC value within limits for Tl 190.801 Recovery = 98.93%						
U 409.014†	17338.2	504.65 ug/L	2.261	504.65 ppb	2.261	0.45%
QC value within limits for U 409.014 Recovery = 100.93%						
V 292.402†	62962.7	498.02 ug/L	2.030	498.02 ppb	2.030	0.41%
QC value within limits for V 292.402 Recovery = 99.60%						
Zn 213.857†	40802.5	490.48 ug/L	1.405	490.48 ppb	1.405	0.29%
QC value within limits for Zn 213.857 Recovery = 98.10%						
SiO2†	66334.1	5197.6 ug/L	40.80	5197.6 ppb	40.80	0.78%
QC value within limits for SiO2 Recovery = 97.20%						

All analyte(s) passed QC.

Sequence No.: 110

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/10/2010 06:38:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3233.3	3233.3	96.5 %		06:40:26
1	Y RADIAL	2651.4	2651.4	96.65 %		06:40:26
1	Al 396.153Radial†	-61.0	-3.2	-6.7996 ug/L	-6.7996 ppb	06:40:26
1	Ca 317.933Radial†	9.5	-0.4	-1.6391 ug/L	-1.6391 ppb	06:40:26
1	Fe 238.204 Radial†	7.4	-0.9	-25.642 ug/L	-25.642 ppb	06:40:26
1	K 766.490 Radial†	2131.8	94.7	43.343 ug/L	43.343 ppb	06:40:06
1	Mg 279.077 IEC†	2.5	2.1	204.58 ug/L	204.58 ppb	06:40:26
1	Na 589.592 Radial†	-802.7	-49.2	-16.427 ug/L	-16.427 ppb	06:40:06
1	Sr 421.552†	49.2	15.4	0.1523 ug/L	0.1523 ppb	06:40:06
1	Sc 361.383	818942.2	818942.2	98.107 %		06:41:22
1	Y 371.029	700189.0	700189.0	97.838 %		06:41:22
1	Ag 328.068†	151.4	-4.8	-0.0318 ug/L	-0.0318 ppb	06:41:22
1	As 188.979†	-22.8	-7.3	-4.0635 ug/L	-4.0635 ppb	06:41:43
1	B 249.677†	-233.0	-147.3	-4.1246 ug/L	-4.1246 ppb	06:41:43
1	Ba 233.527†	5.4	12.6	0.1172 ug/L	0.1172 ppb	06:41:43
1	Be 313.107†	-3574.4	-30.9	-0.0134 ug/L	-0.0134 ppb	06:41:22
1	Cd 226.502†	-152.6	-13.9	-0.1987 ug/L	-0.1987 ppb	06:41:43
1	Co 228.616†	-34.0	8.9	0.2312 ug/L	0.2312 ppb	06:41:43
1	Cr 267.716†	63.4	-1.1	-0.0150 ug/L	-0.0150 ppb	06:41:43
1	Cu 324.752†	6078.9	125.7	0.4037 ug/L	0.4037 ppb	06:41:22
1	Mn 257.610†	402.3	20.4	0.0158 ug/L	0.0158 ppb	06:41:43
1	Mo 202.031†	10.8	-2.8	-0.2433 ug/L	-0.2433 ppb	06:41:43
1	Ni 231.604†	71.9	20.2	0.6367 ug/L	0.6367 ppb	06:41:43
1	P 214.914†	166.7	-5.5	-4.1943 ug/L	-4.1943 ppb	06:41:43
1	Pb 220.353†	-30.0	13.3	2.0667 ug/L	2.0667 ppb	06:41:43
1	S 181.975 Axial†	33.1	2.9	5.1240 ug/L	5.1240 ppb	06:41:43
1	Sb 206.836†	34.2	6.4	2.6595 ug/L	2.6595 ppb	06:41:43
1	Se 196.026†	-16.7	2.2	1.6904 ug/L	1.6904 ppb	06:41:43
1	Si 251.611†	499.5	56.8	2.1076 ug/L	2.1076 ppb	06:41:43
1	Sn 189.927†	12.8	5.2	1.1941 ug/L	1.1941 ppb	06:41:43
1	Ti 334.940†	-951.9	-10.0	-0.0336 ug/L	-0.0336 ppb	06:41:22
1	Tl 190.801†	-20.2	10.5	4.0591 ug/L	4.0591 ppb	06:41:43
1	U 409.014†	-1987.1	-22.3	-0.6477 ug/L	-0.6477 ppb	06:41:22
1	V 292.402†	-1229.7	-6.7	-0.0489 ug/L	-0.0489 ppb	06:41:22
1	Zn 213.857†	559.3	67.7	0.8204 ug/L	0.8204 ppb	06:41:43
1	SiO2†	505.0	36.2	2.8537 ug/L	2.8537 ppb	06:42:54
2	Sc Radial	3276.0	3276.0	97.8 %		06:40:51
2	Y RADIAL	2664.1	2664.1	97.11 %		06:40:51
2	Al 396.153Radial†	-72.2	-13.8	-29.613 ug/L	-29.613 ppb	06:40:51
2	Ca 317.933Radial†	14.1	4.2	16.707 ug/L	16.707 ppb	06:40:51
2	Fe 238.204 Radial†	7.0	-1.4	-40.009 ug/L	-40.009 ppb	06:40:51
2	K 766.490 Radial†	2057.5	-10.1	-4.6408 ug/L	-4.6408 ppb	06:40:31
2	Mg 279.077 IEC†	3.0	2.6	251.28 ug/L	251.28 ppb	06:40:51
2	Na 589.592 Radial†	-743.8	21.9	7.3220 ug/L	7.3220 ppb	06:40:31
2	Sr 421.552†	3.7	-31.9	-0.3166 ug/L	-0.3166 ppb	06:40:31
2	Sc 361.383	802150.2	802150.2	96.095 %		06:41:48
2	Y 371.029	686434.1	686434.1	95.916 %		06:41:48
2	Ag 328.068†	239.7	90.4	0.4501 ug/L	0.4501 ppb	06:41:48
2	As 188.979†	-20.0	-4.9	-2.7340 ug/L	-2.7340 ppb	06:42:08
2	B 249.677†	-264.2	-184.7	-5.1713 ug/L	-5.1713 ppb	06:42:08
2	Ba 233.527†	-5.9	1.1	0.0096 ug/L	0.0096 ppb	06:42:08
2	Be 313.107†	-3474.1	-2.7	-0.0011 ug/L	-0.0011 ppb	06:41:48
2	Cd 226.502†	-158.5	-23.4	-0.3352 ug/L	-0.3352 ppb	06:42:08
2	Co 228.616†	-41.9	-0.0	-0.0003 ug/L	-0.0003 ppb	06:42:08
2	Cr 267.716†	73.1	10.3	0.1352 ug/L	0.1352 ppb	06:42:08
2	Cu 324.752†	6010.3	184.1	0.5934 ug/L	0.5934 ppb	06:41:48
2	Mn 257.610†	397.7	24.2	0.0175 ug/L	0.0175 ppb	06:42:08
2	Mo 202.031†	13.6	0.3	0.0266 ug/L	0.0266 ppb	06:42:08
2	Ni 231.604†	67.2	16.9	0.5338 ug/L	0.5338 ppb	06:42:08

2	P 214.914†	176.1	7.8	5.8515 ug/L	5.8515 ppb	06:42:08
2	Pb 220.353†	-54.6	-12.9	-1.9997 ug/L	-1.9997 ppb	06:42:08
2	S 181.975 Axial†	24.9	-5.0	-8.8276 ug/L	-8.8276 ppb	06:42:08
2	Sb 206.836†	24.8	-2.7	-1.0940 ug/L	-1.0940 ppb	06:42:08
2	Se 196.026†	-17.0	1.6	1.1636 ug/L	1.1636 ppb	06:42:08
2	Si 251.611†	497.0	64.8	2.4008 ug/L	2.4008 ppb	06:42:08
2	Sn 189.927†	8.0	0.5	0.1259 ug/L	0.1259 ppb	06:42:08
2	Ti 334.940†	-909.7	13.6	0.0073 ug/L	0.0073 ppb	06:41:48
2	Tl 190.801†	-21.8	8.3	3.2385 ug/L	3.2385 ppb	06:42:08
2	U 409.014†	-2109.9	-192.4	-5.6157 ug/L	-5.6157 ppb	06:41:48
2	V 292.402†	-1158.7	41.0	0.3202 ug/L	0.3202 ppb	06:41:48
2	Zn 213.857†	559.4	79.6	0.9679 ug/L	0.9679 ppb	06:42:08
2	SiO2†	520.1	62.7	4.9281 ug/L	4.9281 ppb	06:43:14
3	Sc Radial	3249.5	3249.5	97.0 %		06:41:16
3	Y RADIAL	2637.2	2637.2	96.14 %		06:41:16
3	Al 396.153Radial†	-60.4	-2.2	-4.7302 ug/L	-4.7302 ppb	06:41:16
3	Ca 317.933Radial†	12.4	2.5	10.006 ug/L	10.006 ppb	06:41:16
3	Fe 238.204 Radial†	8.2	-0.2	-5.0040 ug/L	-5.0040 ppb	06:41:16
3	K 766.490 Radial†	2140.4	92.5	42.342 ug/L	42.342 ppb	06:40:56
3	Mg 279.077 IEC†	1.7	1.3	124.14 ug/L	124.14 ppb	06:41:16
3	Na 589.592 Radial†	-777.1	-18.7	-6.2358 ug/L	-6.2358 ppb	06:40:56
3	Sr 421.552†	26.2	-8.7	-0.0859 ug/L	-0.0859 ppb	06:40:56
3	Sc 361.383	826425.6	826425.6	99.003 %		06:42:13
3	Y 371.029	707537.3	707537.3	98.864 %		06:42:13
3	Ag 328.068†	126.9	-30.9	-0.1570 ug/L	-0.1570 ppb	06:42:13
3	As 188.979†	-15.2	0.6	0.3487 ug/L	0.3487 ppb	06:42:33
3	B 249.677†	-247.5	-159.8	-4.4793 ug/L	-4.4793 ppb	06:42:33
3	Ba 233.527†	6.0	13.2	0.1246 ug/L	0.1246 ppb	06:42:33
3	Be 313.107†	-3621.9	-45.8	-0.0196 ug/L	-0.0196 ppb	06:42:13
3	Cd 226.502†	-157.2	-17.2	-0.2472 ug/L	-0.2472 ppb	06:42:33
3	Co 228.616†	-39.5	3.6	0.0938 ug/L	0.0938 ppb	06:42:33
3	Cr 267.716†	59.5	-5.7	-0.0742 ug/L	-0.0742 ppb	06:42:33
3	Cu 324.752†	6145.9	137.3	0.4408 ug/L	0.4408 ppb	06:42:13
3	Mn 257.610†	410.6	25.0	0.0272 ug/L	0.0272 ppb	06:42:33
3	Mo 202.031†	9.7	-4.0	-0.3436 ug/L	-0.3436 ppb	06:42:33
3	Ni 231.604†	84.9	32.8	1.0325 ug/L	1.0325 ppb	06:42:33
3	P 214.914†	172.4	-1.2	-1.0427 ug/L	-1.0427 ppb	06:42:33
3	Pb 220.353†	-41.6	1.9	0.2905 ug/L	0.2905 ppb	06:42:33
3	S 181.975 Axial†	29.4	-1.2	-2.1322 ug/L	-2.1322 ppb	06:42:33
3	Sb 206.836†	27.7	-0.5	-0.2379 ug/L	-0.2379 ppb	06:42:33
3	Se 196.026†	-14.8	4.3	3.4728 ug/L	3.4728 ppb	06:42:33
3	Si 251.611†	500.5	53.1	1.9733 ug/L	1.9733 ppb	06:42:33
3	Sn 189.927†	1.0	-6.8	-1.5466 ug/L	-1.5466 ppb	06:42:33
3	Ti 334.940†	-899.1	52.1	0.0791 ug/L	0.0791 ppb	06:42:13
3	Tl 190.801†	-24.3	6.6	2.5464 ug/L	2.5464 ppb	06:42:33
3	U 409.014†	-1926.9	56.8	1.6601 ug/L	1.6601 ppb	06:42:13
3	V 292.402†	-1164.2	70.8	0.5543 ug/L	0.5543 ppb	06:42:13
3	Zn 213.857†	559.0	62.2	0.7479 ug/L	0.7479 ppb	06:42:33
3	SiO2†	511.6	38.3	3.0153 ug/L	3.0153 ppb	06:43:34

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	815839.3	97.735 %	1.4893			1.52%
Sc Radial	3252.9	97.1 %	0.64			0.66%
Y 371.029	698053.5	97.539 %	1.4969			1.53%
Y RADIAL	2650.9	96.63 %	0.490			0.51%
Ag 328.068†	18.2	0.0871 ug/L	0.32050	0.0871 ppb	0.32050	367.89%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.4	-13.714 ug/L	13.8074	-13.714 ppb	13.8074	100.68%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.9	-2.1496 ug/L	2.26343	-2.1496 ppb	2.26343	105.30%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-163.9	-4.5917 ug/L	0.53231	-4.5917 ppb	0.53231	11.59%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	9.0	0.0838 ug/L	0.06434	0.0838 ppb	0.06434	76.79%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-26.5	-0.0113 ug/L	0.00939	-0.0113 ppb	0.00939	82.72%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.1	8.3578 ug/L	9.28329	8.3578 ppb	9.28329	111.07%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	-18.2	-0.2604 ug/L	0.06918	-0.2604 ppb	0.06918	26.57%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	4.2	0.1083 ug/L	0.11644	0.1083 ppb	0.11644	107.55%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	1.2	0.0153 ug/L	0.10796	0.0153 ppb	0.10796	704.94%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	149.1	0.4793 ug/L	0.10056	0.4793 ppb	0.10056	20.98%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.8	-23.552 ug/L	17.5960	-23.552 ppb	17.5960	74.71%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	59.0	27.015 ug/L	27.4190	27.015 ppb	27.4190	101.50%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	2.0	193.33 ug/L	64.312	193.33 ppb	64.312	33.27%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	23.2	0.0202 ug/L	0.00615	0.0202 ppb	0.00615	30.47%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-2.1	-0.1868 ug/L	0.19148	-0.1868 ppb	0.19148	102.53%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-15.3	-5.1137 ug/L	11.91440	-5.1137 ppb	11.91440	232.99%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	23.3	0.7344 ug/L	0.26326	0.7344 ppb	0.26326	35.85%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	0.4	0.2048 ug/L	5.13776	0.2048 ppb	5.13776	>999.9%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	0.8	0.1191 ug/L	2.03859	0.1191 ppb	2.03859	>999.9%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-1.1	-1.9453 ug/L	6.97766	-1.9453 ppb	6.97766	358.70%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	1.1	0.4426 ug/L	1.96708	0.4426 ppb	1.96708	444.49%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	2.7	2.1090 ug/L	1.21014	2.1090 ppb	1.21014	57.38%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	58.2	2.1606 ug/L	0.21863	2.1606 ppb	0.21863	10.12%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-0.3	-0.0755 ug/L	1.38139	-0.0755 ppb	1.38139	>999.9%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-8.4	-0.0834 ug/L	0.23447	-0.0834 ppb	0.23447	281.04%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	18.6	0.0176 ug/L	0.05706	0.0176 ppb	0.05706	324.24%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	8.5	3.2813 ug/L	0.75725	3.2813 ppb	0.75725	23.08%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-52.6	-1.5345 ug/L	3.71807	-1.5345 ppb	3.71807	242.31%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	35.1	0.2752 ug/L	0.30411	0.2752 ppb	0.30411	110.51%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	69.8	0.8454 ug/L	0.11212	0.8454 ppb	0.11212	13.26%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		45.8	3.5990 ug/L	1.15381	3.5990 ppb	1.15381	32.06%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 121

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/10/2010 07:55:54

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3265.4	3265.4	97.5 %		07:58:06
1	Y RADIAL	2642.7	2642.7	96.33 %		07:58:06
1	Al 396.153Radial†	2198.4	2315.7	4952.2 ug/L	4952.2 ppb	07:57:46
1	Ca 317.933Radial†	1269.7	1292.5	5129.5 ug/L	5129.5 ppb	07:58:06
1	Fe 238.204 Radial†	189.3	185.6	5173.0 ug/L	5173.0 ppb	07:58:06
1	K 766.490 Radial†	12709.1	10925.6	4995.1 ug/L	4995.1 ppb	07:57:46
1	Mg 279.077 IEC†	54.2	55.1	5351.1 ug/L	5351.1 ppb	07:58:06
1	Na 589.592 Radial†	27915.7	29425.2	9826.7 ug/L	9826.7 ppb	07:57:46
1	Sr 421.552†	50266.4	51539.6	511.03 ug/L	511.03 ppb	07:57:46
1	Sc 361.383	822770.4	822770.4	98.565 %		07:59:03
1	Y 371.029	695752.0	695752.0	97.218 %		07:59:03
1	Ag 328.068†	98708.2	99985.7	508.30 ug/L	508.30 ppb	07:59:09
1	As 188.979†	879.6	908.4	509.25 ug/L	509.25 ppb	07:59:29
1	B 249.677†	17194.4	17534.8	489.24 ug/L	489.24 ppb	07:59:09
1	Ba 233.527†	52983.3	53761.6	503.37 ug/L	503.37 ppb	07:59:09
1	Be 313.107†	1155265.1	1175691.2	508.51 ug/L	508.51 ppb	07:59:03
1	Cd 226.502†	34265.3	34905.6	504.47 ug/L	504.47 ppb	07:59:09
1	Co 228.616†	19403.6	19729.5	511.76 ug/L	511.76 ppb	07:59:09
1	Cr 267.716†	38151.4	38640.9	504.74 ug/L	504.74 ppb	07:59:09
1	Cu 324.752†	159300.9	155548.9	500.57 ug/L	500.57 ppb	07:59:09
1	Mn 257.610†	378699.8	383821.6	503.26 ug/L	503.26 ppb	07:59:03
1	Mo 202.031†	5820.4	5891.3	508.96 ug/L	508.96 ppb	07:59:29
1	Ni 231.604†	16076.4	16257.3	512.11 ug/L	512.11 ppb	07:59:09
1	P 214.914†	3460.7	3335.7	2436.0 ug/L	2436.0 ppb	07:59:29
1	Pb 220.353†	3203.9	3294.5	511.55 ug/L	511.55 ppb	07:59:29
1	S 181.975 Axial†	587.1	564.8	1006.5 ug/L	1006.5 ppb	07:59:29
1	Sb 206.836†	1262.7	1252.6	537.38 ug/L	537.38 ppb	07:59:29
1	Se 196.026†	612.3	640.4	538.23 ug/L	538.23 ppb	07:59:29
1	Si 251.611†	67045.6	67569.0	2499.1 ug/L	2499.1 ppb	07:59:09
1	Sn 189.927†	2224.5	2249.0	511.67 ug/L	511.67 ppb	07:59:29
1	Ti 334.940†	285302.6	290415.1	493.44 ug/L	493.44 ppb	07:59:09
1	Tl 190.801†	1273.6	1323.2	516.58 ug/L	516.58 ppb	07:59:29
1	U 409.014†	15373.2	17600.1	512.25 ug/L	512.25 ppb	07:59:09
1	V 292.402†	62245.0	64397.7	509.52 ug/L	509.52 ppb	07:59:09
1	Zn 213.857†	41647.4	41751.1	501.87 ug/L	501.87 ppb	07:59:09
1	SiO2†	67219.3	67719.1	5305.8 ug/L	5305.8 ppb	08:00:36
2	Sc Radial	3265.2	3265.2	97.5 %		07:58:31
2	Y RADIAL	2646.3	2646.3	96.47 %		07:58:31
2	Al 396.153Radial†	2185.3	2302.4	4923.7 ug/L	4923.7 ppb	07:58:11
2	Ca 317.933Radial†	1254.7	1277.2	5068.7 ug/L	5068.7 ppb	07:58:31
2	Fe 238.204 Radial†	186.7	182.9	5099.0 ug/L	5099.0 ppb	07:58:31
2	K 766.490 Radial†	12619.0	10834.1	4953.3 ug/L	4953.3 ppb	07:58:11
2	Mg 279.077 IEC†	51.7	52.6	5106.4 ug/L	5106.4 ppb	07:58:31
2	Na 589.592 Radial†	27398.2	28896.1	9650.0 ug/L	9650.0 ppb	07:58:11
2	Sr 421.552†	49253.2	50503.5	500.76 ug/L	500.76 ppb	07:58:11
2	Sc 361.383	830112.0	830112.0	99.445 %		07:59:35
2	Y 371.029	703319.6	703319.6	98.275 %		07:59:35
2	Ag 328.068†	101044.0	101448.9	515.70 ug/L	515.70 ppb	07:59:40
2	As 188.979†	881.0	901.9	505.70 ug/L	505.70 ppb	08:00:00
2	B 249.677†	17782.3	17971.8	501.49 ug/L	501.49 ppb	07:59:40
2	Ba 233.527†	54199.6	54509.2	510.37 ug/L	510.37 ppb	07:59:40
2	Be 313.107†	1177688.3	1187873.7	513.79 ug/L	513.79 ppb	07:59:35
2	Cd 226.502†	34932.6	35269.1	509.73 ug/L	509.73 ppb	07:59:40
2	Co 228.616†	19830.9	19985.2	518.37 ug/L	518.37 ppb	07:59:40
2	Cr 267.716†	39091.5	39243.9	512.61 ug/L	512.61 ppb	07:59:40
2	Cu 324.752†	163624.7	158467.5	509.96 ug/L	509.96 ppb	07:59:40
2	Mn 257.610†	384802.9	386560.8	506.85 ug/L	506.85 ppb	07:59:35
2	Mo 202.031†	5852.6	5871.5	507.24 ug/L	507.24 ppb	08:00:00
2	Ni 231.604†	16425.6	16464.3	518.63 ug/L	518.63 ppb	07:59:40

2	P 214.914†	3483.4	3327.5	2428.0 ug/L	2428.0 ppb	08:00:00
2	Pb 220.353†	3239.2	3301.2	512.58 ug/L	512.58 ppb	08:00:00
2	S 181.975 Axial†	588.7	561.1	999.84 ug/L	999.84 ppb	08:00:00
2	Sb 206.836†	1255.6	1234.1	529.72 ug/L	529.72 ppb	08:00:00
2	Se 196.026†	610.4	633.0	531.99 ug/L	531.99 ppb	08:00:00
2	Si 251.611†	68735.7	68666.9	2539.8 ug/L	2539.8 ppb	07:59:40
2	Sn 189.927†	2250.4	2255.1	513.04 ug/L	513.04 ppb	08:00:00
2	Ti 334.940†	292576.4	295169.5	501.52 ug/L	501.52 ppb	07:59:40
2	Tl 190.801†	1279.1	1317.3	514.32 ug/L	514.32 ppb	08:00:00
2	U 409.014†	15833.7	17925.3	521.74 ug/L	521.74 ppb	07:59:40
2	V 292.402†	63903.3	65506.7	518.16 ug/L	518.16 ppb	07:59:40
2	Zn 213.857†	42467.5	42202.1	507.30 ug/L	507.30 ppb	07:59:40
2	SiO2†	65863.3	65752.5	5151.3 ug/L	5151.3 ppb	08:00:41
3	Sc Radial	3247.3	3247.3	96.9 %		07:58:56
3	Y RADIAL	2629.9	2629.9	95.87 %		07:58:56
3	Al 396.153Radial†	2193.3	2323.0	4967.9 ug/L	4967.9 ppb	07:58:36
3	Ca 317.933Radial†	1258.9	1288.7	5114.2 ug/L	5114.2 ppb	07:58:56
3	Fe 238.204 Radial†	186.6	183.9	5126.1 ug/L	5126.1 ppb	07:58:56
3	K 766.490 Radial†	12665.1	10953.0	5007.6 ug/L	5007.6 ppb	07:58:36
3	Mg 279.077 IEC†	53.1	54.3	5271.6 ug/L	5271.6 ppb	07:58:56
3	Na 589.592 Radial†	28015.9	29688.4	9914.6 ug/L	9914.6 ppb	07:58:36
3	Sr 421.552†	49930.4	51480.8	510.45 ug/L	510.45 ppb	07:58:36
3	Sc 361.383	815407.7	815407.7	97.683 %		08:00:06
3	Y 371.029	690041.7	690041.7	96.420 %		08:00:06
3	Ag 328.068†	99856.5	102065.5	518.84 ug/L	518.84 ppb	08:00:11
3	As 188.979†	874.1	910.7	510.64 ug/L	510.64 ppb	08:00:31
3	B 249.677†	17560.7	18067.3	504.14 ug/L	504.14 ppb	08:00:11
3	Ba 233.527†	53852.6	55136.8	516.24 ug/L	516.24 ppb	08:00:11
3	Be 313.107†	1180214.6	1211815.7	524.13 ug/L	524.13 ppb	08:00:06
3	Cd 226.502†	34775.9	35742.1	516.57 ug/L	516.57 ppb	08:00:11
3	Co 228.616†	19763.2	20275.4	525.90 ug/L	525.90 ppb	08:00:11
3	Cr 267.716†	38801.0	39655.4	517.98 ug/L	517.98 ppb	08:00:11
3	Cu 324.752†	161076.6	158826.0	511.11 ug/L	511.11 ppb	08:00:11
3	Mn 257.610†	385625.7	394381.1	517.09 ug/L	517.09 ppb	08:00:06
3	Mo 202.031†	5767.1	5890.1	508.85 ug/L	508.85 ppb	08:00:31
3	Ni 231.604†	16302.4	16636.0	524.03 ug/L	524.03 ppb	08:00:11
3	P 214.914†	3439.4	3345.6	2441.4 ug/L	2441.4 ppb	08:00:31
3	Pb 220.353†	3149.4	3268.1	507.46 ug/L	507.46 ppb	08:00:31
3	S 181.975 Axial†	577.6	560.5	998.75 ug/L	998.75 ppb	08:00:31
3	Sb 206.836†	1236.6	1237.4	531.06 ug/L	531.06 ppb	08:00:31
3	Se 196.026†	589.6	622.8	523.82 ug/L	523.82 ppb	08:00:31
3	Si 251.611†	67874.3	69031.5	2553.3 ug/L	2553.3 ppb	08:00:11
3	Sn 189.927†	2192.6	2236.8	508.89 ug/L	508.89 ppb	08:00:31
3	Ti 334.940†	289232.1	297051.5	504.71 ug/L	504.71 ppb	08:00:11
3	Tl 190.801†	1261.9	1322.9	516.53 ug/L	516.53 ppb	08:00:31
3	U 409.014†	15568.4	17940.8	522.17 ug/L	522.17 ppb	08:00:11
3	V 292.402†	63226.4	65972.6	521.82 ug/L	521.82 ppb	08:00:11
3	Zn 213.857†	42138.8	42635.7	512.52 ug/L	512.52 ppb	08:00:11
3	SiO2†	67228.6	68344.5	5354.9 ug/L	5354.9 ppb	08:00:46

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	822763.4	98.565 %		0.8808			0.89%
Sc Radial	3259.3	97.3 %		0.31			0.32%
Y 371.029	696371.1	97.304 %		0.9307			0.96%
Y RADIAL	2639.6	96.22 %		0.315			0.33%
Ag 328.068†	101166.7	514.28 ug/L		5.409	514.28 ppb	5.409	1.05%
QC value within limits for Ag 328.068 Recovery = 102.86%							
Al 396.153Radial†	2313.7	4947.9 ug/L		22.40	4947.9 ppb	22.40	0.45%
QC value within limits for Al 396.153Radial Recovery = 98.96%							
As 188.979†	907.0	508.53 ug/L		2.550	508.53 ppb	2.550	0.50%
QC value within limits for As 188.979 Recovery = 101.71%							
B 249.677†	17858.0	498.29 ug/L		7.945	498.29 ppb	7.945	1.59%
QC value within limits for B 249.677 Recovery = 99.66%							
Ba 233.527†	54469.2	509.99 ug/L		6.443	509.99 ppb	6.443	1.26%
QC value within limits for Ba 233.527 Recovery = 102.00%							
Be 313.107†	1191793.5	515.47 ug/L		7.944	515.47 ppb	7.944	1.54%
QC value within limits for Be 313.107 Recovery = 103.09%							
Ca 317.933Radial†	1286.1	5104.1 ug/L		31.59	5104.1 ppb	31.59	0.62%

QC value within limits for Ca 317.933 Radial Recovery = 102.08%

Cd 226.502†	35305.6	510.26 ug/L	6.071	510.26 ppb	6.071	1.19%
QC value within limits for Cd 226.502 Recovery = 102.05%						
Co 228.616†	19996.7	518.68 ug/L	7.072	518.68 ppb	7.072	1.36%
QC value within limits for Co 228.616 Recovery = 103.74%						
Cr 267.716†	39180.1	511.78 ug/L	6.661	511.78 ppb	6.661	1.30%
QC value within limits for Cr 267.716 Recovery = 102.36%						
Cu 324.752†	157614.1	507.21 ug/L	5.780	507.21 ppb	5.780	1.14%
QC value within limits for Cu 324.752 Recovery = 101.44%						
Fe 238.204 Radial†	184.1	5132.7 ug/L	37.43	5132.7 ppb	37.43	0.73%
QC value within limits for Fe 238.204 Radial Recovery = 102.65%						
K 766.490 Radial†	10904.2	4985.3 ug/L	28.43	4985.3 ppb	28.43	0.57%
QC value within limits for K 766.490 Radial Recovery = 99.71%						
Mg 279.077 IEC†	54.0	5243.0 ug/L	124.78	5243.0 ppb	124.78	2.38%
QC value within limits for Mg 279.077 IEC Recovery = 104.86%						
Mn 257.610†	388254.5	509.07 ug/L	7.179	509.07 ppb	7.179	1.41%
QC value within limits for Mn 257.610 Recovery = 101.81%						
Mo 202.031†	5884.3	508.35 ug/L	0.961	508.35 ppb	0.961	0.19%
QC value within limits for Mo 202.031 Recovery = 101.67%						
Na 589.592 Radial†	29336.6	9797.1 ug/L	134.76	9797.1 ppb	134.76	1.38%
QC value within limits for Na 589.592 Radial Recovery = 97.97%						
Ni 231.604†	16452.5	518.25 ug/L	5.971	518.25 ppb	5.971	1.15%
QC value within limits for Ni 231.604 Recovery = 103.65%						
P 214.914†	3336.3	2435.1 ug/L	6.77	2435.1 ppb	6.77	0.28%
QC value within limits for P 214.914 Recovery = 97.40%						
Pb 220.353†	3287.9	510.53 ug/L	2.708	510.53 ppb	2.708	0.53%
QC value within limits for Pb 220.353 Recovery = 102.11%						
S 181.975 Axial†	562.1	1001.7 ug/L	4.20	1001.7 ppb	4.20	0.42%
QC value within limits for S 181.975 Axial Recovery = 100.17%						
Sb 206.836†	1241.4	532.72 ug/L	4.091	532.72 ppb	4.091	0.77%
QC value within limits for Sb 206.836 Recovery = 106.54%						
Se 196.026†	632.1	531.35 ug/L	7.226	531.35 ppb	7.226	1.36%
QC value within limits for Se 196.026 Recovery = 106.27%						
Si 251.611†	68422.5	2530.7 ug/L	28.23	2530.7 ppb	28.23	1.12%
QC value within limits for Si 251.611 Recovery = 101.23%						
Sn 189.927†	2247.0	511.20 ug/L	2.115	511.20 ppb	2.115	0.41%
QC value within limits for Sn 189.927 Recovery = 102.24%						
Sr 421.552†	51174.6	507.41 ug/L	5.770	507.41 ppb	5.770	1.14%
QC value within limits for Sr 421.552 Recovery = 101.48%						
Ti 334.940†	294212.0	499.89 ug/L	5.812	499.89 ppb	5.812	1.16%
QC value within limits for Ti 334.940 Recovery = 99.98%						
Tl 190.801†	1321.2	515.81 ug/L	1.292	515.81 ppb	1.292	0.25%
QC value within limits for Tl 190.801 Recovery = 103.16%						
U 409.014†	17822.0	518.72 ug/L	5.608	518.72 ppb	5.608	1.08%
QC value within limits for U 409.014 Recovery = 103.74%						
V 292.402†	65292.3	516.50 ug/L	6.317	516.50 ppb	6.317	1.22%
QC value within limits for V 292.402 Recovery = 103.30%						
Zn 213.857†	42196.3	507.23 ug/L	5.325	507.23 ppb	5.325	1.05%
QC value within limits for Zn 213.857 Recovery = 101.45%						
SiO2†	67272.0	5270.6 ug/L	106.23	5270.6 ppb	106.23	2.02%
QC value within limits for SiO2 Recovery = 98.56%						

All analyte(s) passed QC.

Sequence No.: 122
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/10/2010 08:02:56
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3106.0	3106.0	92.7 %			08:05:09
1	Y RADIAL	2534.1	2534.1	92.37 %			08:05:09
1	Al 396.153Radial†	-69.4	-14.8	-31.945 ug/L	-31.945 ppb		08:05:09
1	Ca 317.933Radial†	7.6	-2.1	-8.2058 ug/L	-8.2058 ppb		08:05:09
1	Fe 238.204 Radial†	5.8	-2.4	-66.455 ug/L	-66.455 ppb		08:05:09
1	K 766.490 Radial†	2072.5	121.1	55.460 ug/L	55.460 ppb		08:04:49
1	Mg 279.077 IEC†	1.4	1.0	100.54 ug/L	100.54 ppb		08:05:09
1	Na 589.592 Radial†	-825.7	-108.1	-36.093 ug/L	-36.093 ppb		08:04:49
1	Sr 421.552†	60.0	29.0	0.2880 ug/L	0.2880 ppb		08:04:49
1	Sc 361.383	804342.9	804342.9	96.358 %			08:06:06
1	Y 371.029	689040.1	689040.1	96.280 %			08:06:06
1	Ag 328.068†	193.3	41.6	0.1882 ug/L	0.1882 ppb		08:06:06
1	As 188.979†	-18.3	-3.0	-1.7096 ug/L	-1.7096 ppb		08:06:26
1	B 249.677†	-223.5	-141.7	-3.9620 ug/L	-3.9620 ppb		08:06:26
1	Ba 233.527†	-1.2	5.9	0.0529 ug/L	0.0529 ppb		08:06:26
1	Be 313.107†	-3542.2	-63.5	-0.0275 ug/L	-0.0275 ppb		08:06:06
1	Cd 226.502†	-151.6	-15.8	-0.2204 ug/L	-0.2204 ppb		08:06:26
1	Co 228.616†	-43.7	-1.8	-0.0433 ug/L	-0.0433 ppb		08:06:26
1	Cr 267.716†	55.2	-8.4	-0.1133 ug/L	-0.1133 ppb		08:06:26
1	Cu 324.752†	6061.8	220.5	0.7055 ug/L	0.7055 ppb		08:06:06
1	Mn 257.610†	389.9	15.0	0.0090 ug/L	0.0090 ppb		08:06:26
1	Mo 202.031†	24.2	11.3	0.9718 ug/L	0.9718 ppb		08:06:26
1	Ni 231.604†	77.1	27.0	0.8506 ug/L	0.8506 ppb		08:06:26
1	P 214.914†	172.1	3.2	2.3318 ug/L	2.3318 ppb		08:06:26
1	Pb 220.353†	-37.0	5.6	0.8649 ug/L	0.8649 ppb		08:06:26
1	S 181.975 Axial†	32.2	2.6	4.5947 ug/L	4.5947 ppb		08:06:26
1	Sb 206.836†	31.5	4.2	1.7352 ug/L	1.7352 ppb		08:06:26
1	Se 196.026†	-25.8	-7.5	-6.3200 ug/L	-6.3200 ppb		08:06:26
1	Si 251.611†	495.0	61.3	2.2595 ug/L	2.2595 ppb		08:06:26
1	Sn 189.927†	0.4	-7.4	-1.6838 ug/L	-1.6838 ppb		08:06:26
1	Ti 334.940†	-934.5	-9.6	-0.0261 ug/L	-0.0261 ppb		08:06:06
1	Tl 190.801†	-24.5	5.6	2.1883 ug/L	2.1883 ppb		08:06:26
1	U 409.014†	-1895.5	36.1	1.0606 ug/L	1.0606 ppb		08:06:06
1	V 292.402†	-1214.8	-13.9	-0.0813 ug/L	-0.0813 ppb		08:06:06
1	Zn 213.857†	485.2	1.1	0.0164 ug/L	0.0164 ppb		08:06:26
1	SiO2†	487.7	27.7	2.1459 ug/L	2.1459 ppb		08:07:37
2	Sc Radial	3189.6	3189.6	95.2 %			08:05:34
2	Y RADIAL	2595.7	2595.7	94.62 %			08:05:34
2	Al 396.153Radial†	-66.6	-9.9	-21.214 ug/L	-21.214 ppb		08:05:34
2	Ca 317.933Radial†	4.7	-5.3	-20.892 ug/L	-20.892 ppb		08:05:34
2	Fe 238.204 Radial†	8.3	0.1	2.0849 ug/L	2.0849 ppb		08:05:34
2	K 766.490 Radial†	2129.9	122.9	56.277 ug/L	56.277 ppb		08:05:14
2	Mg 279.077 IEC†	2.5	2.1	207.69 ug/L	207.69 ppb		08:05:34
2	Na 589.592 Radial†	-759.6	-15.3	-5.1126 ug/L	-5.1126 ppb		08:05:14
2	Sr 421.552†	24.1	-10.4	-0.1031 ug/L	-0.1031 ppb		08:05:14
2	Sc 361.383	819741.9	819741.9	98.203 %			08:06:31
2	Y 371.029	702802.0	702802.0	98.203 %			08:06:31
2	Ag 328.068†	177.0	21.1	0.1077 ug/L	0.1077 ppb		08:06:31
2	As 188.979†	-20.3	-4.7	-2.5950 ug/L	-2.5950 ppb		08:06:51
2	B 249.677†	-224.0	-137.9	-3.8658 ug/L	-3.8658 ppb		08:06:51
2	Ba 233.527†	15.3	22.7	0.2124 ug/L	0.2124 ppb		08:06:51
2	Be 313.107†	-3564.1	-16.8	-0.0070 ug/L	-0.0070 ppb		08:06:31
2	Cd 226.502†	-145.8	-6.9	-0.0993 ug/L	-0.0993 ppb		08:06:51
2	Co 228.616†	-32.7	10.2	0.2629 ug/L	0.2629 ppb		08:06:51
2	Cr 267.716†	61.4	-3.2	-0.0423 ug/L	-0.0423 ppb		08:06:51
2	Cu 324.752†	6103.4	144.7	0.4654 ug/L	0.4654 ppb		08:06:31
2	Mn 257.610†	402.9	20.6	0.0187 ug/L	0.0187 ppb		08:06:51
2	Mo 202.031†	4.9	-8.8	-0.7571 ug/L	-0.7571 ppb		08:06:51
2	Ni 231.604†	83.5	32.0	1.0088 ug/L	1.0088 ppb		08:06:51

2	P 214.914†	170.0	-2.3	-1.8873 ug/L	-1.8873 ppb	08:06:51
2	Pb 220.353†	-50.9	-8.0	-1.2385 ug/L	-1.2385 ppb	08:06:51
2	S 181.975 Axial†	27.7	-2.6	-4.7128 ug/L	-4.7128 ppb	08:06:51
2	Sb 206.836†	26.6	-1.4	-0.6320 ug/L	-0.6320 ppb	08:06:51
2	Se 196.026†	-18.8	0.1	0.0518 ug/L	0.0518 ppb	08:06:51
2	Si 251.611†	512.1	69.1	2.5705 ug/L	2.5705 ppb	08:06:51
2	Sn 189.927†	-1.8	-9.6	-2.1914 ug/L	-2.1914 ppb	08:06:51
2	Ti 334.940†	-887.1	57.0	0.0769 ug/L	0.0769 ppb	08:06:31
2	Tl 190.801†	-13.1	17.7	6.8729 ug/L	6.8729 ppb	08:06:51
2	U 409.014†	-1954.9	12.5	0.3655 ug/L	0.3655 ppb	08:06:31
2	V 292.402†	-1215.3	9.2	0.0657 ug/L	0.0657 ppb	08:06:31
2	Zn 213.857†	495.5	2.1	0.0185 ug/L	0.0185 ppb	08:06:51
2	SiO2†	490.8	21.3	1.6918 ug/L	1.6918 ppb	08:07:57
3	Sc Radial	3199.6	3199.6	95.5 %		08:05:59
3	Y RADIAL	2612.4	2612.4	95.23 %		08:05:59
3	Al 396.153Radial†	-65.6	-8.7	-18.687 ug/L	-18.687 ppb	08:05:59
3	Ca 317.933Radial†	12.3	2.7	10.586 ug/L	10.586 ppb	08:05:59
3	Fe 238.204 Radial†	8.1	-0.1	-4.0539 ug/L	-4.0539 ppb	08:05:59
3	K 766.490 Radial†	2085.7	69.6	31.855 ug/L	31.855 ppb	08:05:39
3	Mg 279.077 IEC†	3.4	3.1	304.06 ug/L	304.06 ppb	08:05:59
3	Na 589.592 Radial†	-772.9	-26.7	-8.9239 ug/L	-8.9239 ppb	08:05:39
3	Sr 421.552†	22.7	-11.9	-0.1180 ug/L	-0.1180 ppb	08:05:39
3	Sc 361.383	804655.5	804655.5	96.395 %		08:06:56
3	Y 371.029	690652.6	690652.6	96.505 %		08:06:56
3	Ag 328.068†	153.0	-0.3	-0.0001 ug/L	-0.0001 ppb	08:06:56
3	As 188.979†	-16.6	-1.3	-0.7147 ug/L	-0.7147 ppb	08:07:16
3	B 249.677†	-251.5	-170.7	-4.7826 ug/L	-4.7826 ppb	08:07:16
3	Ba 233.527†	-2.3	4.8	0.0446 ug/L	0.0446 ppb	08:07:16
3	Be 313.107†	-3435.0	49.1	0.0214 ug/L	0.0214 ppb	08:06:56
3	Cd 226.502†	-149.2	-13.2	-0.1909 ug/L	-0.1909 ppb	08:07:16
3	Co 228.616†	-50.9	-9.2	-0.2378 ug/L	-0.2378 ppb	08:07:16
3	Cr 267.716†	58.2	-5.4	-0.0690 ug/L	-0.0690 ppb	08:07:16
3	Cu 324.752†	6040.3	195.7	0.6317 ug/L	0.6317 ppb	08:06:56
3	Mn 257.610†	399.2	24.5	0.0192 ug/L	0.0192 ppb	08:07:16
3	Mo 202.031†	18.0	4.9	0.4189 ug/L	0.4189 ppb	08:07:16
3	Ni 231.604†	84.8	34.9	1.1000 ug/L	1.1000 ppb	08:07:16
3	P 214.914†	168.7	-0.4	-0.3874 ug/L	-0.3874 ppb	08:07:16
3	Pb 220.353†	-56.8	-15.0	-2.3326 ug/L	-2.3326 ppb	08:07:16
3	S 181.975 Axial†	28.6	-1.2	-2.0826 ug/L	-2.0826 ppb	08:07:16
3	Sb 206.836†	33.3	6.0	2.5262 ug/L	2.5262 ppb	08:07:16
3	Se 196.026†	-20.6	-2.1	-1.7297 ug/L	-1.7297 ppb	08:07:16
3	Si 251.611†	485.1	50.8	1.8798 ug/L	1.8798 ppb	08:07:16
3	Sn 189.927†	11.8	4.4	0.9990 ug/L	0.9990 ppb	08:07:16
3	Ti 334.940†	-874.3	53.2	0.0687 ug/L	0.0687 ppb	08:06:56
3	Tl 190.801†	-25.7	4.4	1.7002 ug/L	1.7002 ppb	08:07:16
3	U 409.014†	-2048.0	-121.5	-3.5464 ug/L	-3.5464 ppb	08:06:56
3	V 292.402†	-1201.2	0.7	0.0107 ug/L	0.0107 ppb	08:06:56
3	Zn 213.857†	490.1	5.9	0.0649 ug/L	0.0649 ppb	08:07:16
3	SiO2†	489.7	29.6	2.3108 ug/L	2.3108 ppb	08:08:17

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	809580.1	96.985 %	1.0544			1.09%
Sc Radial	3165.0	94.5 %	1.53			1.62%
Y 371.029	694164.9	96.996 %	1.0512			1.08%
Y RADIAL	2580.7	94.08 %	1.505			1.60%
Ag 328.068†	20.8	0.0986 ug/L	0.09450	0.0986 ppb	0.09450	95.85%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-11.1	-23.949 ug/L	7.0395	-23.949 ppb	7.0395	29.39%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.0	-1.6731 ug/L	0.94067	-1.6731 ppb	0.94067	56.22%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-150.1	-4.2035 ug/L	0.50385	-4.2035 ppb	0.50385	11.99%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	11.1	0.1033 ug/L	0.09455	0.1033 ppb	0.09455	91.54%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-10.4	-0.0044 ug/L	0.02453	-0.0044 ppb	0.02453	561.29%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.6	-6.1709 ug/L	15.83728	-6.1709 ppb	15.83728	256.65%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-12.0	-0.1702 ug/L	0.06312	-0.1702 ppb	0.06312	37.09%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-0.3	-0.0061 ug/L	0.25243	-0.0061 ppb	0.25243	>999.9%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-5.7	-0.0749 ug/L	0.03588	-0.0749 ppb	0.03588	47.91%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	187.0	0.6009 ug/L	0.12294	0.6009 ppb	0.12294	20.46%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.8	-22.808 ug/L	37.9236	-22.808 ppb	37.9236	166.27%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	104.5	47.864 ug/L	13.8705	47.864 ppb	13.8705	28.98%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	2.1	204.10 ug/L	101.808	204.10 ppb	101.808	49.88%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	20.0	0.0156 ug/L	0.00577	0.0156 ppb	0.00577	36.98%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.5	0.2112 ug/L	0.88299	0.2112 ppb	0.88299	418.04%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-50.0	-16.710 ug/L	16.8942	-16.710 ppb	16.8942	101.10%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	31.3	0.9865 ug/L	0.12619	0.9865 ppb	0.12619	12.79%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	0.2	0.0190 ug/L	2.13874	0.0190 ppb	2.13874	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-5.8	-0.9021 ug/L	1.62509	-0.9021 ppb	1.62509	180.15%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-0.4	-0.7336 ug/L	4.79817	-0.7336 ppb	4.79817	654.10%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.9	1.2098 ug/L	1.64335	1.2098 ppb	1.64335	135.83%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.2	-2.6660 ug/L	3.28748	-2.6660 ppb	3.28748	123.31%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	60.4	2.2366 ug/L	0.34591	2.2366 ppb	0.34591	15.47%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-4.2	-0.9587 ug/L	1.71437	-0.9587 ppb	1.71437	178.82%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	2.2	0.0223 ug/L	0.23022	0.0223 ppb	0.23022	>999.9%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	33.5	0.0398 ug/L	0.05722	0.0398 ppb	0.05722	143.63%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	9.2	3.5872 ug/L	2.85598	3.5872 ppb	2.85598	79.62%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-24.3	-0.7067 ug/L	2.48361	-0.7067 ppb	2.48361	351.41%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-1.3	-0.0017 ug/L	0.07425	-0.0017 ppb	0.07425	>999.9%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	3.0	0.0333 ug/L	0.02743	0.0333 ppb	0.02743	82.39%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	26.2	2.0495 ug/L	0.32057	2.0495 ppb	0.32057	15.64%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 7
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/10/2010 08:51:37
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3302.5	3302.5	98.6 %			08:53:49
1	Y RADIAL	2678.4	2678.4	97.64 %			08:53:49
1	Al 396.153Radial†	2229.2	2321.6	4965.3 ug/L		4965.3 ppb	08:53:29
1	Ca 317.933Radial†	1258.0	1266.0	5024.3 ug/L		5024.3 ppb	08:53:49
1	Fe 238.204 Radial†	186.0	180.1	5021.1 ug/L		5021.1 ppb	08:53:49
1	K 766.490 Radial†	12537.1	10604.5	4848.0 ug/L		4848.0 ppb	08:53:29
1	Mg 279.077 IEC†	54.0	54.4	5277.5 ug/L		5277.5 ppb	08:53:49
1	Na 589.592 Radial†	29017.9	30221.3	10093 ug/L		10093 ppb	08:53:29
1	Sr 421.552†	51097.7	51803.0	513.64 ug/L		513.64 ppb	08:53:29
1	Sc 361.383	839819.2	839819.2	100.61 %			08:54:46
1	Y 371.029	711888.2	711888.2	99.472 %			08:54:46
1	Ag 328.068†	99138.5	98380.4	500.12 ug/L		500.12 ppb	08:54:51
1	As 188.979†	880.2	890.8	499.39 ug/L		499.39 ppb	08:55:11
1	B 249.677†	17479.3	17463.9	487.31 ug/L		487.31 ppb	08:54:51
1	Ba 233.527†	53220.8	52906.5	495.36 ug/L		495.36 ppb	08:54:51
1	Be 313.107†	1168317.3	1164870.8	503.82 ug/L		503.82 ppb	08:54:46
1	Cd 226.502†	34353.6	34287.6	495.54 ug/L		495.54 ppb	08:54:51
1	Co 228.616†	19468.1	19394.0	503.06 ug/L		503.06 ppb	08:54:51
1	Cr 267.716†	38289.1	37992.0	496.26 ug/L		496.26 ppb	08:54:51
1	Cu 324.752†	159697.0	152661.6	491.28 ug/L		491.28 ppb	08:54:51
1	Mn 257.610†	382049.7	379351.6	497.39 ug/L		497.39 ppb	08:54:46
1	Mo 202.031†	5817.7	5768.8	498.37 ug/L		498.37 ppb	08:55:11
1	Ni 231.604†	16198.4	16047.5	505.50 ug/L		505.50 ppb	08:54:51
1	P 214.914†	3463.3	3267.0	2385.7 ug/L		2385.7 ppb	08:55:11
1	Pb 220.353†	3203.7	3228.3	501.30 ug/L		501.30 ppb	08:55:11
1	S 181.975 Axial†	583.6	549.2	978.68 ug/L		978.68 ppb	08:55:11
1	Sb 206.836†	1245.7	1209.7	519.23 ug/L		519.23 ppb	08:55:11
1	Se 196.026†	598.8	614.4	516.62 ug/L		516.62 ppb	08:55:11
1	Si 251.611†	67194.3	66335.9	2453.5 ug/L		2453.5 ppb	08:54:51
1	Sn 189.927†	2223.5	2202.2	501.03 ug/L		501.03 ppb	08:55:11
1	Ti 334.940†	285709.3	284943.2	484.14 ug/L		484.14 ppb	08:54:51
1	Tl 190.801†	1286.7	1310.0	511.41 ug/L		511.41 ppb	08:55:11
1	U 409.014†	15333.2	17243.7	501.88 ug/L		501.88 ppb	08:54:51
1	V 292.402†	62515.1	63384.1	501.47 ug/L		501.47 ppb	08:54:51
1	Zn 213.857†	41724.7	40970.1	492.47 ug/L		492.47 ppb	08:54:51
1	SiO2†	67835.3	66947.0	5245.4 ug/L		5245.4 ppb	08:56:19
2	Sc Radial	3234.1	3234.1	96.5 %			08:54:14
2	Y RADIAL	2631.2	2631.2	95.92 %			08:54:14
2	Al 396.153Radial†	2247.0	2387.9	5107.7 ug/L		5107.7 ppb	08:53:54
2	Ca 317.933Radial†	1231.0	1265.1	5020.6 ug/L		5020.6 ppb	08:54:14
2	Fe 238.204 Radial†	185.0	183.0	5101.2 ug/L		5101.2 ppb	08:54:14
2	K 766.490 Radial†	12708.7	11051.5	5052.5 ug/L		5052.5 ppb	08:53:54
2	Mg 279.077 IEC†	52.3	53.8	5218.7 ug/L		5218.7 ppb	08:54:14
2	Na 589.592 Radial†	29707.7	31559.0	10539 ug/L		10539 ppb	08:53:54
2	Sr 421.552†	52116.0	53955.1	534.98 ug/L		534.98 ppb	08:53:54
2	Sc 361.383	836105.6	836105.6	100.16 %			08:55:17
2	Y 371.029	708644.8	708644.8	99.019 %			08:55:17
2	Ag 328.068†	99980.1	99658.3	506.63 ug/L		506.63 ppb	08:55:22
2	As 188.979†	881.2	895.8	502.23 ug/L		502.23 ppb	08:55:42
2	B 249.677†	17604.6	17666.2	492.93 ug/L		492.93 ppb	08:55:22
2	Ba 233.527†	54062.6	53981.8	505.42 ug/L		505.42 ppb	08:55:22
2	Be 313.107†	1174647.5	1176348.4	508.79 ug/L		508.79 ppb	08:55:17
2	Cd 226.502†	34987.1	35071.7	506.87 ug/L		506.87 ppb	08:55:22
2	Co 228.616†	19756.3	19767.7	512.74 ug/L		512.74 ppb	08:55:22
2	Cr 267.716†	38876.3	38747.3	506.13 ug/L		506.13 ppb	08:55:22
2	Cu 324.752†	160846.2	154514.0	497.24 ug/L		497.24 ppb	08:55:22
2	Mn 257.610†	383574.1	382560.2	501.60 ug/L		501.60 ppb	08:55:17
2	Mo 202.031†	5808.3	5785.0	499.78 ug/L		499.78 ppb	08:55:42
2	Ni 231.604†	16399.2	16319.5	514.06 ug/L		514.06 ppb	08:55:22

2	P 214.914†	3473.6	3292.6	2403.9 ug/L	2403.9 ppb	08:55:42
2	Pb 220.353†	3196.4	3235.1	502.38 ug/L	502.38 ppb	08:55:42
2	S 181.975 Axial†	590.2	558.4	995.02 ug/L	995.02 ppb	08:55:42
2	Sb 206.836†	1251.3	1220.8	523.95 ug/L	523.95 ppb	08:55:42
2	Se 196.026†	600.6	618.9	520.55 ug/L	520.55 ppb	08:55:42
2	Si 251.611†	67946.3	67383.3	2492.3 ug/L	2492.3 ppb	08:55:22
2	Sn 189.927†	2235.6	2224.2	506.00 ug/L	506.00 ppb	08:55:42
2	Ti 334.940†	289526.6	290015.7	492.76 ug/L	492.76 ppb	08:55:22
2	Tl 190.801†	1256.2	1285.2	501.80 ug/L	501.80 ppb	08:55:42
2	U 409.014†	15419.4	17397.5	506.34 ug/L	506.34 ppb	08:55:22
2	V 292.402†	63321.5	64465.2	509.91 ug/L	509.91 ppb	08:55:22
2	Zn 213.857†	42240.4	41669.2	500.88 ug/L	500.88 ppb	08:55:22
2	SiO2†	67594.1	67005.6	5250.0 ug/L	5250.0 ppb	08:56:24
3	Sc Radial	3270.5	3270.5	97.6 %		08:54:39
3	Y RADIAL	2661.8	2661.8	97.03 %		08:54:39
3	Al 396.153Radial†	2225.8	2340.2	5005.5 ug/L	5005.5 ppb	08:54:19
3	Ca 317.933Radial†	1252.5	1272.9	5051.7 ug/L	5051.7 ppb	08:54:39
3	Fe 238.204 Radial†	188.4	184.4	5140.7 ug/L	5140.7 ppb	08:54:39
3	K 766.490 Radial†	12714.3	10910.5	4988.0 ug/L	4988.0 ppb	08:54:19
3	Mg 279.077 IEC†	52.1	53.0	5139.4 ug/L	5139.4 ppb	08:54:39
3	Na 589.592 Radial†	29702.4	31210.6	10423 ug/L	10423 ppb	08:54:19
3	Sr 421.552†	52072.3	53308.8	528.58 ug/L	528.58 ppb	08:54:19
3	Sc 361.383	846532.9	846532.9	101.41 %		08:55:48
3	Y 371.029	716182.9	716182.9	100.07 %		08:55:48
3	Ag 328.068†	100606.4	99046.4	503.53 ug/L	503.53 ppb	08:55:53
3	As 188.979†	889.9	893.5	500.95 ug/L	500.95 ppb	08:56:13
3	B 249.677†	17834.4	17676.2	493.22 ug/L	493.22 ppb	08:55:53
3	Ba 233.527†	53924.6	53180.9	497.93 ug/L	497.93 ppb	08:55:53
3	Be 313.107†	1183467.2	1170600.0	506.30 ug/L	506.30 ppb	08:55:48
3	Cd 226.502†	34836.4	34492.8	498.50 ug/L	498.50 ppb	08:55:53
3	Co 228.616†	19802.3	19570.1	507.61 ug/L	507.61 ppb	08:55:53
3	Cr 267.716†	38930.5	38322.7	500.58 ug/L	500.58 ppb	08:55:53
3	Cu 324.752†	162686.6	154350.7	496.72 ug/L	496.72 ppb	08:55:53
3	Mn 257.610†	387795.8	382006.0	500.88 ug/L	500.88 ppb	08:55:48
3	Mo 202.031†	5826.2	5731.3	495.15 ug/L	495.15 ppb	08:56:13
3	Ni 231.604†	16390.8	16109.5	507.45 ug/L	507.45 ppb	08:55:53
3	P 214.914†	3492.7	3268.6	2385.8 ug/L	2385.8 ppb	08:56:13
3	Pb 220.353†	3216.1	3215.2	499.26 ug/L	499.26 ppb	08:56:13
3	S 181.975 Axial†	600.2	561.0	999.67 ug/L	999.67 ppb	08:56:13
3	Sb 206.836†	1248.6	1202.7	516.29 ug/L	516.29 ppb	08:56:13
3	Se 196.026†	608.1	618.9	520.59 ug/L	520.59 ppb	08:56:13
3	Si 251.611†	68299.6	66896.1	2474.3 ug/L	2474.3 ppb	08:55:53
3	Sn 189.927†	2245.2	2206.1	501.90 ug/L	501.90 ppb	08:56:13
3	Ti 334.940†	290501.5	287416.5	488.35 ug/L	488.35 ppb	08:55:53
3	Tl 190.801†	1265.6	1279.1	499.43 ug/L	499.43 ppb	08:56:13
3	U 409.014†	15615.8	17401.5	506.46 ug/L	506.46 ppb	08:55:53
3	V 292.402†	63458.5	63821.6	504.82 ug/L	504.82 ppb	08:55:53
3	Zn 213.857†	42416.1	41323.0	496.72 ug/L	496.72 ppb	08:55:53
3	SiO2†	67557.6	66138.4	5182.0 ug/L	5182.0 ppb	08:56:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	840819.2	100.73 %	0.633			0.63%
Sc Radial	3269.0	97.6 %	1.02			1.05%
Y 371.029	712238.6	99.521 %	0.5284			0.53%
Y RADIAL	2657.1	96.86 %	0.873			0.90%
Ag 328.068†	99028.4	503.43 ug/L	3.257	503.43 ppb	3.257	0.65%
QC value within limits for Ag 328.068 Recovery = 100.69%						
Al 396.153Radial†	2349.9	5026.2 ug/L	73.40	5026.2 ppb	73.40	1.46%
QC value within limits for Al 396.153Radial Recovery = 100.52%						
As 188.979†	893.4	500.86 ug/L	1.422	500.86 ppb	1.422	0.28%
QC value within limits for As 188.979 Recovery = 100.17%						
B 249.677†	17602.1	491.15 ug/L	3.337	491.15 ppb	3.337	0.68%
QC value within limits for B 249.677 Recovery = 98.23%						
Ba 233.527†	53356.4	499.57 ug/L	5.228	499.57 ppb	5.228	1.05%
QC value within limits for Ba 233.527 Recovery = 99.91%						
Be 313.107†	1170606.4	506.30 ug/L	2.486	506.30 ppb	2.486	0.49%
QC value within limits for Be 313.107 Recovery = 101.26%						
Ca 317.933Radial†	1268.0	5032.2 ug/L	16.98	5032.2 ppb	16.98	0.34%

QC value within limits for Ca 317.933 Radial Recovery = 100.64%						
Cd	226.502†	34617.4	500.31 ug/L	5.878	500.31 ppb	5.878 1.17%
QC value within limits for Cd 226.502 Recovery = 100.06%						
Co	228.616†	19577.3	507.80 ug/L	4.841	507.80 ppb	4.841 0.95%
QC value within limits for Co 228.616 Recovery = 101.56%						
Cr	267.716†	38354.0	500.99 ug/L	4.945	500.99 ppb	4.945 0.99%
QC value within limits for Cr 267.716 Recovery = 100.20%						
Cu	324.752†	153842.1	495.08 ug/L	3.302	495.08 ppb	3.302 0.67%
QC value within limits for Cu 324.752 Recovery = 99.02%						
Fe	238.204 Radial†	182.5	5087.7 ug/L	60.93	5087.7 ppb	60.93 1.20%
QC value within limits for Fe 238.204 Radial Recovery = 101.75%						
K	766.490 Radial†	10855.5	4962.8 ug/L	104.52	4962.8 ppb	104.52 2.11%
QC value within limits for K 766.490 Radial Recovery = 99.26%						
Mg	279.077 IEC†	53.7	5211.8 ug/L	69.32	5211.8 ppb	69.32 1.33%
QC value within limits for Mg 279.077 IEC Recovery = 104.24%						
Mn	257.610†	381306.0	499.96 ug/L	2.255	499.96 ppb	2.255 0.45%
QC value within limits for Mn 257.610 Recovery = 99.99%						
Mo	202.031†	5761.7	497.77 ug/L	2.374	497.77 ppb	2.374 0.48%
QC value within limits for Mo 202.031 Recovery = 99.55%						
Na	589.592 Radial†	30997.0	10352 ug/L	231.8	10352 ppb	231.8 2.24%
QC value within limits for Na 589.592 Radial Recovery = 103.52%						
Ni	231.604†	16158.8	509.00 ug/L	4.489	509.00 ppb	4.489 0.88%
QC value within limits for Ni 231.604 Recovery = 101.80%						
P	214.914†	3276.1	2391.8 ug/L	10.51	2391.8 ppb	10.51 0.44%
QC value within limits for P 214.914 Recovery = 95.67%						
Pb	220.353†	3226.2	500.98 ug/L	1.588	500.98 ppb	1.588 0.32%
QC value within limits for Pb 220.353 Recovery = 100.20%						
S	181.975 Axial†	556.2	991.13 ug/L	11.022	991.13 ppb	11.022 1.11%
QC value within limits for S 181.975 Axial Recovery = 99.11%						
Sb	206.836†	1211.1	519.82 ug/L	3.866	519.82 ppb	3.866 0.74%
QC value within limits for Sb 206.836 Recovery = 103.96%						
Se	196.026†	617.4	519.26 ug/L	2.281	519.26 ppb	2.281 0.44%
QC value within limits for Se 196.026 Recovery = 103.85%						
Si	251.611†	66871.8	2473.4 ug/L	19.43	2473.4 ppb	19.43 0.79%
QC value within limits for Si 251.611 Recovery = 98.93%						
Sn	189.927†	2210.8	502.98 ug/L	2.658	502.98 ppb	2.658 0.53%
QC value within limits for Sn 189.927 Recovery = 100.60%						
Sr	421.552†	53022.3	525.73 ug/L	10.950	525.73 ppb	10.950 2.08%
QC value within limits for Sr 421.552 Recovery = 105.15%						
Ti	334.940†	287458.5	488.41 ug/L	4.310	488.41 ppb	4.310 0.88%
QC value within limits for Ti 334.940 Recovery = 97.68%						
Tl	190.801†	1291.4	504.21 ug/L	6.343	504.21 ppb	6.343 1.26%
QC value within limits for Tl 190.801 Recovery = 100.84%						
U	409.014†	17347.6	504.89 ug/L	2.612	504.89 ppb	2.612 0.52%
QC value within limits for U 409.014 Recovery = 100.98%						
V	292.402†	63890.3	505.40 ug/L	4.251	505.40 ppb	4.251 0.84%
QC value within limits for V 292.402 Recovery = 101.08%						
Zn	213.857†	41320.8	496.69 ug/L	4.204	496.69 ppb	4.204 0.85%
QC value within limits for Zn 213.857 Recovery = 99.34%						
SiO2†		66697.0	5225.8 ug/L	38.01	5225.8 ppb	38.01 0.73%
QC value within limits for SiO2 Recovery = 97.72%						

All analyte(s) passed QC.

Sequence No.: 8
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/10/2010 08:58:39
 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	3132.4	3132.4	93.5 %		09:00:52
1	Y RADIAL	2548.2	2548.2	92.89 %		09:00:52
1	Al 396.153Radial†	-57.6	-1.6	-3.4121 ug/L	-3.4121 ppb	09:00:52
1	Ca 317.933Radial†	10.8	1.3	5.1326 ug/L	5.1326 ppb	09:00:52
1	Fe 238.204 Radial†	8.3	0.3	7.1744 ug/L	7.1744 ppb	09:00:52
1	K 766.490 Radial†	2161.3	197.3	90.318 ug/L	90.318 ppb	09:00:32
1	Mg 279.077 IEC†	3.8	3.6	346.76 ug/L	346.76 ppb	09:00:52
1	Na 589.592 Radial†	-649.4	88.0	29.382 ug/L	29.382 ppb	09:00:32
1	Sr 421.552†	89.6	60.1	0.5963 ug/L	0.5963 ppb	09:00:32
1	Sc 361.383	816387.2	816387.2	97.801 %		09:01:49
1	Y 371.029	699831.6	699831.6	97.788 %		09:01:49
1	Ag 328.068†	238.1	84.4	0.4291 ug/L	0.4291 ppb	09:01:49
1	As 188.979†	-17.7	-2.1	-1.1619 ug/L	-1.1619 ppb	09:02:09
1	B 249.677†	-126.6	-39.2	-1.1003 ug/L	-1.1003 ppb	09:02:09
1	Ba 233.527†	11.5	19.0	0.1776 ug/L	0.1776 ppb	09:02:09
1	Be 313.107†	-3469.7	64.8	0.0278 ug/L	0.0278 ppb	09:01:49
1	Cd 226.502†	-155.1	-17.1	-0.2467 ug/L	-0.2467 ppb	09:02:09
1	Co 228.616†	-40.5	2.1	0.0533 ug/L	0.0533 ppb	09:02:09
1	Cr 267.716†	60.0	-4.4	-0.0574 ug/L	-0.0574 ppb	09:02:09
1	Cu 324.752†	6066.3	132.2	0.4259 ug/L	0.4259 ppb	09:01:49
1	Mn 257.610†	421.9	41.7	0.0412 ug/L	0.0412 ppb	09:02:09
1	Mo 202.031†	6.7	-6.9	-0.5991 ug/L	-0.5991 ppb	09:02:09
1	Ni 231.604†	79.1	27.9	0.8783 ug/L	0.8783 ppb	09:02:09
1	P 214.914†	159.7	-12.1	-9.2961 ug/L	-9.2961 ppb	09:02:09
1	Pb 220.353†	-38.2	4.9	0.7529 ug/L	0.7529 ppb	09:02:09
1	S 181.975 Axial†	30.6	0.4	0.7967 ug/L	0.7967 ppb	09:02:09
1	Sb 206.836†	33.0	5.2	2.1470 ug/L	2.1470 ppb	09:02:09
1	Se 196.026†	-14.8	4.1	3.3331 ug/L	3.3331 ppb	09:02:09
1	Si 251.611†	492.4	51.0	1.8998 ug/L	1.8998 ppb	09:02:09
1	Sn 189.927†	5.7	-2.0	-0.4646 ug/L	-0.4646 ppb	09:02:09
1	Ti 334.940†	-972.3	-33.9	-0.0853 ug/L	-0.0853 ppb	09:01:49
1	Tl 190.801†	-24.8	5.8	2.2324 ug/L	2.2324 ppb	09:02:09
1	U 409.014†	-1961.7	-2.6	-0.0775 ug/L	-0.0775 ppb	09:01:49
1	V 292.402†	-1206.5	13.2	0.0998 ug/L	0.0998 ppb	09:01:49
1	Zn 213.857†	491.0	-0.4	-0.0122 ug/L	-0.0122 ppb	09:02:09
1	SiO2†	511.6	44.7	3.5245 ug/L	3.5245 ppb	09:03:20
2	Sc Radial	3152.6	3152.6	94.1 %		09:01:17
2	Y RADIAL	2550.4	2550.4	92.97 %		09:01:17
2	Al 396.153Radial†	-61.5	-5.3	-11.387 ug/L	-11.387 ppb	09:01:17
2	Ca 317.933Radial†	10.2	0.6	2.4843 ug/L	2.4843 ppb	09:01:17
2	Fe 238.204 Radial†	5.4	-2.9	-81.407 ug/L	-81.407 ppb	09:01:17
2	K 766.490 Radial†	2198.3	221.8	101.51 ug/L	101.51 ppb	09:00:57
2	Mg 279.077 IEC†	2.1	1.7	169.35 ug/L	169.35 ppb	09:01:17
2	Na 589.592 Radial†	-711.6	26.4	8.8178 ug/L	8.8178 ppb	09:00:57
2	Sr 421.552†	33.9	0.4	0.0037 ug/L	0.0037 ppb	09:00:57
2	Sc 361.383	800367.4	800367.4	95.882 %		09:02:14
2	Y 371.029	687087.5	687087.5	96.007 %		09:02:14
2	Ag 328.068†	240.7	92.0	0.4428 ug/L	0.4428 ppb	09:02:14
2	As 188.979†	-13.9	1.5	0.8018 ug/L	0.8018 ppb	09:02:34
2	B 249.677†	-122.0	-37.0	-1.0246 ug/L	-1.0246 ppb	09:02:34
2	Ba 233.527†	17.2	25.1	0.2323 ug/L	0.2323 ppb	09:02:34
2	Be 313.107†	-3480.2	-17.2	-0.0076 ug/L	-0.0076 ppb	09:02:14
2	Cd 226.502†	-149.9	-14.7	-0.2047 ug/L	-0.2047 ppb	09:02:34
2	Co 228.616†	-47.7	-6.2	-0.1601 ug/L	-0.1601 ppb	09:02:34
2	Cr 267.716†	54.0	-9.4	-0.1242 ug/L	-0.1242 ppb	09:02:34
2	Cu 324.752†	6097.9	289.3	0.9288 ug/L	0.9288 ppb	09:02:14
2	Mn 257.610†	425.0	53.5	0.0552 ug/L	0.0552 ppb	09:02:34
2	Mo 202.031†	10.7	-2.6	-0.2294 ug/L	-0.2294 ppb	09:02:34
2	Ni 231.604†	80.9	31.4	0.9883 ug/L	0.9883 ppb	09:02:34

2	P 214.914†	166.3	-2.0	-1.5998 ug/L	-1.5998 ppb	09:02:34
2	Pb 220.353†	-49.6	-7.8	-1.2054 ug/L	-1.2054 ppb	09:02:34
2	S 181.975 Axial†	29.9	0.3	0.5946 ug/L	0.5946 ppb	09:02:34
2	Sb 206.836†	29.5	2.3	0.9833 ug/L	0.9833 ppb	09:02:34
2	Se 196.026†	-20.8	-2.5	-2.2488 ug/L	-2.2488 ppb	09:02:34
2	Si 251.611†	508.3	77.7	2.8841 ug/L	2.8841 ppb	09:02:34
2	Sn 189.927†	12.3	5.0	1.1318 ug/L	1.1318 ppb	09:02:34
2	Ti 334.940†	-955.5	-36.3	-0.0735 ug/L	-0.0735 ppb	09:02:14
2	Tl 190.801†	-24.3	5.8	2.2383 ug/L	2.2383 ppb	09:02:34
2	U 409.014†	-2043.3	-128.0	-3.7269 ug/L	-3.7269 ppb	09:02:14
2	V 292.402†	-1184.8	11.1	0.0913 ug/L	0.0913 ppb	09:02:14
2	Zn 213.857†	483.3	1.6	0.0239 ug/L	0.0239 ppb	09:02:34
2	SiO2†	487.8	30.3	2.3861 ug/L	2.3861 ppb	09:03:40
3	Sc Radial	3159.7	3159.7	94.3 %		09:01:42
3	Y RADIAL	2567.5	2567.5	93.59 %		09:01:42
3	Al 396.153Radial†	-64.0	-7.9	-16.921 ug/L	-16.921 ppb	09:01:42
3	Ca 317.933Radial†	12.2	2.7	10.800 ug/L	10.800 ppb	09:01:42
3	Fe 238.204 Radial†	8.2	0.0	1.2048 ug/L	1.2048 ppb	09:01:42
3	K 766.490 Radial†	2024.5	32.3	14.786 ug/L	14.786 ppb	09:01:22
3	Mg 279.077 IEC†	1.7	1.4	134.00 ug/L	134.00 ppb	09:01:42
3	Na 589.592 Radial†	-750.1	-12.8	-4.2662 ug/L	-4.2662 ppb	09:01:22
3	Sr 421.552†	23.0	-11.3	-0.1120 ug/L	-0.1120 ppb	09:01:22
3	Sc 361.383	797817.3	797817.3	95.576 %		09:02:39
3	Y 371.029	683631.3	683631.3	95.524 %		09:02:39
3	Ag 328.068†	158.0	6.2	0.0363 ug/L	0.0363 ppb	09:02:39
3	As 188.979†	-19.3	-4.3	-2.3727 ug/L	-2.3727 ppb	09:02:59
3	B 249.677†	-152.0	-68.9	-1.9312 ug/L	-1.9312 ppb	09:02:59
3	Ba 233.527†	15.7	23.6	0.2204 ug/L	0.2204 ppb	09:02:59
3	Be 313.107†	-3492.1	-41.2	-0.0180 ug/L	-0.0180 ppb	09:02:39
3	Cd 226.502†	-152.1	-17.6	-0.2543 ug/L	-0.2543 ppb	09:02:59
3	Co 228.616†	-40.6	1.1	0.0276 ug/L	0.0276 ppb	09:02:59
3	Cr 267.716†	67.2	4.6	0.0618 ug/L	0.0618 ppb	09:02:59
3	Cu 324.752†	6116.8	329.5	1.0630 ug/L	1.0630 ppb	09:02:39
3	Mn 257.610†	423.3	53.2	0.0644 ug/L	0.0644 ppb	09:02:59
3	Mo 202.031†	11.4	-1.8	-0.1576 ug/L	-0.1576 ppb	09:02:59
3	Ni 231.604†	100.0	51.6	1.6271 ug/L	1.6271 ppb	09:02:59
3	P 214.914†	172.8	5.4	3.9037 ug/L	3.9037 ppb	09:02:59
3	Pb 220.353†	-33.4	9.0	1.3877 ug/L	1.3877 ppb	09:02:59
3	S 181.975 Axial†	23.2	-6.6	-11.720 ug/L	-11.720 ppb	09:02:59
3	Sb 206.836†	25.6	-1.7	-0.7190 ug/L	-0.7190 ppb	09:02:59
3	Se 196.026†	-19.7	-1.3	-1.0966 ug/L	-1.0966 ppb	09:02:59
3	Si 251.611†	486.3	56.4	2.0923 ug/L	2.0923 ppb	09:02:59
3	Sn 189.927†	7.9	0.5	0.1076 ug/L	0.1076 ppb	09:02:59
3	Ti 334.940†	-978.8	-63.9	-0.1160 ug/L	-0.1160 ppb	09:02:39
3	Tl 190.801†	-24.1	5.9	2.2820 ug/L	2.2820 ppb	09:02:59
3	U 409.014†	-2072.7	-165.5	-4.8330 ug/L	-4.8330 ppb	09:02:39
3	V 292.402†	-1168.4	24.3	0.1809 ug/L	0.1809 ppb	09:02:39
3	Zn 213.857†	493.8	14.2	0.1608 ug/L	0.1608 ppb	09:02:59
3	SiO2†	509.8	54.9	4.3173 ug/L	4.3173 ppb	09:04:00

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804857.3	96.420 %	1.2059			1.25%
Sc Radial	3148.3	94.0 %	0.42			0.45%
Y 371.029	690183.5	96.440 %	1.1922			1.24%
Y RADIAL	2555.4	93.15 %	0.387			0.42%
Ag 328.068†	60.9	0.3027 ug/L	0.23087	0.3027 ppb	0.23087	76.26%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-4.9	-10.573 ug/L	6.7911	-10.573 ppb	6.7911	64.23%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.6	-0.9110 ug/L	1.60207	-0.9110 ppb	1.60207	175.86%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-48.4	-1.3520 ug/L	0.50298	-1.3520 ppb	0.50298	37.20%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	22.5	0.2101 ug/L	0.02878	0.2101 ppb	0.02878	13.70%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	2.1	0.0007 ug/L	0.02403	0.0007 ppb	0.02403	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.5	6.1388 ug/L	4.24791	6.1388 ppb	4.24791	69.20%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-16.5	-0.2352 ug/L	0.02671	-0.2352 ppb	0.02671	11.36%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-1.0	-0.0264 ug/L	0.11651	-0.0264 ppb	0.11651	440.97%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-3.1	-0.0399 ug/L	0.09419	-0.0399 ppb	0.09419	235.94%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	250.3	0.8059 ug/L	0.33583	0.8059 ppb	0.33583	41.67%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.9	-24.343 ug/L	49.5093	-24.343 ppb	49.5093	203.39%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	150.5	68.872 ug/L	47.1732	68.872 ppb	47.1732	68.49%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	2.2	216.70 ug/L	114.011	216.70 ppb	114.011	52.61%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	49.5	0.0536 ug/L	0.01167	0.0536 ppb	0.01167	21.78%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-3.8	-0.3287 ug/L	0.23691	-0.3287 ppb	0.23691	72.07%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	33.9	11.311 ug/L	16.9619	11.311 ppb	16.9619	149.96%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	36.9	1.1646 ug/L	0.40432	1.1646 ppb	0.40432	34.72%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-2.9	-2.3307 ug/L	6.63017	-2.3307 ppb	6.63017	284.47%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	2.0	0.3117 ug/L	1.35169	0.3117 ppb	1.35169	433.63%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-1.9	-3.4429 ug/L	7.16886	-3.4429 ppb	7.16886	208.22%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	1.9	0.8037 ug/L	1.44141	0.8037 ppb	1.44141	179.34%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.1	-0.0041 ug/L	2.94696	-0.0041 ppb	2.94696	>999.9%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	61.7	2.2921 ug/L	0.52171	2.2921 ppb	0.52171	22.76%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.1	0.2583 ug/L	0.80883	0.2583 ppb	0.80883	313.18%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	16.4	0.1627 ug/L	0.37999	0.1627 ppb	0.37999	233.59%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-44.7	-0.0916 ug/L	0.02192	-0.0916 ppb	0.02192	23.93%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.8	2.2509 ug/L	0.02710	2.2509 ppb	0.02710	1.20%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-98.7	-2.8791 ug/L	2.48853	-2.8791 ppb	2.48853	86.43%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	16.2	0.1240 ug/L	0.04942	0.1240 ppb	0.04942	39.86%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	5.1	0.0575 ug/L	0.09123	0.0575 ppb	0.09123	158.66%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	43.3	3.4093 ug/L	0.97073	3.4093 ppb	0.97073	28.47%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/10/2010 09:55:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3287.9	3287.9	98.1 %		09:57:49
1	Y RADIAL	2675.3	2675.3	97.52 %		09:57:49
1	Al 396.153Radial†	2244.6	2347.3	5020.3 ug/L	5020.3 ppb	09:57:29
1	Ca 317.933Radial†	1267.6	1281.4	5085.5 ug/L	5085.5 ppb	09:57:49
1	Fe 238.204 Radial†	187.6	182.6	5089.9 ug/L	5089.9 ppb	09:57:49
1	K 766.490 Radial†	12696.4	10823.2	4948.1 ug/L	4948.1 ppb	09:57:29
1	Mg 279.077 IEC†	54.7	55.3	5370.1 ug/L	5370.1 ppb	09:57:49
1	Na 589.592 Radial†	29337.1	30677.0	10245 ug/L	10245 ppb	09:57:29
1	Sr 421.552†	51852.4	52801.8	523.55 ug/L	523.55 ppb	09:57:29
1	Sc 361.383	832988.8	832988.8	99.790 %		09:58:46
1	Y 371.029	706345.2	706345.2	98.698 %		09:58:46
1	Ag 328.068†	99512.9	99563.6	506.14 ug/L	506.14 ppb	09:58:51
1	As 188.979†	885.6	903.4	506.43 ug/L	506.43 ppb	09:59:11
1	B 249.677†	17379.6	17506.4	488.47 ug/L	488.47 ppb	09:58:51
1	Ba 233.527†	53312.7	53432.3	500.28 ug/L	500.28 ppb	09:58:51
1	Be 313.107†	1167229.4	1173302.7	507.47 ug/L	507.47 ppb	09:58:46
1	Cd 226.502†	34392.8	34606.8	500.15 ug/L	500.15 ppb	09:58:51
1	Co 228.616†	19498.0	19582.7	507.95 ug/L	507.95 ppb	09:58:51
1	Cr 267.716†	38420.7	38435.9	502.06 ug/L	502.06 ppb	09:58:51
1	Cu 324.752†	160478.9	154746.8	497.99 ug/L	497.99 ppb	09:58:51
1	Mn 257.610†	374254.1	374653.4	491.23 ug/L	491.23 ppb	09:58:51
1	Mo 202.031†	5821.1	5819.6	502.76 ug/L	502.76 ppb	09:59:11
1	Ni 231.604†	16177.1	16158.1	508.98 ug/L	508.98 ppb	09:58:51
1	P 214.914†	3485.2	3317.2	2422.5 ug/L	2422.5 ppb	09:59:11
1	Pb 220.353†	3200.4	3251.1	504.84 ug/L	504.84 ppb	09:59:11
1	S 181.975 Axial†	591.0	561.4	1000.4 ug/L	1000.4 ppb	09:59:11
1	Sb 206.836†	1229.2	1203.4	516.75 ug/L	516.75 ppb	09:59:11
1	Se 196.026†	610.9	631.4	530.66 ug/L	530.66 ppb	09:59:11
1	Si 251.611†	67771.1	67461.6	2495.2 ug/L	2495.2 ppb	09:58:51
1	Sn 189.927†	2219.3	2216.1	504.19 ug/L	504.19 ppb	09:59:11
1	Ti 334.940†	286705.7	288270.4	489.79 ug/L	489.79 ppb	09:58:51
1	Tl 190.801†	1262.1	1295.9	505.90 ug/L	505.90 ppb	09:59:11
1	U 409.014†	15416.5	17452.2	507.94 ug/L	507.94 ppb	09:58:51
1	V 292.402†	62652.3	64031.1	506.58 ug/L	506.58 ppb	09:58:51
1	Zn 213.857†	41822.8	41408.5	497.75 ug/L	497.75 ppb	09:58:51
1	SiO2†	68266.6	67932.1	5322.6 ug/L	5322.6 ppb	10:00:18
2	Sc Radial	3269.1	3269.1	97.6 %		09:58:14
2	Y RADIAL	2664.8	2664.8	97.14 %		09:58:14
2	Al 396.153Radial†	2230.6	2346.0	5018.0 ug/L	5018.0 ppb	09:57:54
2	Ca 317.933Radial†	1262.4	1283.5	5093.8 ug/L	5093.8 ppb	09:58:14
2	Fe 238.204 Radial†	189.0	185.1	5159.5 ug/L	5159.5 ppb	09:58:14
2	K 766.490 Radial†	12701.9	10903.3	4984.7 ug/L	4984.7 ppb	09:57:54
2	Mg 279.077 IEC†	51.7	52.5	5096.9 ug/L	5096.9 ppb	09:58:14
2	Na 589.592 Radial†	29173.4	30681.2	10246 ug/L	10246 ppb	09:57:54
2	Sr 421.552†	51258.1	52496.6	520.52 ug/L	520.52 ppb	09:57:54
2	Sc 361.383	841776.8	841776.8	100.84 %		09:59:17
2	Y 371.029	714022.6	714022.6	99.771 %		09:59:17
2	Ag 328.068†	100035.2	99040.4	503.51 ug/L	503.51 ppb	09:59:22
2	As 188.979†	878.7	887.3	497.50 ug/L	497.50 ppb	09:59:42
2	B 249.677†	17525.1	17468.9	487.42 ug/L	487.42 ppb	09:59:22
2	Ba 233.527†	53617.9	53177.2	497.90 ug/L	497.90 ppb	09:59:22
2	Be 313.107†	1183726.1	1177450.4	509.26 ug/L	509.26 ppb	09:59:17
2	Cd 226.502†	34610.8	34463.2	498.07 ug/L	498.07 ppb	09:59:22
2	Co 228.616†	19597.2	19477.1	505.20 ug/L	505.20 ppb	09:59:22
2	Cr 267.716†	38652.7	38264.0	499.82 ug/L	499.82 ppb	09:59:22
2	Cu 324.752†	161489.1	154069.6	495.82 ug/L	495.82 ppb	09:59:22
2	Mn 257.610†	376718.1	373181.4	489.32 ug/L	489.32 ppb	09:59:22
2	Mo 202.031†	5810.6	5748.3	496.61 ug/L	496.61 ppb	09:59:42
2	Ni 231.604†	16201.2	16012.8	504.40 ug/L	504.40 ppb	09:59:22

2	P 214.914†	3472.8	3268.4	2385.8 ug/L	2385.8 ppb	09:59:42
2	Pb 220.353†	3208.4	3225.5	500.86 ug/L	500.86 ppb	09:59:42
2	S 181.975 Axial†	589.0	553.2	985.75 ug/L	985.75 ppb	09:59:42
2	Sb 206.836†	1241.4	1202.6	516.23 ug/L	516.23 ppb	09:59:42
2	Se 196.026†	599.7	614.0	516.67 ug/L	516.67 ppb	09:59:42
2	Si 251.611†	68220.1	67197.8	2485.5 ug/L	2485.5 ppb	09:59:22
2	Sn 189.927†	2224.1	2197.7	500.00 ug/L	500.00 ppb	09:59:42
2	Ti 334.940†	288434.4	286985.2	487.63 ug/L	487.63 ppb	09:59:22
2	Tl 190.801†	1274.2	1294.6	505.40 ug/L	505.40 ppb	09:59:42
2	U 409.014†	15481.2	17355.1	505.11 ug/L	505.11 ppb	09:59:22
2	V 292.402†	63031.9	63752.1	504.29 ug/L	504.29 ppb	09:59:22
2	Zn 213.857†	42158.5	41303.8	496.50 ug/L	496.50 ppb	09:59:22
2	SiO2†	67947.7	66901.6	5241.9 ug/L	5241.9 ppb	10:00:24
3	Sc Radial	3292.3	3292.3	98.3 %		09:58:39
3	Y RADIAL	2667.7	2667.7	97.25 %		09:58:39
3	Al 396.153Radial†	2211.8	2310.9	4942.1 ug/L	4942.1 ppb	09:58:19
3	Ca 317.933Radial†	1258.4	1270.4	5041.7 ug/L	5041.7 ppb	09:58:39
3	Fe 238.204 Radial†	190.0	184.8	5151.1 ug/L	5151.1 ppb	09:58:39
3	K 766.490 Radial†	12497.8	10604.0	4847.8 ug/L	4847.8 ppb	09:58:19
3	Mg 279.077 IEC†	52.7	53.2	5163.5 ug/L	5163.5 ppb	09:58:39
3	Na 589.592 Radial†	28872.5	30164.7	10074 ug/L	10074 ppb	09:58:19
3	Sr 421.552†	50815.7	51676.9	512.39 ug/L	512.39 ppb	09:58:19
3	Sc 361.383	833938.1	833938.1	99.903 %		09:59:48
3	Y 371.029	705589.9	705589.9	98.592 %		09:59:48
3	Ag 328.068†	100594.6	100532.8	511.06 ug/L	511.06 ppb	09:59:53
3	As 188.979†	894.0	910.9	510.65 ug/L	510.65 ppb	10:00:13
3	B 249.677†	17752.9	17860.3	498.36 ug/L	498.36 ppb	09:59:53
3	Ba 233.527†	53981.6	54041.0	505.98 ug/L	505.98 ppb	09:59:53
3	Be 313.107†	1166330.9	1171071.9	506.52 ug/L	506.52 ppb	09:59:48
3	Cd 226.502†	34887.5	35062.8	506.74 ug/L	506.74 ppb	09:59:53
3	Co 228.616†	19804.7	19867.4	515.32 ug/L	515.32 ppb	09:59:53
3	Cr 267.716†	38892.1	38864.0	507.65 ug/L	507.65 ppb	09:59:53
3	Cu 324.752†	162494.6	156581.4	503.89 ug/L	503.89 ppb	09:59:53
3	Mn 257.610†	379196.3	379173.5	497.17 ug/L	497.17 ppb	09:59:53
3	Mo 202.031†	5814.7	5806.5	501.64 ug/L	501.64 ppb	10:00:13
3	Ni 231.604†	16357.0	16319.8	514.07 ug/L	514.07 ppb	09:59:53
3	P 214.914†	3488.9	3316.8	2420.9 ug/L	2420.9 ppb	10:00:13
3	Pb 220.353†	3192.6	3239.6	503.03 ug/L	503.03 ppb	10:00:13
3	S 181.975 Axial†	579.8	549.5	979.25 ug/L	979.25 ppb	10:00:13
3	Sb 206.836†	1235.8	1208.5	518.87 ug/L	518.87 ppb	10:00:13
3	Se 196.026†	606.0	625.8	526.24 ug/L	526.24 ppb	10:00:13
3	Si 251.611†	68673.0	68287.0	2525.8 ug/L	2525.8 ppb	09:59:53
3	Sn 189.927†	2224.1	2218.4	504.70 ug/L	504.70 ppb	10:00:13
3	Ti 334.940†	290171.9	291412.9	495.13 ug/L	495.13 ppb	09:59:53
3	Tl 190.801†	1269.0	1301.3	508.04 ug/L	508.04 ppb	10:00:13
3	U 409.014†	15762.9	17781.3	517.54 ug/L	517.54 ppb	09:59:53
3	V 292.402†	63376.7	64684.8	511.66 ug/L	511.66 ppb	09:59:53
3	Zn 213.857†	42415.3	41953.9	504.32 ug/L	504.32 ppb	09:59:53
3	SiO2†	68601.3	68189.2	5342.9 ug/L	5342.9 ppb	10:00:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	836234.6	100.18 %	0.578			0.58%
Sc Radial	3283.1	98.0 %	0.37			0.37%
Y 371.029	708652.6	99.020 %	0.6520			0.66%
Y RADIAL	2669.3	97.30 %	0.198			0.20%
Ag 328.068†	99712.3	506.90 ug/L	3.837	506.90 ppb	3.837	0.76%
QC value within limits for Ag 328.068 Recovery = 101.38%						
Al 396.153Radial†	2334.7	4993.5 ug/L	44.51	4993.5 ppb	44.51	0.89%
QC value within limits for Al 396.153Radial Recovery = 99.87%						
As 188.979†	900.5	504.86 ug/L	6.714	504.86 ppb	6.714	1.33%
QC value within limits for As 188.979 Recovery = 100.97%						
B 249.677†	17611.9	491.42 ug/L	6.036	491.42 ppb	6.036	1.23%
QC value within limits for B 249.677 Recovery = 98.28%						
Ba 233.527†	53550.2	501.39 ug/L	4.154	501.39 ppb	4.154	0.83%
QC value within limits for Ba 233.527 Recovery = 100.28%						
Be 313.107†	1173941.7	507.75 ug/L	1.389	507.75 ppb	1.389	0.27%
QC value within limits for Be 313.107 Recovery = 101.55%						
Ca 317.933Radial†	1278.5	5073.7 ug/L	27.98	5073.7 ppb	27.98	0.55%

QC value within limits for Ca 317.933 Radial Recovery = 101.47%

Cd 226.502†	34711.0	501.65 ug/L	4.529	501.65 ppb	4.529	0.90%
QC value within limits for Cd 226.502 Recovery = 100.33%						
Co 228.616†	19642.4	509.49 ug/L	5.233	509.49 ppb	5.233	1.03%
QC value within limits for Co 228.616 Recovery = 101.90%						
Cr 267.716†	38521.3	503.18 ug/L	4.033	503.18 ppb	4.033	0.80%
QC value within limits for Cr 267.716 Recovery = 100.64%						
Cu 324.752†	155132.6	499.23 ug/L	4.179	499.23 ppb	4.179	0.84%
QC value within limits for Cu 324.752 Recovery = 99.85%						
Fe 238.204 Radial†	184.1	5133.5 ug/L	38.00	5133.5 ppb	38.00	0.74%
QC value within limits for Fe 238.204 Radial Recovery = 102.67%						
K 766.490 Radial†	10776.8	4926.9 ug/L	70.87	4926.9 ppb	70.87	1.44%
QC value within limits for K 766.490 Radial Recovery = 98.54%						
Mg 279.077 IEC†	53.7	5210.2 ug/L	142.45	5210.2 ppb	142.45	2.73%
QC value within limits for Mg 279.077 IEC Recovery = 104.20%						
Mn 257.610†	375669.5	492.58 ug/L	4.093	492.58 ppb	4.093	0.83%
QC value within limits for Mn 257.610 Recovery = 98.52%						
Mo 202.031†	5791.5	500.34 ug/L	3.273	500.34 ppb	3.273	0.65%
QC value within limits for Mo 202.031 Recovery = 100.07%						
Na 589.592 Radial†	30507.7	10188 ug/L	99.2	10188 ppb	99.2	0.97%
QC value within limits for Na 589.592 Radial Recovery = 101.88%						
Ni 231.604†	16163.6	509.15 ug/L	4.836	509.15 ppb	4.836	0.95%
QC value within limits for Ni 231.604 Recovery = 101.83%						
P 214.914†	3300.8	2409.7 ug/L	20.76	2409.7 ppb	20.76	0.86%
QC value within limits for P 214.914 Recovery = 96.39%						
Pb 220.353†	3238.7	502.91 ug/L	1.991	502.91 ppb	1.991	0.40%
QC value within limits for Pb 220.353 Recovery = 100.58%						
S 181.975 Axial†	554.7	988.45 ug/L	10.810	988.45 ppb	10.810	1.09%
QC value within limits for S 181.975 Axial Recovery = 98.85%						
Sb 206.836†	1204.8	517.28 ug/L	1.399	517.28 ppb	1.399	0.27%
QC value within limits for Sb 206.836 Recovery = 103.46%						
Se 196.026†	623.7	524.52 ug/L	7.153	524.52 ppb	7.153	1.36%
QC value within limits for Se 196.026 Recovery = 104.90%						
Si 251.611†	67648.8	2502.2 ug/L	21.05	2502.2 ppb	21.05	0.84%
QC value within limits for Si 251.611 Recovery = 100.09%						
Sn 189.927†	2210.8	502.96 ug/L	2.580	502.96 ppb	2.580	0.51%
QC value within limits for Sn 189.927 Recovery = 100.59%						
Sr 421.552†	52325.1	518.82 ug/L	5.768	518.82 ppb	5.768	1.11%
QC value within limits for Sr 421.552 Recovery = 103.76%						
Ti 334.940†	288889.5	490.85 ug/L	3.864	490.85 ppb	3.864	0.79%
QC value within limits for Ti 334.940 Recovery = 98.17%						
Tl 190.801†	1297.2	506.44 ug/L	1.403	506.44 ppb	1.403	0.28%
QC value within limits for Tl 190.801 Recovery = 101.29%						
U 409.014†	17529.5	510.20 ug/L	6.514	510.20 ppb	6.514	1.28%
QC value within limits for U 409.014 Recovery = 102.04%						
V 292.402†	64156.0	507.51 ug/L	3.771	507.51 ppb	3.771	0.74%
QC value within limits for V 292.402 Recovery = 101.50%						
Zn 213.857†	41555.4	499.52 ug/L	4.199	499.52 ppb	4.199	0.84%
QC value within limits for Zn 213.857 Recovery = 99.90%						
SiO2†	67674.3	5302.5 ug/L	53.44	5302.5 ppb	53.44	1.01%
QC value within limits for SiO2 Recovery = 99.16%						

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/10/2010 10:02:38

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	3127.1	3127.1	93.3 %		10:04:51
1	Y RADIAL	2559.0	2559.0	93.28 %		10:04:51
1	Al 396.153Radial†	-56.9	-0.9	-1.9309 ug/L	-1.9309 ppb	10:04:51
1	Ca 317.933Radial†	7.6	-2.0	-8.0319 ug/L	-8.0319 ppb	10:04:51
1	Fe 238.204 Radial†	8.0	-0.1	-2.1538 ug/L	-2.1538 ppb	10:04:51
1	K 766.490 Radial†	2154.1	193.5	88.601 ug/L	88.601 ppb	10:04:31
1	Mg 279.077 IEC†	3.0	2.7	265.54 ug/L	265.54 ppb	10:04:51
1	Na 589.592 Radial†	-809.4	-84.6	-28.251 ug/L	-28.251 ppb	10:04:31
1	Sr 421.552†	46.7	14.3	0.1422 ug/L	0.1422 ppb	10:04:31
1	Sc 361.383	800114.2	800114.2	95.851 %		10:05:48
1	Y 371.029	686130.5	686130.5	95.873 %		10:05:48
1	Ag 328.068†	214.5	64.7	0.3268 ug/L	0.3268 ppb	10:05:48
1	As 188.979†	-18.4	-3.3	-1.8163 ug/L	-1.8163 ppb	10:06:08
1	B 249.677†	-193.0	-111.2	-3.1163 ug/L	-3.1163 ppb	10:06:08
1	Ba 233.527†	3.8	11.1	0.1024 ug/L	0.1024 ppb	10:06:08
1	Be 313.107†	-3457.6	5.3	0.0025 ug/L	0.0025 ppb	10:05:48
1	Cd 226.502†	-127.9	8.2	0.1181 ug/L	0.1181 ppb	10:06:08
1	Co 228.616†	-45.0	-3.4	-0.0867 ug/L	-0.0867 ppb	10:06:08
1	Cr 267.716†	60.3	-2.8	-0.0363 ug/L	-0.0363 ppb	10:06:08
1	Cu 324.752†	6178.0	374.9	1.2090 ug/L	1.2090 ppb	10:05:48
1	Mn 257.610†	490.6	122.2	0.1490 ug/L	0.1490 ppb	10:06:08
1	Mo 202.031†	15.2	2.1	0.1819 ug/L	0.1819 ppb	10:06:08
1	Ni 231.604†	77.2	27.5	0.8684 ug/L	0.8684 ppb	10:06:08
1	P 214.914†	166.8	-1.4	-1.2706 ug/L	-1.2706 ppb	10:06:08
1	Pb 220.353†	-31.3	11.3	1.7446 ug/L	1.7446 ppb	10:06:08
1	S 181.975 Axial†	32.5	3.0	5.4269 ug/L	5.4269 ppb	10:06:08
1	Sb 206.836†	26.7	-0.6	-0.2390 ug/L	-0.2390 ppb	10:06:08
1	Se 196.026†	-14.3	4.3	3.4798 ug/L	3.4798 ppb	10:06:08
1	Si 251.611†	669.8	246.3	9.1314 ug/L	9.1314 ppb	10:06:08
1	Sn 189.927†	9.8	2.4	0.5342 ug/L	0.5342 ppb	10:06:08
1	Ti 334.940†	-881.6	40.5	0.0480 ug/L	0.0480 ppb	10:05:48
1	Tl 190.801†	-30.3	-0.6	-0.2281 ug/L	-0.2281 ppb	10:06:08
1	U 409.014†	-2065.2	-151.4	-4.4206 ug/L	-4.4206 ppb	10:05:48
1	V 292.402†	-1285.1	-93.9	-0.7337 ug/L	-0.7337 ppb	10:05:48
1	Zn 213.857†	513.4	33.2	0.3958 ug/L	0.3958 ppb	10:06:08
1	SiO2†	666.3	216.7	17.015 ug/L	17.015 ppb	10:07:19
2	Sc Radial	3176.5	3176.5	94.8 %		10:05:16
2	Y RADIAL	2593.8	2593.8	94.55 %		10:05:16
2	Al 396.153Radial†	-52.0	5.1	11.015 ug/L	11.015 ppb	10:05:16
2	Ca 317.933Radial†	9.0	-0.7	-2.7766 ug/L	-2.7766 ppb	10:05:16
2	Fe 238.204 Radial†	8.2	-0.0	-0.1734 ug/L	-0.1734 ppb	10:05:16
2	K 766.490 Radial†	2048.0	45.7	20.946 ug/L	20.946 ppb	10:04:56
2	Mg 279.077 IEC†	1.4	1.0	95.785 ug/L	95.785 ppb	10:05:16
2	Na 589.592 Radial†	-836.8	-99.9	-33.378 ug/L	-33.378 ppb	10:04:56
2	Sr 421.552†	21.5	-13.0	-0.1292 ug/L	-0.1292 ppb	10:04:56
2	Sc 361.383	813353.9	813353.9	97.437 %		10:06:13
2	Y 371.029	696702.6	696702.6	97.350 %		10:06:13
2	Ag 328.068†	143.9	-11.3	-0.0558 ug/L	-0.0558 ppb	10:06:13
2	As 188.979†	-13.8	1.8	0.9947 ug/L	0.9947 ppb	10:06:33
2	B 249.677†	-195.2	-110.2	-3.0885 ug/L	-3.0885 ppb	10:06:33
2	Ba 233.527†	10.0	17.5	0.1626 ug/L	0.1626 ppb	10:06:33
2	Be 313.107†	-3497.2	23.4	0.0104 ug/L	0.0104 ppb	10:06:13
2	Cd 226.502†	-146.5	-8.8	-0.1278 ug/L	-0.1278 ppb	10:06:33
2	Co 228.616†	-35.7	6.9	0.1788 ug/L	0.1788 ppb	10:06:33
2	Cr 267.716†	76.9	13.2	0.1728 ug/L	0.1728 ppb	10:06:33
2	Cu 324.752†	6154.6	246.0	0.7936 ug/L	0.7936 ppb	10:06:13
2	Mn 257.610†	469.7	92.4	0.1172 ug/L	0.1172 ppb	10:06:33
2	Mo 202.031†	15.1	1.7	0.1501 ug/L	0.1501 ppb	10:06:33
2	Ni 231.604†	78.7	27.7	0.8733 ug/L	0.8733 ppb	10:06:33

2	P 214.914†	174.2	3.4	2.4404 ug/L	2.4404 ppb	10:06:33
2	Pb 220.353†	-51.0	-8.4	-1.3001 ug/L	-1.3001 ppb	10:06:33
2	S 181.975 Axial†	21.7	-8.6	-15.343 ug/L	-15.343 ppb	10:06:33
2	Sb 206.836†	29.3	1.6	0.6310 ug/L	0.6310 ppb	10:06:33
2	Se 196.026†	-32.5	-14.2	-11.524 ug/L	-11.524 ppb	10:06:33
2	Si 251.611†	658.2	223.1	8.2697 ug/L	8.2697 ppb	10:06:33
2	Sn 189.927†	1.4	-6.4	-1.4453 ug/L	-1.4453 ppb	10:06:33
2	Ti 334.940†	-853.4	84.4	0.1367 ug/L	0.1367 ppb	10:06:13
2	Tl 190.801†	-28.5	1.8	0.6887 ug/L	0.6887 ppb	10:06:33
2	U 409.014†	-2058.8	-109.8	-3.2060 ug/L	-3.2060 ppb	10:06:13
2	V 292.402†	-1247.3	-33.3	-0.2627 ug/L	-0.2627 ppb	10:06:13
2	Zn 213.857†	513.4	24.4	0.2897 ug/L	0.2897 ppb	10:06:33
2	SiO2†	676.7	216.0	16.964 ug/L	16.964 ppb	10:07:39
3	Sc Radial	3189.3	3189.3	95.2 %		10:05:41
3	Y RADIAL	2618.4	2618.4	95.45 %		10:05:41
3	Al 396.153Radial†	-53.4	3.9	8.3857 ug/L	8.3857 ppb	10:05:41
3	Ca 317.933Radial†	7.7	-2.2	-8.6240 ug/L	-8.6240 ppb	10:05:41
3	Fe 238.204 Radial†	7.3	-0.9	-25.448 ug/L	-25.448 ppb	10:05:41
3	K 766.490 Radial†	2020.0	7.7	3.5083 ug/L	3.5083 ppb	10:05:21
3	Mg 279.077 IEC†	4.6	4.4	424.36 ug/L	424.36 ppb	10:05:41
3	Na 589.592 Radial†	-773.8	-30.3	-10.130 ug/L	-10.130 ppb	10:05:21
3	Sr 421.552†	-11.4	-47.7	-0.4726 ug/L	-0.4726 ppb	10:05:21
3	Sc 361.383	799769.3	799769.3	95.810 %		10:06:39
3	Y 371.029	684828.4	684828.4	95.691 %		10:06:39
3	Ag 328.068†	128.1	-25.3	-0.1339 ug/L	-0.1339 ppb	10:06:39
3	As 188.979†	-17.4	-2.2	-1.2573 ug/L	-1.2573 ppb	10:06:59
3	B 249.677†	-205.8	-124.6	-3.4892 ug/L	-3.4892 ppb	10:06:59
3	Ba 233.527†	17.7	25.7	0.2393 ug/L	0.2393 ppb	10:06:59
3	Be 313.107†	-3520.6	-62.0	-0.0269 ug/L	-0.0269 ppb	10:06:39
3	Cd 226.502†	-147.1	-12.0	-0.1704 ug/L	-0.1704 ppb	10:06:59
3	Co 228.616†	-50.1	-8.8	-0.2260 ug/L	-0.2260 ppb	10:06:59
3	Cr 267.716†	57.4	-5.8	-0.0760 ug/L	-0.0760 ppb	10:06:59
3	Cu 324.752†	6131.7	329.4	1.0594 ug/L	1.0594 ppb	10:06:39
3	Mn 257.610†	470.9	101.8	0.1135 ug/L	0.1135 ppb	10:06:59
3	Mo 202.031†	17.0	4.0	0.3409 ug/L	0.3409 ppb	10:06:59
3	Ni 231.604†	68.7	18.7	0.5892 ug/L	0.5892 ppb	10:06:59
3	P 214.914†	181.2	13.8	10.265 ug/L	10.265 ppb	10:06:59
3	Pb 220.353†	-51.4	-9.7	-1.4976 ug/L	-1.4976 ppb	10:06:59
3	S 181.975 Axial†	30.4	0.9	1.5606 ug/L	1.5606 ppb	10:06:59
3	Sb 206.836†	32.5	5.4	2.2705 ug/L	2.2705 ppb	10:06:59
3	Se 196.026†	-23.7	-5.5	-4.5496 ug/L	-4.5496 ppb	10:06:59
3	Si 251.611†	642.9	218.6	8.1026 ug/L	8.1026 ppb	10:06:59
3	Sn 189.927†	9.3	1.9	0.4207 ug/L	0.4207 ppb	10:06:59
3	Ti 334.940†	-946.5	-27.6	-0.0821 ug/L	-0.0821 ppb	10:06:39
3	Tl 190.801†	-19.8	10.4	4.0209 ug/L	4.0209 ppb	10:06:59
3	U 409.014†	-1965.4	-48.1	-1.4030 ug/L	-1.4030 ppb	10:06:39
3	V 292.402†	-1174.2	21.2	0.1794 ug/L	0.1794 ppb	10:06:39
3	Zn 213.857†	516.4	36.5	0.4416 ug/L	0.4416 ppb	10:06:59
3	SiO2†	656.3	206.5	16.212 ug/L	16.212 ppb	10:07:59

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804412.5	96.366 %		0.9279			0.96%
Sc Radial	3164.3	94.4 %		0.98			1.04%
Y 371.029	689220.5	96.305 %		0.9100			0.94%
Y RADIAL	2590.4	94.43 %		1.088			1.15%
Ag 328.068†	9.3	0.0457 ug/L		0.24656	0.0457 ppb	0.24656	539.30%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	2.7	5.8232 ug/L		6.84271	5.8232 ppb	6.84271	117.51%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.2	-0.6930 ug/L		1.48806	-0.6930 ppb	1.48806	214.73%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-115.3	-3.2313 ug/L		0.22372	-3.2313 ppb	0.22372	6.92%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	18.1	0.1681 ug/L		0.06861	0.1681 ppb	0.06861	40.82%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-11.1	-0.0047 ug/L		0.01963	-0.0047 ppb	0.01963	421.15%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-1.6	-6.4775 ug/L		3.21870	-6.4775 ppb	3.21870	49.69%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-4.2	-0.0600 ug/L	0.15573	-0.0600 ppb	0.15573	259.42%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.7	-0.0446 ug/L	0.20564	-0.0446 ppb	0.20564	460.77%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	1.5	0.0202 ug/L	0.13363	0.0202 ppb	0.13363	662.80%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	316.8	1.0207 ug/L	0.21040	1.0207 ppb	0.21040	20.61%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.3	-9.2583 ug/L	14.05529	-9.2583 ppb	14.05529	151.81%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	82.3	37.685 ug/L	44.9482	37.685 ppb	44.9482	119.27%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	2.7	261.90 ug/L	164.320	261.90 ppb	164.320	62.74%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	105.4	0.1266 ug/L	0.01953	0.1266 ppb	0.01953	15.43%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.6	0.2243 ug/L	0.10222	0.2243 ppb	0.10222	45.57%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-71.6	-23.920 ug/L	12.2146	-23.920 ppb	12.2146	51.07%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	24.6	0.7770 ug/L	0.16263	0.7770 ppb	0.16263	20.93%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	5.3	3.8115 ug/L	5.88853	3.8115 ppb	5.88853	154.50%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-2.3	-0.3510 ug/L	1.81757	-0.3510 ppb	1.81757	517.79%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-1.6	-2.7852 ug/L	11.04600	-2.7852 ppb	11.04600	396.59%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	2.1	0.8875 ug/L	1.27425	0.8875 ppb	1.27425	143.58%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-5.1	-4.1980 ug/L	7.50809	-4.1980 ppb	7.50809	178.85%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	229.4	8.5012 ug/L	0.55212	8.5012 ppb	0.55212	6.49%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.7	-0.1635 ug/L	1.11156	-0.1635 ppb	1.11156	680.02%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-15.5	-0.1532 ug/L	0.30811	-0.1532 ppb	0.30811	201.11%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	32.4	0.0342 ug/L	0.11002	0.0342 ppb	0.11002	321.82%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.8	1.4939 ug/L	2.23599	1.4939 ppb	2.23599	149.68%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-103.1	-3.0099 ug/L	1.51834	-3.0099 ppb	1.51834	50.45%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-35.4	-0.2723 ug/L	0.45661	-0.2723 ppb	0.45661	167.68%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	31.4	0.3757 ug/L	0.07794	0.3757 ppb	0.07794	20.75%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	213.1	16.730 ug/L	0.4493	16.730 ppb	0.4493	2.69%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/10/2010 10:38:17

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	3379.5	3379.5	101 %		10:40:29
1	Y RADIAL	2743.2	2743.2	100.00 %		10:40:29
1	Al 396.153Radial†	2216.8	2257.8	4828.5 ug/L	4828.5 ppb	10:40:09
1	Ca 317.933Radial†	1277.1	1255.9	4984.3 ug/L	4984.3 ppb	10:40:29
1	Fe 238.204 Radial†	189.8	179.5	5005.5 ug/L	5005.5 ppb	10:40:29
1	K 766.490 Radial†	12686.5	10463.0	4783.4 ug/L	4783.4 ppb	10:40:09
1	Mg 279.077 IEC†	51.8	50.9	4937.1 ug/L	4937.1 ppb	10:40:29
1	Na 589.592 Radial†	28953.9	29487.5	9847.5 ug/L	9847.5 ppb	10:40:09
1	Sr 421.552†	51172.1	50696.4	502.67 ug/L	502.67 ppb	10:40:09
1	Sc 361.383	856718.9	856718.9	102.63 %		10:41:27
1	Y 371.029	724800.2	724800.2	101.28 %		10:41:27
1	Ag 328.068†	101031.8	98281.4	499.60 ug/L	499.60 ppb	10:41:32
1	As 188.979†	891.1	884.3	495.74 ug/L	495.74 ppb	10:41:52
1	B 249.677†	17557.8	17197.7	479.85 ug/L	479.85 ppb	10:41:32
1	Ba 233.527†	53968.2	52591.2	492.41 ug/L	492.41 ppb	10:41:32
1	Be 313.107†	1185388.0	1158596.6	501.11 ug/L	501.11 ppb	10:41:27
1	Cd 226.502†	34837.1	34085.1	492.61 ug/L	492.61 ppb	10:41:32
1	Co 228.616†	19792.0	19327.9	501.33 ug/L	501.33 ppb	10:41:32
1	Cr 267.716†	38782.0	37721.5	492.73 ug/L	492.73 ppb	10:41:32
1	Cu 324.752†	163150.9	152895.8	492.03 ug/L	492.03 ppb	10:41:32
1	Mn 257.610†	389804.6	379416.8	497.49 ug/L	497.49 ppb	10:41:27
1	Mo 202.031†	5860.9	5696.8	492.15 ug/L	492.15 ppb	10:41:52
1	Ni 231.604†	16346.6	15874.3	500.04 ug/L	500.04 ppb	10:41:32
1	P 214.914†	3501.1	3235.9	2361.8 ug/L	2361.8 ppb	10:41:52
1	Pb 220.353†	3233.0	3194.0	495.94 ug/L	495.94 ppb	10:41:52
1	S 181.975 Axial†	590.4	544.4	970.06 ug/L	970.06 ppb	10:41:52
1	Sb 206.836†	1245.1	1184.7	508.61 ug/L	508.61 ppb	10:41:52
1	Se 196.026†	612.1	615.6	517.50 ug/L	517.50 ppb	10:41:52
1	Si 251.611†	68722.2	66507.2	2459.9 ug/L	2459.9 ppb	10:41:32
1	Sn 189.927†	2228.6	2163.6	492.24 ug/L	492.24 ppb	10:41:52
1	Ti 334.940†	290890.5	284389.7	483.22 ug/L	483.22 ppb	10:41:32
1	Tl 190.801†	1286.7	1284.8	501.62 ug/L	501.62 ppb	10:41:52
1	U 409.014†	15742.0	17341.4	504.74 ug/L	504.74 ppb	10:41:32
1	V 292.402†	63418.6	63038.7	498.69 ug/L	498.69 ppb	10:41:32
1	Zn 213.857†	42421.5	40831.0	490.82 ug/L	490.82 ppb	10:41:32
1	SiO2†	69468.2	67208.0	5266.1 ug/L	5266.1 ppb	10:42:59
2	Sc Radial	3338.2	3338.2	99.6 %		10:40:54
2	Y RADIAL	2709.1	2709.1	98.76 %		10:40:54
2	Al 396.153Radial†	2278.3	2346.7	5019.2 ug/L	5019.2 ppb	10:40:34
2	Ca 317.933Radial†	1269.4	1263.8	5015.6 ug/L	5015.6 ppb	10:40:54
2	Fe 238.204 Radial†	186.0	178.0	4963.7 ug/L	4963.7 ppb	10:40:54
2	K 766.490 Radial†	12938.4	10871.4	4970.1 ug/L	4970.1 ppb	10:40:34
2	Mg 279.077 IEC†	52.8	52.5	5096.9 ug/L	5096.9 ppb	10:40:54
2	Na 589.592 Radial†	29941.4	30833.8	10297 ug/L	10297 ppb	10:40:34
2	Sr 421.552†	52859.6	53017.8	525.69 ug/L	525.69 ppb	10:40:34
2	Sc 361.383	843862.0	843862.0	101.09 %		10:41:58
2	Y 371.029	715020.9	715020.9	99.910 %		10:41:58
2	Ag 328.068†	101637.0	100379.9	510.23 ug/L	510.23 ppb	10:42:03
2	As 188.979†	887.9	894.3	501.40 ug/L	501.40 ppb	10:42:23
2	B 249.677†	17778.7	17676.8	493.26 ug/L	493.26 ppb	10:42:03
2	Ba 233.527†	54338.0	53758.2	503.33 ug/L	503.33 ppb	10:42:03
2	Be 313.107†	1169926.6	1160899.3	502.13 ug/L	502.13 ppb	10:41:58
2	Cd 226.502†	35057.5	34820.3	503.25 ug/L	503.25 ppb	10:42:03
2	Co 228.616†	19927.5	19755.7	512.42 ug/L	512.42 ppb	10:42:03
2	Cr 267.716†	39068.8	38581.0	503.95 ug/L	503.95 ppb	10:42:03
2	Cu 324.752†	163832.3	155991.9	501.99 ug/L	501.99 ppb	10:42:03
2	Mn 257.610†	384348.4	379806.3	497.99 ug/L	497.99 ppb	10:41:58
2	Mo 202.031†	5849.2	5772.2	498.66 ug/L	498.66 ppb	10:42:23
2	Ni 231.604†	16399.2	16169.0	509.32 ug/L	509.32 ppb	10:42:03

2	P 214.914†	3500.7	3287.4	2399.1 ug/L	2399.1 ppb	10:42:23
2	Pb 220.353†	3226.2	3235.2	502.39 ug/L	502.39 ppb	10:42:23
2	S 181.975 Axial†	595.5	558.2	994.73 ug/L	994.73 ppb	10:42:23
2	Sb 206.836†	1247.2	1205.3	517.42 ug/L	517.42 ppb	10:42:23
2	Se 196.026†	605.4	618.1	519.47 ug/L	519.47 ppb	10:42:23
2	Si 251.611†	68985.5	67787.8	2507.3 ug/L	2507.3 ppb	10:42:03
2	Sn 189.927†	2238.3	2206.3	501.95 ug/L	501.95 ppb	10:42:23
2	Ti 334.940†	292686.5	290484.6	493.56 ug/L	493.56 ppb	10:42:03
2	Tl 190.801†	1277.3	1294.6	505.45 ug/L	505.45 ppb	10:42:23
2	U 409.014†	15861.5	17693.3	515.00 ug/L	515.00 ppb	10:42:03
2	V 292.402†	63849.4	64406.3	509.47 ug/L	509.47 ppb	10:42:03
2	Zn 213.857†	42519.4	41557.6	499.57 ug/L	499.57 ppb	10:42:03
2	SiO2†	68551.5	67332.4	5275.7 ug/L	5275.7 ppb	10:43:04
3	Sc Radial	3361.5	3361.5	100 %		10:41:19
3	Y RADIAL	2722.7	2722.7	99.25 %		10:41:19
3	Al 396.153Radial†	2282.1	2334.6	4993.6 ug/L	4993.6 ppb	10:40:59
3	Ca 317.933Radial†	1279.4	1265.0	5020.3 ug/L	5020.3 ppb	10:41:19
3	Fe 238.204 Radial†	194.8	185.6	5172.6 ug/L	5172.6 ppb	10:41:19
3	K 766.490 Radial†	12843.7	10686.9	4885.7 ug/L	4885.7 ppb	10:40:59
3	Mg 279.077 IEC†	53.2	52.6	5106.7 ug/L	5106.7 ppb	10:41:19
3	Na 589.592 Radial†	29816.0	30500.2	10186 ug/L	10186 ppb	10:40:59
3	Sr 421.552†	52596.0	52386.8	519.43 ug/L	519.43 ppb	10:40:59
3	Sc 361.383	857599.4	857599.4	102.74 %		10:42:29
3	Y 371.029	726062.6	726062.6	101.45 %		10:42:29
3	Ag 328.068†	101130.6	98276.5	499.63 ug/L	499.63 ppb	10:42:34
3	As 188.979†	896.5	888.5	498.16 ug/L	498.16 ppb	10:42:54
3	B 249.677†	17682.8	17301.8	482.74 ug/L	482.74 ppb	10:42:34
3	Ba 233.527†	54188.8	52751.9	493.91 ug/L	493.91 ppb	10:42:34
3	Be 313.107†	1188203.9	1160151.6	501.78 ug/L	501.78 ppb	10:42:29
3	Cd 226.502†	34978.4	34187.8	494.08 ug/L	494.08 ppb	10:42:34
3	Co 228.616†	19810.3	19325.9	501.28 ug/L	501.28 ppb	10:42:34
3	Cr 267.716†	38849.6	37748.6	493.09 ug/L	493.09 ppb	10:42:34
3	Cu 324.752†	163021.3	152606.4	491.11 ug/L	491.11 ppb	10:42:34
3	Mn 257.610†	390632.7	379832.9	498.04 ug/L	498.04 ppb	10:42:29
3	Mo 202.031†	5866.7	5696.6	492.15 ug/L	492.15 ppb	10:42:54
3	Ni 231.604†	16457.8	15966.2	502.94 ug/L	502.94 ppb	10:42:34
3	P 214.914†	3520.2	3251.0	2373.4 ug/L	2373.4 ppb	10:42:54
3	Pb 220.353†	3251.5	3208.7	498.25 ug/L	498.25 ppb	10:42:54
3	S 181.975 Axial†	592.1	545.5	972.02 ug/L	972.02 ppb	10:42:54
3	Sb 206.836†	1258.4	1196.4	513.50 ug/L	513.50 ppb	10:42:54
3	Se 196.026†	605.0	608.0	511.88 ug/L	511.88 ppb	10:42:54
3	Si 251.611†	68812.5	66526.3	2460.6 ug/L	2460.6 ppb	10:42:34
3	Sn 189.927†	2246.1	2178.4	495.61 ug/L	495.61 ppb	10:42:54
3	Ti 334.940†	291369.9	284565.3	483.51 ug/L	483.51 ppb	10:42:34
3	Tl 190.801†	1291.9	1288.5	503.08 ug/L	503.08 ppb	10:42:54
3	U 409.014†	15694.8	17279.7	502.92 ug/L	502.92 ppb	10:42:34
3	V 292.402†	63570.9	63123.5	499.32 ug/L	499.32 ppb	10:42:34
3	Zn 213.857†	42455.0	40821.2	490.66 ug/L	490.66 ppb	10:42:34
3	SiO2†	69191.3	66869.0	5239.4 ug/L	5239.4 ppb	10:43:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852726.8	102.15 %	0.921			0.90%
Sc Radial	3359.7	100 %	0.6			0.62%
Y 371.029	721961.2	100.88 %	0.844			0.84%
Y RADIAL	2725.0	99.33 %	0.624			0.63%
Ag 328.068†	98979.2	503.16 ug/L	6.125	503.16 ppb	6.125	1.22%
QC value within limits for Ag 328.068 Recovery = 100.63%						
Al 396.153Radial†	2313.0	4947.1 ug/L	103.52	4947.1 ppb	103.52	2.09%
QC value within limits for Al 396.153Radial Recovery = 98.94%						
As 188.979†	889.0	498.43 ug/L	2.838	498.43 ppb	2.838	0.57%
QC value within limits for As 188.979 Recovery = 99.69%						
B 249.677†	17392.1	485.28 ug/L	7.055	485.28 ppb	7.055	1.45%
QC value within limits for B 249.677 Recovery = 97.06%						
Ba 233.527†	53033.7	496.55 ug/L	5.918	496.55 ppb	5.918	1.19%
QC value within limits for Ba 233.527 Recovery = 99.31%						
Be 313.107†	1159882.5	501.67 ug/L	0.517	501.67 ppb	0.517	0.10%
QC value within limits for Be 313.107 Recovery = 100.33%						
Ca 317.933Radial†	1261.6	5006.7 ug/L	19.57	5006.7 ppb	19.57	0.39%

QC value within limits for Ca 317.933 Radial Recovery = 100.13%

Cd 226.502†	34364.4	496.65 ug/L	5.766	496.65 ppb	5.766	1.16%
QC value within limits for Cd 226.502 Recovery = 99.33%						
Co 228.616†	19469.9	505.01 ug/L	6.419	505.01 ppb	6.419	1.27%
QC value within limits for Co 228.616 Recovery = 101.00%						
Cr 267.716†	38017.0	496.59 ug/L	6.376	496.59 ppb	6.376	1.28%
QC value within limits for Cr 267.716 Recovery = 99.32%						
Cu 324.752†	153831.3	495.04 ug/L	6.032	495.04 ppb	6.032	1.22%
QC value within limits for Cu 324.752 Recovery = 99.01%						
Fe 238.204 Radial†	181.0	5047.3 ug/L	110.51	5047.3 ppb	110.51	2.19%
QC value within limits for Fe 238.204 Radial Recovery = 100.95%						
K 766.490 Radial†	10673.8	4879.7 ug/L	93.53	4879.7 ppb	93.53	1.92%
QC value within limits for K 766.490 Radial Recovery = 97.59%						
Mg 279.077 IEC†	52.0	5046.9 ug/L	95.25	5046.9 ppb	95.25	1.89%
QC value within limits for Mg 279.077 IEC Recovery = 100.94%						
Mn 257.610†	379685.3	497.84 ug/L	0.306	497.84 ppb	0.306	0.06%
QC value within limits for Mn 257.610 Recovery = 99.57%						
Mo 202.031†	5721.9	494.32 ug/L	3.758	494.32 ppb	3.758	0.76%
QC value within limits for Mo 202.031 Recovery = 98.86%						
Na 589.592 Radial†	30273.8	10110 ug/L	234.1	10110 ppb	234.1	2.32%
QC value within limits for Na 589.592 Radial Recovery = 101.10%						
Ni 231.604†	16003.2	504.10 ug/L	4.749	504.10 ppb	4.749	0.94%
QC value within limits for Ni 231.604 Recovery = 100.82%						
P 214.914†	3258.1	2378.1 ug/L	19.12	2378.1 ppb	19.12	0.80%
QC value within limits for P 214.914 Recovery = 95.12%						
Pb 220.353†	3212.6	498.86 ug/L	3.270	498.86 ppb	3.270	0.66%
QC value within limits for Pb 220.353 Recovery = 99.77%						
S 181.975 Axial†	549.4	978.94 ug/L	13.713	978.94 ppb	13.713	1.40%
QC value within limits for S 181.975 Axial Recovery = 97.89%						
Sb 206.836†	1195.4	513.18 ug/L	4.417	513.18 ppb	4.417	0.86%
QC value within limits for Sb 206.836 Recovery = 102.64%						
Se 196.026†	613.9	516.28 ug/L	3.942	516.28 ppb	3.942	0.76%
QC value within limits for Se 196.026 Recovery = 103.26%						
Si 251.611†	66940.4	2476.0 ug/L	27.17	2476.0 ppb	27.17	1.10%
QC value within limits for Si 251.611 Recovery = 99.04%						
Sn 189.927†	2182.8	496.60 ug/L	4.928	496.60 ppb	4.928	0.99%
QC value within limits for Sn 189.927 Recovery = 99.32%						
Sr 421.552†	52033.7	515.93 ug/L	11.902	515.93 ppb	11.902	2.31%
QC value within limits for Sr 421.552 Recovery = 103.19%						
Ti 334.940†	286479.9	486.76 ug/L	5.889	486.76 ppb	5.889	1.21%
QC value within limits for Ti 334.940 Recovery = 97.35%						
Tl 190.801†	1289.3	503.38 ug/L	1.930	503.38 ppb	1.930	0.38%
QC value within limits for Tl 190.801 Recovery = 100.68%						
U 409.014†	17438.1	507.55 ug/L	6.511	507.55 ppb	6.511	1.28%
QC value within limits for U 409.014 Recovery = 101.51%						
V 292.402†	63522.8	502.49 ug/L	6.049	502.49 ppb	6.049	1.20%
QC value within limits for V 292.402 Recovery = 100.50%						
Zn 213.857†	41069.9	493.68 ug/L	5.099	493.68 ppb	5.099	1.03%
QC value within limits for Zn 213.857 Recovery = 98.74%						
SiO2†	67136.4	5260.4 ug/L	18.77	5260.4 ppb	18.77	0.36%
QC value within limits for SiO2 Recovery = 98.37%						

All analyte(s) passed QC.

Sequence No.: 15

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/10/2010 10:45:20

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	3187.5	3187.5	95.1 %		10:47:33
1	Y RADIAL	2592.5	2592.5	94.50 %		10:47:33
1	Al 396.153Radial†	-61.7	-4.9	-10.434 ug/L	-10.434 ppb	10:47:33
1	Ca 317.933Radial†	11.7	2.1	8.3309 ug/L	8.3309 ppb	10:47:33
1	Fe 238.204 Radial†	6.3	-2.0	-55.053 ug/L	-55.053 ppb	10:47:33
1	K 766.490 Radial†	2160.4	156.3	71.571 ug/L	71.571 ppb	10:47:13
1	Mg 279.077 IEC†	2.5	2.2	214.45 ug/L	214.45 ppb	10:47:33
1	Na 589.592 Radial†	-762.0	-18.3	-6.1230 ug/L	-6.1230 ppb	10:47:13
1	Sr 421.552†	42.9	9.4	0.0928 ug/L	0.0928 ppb	10:47:13
1	Sc 361.383	810185.2	810185.2	97.058 %		10:48:29
1	Y 371.029	692781.0	692781.0	96.802 %		10:48:29
1	Ag 328.068†	162.3	8.2	0.0258 ug/L	0.0258 ppb	10:48:29
1	As 188.979†	-16.1	-0.6	-0.3543 ug/L	-0.3543 ppb	10:48:49
1	B 249.677†	-247.4	-164.7	-4.6080 ug/L	-4.6080 ppb	10:48:49
1	Ba 233.527†	-0.6	6.6	0.0603 ug/L	0.0603 ppb	10:48:49
1	Be 313.107†	-3597.5	-94.0	-0.0406 ug/L	-0.0406 ppb	10:48:29
1	Cd 226.502†	-142.5	-5.2	-0.0695 ug/L	-0.0695 ppb	10:48:49
1	Co 228.616†	-40.5	1.8	0.0473 ug/L	0.0473 ppb	10:48:49
1	Cr 267.716†	59.2	-4.8	-0.0638 ug/L	-0.0638 ppb	10:48:49
1	Cu 324.752†	6232.3	350.8	1.1263 ug/L	1.1263 ppb	10:48:29
1	Mn 257.610†	474.8	99.5	0.1162 ug/L	0.1162 ppb	10:48:49
1	Mo 202.031†	7.5	-6.0	-0.5262 ug/L	-0.5262 ppb	10:48:49
1	Ni 231.604†	62.5	11.4	0.3584 ug/L	0.3584 ppb	10:48:49
1	P 214.914†	164.3	-6.1	-4.8413 ug/L	-4.8413 ppb	10:48:49
1	Pb 220.353†	-44.5	-1.9	-0.2975 ug/L	-0.2975 ppb	10:48:49
1	S 181.975 Axial†	29.3	-0.6	-1.1471 ug/L	-1.1471 ppb	10:48:49
1	Sb 206.836†	27.3	-0.3	-0.1359 ug/L	-0.1359 ppb	10:48:49
1	Se 196.026†	-24.0	-5.6	-4.6725 ug/L	-4.6725 ppb	10:48:49
1	Si 251.611†	552.4	116.8	4.3359 ug/L	4.3359 ppb	10:48:49
1	Sn 189.927†	7.0	-0.6	-0.1392 ug/L	-0.1392 ppb	10:48:49
1	Ti 334.940†	-941.6	-9.9	-0.0328 ug/L	-0.0328 ppb	10:48:29
1	Tl 190.801†	-31.3	-1.1	-0.4399 ug/L	-0.4399 ppb	10:48:49
1	U 409.014†	-1966.3	-22.8	-0.6590 ug/L	-0.6590 ppb	10:48:29
1	V 292.402†	-1176.0	35.1	0.2775 ug/L	0.2775 ppb	10:48:29
1	Zn 213.857†	529.9	43.5	0.5327 ug/L	0.5327 ppb	10:48:49
1	SiO2†	555.9	94.3	7.4210 ug/L	7.4210 ppb	10:50:00
2	Sc Radial	3163.1	3163.1	94.4 %		10:47:58
2	Y RADIAL	2574.4	2574.4	93.84 %		10:47:58
2	Al 396.153Radial†	-67.0	-11.0	-23.586 ug/L	-23.586 ppb	10:47:58
2	Ca 317.933Radial†	11.8	2.3	9.2414 ug/L	9.2414 ppb	10:47:58
2	Fe 238.204 Radial†	8.3	0.1	3.8976 ug/L	3.8976 ppb	10:47:58
2	K 766.490 Radial†	2124.7	136.1	62.314 ug/L	62.314 ppb	10:47:38
2	Mg 279.077 IEC†	2.5	2.1	208.41 ug/L	208.41 ppb	10:47:58
2	Na 589.592 Radial†	-801.2	-66.0	-22.051 ug/L	-22.051 ppb	10:47:38
2	Sr 421.552†	8.2	-27.0	-0.2677 ug/L	-0.2677 ppb	10:47:38
2	Sc 361.383	818187.8	818187.8	98.017 %		10:48:55
2	Y 371.029	700353.5	700353.5	97.861 %		10:48:55
2	Ag 328.068†	192.7	37.5	0.1902 ug/L	0.1902 ppb	10:48:55
2	As 188.979†	-20.0	-4.4	-2.4544 ug/L	-2.4544 ppb	10:49:15
2	B 249.677†	-235.3	-149.8	-4.2009 ug/L	-4.2009 ppb	10:49:15
2	Ba 233.527†	16.9	24.4	0.2280 ug/L	0.2280 ppb	10:49:15
2	Be 313.107†	-3532.8	8.3	0.0039 ug/L	0.0039 ppb	10:48:55
2	Cd 226.502†	-143.1	-4.4	-0.0636 ug/L	-0.0636 ppb	10:49:15
2	Co 228.616†	-43.1	-0.4	-0.0099 ug/L	-0.0099 ppb	10:49:15
2	Cr 267.716†	65.7	1.3	0.0174 ug/L	0.0174 ppb	10:49:15
2	Cu 324.752†	6227.3	282.9	0.9107 ug/L	0.9107 ppb	10:48:55
2	Mn 257.610†	496.0	116.4	0.1443 ug/L	0.1443 ppb	10:49:15
2	Mo 202.031†	20.0	6.7	0.5767 ug/L	0.5767 ppb	10:49:15
2	Ni 231.604†	77.9	26.5	0.8346 ug/L	0.8346 ppb	10:49:15

2	P 214.914†	171.2	-0.8	-0.7626 ug/L	-0.7626 ppb	10:49:15
2	Pb 220.353†	-52.9	-10.0	-1.5531 ug/L	-1.5531 ppb	10:49:15
2	S 181.975 Axial†	28.5	-1.8	-3.2294 ug/L	-3.2294 ppb	10:49:15
2	Sb 206.836†	32.9	5.1	2.1288 ug/L	2.1288 ppb	10:49:15
2	Se 196.026†	-21.9	-3.2	-2.5763 ug/L	-2.5763 ppb	10:49:15
2	Si 251.611†	579.5	138.8	5.1385 ug/L	5.1385 ppb	10:49:15
2	Sn 189.927†	7.0	-0.6	-0.1446 ug/L	-0.1446 ppb	10:49:15
2	Ti 334.940†	-863.7	79.1	0.1188 ug/L	0.1188 ppb	10:48:55
2	Tl 190.801†	-33.0	-2.6	-1.0210 ug/L	-1.0210 ppb	10:49:15
2	U 409.014†	-1969.3	-5.9	-0.1742 ug/L	-0.1742 ppb	10:48:55
2	V 292.402†	-1242.0	-20.4	-0.1478 ug/L	-0.1478 ppb	10:48:55
2	Zn 213.857†	546.1	54.7	0.6562 ug/L	0.6562 ppb	10:49:15
2	SiO2†	584.6	118.0	9.2535 ug/L	9.2535 ppb	10:50:20
3	Sc Radial	3237.9	3237.9	96.6 %		10:48:23
3	Y RADIAL	2622.3	2622.3	95.59 %		10:48:23
3	Al 396.153Radial†	-63.1	-5.3	-11.392 ug/L	-11.392 ppb	10:48:23
3	Ca 317.933Radial†	8.4	-1.6	-6.2189 ug/L	-6.2189 ppb	10:48:23
3	Fe 238.204 Radial†	7.8	-0.6	-15.910 ug/L	-15.910 ppb	10:48:23
3	K 766.490 Radial†	2263.6	227.8	104.30 ug/L	104.30 ppb	10:48:03
3	Mg 279.077 IEC†	0.1	-0.4	-35.920 ug/L	-35.920 ppb	10:48:23
3	Na 589.592 Radial†	-792.7	-37.6	-12.562 ug/L	-12.562 ppb	10:48:03
3	Sr 421.552†	23.4	-11.5	-0.1139 ug/L	-0.1139 ppb	10:48:03
3	Sc 361.383	810820.6	810820.6	97.134 %		10:49:20
3	Y 371.029	693823.2	693823.2	96.948 %		10:49:20
3	Ag 328.068†	162.9	8.6	0.0409 ug/L	0.0409 ppb	10:49:20
3	As 188.979†	-20.6	-5.2	-2.8998 ug/L	-2.8998 ppb	10:49:40
3	B 249.677†	-267.4	-185.1	-5.1848 ug/L	-5.1848 ppb	10:49:40
3	Ba 233.527†	13.7	21.3	0.1982 ug/L	0.1982 ppb	10:49:40
3	Be 313.107†	-3459.9	50.6	0.0219 ug/L	0.0219 ppb	10:49:20
3	Cd 226.502†	-141.4	-4.0	-0.0557 ug/L	-0.0557 ppb	10:49:40
3	Co 228.616†	-43.8	-1.5	-0.0398 ug/L	-0.0398 ppb	10:49:40
3	Cr 267.716†	74.4	10.9	0.1426 ug/L	0.1426 ppb	10:49:40
3	Cu 324.752†	6194.0	306.3	0.9865 ug/L	0.9865 ppb	10:49:20
3	Mn 257.610†	522.4	148.1	0.1940 ug/L	0.1940 ppb	10:49:40
3	Mo 202.031†	11.8	-1.6	-0.1395 ug/L	-0.1395 ppb	10:49:40
3	Ni 231.604†	72.2	21.3	0.6703 ug/L	0.6703 ppb	10:49:40
3	P 214.914†	177.2	7.1	5.1718 ug/L	5.1718 ppb	10:49:40
3	Pb 220.353†	-45.8	-3.3	-0.5055 ug/L	-0.5055 ppb	10:49:40
3	S 181.975 Axial†	28.9	-1.1	-2.0333 ug/L	-2.0333 ppb	10:49:40
3	Sb 206.836†	31.2	3.6	1.4924 ug/L	1.4924 ppb	10:49:40
3	Se 196.026†	-7.2	11.8	9.5692 ug/L	9.5692 ppb	10:49:40
3	Si 251.611†	557.6	121.6	4.5112 ug/L	4.5112 ppb	10:49:40
3	Sn 189.927†	4.0	-3.7	-0.8393 ug/L	-0.8393 ppb	10:49:40
3	Ti 334.940†	-903.0	30.7	0.0555 ug/L	0.0555 ppb	10:49:20
3	Tl 190.801†	-24.9	5.5	2.1229 ug/L	2.1229 ppb	10:49:40
3	U 409.014†	-2048.8	-106.1	-3.0964 ug/L	-3.0964 ppb	10:49:20
3	V 292.402†	-1219.5	-8.7	-0.0746 ug/L	-0.0746 ppb	10:49:20
3	Zn 213.857†	534.6	48.0	0.5786 ug/L	0.5786 ppb	10:49:40
3	SiO2†	565.0	103.1	8.1062 ug/L	8.1062 ppb	10:50:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813064.5	97.403 %	0.5329			0.55%
Sc Radial	3196.2	95.4 %	1.14			1.19%
Y 371.029	695652.6	97.204 %	0.5735			0.59%
Y RADIAL	2596.4	94.65 %	0.882			0.93%
Ag 328.068†	18.1	0.0856 ug/L	0.09085	0.0856 ppb	0.09085	106.12%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.0	-15.137 ug/L	7.3320	-15.137 ppb	7.3320	48.44%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.4	-1.9028 ug/L	1.35945	-1.9028 ppb	1.35945	71.44%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-166.5	-4.6646 ug/L	0.49442	-4.6646 ppb	0.49442	10.60%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	17.4	0.1622 ug/L	0.08951	0.1622 ppb	0.08951	55.19%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-11.7	-0.0049 ug/L	0.03220	-0.0049 ppb	0.03220	653.32%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.0	3.7845 ug/L	8.67512	3.7845 ppb	8.67512	229.23%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-4.5	-0.0629 ug/L	0.00693	-0.0629 ppb	0.00693	11.02%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.0	-0.0008 ug/L	0.04427	-0.0008 ppb	0.04427	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	2.5	0.0321 ug/L	0.10400	0.0321 ppb	0.10400	324.36%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	313.3	1.0078 ug/L	0.10939	1.0078 ppb	0.10939	10.85%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.8	-22.355 ug/L	29.9994	-22.355 ppb	29.9994	134.19%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	173.4	79.394 ug/L	22.0566	79.394 ppb	22.0566	27.78%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.3	128.98 ug/L	142.840	128.98 ppb	142.840	110.75%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	121.3	0.1515 ug/L	0.03936	0.1515 ppb	0.03936	25.98%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-0.3	-0.0297 ug/L	0.55956	-0.0297 ppb	0.55956	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-40.7	-13.578 ug/L	8.0125	-13.578 ppb	8.0125	59.01%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	19.7	0.6211 ug/L	0.24187	0.6211 ppb	0.24187	38.94%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	0.1	-0.1440 ug/L	5.03512	-0.1440 ppb	5.03512	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.1	-0.7853 ug/L	0.67299	-0.7853 ppb	0.67299	85.69%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-1.2	-2.1366 ug/L	1.04500	-2.1366 ppb	1.04500	48.91%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	2.8	1.1618 ug/L	1.16800	1.1618 ppb	1.16800	100.54%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.0	0.7735 ug/L	7.68908	0.7735 ppb	7.68908	994.07%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	125.7	4.6619 ug/L	0.42201	4.6619 ppb	0.42201	9.05%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-1.7	-0.3744 ug/L	0.40264	-0.3744 ppb	0.40264	107.55%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-9.7	-0.0963 ug/L	0.18092	-0.0963 ppb	0.18092	187.97%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	33.3	0.0472 ug/L	0.07615	0.0472 ppb	0.07615	161.50%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.6	0.2207 ug/L	1.67281	0.2207 ppb	1.67281	758.12%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-44.9	-1.3099 ug/L	1.56607	-1.3099 ppb	1.56607	119.56%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	2.0	0.0184 ug/L	0.22741	0.0184 ppb	0.22741	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	48.7	0.5892 ug/L	0.06244	0.5892 ppb	0.06244	10.60%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	105.1	8.2602 ug/L	0.92590	8.2602 ppb	0.92590	11.21%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

=====
Analysis Begun

Start Time: 3/10/2010 10:55:46

Plasma On Time: 3/8/2010 08:27:38

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\030910B.sif

Batch ID:

Results Data Set: 030910

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 38

Sample ID: 1202042566|952949|1

Date Collected: 3/10/2010 10:55:47

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 1202042566|952949|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3281.5	3281.5	97.9 %		10:58:00
1	Y RADIAL	2667.2	2667.2	97.23 %		10:58:00
1	Al 396.153Radial†	-55.1	3.7	8.0365 ug/L	8.0365 ppb	10:58:00
1	Ca 317.933Radial†	9.7	-0.3	-1.2408 ug/L	-1.2408 ppb	10:58:00
1	Fe 238.204 Radial†	10.1	1.7	47.468 ug/L	47.468 ppb	10:58:00
1	K 766.490 Radial†	2230.4	162.8	74.459 ug/L	74.459 ppb	10:57:40
1	Mg 279.077 IEC†	1.2	0.8	75.666 ug/L	75.666 ppb	10:58:00
1	Na 589.592 Radial†	-429.9	343.7	114.77 ug/L	114.77 ppb	10:57:40
1	Sr 421.552†	68.6	34.4	0.3407 ug/L	0.3407 ppb	10:57:40
1	Sc 361.383	810829.6	810829.6	97.135 %		10:58:56
1	Y 371.029	693126.0	693126.0	96.851 %		10:58:56
1	Ag 328.068†	125.3	-30.1	-0.1391 ug/L	-0.1391 ppb	10:58:56
1	As 188.979†	-18.6	-3.2	-1.7594 ug/L	-1.7594 ppb	10:59:16
1	B 249.677†	-311.6	-230.6	-6.4710 ug/L	-6.4710 ppb	10:59:16
1	Ba 233.527†	9.4	16.9	0.1588 ug/L	0.1588 ppb	10:59:16
1	Be 313.107†	-3615.6	-109.7	-0.0469 ug/L	-0.0469 ppb	10:58:56
1	Cd 226.502†	-147.5	-10.3	-0.1536 ug/L	-0.1536 ppb	10:59:16
1	Co 228.616†	-39.7	2.7	0.0691 ug/L	0.0691 ppb	10:59:16
1	Cr 267.716†	80.2	16.8	0.2205 ug/L	0.2205 ppb	10:59:16
1	Cu 324.752†	6149.4	260.4	0.8399 ug/L	0.8399 ppb	10:58:56
1	Mn 257.610†	475.0	99.3	0.1318 ug/L	0.1318 ppb	10:59:16
1	Mo 202.031†	11.4	-2.0	-0.1702 ug/L	-0.1702 ppb	10:59:16
1	Ni 231.604†	64.7	13.6	0.4286 ug/L	0.4286 ppb	10:59:16
1	P 214.914†	176.2	6.0	4.4736 ug/L	4.4736 ppb	10:59:16
1	Pb 220.353†	-49.3	-6.8	-1.0621 ug/L	-1.0621 ppb	10:59:16
1	S 181.975 Axial†	30.5	0.6	0.9876 ug/L	0.9876 ppb	10:59:16
1	Sb 206.836†	28.9	1.2	0.6982 ug/L	0.6982 ppb	10:59:16
1	Se 196.026†	-16.3	2.4	2.1100 ug/L	2.1100 ppb	10:59:16
1	Si 251.611†	719.2	288.0	10.680 ug/L	10.680 ppb	10:59:16
1	Sn 189.927†	61.7	55.7	12.644 ug/L	12.644 ppb	10:59:16
1	Ti 334.940†	-822.7	113.3	0.1857 ug/L	0.1857 ppb	10:58:56
1	Tl 190.801†	-30.6	-0.5	-0.1725 ug/L	-0.1725 ppb	10:59:16
1	U 409.014†	-1911.7	35.1	1.0177 ug/L	1.0177 ppb	10:58:56
1	V 292.402†	-1236.5	-26.3	-0.2113 ug/L	-0.2113 ppb	10:58:56
1	Zn 213.857†	546.5	60.1	0.7185 ug/L	0.7185 ppb	10:59:16
1	SiO2†	734.3	277.5	21.801 ug/L	21.801 ppb	11:00:27
2	Sc Radial	3273.0	3273.0	97.7 %		10:58:25
2	Y RADIAL	2663.1	2663.1	97.08 %		10:58:25
2	Al 396.153Radial†	-60.8	-2.2	-4.7177 ug/L	-4.7177 ppb	10:58:25
2	Ca 317.933Radial†	14.9	5.0	19.830 ug/L	19.830 ppb	10:58:25
2	Fe 238.204 Radial†	8.7	0.3	8.8339 ug/L	8.8339 ppb	10:58:25
2	K 766.490 Radial†	2061.9	-3.8	-1.7795 ug/L	-1.7795 ppb	10:58:05
2	Mg 279.077 IEC†	2.7	2.4	228.90 ug/L	228.90 ppb	10:58:25
2	Na 589.592 Radial†	-440.6	331.5	110.72 ug/L	110.72 ppb	10:58:05
2	Sr 421.552†	7.9	-27.6	-0.2739 ug/L	-0.2739 ppb	10:58:05
2	Sc 361.383	816354.4	816354.4	97.797 %		10:59:22
2	Y 371.029	698532.4	698532.4	97.606 %		10:59:22

2	Ag 328.068†	154.3	-1.3	-0.0058 ug/L	-0.0058 ppb	10:59:22
2	As 188.979†	-16.3	-0.7	-0.3995 ug/L	-0.3995 ppb	10:59:42
2	B 249.677†	-347.6	-265.2	-7.4351 ug/L	-7.4351 ppb	10:59:42
2	Ba 233.527†	10.7	18.1	0.1690 ug/L	0.1690 ppb	10:59:42
2	Be 313.107†	-3574.6	-42.6	-0.0176 ug/L	-0.0176 ppb	10:59:22
2	Cd 226.502†	-149.8	-11.6	-0.1673 ug/L	-0.1673 ppb	10:59:42
2	Co 228.616†	-47.8	-5.3	-0.1404 ug/L	-0.1404 ppb	10:59:42
2	Cr 267.716†	65.4	1.2	0.0149 ug/L	0.0149 ppb	10:59:42
2	Cu 324.752†	6194.0	263.1	0.8460 ug/L	0.8460 ppb	10:59:22
2	Mn 257.610†	458.8	79.4	0.0956 ug/L	0.0956 ppb	10:59:42
2	Mo 202.031†	1.8	-11.9	-1.0273 ug/L	-1.0273 ppb	10:59:42
2	Ni 231.604†	69.5	18.0	0.5675 ug/L	0.5675 ppb	10:59:42
2	P 214.914†	178.3	6.9	5.2083 ug/L	5.2083 ppb	10:59:42
2	Pb 220.353†	-39.7	3.3	0.5060 ug/L	0.5060 ppb	10:59:42
2	S 181.975 Axial†	31.3	1.2	2.0539 ug/L	2.0539 ppb	10:59:42
2	Sb 206.836†	27.6	-0.3	0.0858 ug/L	0.0858 ppb	10:59:42
2	Se 196.026†	-21.6	-2.8	-2.2931 ug/L	-2.2931 ppb	10:59:42
2	Si 251.611†	714.3	277.9	10.319 ug/L	10.319 ppb	10:59:42
2	Sn 189.927†	69.7	63.4	14.420 ug/L	14.420 ppb	10:59:42
2	Ti 334.940†	-749.4	194.0	0.3128 ug/L	0.3128 ppb	10:59:22
2	Tl 190.801†	-24.3	6.2	2.3989 ug/L	2.3989 ppb	10:59:42
2	U 409.014†	-1892.4	68.1	1.9876 ug/L	1.9876 ppb	10:59:22
2	V 292.402†	-1225.9	-6.8	-0.0611 ug/L	-0.0611 ppb	10:59:22
2	Zn 213.857†	545.5	55.3	0.6654 ug/L	0.6654 ppb	10:59:42
2	SiO2†	720.7	258.5	20.331 ug/L	20.331 ppb	11:00:47
3	Sc Radial	3246.3	3246.3	96.9 %		10:58:50
3	Y RADIAL	2646.9	2646.9	96.49 %		10:58:50
3	Al 396.153Radial†	-68.5	-10.6	-22.853 ug/L	-22.853 ppb	10:58:50
3	Ca 317.933Radial†	6.5	-3.5	-13.916 ug/L	-13.916 ppb	10:58:50
3	Fe 238.204 Radial†	8.5	0.2	4.3612 ug/L	4.3612 ppb	10:58:50
3	K 766.490 Radial†	2120.3	73.9	33.772 ug/L	33.772 ppb	10:58:30
3	Mg 279.077 IEC†	0.6	0.2	20.663 ug/L	20.663 ppb	10:58:50
3	Na 589.592 Radial†	-438.8	329.7	110.11 ug/L	110.11 ppb	10:58:30
3	Sr 421.552†	14.8	-20.4	-0.2026 ug/L	-0.2026 ppb	10:58:30
3	Sc 361.383	799611.9	799611.9	95.791 %		10:59:47
3	Y 371.029	684731.1	684731.1	95.678 %		10:59:47
3	Ag 328.068†	106.3	-48.1	-0.2396 ug/L	-0.2396 ppb	10:59:47
3	As 188.979†	-14.4	0.9	0.4990 ug/L	0.4990 ppb	11:00:07
3	B 249.677†	-335.6	-260.2	-7.2934 ug/L	-7.2934 ppb	11:00:07
3	Ba 233.527†	12.3	20.0	0.1868 ug/L	0.1868 ppb	11:00:07
3	Be 313.107†	-3580.5	-125.3	-0.0540 ug/L	-0.0540 ppb	10:59:47
3	Cd 226.502†	-157.2	-22.6	-0.3274 ug/L	-0.3274 ppb	11:00:07
3	Co 228.616†	-45.3	-3.7	-0.0960 ug/L	-0.0960 ppb	11:00:07
3	Cr 267.716†	70.2	7.6	0.0998 ug/L	0.0998 ppb	11:00:07
3	Cu 324.752†	6198.2	400.0	1.2894 ug/L	1.2894 ppb	10:59:47
3	Mn 257.610†	497.9	130.1	0.1701 ug/L	0.1701 ppb	11:00:07
3	Mo 202.031†	13.5	0.4	0.0314 ug/L	0.0314 ppb	11:00:07
3	Ni 231.604†	59.3	8.9	0.2801 ug/L	0.2801 ppb	11:00:07
3	P 214.914†	173.3	5.5	4.0165 ug/L	4.0165 ppb	11:00:07
3	Pb 220.353†	-41.0	1.1	0.1667 ug/L	0.1667 ppb	11:00:07
3	S 181.975 Axial†	29.0	-0.5	-0.9487 ug/L	-0.9487 ppb	11:00:07
3	Sb 206.836†	26.0	-1.4	-0.3569 ug/L	-0.3569 ppb	11:00:07
3	Se 196.026†	-16.9	1.5	1.2535 ug/L	1.2535 ppb	11:00:07
3	Si 251.611†	728.5	308.1	11.425 ug/L	11.425 ppb	11:00:07
3	Sn 189.927†	64.9	59.9	13.606 ug/L	13.606 ppb	11:00:07
3	Ti 334.940†	-899.0	21.8	0.0348 ug/L	0.0348 ppb	10:59:47
3	Tl 190.801†	-29.3	0.5	0.1825 ug/L	0.1825 ppb	11:00:07
3	U 409.014†	-2023.1	-108.8	-3.1780 ug/L	-3.1780 ppb	10:59:47
3	V 292.402†	-1220.2	-27.0	-0.2171 ug/L	-0.2171 ppb	10:59:47
3	Zn 213.857†	548.6	70.3	0.8484 ug/L	0.8484 ppb	11:00:07
3	SiO2†	742.3	296.4	23.282 ug/L	23.282 ppb	11:01:07

Mean Data: 1202042566|952949|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	808932.0	96.908 %		1.0220			1.05%
Sc Radial	3267.0	97.5 %		0.55			0.56%
Y 371.029	692129.8	96.711 %		0.9717			1.00%
Y RADIAL	2659.1	96.93 %		0.392			0.40%
Ag 328.068†	-26.5	-0.1281 ug/L		0.11730	-0.1281 ppb	0.11730	91.53%

Al 396.153Radial†	-3.0	-6.5116 ug/L	15.52294	-6.5116 ppb	15.52294	238.39%
As 188.979†	-1.0	-0.5533 ug/L	1.13703	-0.5533 ppb	1.13703	205.49%
B 249.677†	-252.0	-7.0665 ug/L	0.52059	-7.0665 ppb	0.52059	7.37%
Ba 233.527†	18.3	0.1715 ug/L	0.01416	0.1715 ppb	0.01416	8.25%
Be 313.107†	-92.5	-0.0395 ug/L	0.01928	-0.0395 ppb	0.01928	48.79%
Ca 317.933Radial†	0.4	1.5578 ug/L	17.04626	1.5578 ppb	17.04626	>999.9%
Cd 226.502†	-14.8	-0.2161 ug/L	0.09666	-0.2161 ppb	0.09666	44.74%
Co 228.616†	-2.1	-0.0558 ug/L	0.11040	-0.0558 ppb	0.11040	197.96%
Cr 267.716†	8.5	0.1117 ug/L	0.10331	0.1117 ppb	0.10331	92.47%
Cu 324.752†	307.8	0.9918 ug/L	0.25779	0.9918 ppb	0.25779	25.99%
Fe 238.204 Radial†	0.7	20.221 ug/L	23.7021	20.221 ppb	23.7021	117.22%
K 766.490 Radial†	77.6	35.484 ug/L	38.1481	35.484 ppb	38.1481	107.51%
Mg 279.077 IEC†	1.1	108.41 ug/L	107.914	108.41 ppb	107.914	99.54%
Mn 257.610†	103.0	0.1325 ug/L	0.03723	0.1325 ppb	0.03723	28.10%
Mo 202.031†	-4.5	-0.3887 ug/L	0.56216	-0.3887 ppb	0.56216	144.63%
Na 589.592 Radial†	335.0	111.86 ug/L	2.533	111.86 ppb	2.533	2.26%
Ni 231.604†	13.5	0.4254 ug/L	0.14375	0.4254 ppb	0.14375	33.79%
P 214.914†	6.1	4.5662 ug/L	0.60122	4.5662 ppb	0.60122	13.17%
Pb 220.353†	-0.8	-0.1298 ug/L	0.82502	-0.1298 ppb	0.82502	635.61%
S 181.975 Axial†	0.4	0.6976 ug/L	1.52218	0.6976 ppb	1.52218	218.20%
Sb 206.836†	-0.1	0.1424 ug/L	0.52980	0.1424 ppb	0.52980	372.06%
Se 196.026†	0.4	0.3568 ug/L	2.33447	0.3568 ppb	2.33447	654.29%
Si 251.611†	291.4	10.808 ug/L	0.5643	10.808 ppb	0.5643	5.22%
Sn 189.927†	59.7	13.557 ug/L	0.8892	13.557 ppb	0.8892	6.56%
Sr 421.552†	-4.6	-0.0452 ug/L	0.33614	-0.0452 ppb	0.33614	742.86%
Ti 334.940†	109.7	0.1778 ug/L	0.13920	0.1778 ppb	0.13920	78.30%
Tl 190.801†	2.1	0.8030 ug/L	1.39349	0.8030 ppb	1.39349	173.54%
U 409.014†	-1.9	-0.0576 ug/L	2.74554	-0.0576 ppb	2.74554	>999.9%
V 292.402†	-20.0	-0.1631 ug/L	0.08845	-0.1631 ppb	0.08845	54.22%
Zn 213.857†	61.9	0.7441 ug/L	0.09414	0.7441 ppb	0.09414	12.65%
SiO2†	277.4	21.805 ug/L	1.4756	21.805 ppb	1.4756	6.77%

Sequence No.: 2

Sample ID: 1202042567|952949|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 3/10/2010 11:03:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042567|952949|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	3211.6	3211.6	95.9 %			11:05:31
1	Y RADIAL	2600.0	2600.0	94.78 %			11:05:31
1	Al 396.153Radial†	2277.7	2436.1	5211.4 ug/L		5211.4 ppb	11:05:11
1	Ca 317.933Radial†	1320.1	1366.9	5424.7 ug/L		5424.7 ppb	11:05:31
1	Fe 238.204 Radial†	195.7	195.5	5448.5 ug/L		5448.5 ppb	11:05:31
1	K 766.490 Radial†	12930.0	11374.3	5202.2 ug/L		5202.2 ppb	11:05:11
1	Mg 279.077 IEC†	55.4	57.3	5564.5 ug/L		5564.5 ppb	11:05:31
1	Na 589.592 Radial†	13919.4	15303.5	5110.7 ug/L		5110.7 ppb	11:05:11
1	Sr 421.552†	51151.2	53325.8	528.74 ug/L		528.74 ppb	11:05:11
1	Sc 361.383	861175.5	861175.5	103.17 %			11:06:28
1	Y 371.029	728509.8	728509.8	101.79 %			11:06:28
1	Ag 328.068†	99672.9	96454.8	490.56 ug/L		490.56 ppb	11:06:33
1	As 188.979†	908.6	896.7	502.85 ug/L		502.85 ppb	11:06:53
1	B 249.677†	17888.5	17429.7	486.29 ug/L		486.29 ppb	11:06:33
1	Ba 233.527†	55862.6	54155.3	507.07 ug/L		507.07 ppb	11:06:33
1	Be 313.107†	1196684.5	1163569.3	503.29 ug/L		503.29 ppb	11:06:28
1	Cd 226.502†	35112.4	34176.3	493.90 ug/L		493.90 ppb	11:06:33
1	Co 228.616†	19815.4	19250.8	499.31 ug/L		499.31 ppb	11:06:33
1	Cr 267.716†	40121.2	38824.1	507.14 ug/L		507.14 ppb	11:06:33
1	Cu 324.752†	170275.8	158979.4	511.62 ug/L		511.62 ppb	11:06:33
1	Mn 257.610†	402995.1	390237.0	511.68 ug/L		511.68 ppb	11:06:28
1	Mo 202.031†	5981.9	5784.5	499.77 ug/L		499.77 ppb	11:06:53
1	Ni 231.604†	17022.0	16446.5	518.08 ug/L		518.08 ppb	11:06:33
1	P 214.914†	964.0	759.0	476.60 ug/L		476.60 ppb	11:06:53
1	Pb 220.353†	3255.6	3199.6	496.85 ug/L		496.85 ppb	11:06:53
1	S 181.975 Axial†	2952.4	2831.0	5048.4 ug/L		5048.4 ppb	11:06:53
1	Sb 206.836†	1349.4	1279.5	548.39 ug/L		548.39 ppb	11:06:53
1	Se 196.026†	634.4	634.2	533.97 ug/L		533.97 ppb	11:06:53
1	Si 251.611†	139729.1	134988.3	4999.0 ug/L		4999.0 ppb	11:06:33
1	Sn 189.927†	2337.5	2257.9	513.73 ug/L		513.73 ppb	11:06:53
1	Ti 334.940†	301037.9	292758.9	497.43 ug/L		497.43 ppb	11:06:33
1	Tl 190.801†	1334.6	1324.7	517.25 ug/L		517.25 ppb	11:06:53
1	U 409.014†	16859.4	18345.2	533.97 ug/L		533.97 ppb	11:06:33
1	V 292.402†	66110.5	65328.2	516.65 ug/L		516.65 ppb	11:06:33
1	Zn 213.857†	43557.3	41718.0	501.38 ug/L		501.38 ppb	11:06:33
1	SiO2†	141526.5	136704.4	10725 ug/L		10725 ppb	11:08:01
2	Sc Radial	3307.9	3307.9	98.7 %			11:05:56
2	Y RADIAL	2675.0	2675.0	97.51 %			11:05:56
2	Al 396.153Radial†	2335.1	2425.2	5187.6 ug/L		5187.6 ppb	11:05:36
2	Ca 317.933Radial†	1284.1	1290.4	5121.2 ug/L		5121.2 ppb	11:05:56
2	Fe 238.204 Radial†	187.3	181.1	5049.0 ug/L		5049.0 ppb	11:05:56
2	K 766.490 Radial†	13105.1	11159.2	5103.8 ug/L		5103.8 ppb	11:05:36
2	Mg 279.077 IEC†	53.4	53.7	5206.9 ug/L		5206.9 ppb	11:05:56
2	Na 589.592 Radial†	14383.5	15351.1	5126.6 ug/L		5126.6 ppb	11:05:36
2	Sr 421.552†	52898.7	53543.4	530.90 ug/L		530.90 ppb	11:05:36
2	Sc 361.383	850656.2	850656.2	101.91 %			11:06:59
2	Y 371.029	719380.1	719380.1	100.52 %			11:06:59
2	Ag 328.068†	99290.7	97274.4	494.59 ug/L		494.59 ppb	11:07:04
2	As 188.979†	897.5	896.7	502.78 ug/L		502.78 ppb	11:07:24
2	B 249.677†	17896.3	17651.8	492.56 ug/L		492.56 ppb	11:07:04
2	Ba 233.527†	55597.3	54564.5	510.89 ug/L		510.89 ppb	11:07:04
2	Be 313.107†	1184641.3	1166095.5	504.39 ug/L		504.39 ppb	11:06:59
2	Cd 226.502†	34930.9	34419.1	497.46 ug/L		497.46 ppb	11:07:04
2	Co 228.616†	19767.3	19441.1	504.26 ug/L		504.26 ppb	11:07:04
2	Cr 267.716†	40025.3	39210.9	512.17 ug/L		512.17 ppb	11:07:04
2	Cu 324.752†	169468.0	160227.7	515.61 ug/L		515.61 ppb	11:07:04
2	Mn 257.610†	400211.7	392336.2	514.41 ug/L		514.41 ppb	11:06:59
2	Mo 202.031†	5964.4	5839.1	504.44 ug/L		504.44 ppb	11:07:24
2	Ni 231.604†	16964.1	16593.8	522.72 ug/L		522.72 ppb	11:07:04

2	P 214.914†	957.3	764.0	479.98 ug/L	479.98 ppb	11:07:24
2	Pb 220.353†	3276.1	3258.8	506.07 ug/L	506.07 ppb	11:07:24
2	S 181.975 Axial†	2942.3	2856.4	5093.7 ug/L	5093.7 ppb	11:07:24
2	Sb 206.836†	1353.0	1299.2	556.73 ug/L	556.73 ppb	11:07:24
2	Se 196.026†	628.8	636.2	534.56 ug/L	534.56 ppb	11:07:24
2	Si 251.611†	139162.7	136107.3	5040.4 ug/L	5040.4 ppb	11:07:04
2	Sn 189.927†	2333.1	2281.6	519.08 ug/L	519.08 ppb	11:07:24
2	Ti 334.940†	300004.7	295353.5	501.82 ug/L	501.82 ppb	11:07:04
2	Tl 190.801†	1326.6	1332.8	520.44 ug/L	520.44 ppb	11:07:24
2	U 409.014†	16995.6	18680.9	543.81 ug/L	543.81 ppb	11:07:04
2	V 292.402†	65877.0	65891.6	521.18 ug/L	521.18 ppb	11:07:04
2	Zn 213.857†	43347.7	42034.5	505.24 ug/L	505.24 ppb	11:07:04
2	SiO2†	141651.5	138523.5	10868 ug/L	10868 ppb	11:08:06
3	Sc Radial	3360.3	3360.3	100 %		11:06:21
3	Y RADIAL	2712.7	2712.7	98.88 %		11:06:21
3	Al 396.153Radial†	2292.5	2345.8	5016.9 ug/L	5016.9 ppb	11:06:01
3	Ca 317.933Radial†	1298.2	1284.1	5096.3 ug/L	5096.3 ppb	11:06:21
3	Fe 238.204 Radial†	190.9	181.7	5064.6 ug/L	5064.6 ppb	11:06:21
3	K 766.490 Radial†	13044.7	10892.0	4981.6 ug/L	4981.6 ppb	11:06:01
3	Mg 279.077 IEC†	55.0	54.4	5277.6 ug/L	5277.6 ppb	11:06:21
3	Na 589.592 Radial†	13944.3	14686.0	4904.5 ug/L	4904.5 ppb	11:06:01
3	Sr 421.552†	51571.0	51384.0	509.49 ug/L	509.49 ppb	11:06:01
3	Sc 361.383	850604.7	850604.7	101.90 %		11:07:30
3	Y 371.029	719476.0	719476.0	100.53 %		11:07:30
3	Ag 328.068†	99177.2	97168.9	494.06 ug/L	494.06 ppb	11:07:35
3	As 188.979†	902.6	901.7	505.59 ug/L	505.59 ppb	11:07:55
3	B 249.677†	17877.0	17633.9	492.06 ug/L	492.06 ppb	11:07:35
3	Ba 233.527†	55694.8	54663.5	511.81 ug/L	511.81 ppb	11:07:35
3	Be 313.107†	1180967.4	1162560.5	502.86 ug/L	502.86 ppb	11:07:30
3	Cd 226.502†	35067.7	34555.5	499.43 ug/L	499.43 ppb	11:07:35
3	Co 228.616†	19787.1	19461.7	504.79 ug/L	504.79 ppb	11:07:35
3	Cr 267.716†	40029.7	39217.6	512.26 ug/L	512.26 ppb	11:07:35
3	Cu 324.752†	169286.9	160060.0	515.07 ug/L	515.07 ppb	11:07:35
3	Mn 257.610†	399290.3	391455.8	513.25 ug/L	513.25 ppb	11:07:30
3	Mo 202.031†	5980.8	5855.5	505.86 ug/L	505.86 ppb	11:07:55
3	Ni 231.604†	16948.2	16579.2	522.25 ug/L	522.25 ppb	11:07:35
3	P 214.914†	966.7	773.2	487.05 ug/L	487.05 ppb	11:07:55
3	Pb 220.353†	3259.0	3242.2	503.46 ug/L	503.46 ppb	11:07:55
3	S 181.975 Axial†	2936.4	2850.8	5083.9 ug/L	5083.9 ppb	11:07:55
3	Sb 206.836†	1349.6	1296.0	555.48 ug/L	555.48 ppb	11:07:55
3	Se 196.026†	622.5	630.1	529.54 ug/L	529.54 ppb	11:07:55
3	Si 251.611†	139072.7	136027.3	5037.4 ug/L	5037.4 ppb	11:07:35
3	Sn 189.927†	2344.2	2292.6	521.58 ug/L	521.58 ppb	11:07:55
3	Ti 334.940†	300383.4	295743.0	502.48 ug/L	502.48 ppb	11:07:35
3	Tl 190.801†	1313.0	1319.6	515.31 ug/L	515.31 ppb	11:07:55
3	U 409.014†	16918.1	18605.8	541.61 ug/L	541.61 ppb	11:07:35
3	V 292.402†	65885.5	65903.8	521.29 ug/L	521.29 ppb	11:07:35
3	Zn 213.857†	43404.0	42092.3	505.94 ug/L	505.94 ppb	11:07:35
3	SiO2†	140477.5	137379.8	10778 ug/L	10778 ppb	11:08:11

Mean Data: 1202042567|952949|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854145.4	102.32 %	0.729			0.71%
Sc Radial	3293.3	98.3 %	2.25			2.29%
Y 371.029	722455.3	100.95 %	0.733			0.73%
Y RADIAL	2662.5	97.06 %	2.091			2.15%
Ag 328.068†	96966.0	493.07 ug/L	2.192	493.07 ppb	2.192	0.44%
Al 396.153Radial†	2402.3	5138.6 ug/L	106.10	5138.6 ppb	106.10	2.06%
As 188.979†	898.3	503.74 ug/L	1.603	503.74 ppb	1.603	0.32%
B 249.677†	17571.8	490.30 ug/L	3.487	490.30 ppb	3.487	0.71%
Ba 233.527†	54461.1	509.92 ug/L	2.515	509.92 ppb	2.515	0.49%
Be 313.107†	1164075.1	503.51 ug/L	0.787	503.51 ppb	0.787	0.16%
Ca 317.933Radial†	1313.8	5214.0 ug/L	182.86	5214.0 ppb	182.86	3.51%
Cd 226.502†	34383.6	496.93 ug/L	2.800	496.93 ppb	2.800	0.56%
Co 228.616†	19384.5	502.79 ug/L	3.021	502.79 ppb	3.021	0.60%
Cr 267.716†	39084.2	510.53 ug/L	2.931	510.53 ppb	2.931	0.57%
Cu 324.752†	159755.7	514.10 ug/L	2.166	514.10 ppb	2.166	0.42%
Fe 238.204 Radial†	186.1	5187.4 ug/L	226.30	5187.4 ppb	226.30	4.36%
K 766.490 Radial†	11141.8	5095.9 ug/L	110.51	5095.9 ppb	110.51	2.17%

Mg 279.077 IEC†	55.1	5349.7 ug/L	189.34	5349.7 ppb	189.34	3.54%
Mn 257.610†	391343.0	513.12 ug/L	1.368	513.12 ppb	1.368	0.27%
Mo 202.031†	5826.4	503.36 ug/L	3.191	503.36 ppb	3.191	0.63%
Na 589.592 Radial†	15113.5	5047.3 ug/L	123.92	5047.3 ppb	123.92	2.46%
Ni 231.604†	16539.8	521.02 ug/L	2.555	521.02 ppb	2.555	0.49%
P 214.914†	765.4	481.21 ug/L	5.333	481.21 ppb	5.333	1.11%
Pb 220.353†	3233.5	502.13 ug/L	4.756	502.13 ppb	4.756	0.95%
S 181.975 Axial†	2846.1	5075.3 ug/L	23.83	5075.3 ppb	23.83	0.47%
Sb 206.836†	1291.6	553.53 ug/L	4.494	553.53 ppb	4.494	0.81%
Se 196.026†	633.5	532.69 ug/L	2.742	532.69 ppb	2.742	0.51%
Si 251.611†	135707.6	5025.6 ug/L	23.11	5025.6 ppb	23.11	0.46%
Sn 189.927†	2277.4	518.13 ug/L	4.013	518.13 ppb	4.013	0.77%
Sr 421.552†	52751.1	523.04 ug/L	11.789	523.04 ppb	11.789	2.25%
Ti 334.940†	294618.5	500.58 ug/L	2.744	500.58 ppb	2.744	0.55%
Tl 190.801†	1325.7	517.67 ug/L	2.591	517.67 ppb	2.591	0.50%
U 409.014†	18543.9	539.80 ug/L	5.164	539.80 ppb	5.164	0.96%
V 292.402†	65707.9	519.70 ug/L	2.646	519.70 ppb	2.646	0.51%
Zn 213.857†	41948.3	504.19 ug/L	2.459	504.19 ppb	2.459	0.49%
SiO2†	137535.9	10790 ug/L	72.2	10790 ppb	72.2	0.67%

Sequence No.: 4

Sample ID: 246871001|952949|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 41

Date Collected: 3/10/2010 11:17:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246871001|952949|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3297.6	3297.6	98.4 %		11:19:22
1	Y RADIAL	2676.4	2676.4	97.56 %		11:19:22
1	Al 396.153Radial†	-40.4	19.0	40.790 ug/L	40.790 ppb	11:19:22
1	Ca 317.933Radial†	29.5	19.7	78.242 ug/L	78.242 ppb	11:19:22
1	Fe 238.204 Radial†	9.3	0.8	23.333 ug/L	23.333 ppb	11:19:22
1	K 766.490 Radial†	2542.0	468.3	214.25 ug/L	214.25 ppb	11:19:01
1	Mg 279.077 IEC†	3.8	3.4	332.52 ug/L	332.52 ppb	11:19:22
1	Na 589.592 Radial†	-31.9	750.2	250.53 ug/L	250.53 ppb	11:19:01
1	Sr 421.552†	81.4	47.0	0.4658 ug/L	0.4658 ppb	11:19:01
1	Sc 361.383	818992.3	818992.3	98.113 %		11:20:18
1	Y 371.029	700403.0	700403.0	97.867 %		11:20:18
1	Ag 328.068†	70.0	-87.7	-0.4372 ug/L	-0.4372 ppb	11:20:18
1	As 188.979†	-16.7	-1.1	-0.5807 ug/L	-0.5807 ppb	11:20:38
1	B 249.677†	616.9	718.9	20.150 ug/L	20.150 ppb	11:20:38
1	Ba 233.527†	76.1	84.7	0.7917 ug/L	0.7917 ppb	11:20:38
1	Be 313.107†	-3634.9	-92.2	-0.0375 ug/L	-0.0375 ppb	11:20:18
1	Cd 226.502†	-149.0	-10.3	-0.1503 ug/L	-0.1503 ppb	11:20:38
1	Co 228.616†	-47.3	-4.7	-0.1242 ug/L	-0.1242 ppb	11:20:38
1	Cr 267.716†	94.5	30.6	0.3994 ug/L	0.3994 ppb	11:20:38
1	Cu 324.752†	7385.7	1457.3	4.6913 ug/L	4.6913 ppb	11:20:18
1	Mn 257.610†	1696.2	1339.1	1.7435 ug/L	1.7435 ppb	11:20:38
1	Mo 202.031†	12.0	-1.5	-0.1268 ug/L	-0.1268 ppb	11:20:38
1	Ni 231.604†	73.8	22.2	0.6996 ug/L	0.6996 ppb	11:20:38
1	P 214.914†	185.7	13.9	9.5989 ug/L	9.5989 ppb	11:20:38
1	Pb 220.353†	-50.9	-7.9	-1.2262 ug/L	-1.2262 ppb	11:20:38
1	S 181.975 Axial†	44.2	14.2	25.314 ug/L	25.314 ppb	11:20:38
1	Sb 206.836†	24.8	-3.2	-1.3522 ug/L	-1.3522 ppb	11:20:38
1	Se 196.026†	-15.3	3.7	3.0643 ug/L	3.0643 ppb	11:20:38
1	Si 251.611†	42525.0	42890.5	1590.3 ug/L	1590.3 ppb	11:20:18
1	Sn 189.927†	0.4	-7.4	-1.6627 ug/L	-1.6627 ppb	11:20:38
1	Ti 334.940†	-343.3	610.3	1.0206 ug/L	1.0206 ppb	11:20:18
1	Tl 190.801†	-27.6	2.9	1.1447 ug/L	1.1447 ppb	11:20:38
1	U 409.014†	-1969.0	-3.7	-0.1130 ug/L	-0.1130 ppb	11:20:18
1	V 292.402†	-1237.3	-14.3	-0.1121 ug/L	-0.1121 ppb	11:20:18
1	Zn 213.857†	850.7	364.6	4.4096 ug/L	4.4096 ppb	11:20:38
1	SiO2†	42409.8	42747.1	3358.0 ug/L	3358.0 ppb	11:21:34
2	Sc Radial	3274.4	3274.4	97.7 %		11:19:47
2	Y RADIAL	2678.9	2678.9	97.65 %		11:19:47
2	Al 396.153Radial†	-47.6	11.3	24.343 ug/L	24.343 ppb	11:19:47
2	Ca 317.933Radial†	31.5	22.0	87.287 ug/L	87.287 ppb	11:19:47
2	Fe 238.204 Radial†	8.7	0.3	7.1278 ug/L	7.1278 ppb	11:19:47
2	K 766.490 Radial†	2680.8	628.6	287.64 ug/L	287.64 ppb	11:19:27
2	Mg 279.077 IEC†	-0.1	-0.5	-50.579 ug/L	-50.579 ppb	11:19:47
2	Na 589.592 Radial†	-104.4	675.8	225.69 ug/L	225.69 ppb	11:19:27
2	Sr 421.552†	53.1	18.6	0.1839 ug/L	0.1839 ppb	11:19:27
2	Sc 361.383	832611.1	832611.1	99.744 %		11:20:44
2	Y 371.029	711544.5	711544.5	99.424 %		11:20:44
2	Ag 328.068†	140.3	-18.4	-0.0926 ug/L	-0.0926 ppb	11:20:44
2	As 188.979†	-15.5	0.4	0.2328 ug/L	0.2328 ppb	11:21:04
2	B 249.677†	598.7	690.5	19.355 ug/L	19.355 ppb	11:21:04
2	Ba 233.527†	87.0	94.4	0.8828 ug/L	0.8828 ppb	11:21:04
2	Be 313.107†	-3573.9	29.5	0.0151 ug/L	0.0151 ppb	11:20:44
2	Cd 226.502†	-145.4	-4.2	-0.0601 ug/L	-0.0601 ppb	11:21:04
2	Co 228.616†	-45.2	-1.8	-0.0467 ug/L	-0.0467 ppb	11:21:04
2	Cr 267.716†	96.1	30.6	0.3995 ug/L	0.3995 ppb	11:21:04
2	Cu 324.752†	7433.2	1381.8	4.4463 ug/L	4.4463 ppb	11:20:44
2	Mn 257.610†	1717.1	1331.8	1.7480 ug/L	1.7480 ppb	11:21:04
2	Mo 202.031†	17.9	4.2	0.3630 ug/L	0.3630 ppb	11:21:04
2	Ni 231.604†	93.6	40.8	1.2872 ug/L	1.2872 ppb	11:21:04

2	P 214.914†	187.3	12.4	8.5270 ug/L	8.5270 ppb	11:21:04
2	Pb 220.353†	-42.6	1.3	0.1991 ug/L	0.1991 ppb	11:21:04
2	S 181.975 Axial†	40.3	9.6	17.065 ug/L	17.065 ppb	11:21:04
2	Sb 206.836†	22.1	-6.3	-2.6302 ug/L	-2.6302 ppb	11:21:04
2	Se 196.026†	-14.5	4.7	3.8538 ug/L	3.8538 ppb	11:21:04
2	Si 251.611†	43314.1	42972.7	1593.4 ug/L	1593.4 ppb	11:20:44
2	Sn 189.927†	-1.9	-9.8	-2.2061 ug/L	-2.2061 ppb	11:21:04
2	Ti 334.940†	-344.7	614.7	1.0596 ug/L	1.0596 ppb	11:20:44
2	Tl 190.801†	-24.0	7.0	2.7306 ug/L	2.7306 ppb	11:21:04
2	U 409.014†	-1934.2	64.0	1.8677 ug/L	1.8677 ppb	11:20:44
2	V 292.402†	-1212.2	31.5	0.2512 ug/L	0.2512 ppb	11:20:44
2	Zn 213.857†	849.6	349.4	4.2236 ug/L	4.2236 ppb	11:21:04
2	SiO2†	43178.6	42810.8	3362.9 ug/L	3362.9 ppb	11:21:39
3	Sc Radial	3323.5	3323.5	99.2 %		11:20:12
3	Y RADIAL	2705.7	2705.7	98.63 %		11:20:12
3	Al 396.153Radial†	-40.1	19.6	42.066 ug/L	42.066 ppb	11:20:12
3	Ca 317.933Radial†	26.2	16.2	64.334 ug/L	64.334 ppb	11:20:12
3	Fe 238.204 Radial†	9.0	0.4	11.768 ug/L	11.768 ppb	11:20:12
3	K 766.490 Radial†	2497.9	403.7	184.68 ug/L	184.68 ppb	11:19:52
3	Mg 279.077 IEC†	2.2	1.8	176.44 ug/L	176.44 ppb	11:20:12
3	Na 589.592 Radial†	12.0	794.7	265.38 ug/L	265.38 ppb	11:19:52
3	Sr 421.552†	57.5	22.3	0.2209 ug/L	0.2209 ppb	11:19:52
3	Sc 361.383	807447.3	807447.3	96.730 %		11:21:09
3	Y 371.029	689478.7	689478.7	96.341 %		11:21:09
3	Ag 328.068†	165.9	12.4	0.0708 ug/L	0.0708 ppb	11:21:09
3	As 188.979†	-18.1	-2.7	-1.5115 ug/L	-1.5115 ppb	11:21:29
3	B 249.677†	602.5	713.0	19.987 ug/L	19.987 ppb	11:21:29
3	Ba 233.527†	65.9	75.3	0.7042 ug/L	0.7042 ppb	11:21:29
3	Be 313.107†	-3597.1	-106.2	-0.0437 ug/L	-0.0437 ppb	11:21:09
3	Cd 226.502†	-136.8	0.1	-0.0003 ug/L	-0.0003 ppb	11:21:29
3	Co 228.616†	-45.7	-3.6	-0.0959 ug/L	-0.0959 ppb	11:21:29
3	Cr 267.716†	64.2	0.6	0.0110 ug/L	0.0110 ppb	11:21:29
3	Cu 324.752†	7363.8	1542.3	4.9676 ug/L	4.9676 ppb	11:21:09
3	Mn 257.610†	1703.9	1371.8	1.7916 ug/L	1.7916 ppb	11:21:29
3	Mo 202.031†	16.1	2.8	0.2453 ug/L	0.2453 ppb	11:21:29
3	Ni 231.604†	65.2	14.4	0.4534 ug/L	0.4534 ppb	11:21:29
3	P 214.914†	181.4	12.1	8.2049 ug/L	8.2049 ppb	11:21:29
3	Pb 220.353†	-45.7	-3.3	-0.5050 ug/L	-0.5050 ppb	11:21:29
3	S 181.975 Axial†	48.9	19.7	35.156 ug/L	35.156 ppb	11:21:29
3	Sb 206.836†	24.7	-2.9	-1.2367 ug/L	-1.2367 ppb	11:21:29
3	Se 196.026†	-15.2	3.5	2.8692 ug/L	2.8692 ppb	11:21:29
3	Si 251.611†	42126.1	43097.9	1598.0 ug/L	1598.0 ppb	11:21:09
3	Sn 189.927†	2.4	-5.4	-1.2150 ug/L	-1.2150 ppb	11:21:29
3	Ti 334.940†	-398.1	548.7	0.9296 ug/L	0.9296 ppb	11:21:09
3	Tl 190.801†	-21.5	8.8	3.4353 ug/L	3.4353 ppb	11:21:29
3	U 409.014†	-2144.7	-214.0	-6.2519 ug/L	-6.2519 ppb	11:21:09
3	V 292.402†	-1195.7	10.6	0.0749 ug/L	0.0749 ppb	11:21:09
3	Zn 213.857†	845.3	371.4	4.4947 ug/L	4.4947 ppb	11:21:29
3	SiO2†	43523.3	44516.3	3496.9 ug/L	3496.9 ppb	11:21:45

Mean Data: 246871001|952949|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	819683.6	98.196 %	1.5090			1.54%
Sc Radial	3298.5	98.5 %	0.73			0.74%
Y 371.029	700475.4	97.878 %	1.5417			1.58%
Y RADIAL	2687.0	97.95 %	0.591			0.60%
Ag 328.068†	-31.2	-0.1530 ug/L	0.25937	-0.1530 ppb	0.25937	169.52%
Al 396.153Radial†	16.6	35.733 ug/L	9.8847	35.733 ppb	9.8847	27.66%
As 188.979†	-1.1	-0.6198 ug/L	0.87282	-0.6198 ppb	0.87282	140.82%
B 249.677†	707.5	19.831 ug/L	0.4201	19.831 ppb	0.4201	2.12%
Ba 233.527†	84.8	0.7929 ug/L	0.08928	0.7929 ppb	0.08928	11.26%
Be 313.107†	-56.3	-0.0220 ug/L	0.03228	-0.0220 ppb	0.03228	146.61%
Ca 317.933Radial†	19.3	76.621 ug/L	11.5620	76.621 ppb	11.5620	15.09%
Cd 226.502†	-4.8	-0.0702 ug/L	0.07549	-0.0702 ppb	0.07549	107.49%
Co 228.616†	-3.4	-0.0889 ug/L	0.03918	-0.0889 ppb	0.03918	44.05%
Cr 267.716†	20.6	0.2700 ug/L	0.22425	0.2700 ppb	0.22425	83.06%
Cu 324.752†	1460.5	4.7017 ug/L	0.26079	4.7017 ppb	0.26079	5.55%
Fe 238.204 Radial†	0.5	14.076 ug/L	8.3454	14.076 ppb	8.3454	59.29%
K 766.490 Radial†	500.2	228.86 ug/L	53.013	228.86 ppb	53.013	23.16%

Mg 279.077 IEC†	1.6	152.79 ug/L	192.641	152.79 ppb	192.641	126.08%
Mn 257.610†	1347.6	1.7611 ug/L	0.02656	1.7611 ppb	0.02656	1.51%
Mo 202.031†	1.8	0.1605 ug/L	0.25566	0.1605 ppb	0.25566	159.31%
Na 589.592 Radial†	740.2	247.20 ug/L	20.054	247.20 ppb	20.054	8.11%
Ni 231.604†	25.8	0.8134 ug/L	0.42840	0.8134 ppb	0.42840	52.67%
P 214.914†	12.8	8.7769 ug/L	0.72986	8.7769 ppb	0.72986	8.32%
Pb 220.353†	-3.3	-0.5107 ug/L	0.71265	-0.5107 ppb	0.71265	139.55%
S 181.975 Axial†	14.5	25.845 ug/L	9.0572	25.845 ppb	9.0572	35.04%
Sb 206.836†	-4.1	-1.7397 ug/L	0.77331	-1.7397 ppb	0.77331	44.45%
Se 196.026†	3.9	3.2624 ug/L	0.52133	3.2624 ppb	0.52133	15.98%
Si 251.611†	42987.0	1593.9 ug/L	3.87	1593.9 ppb	3.87	0.24%
Sn 189.927†	-7.5	-1.6946 ug/L	0.49631	-1.6946 ppb	0.49631	29.29%
Sr 421.552†	29.3	0.2902 ug/L	0.15320	0.2902 ppb	0.15320	52.78%
Ti 334.940†	591.3	1.0033 ug/L	0.06670	1.0033 ppb	0.06670	6.65%
Tl 190.801†	6.2	2.4369 ug/L	1.17320	2.4369 ppb	1.17320	48.14%
U 409.014†	-51.3	-1.4991 ug/L	4.23354	-1.4991 ppb	4.23354	282.41%
V 292.402†	9.3	0.0713 ug/L	0.18169	0.0713 ppb	0.18169	254.69%
Zn 213.857†	361.8	4.3759 ug/L	0.13860	4.3759 ppb	0.13860	3.17%
SiO2†	43358.0	3405.9 ug/L	78.83	3405.9 ppb	78.83	2.31%

Sequence No.: 6

Sample ID: 1202042568|952949|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 43

Date Collected: 3/10/2010 11:31:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042568|952949|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3251.8	3251.8	97.1 %		11:33:40
1	Y RADIAL	2642.8	2642.8	96.34 %		11:33:40
1	Al 396.153Radial†	-49.1	9.4	20.268 ug/L	20.268 ppb	11:33:40
1	Ca 317.933Radial†	15.0	5.2	20.718 ug/L	20.718 ppb	11:33:40
1	Fe 238.204 Radial†	9.4	1.1	29.660 ug/L	29.660 ppb	11:33:40
1	K 766.490 Radial†	2103.5	52.9	24.178 ug/L	24.178 ppb	11:33:20
1	Mg 279.077 IEC†	0.2	-0.2	-19.379 ug/L	-19.379 ppb	11:33:40
1	Na 589.592 Radial†	-669.3	93.0	31.052 ug/L	31.052 ppb	11:33:20
1	Sr 421.552†	68.1	34.5	0.3415 ug/L	0.3415 ppb	11:33:20
1	Sc 361.383	814085.8	814085.8	97.525 %		11:34:37
1	Y 371.029	695579.5	695579.5	97.194 %		11:34:37
1	Ag 328.068†	118.6	-37.4	-0.1753 ug/L	-0.1753 ppb	11:34:37
1	As 188.979†	-21.9	-6.5	-3.5753 ug/L	-3.5753 ppb	11:34:57
1	B 249.677†	-356.8	-275.6	-7.7305 ug/L	-7.7305 ppb	11:34:57
1	Ba 233.527†	26.8	34.6	0.3247 ug/L	0.3247 ppb	11:34:57
1	Be 313.107†	-3621.0	-100.3	-0.0417 ug/L	-0.0417 ppb	11:34:37
1	Cd 226.502†	-154.3	-16.6	-0.2445 ug/L	-0.2445 ppb	11:34:57
1	Co 228.616†	-51.8	-9.6	-0.2525 ug/L	-0.2525 ppb	11:34:57
1	Cr 267.716†	54.5	-9.8	-0.1245 ug/L	-0.1245 ppb	11:34:57
1	Cu 324.752†	6236.0	323.8	1.0469 ug/L	1.0469 ppb	11:34:37
1	Mn 257.610†	725.1	353.8	0.4673 ug/L	0.4673 ppb	11:34:57
1	Mo 202.031†	4.0	-9.7	-0.8306 ug/L	-0.8306 ppb	11:34:57
1	Ni 231.604†	61.8	10.4	0.3271 ug/L	0.3271 ppb	11:34:57
1	P 214.914†	186.9	16.3	12.143 ug/L	12.143 ppb	11:34:57
1	Pb 220.353†	-45.7	-2.9	-0.4527 ug/L	-0.4527 ppb	11:34:57
1	S 181.975 Axial†	28.6	-1.6	-2.7698 ug/L	-2.7698 ppb	11:34:57
1	Sb 206.836†	27.4	-0.4	-0.1760 ug/L	-0.1760 ppb	11:34:57
1	Se 196.026†	-16.7	2.1	1.7859 ug/L	1.7859 ppb	11:34:57
1	Si 251.611†	758.3	325.2	12.066 ug/L	12.066 ppb	11:34:57
1	Sn 189.927†	11.4	3.9	0.8842 ug/L	0.8842 ppb	11:34:57
1	Ti 334.940†	-531.3	415.5	0.7131 ug/L	0.7131 ppb	11:34:37
1	Tl 190.801†	-27.4	2.9	1.1455 ug/L	1.1455 ppb	11:34:57
1	U 409.014†	-2141.3	-192.5	-5.6235 ug/L	-5.6235 ppb	11:34:37
1	V 292.402†	-1202.9	13.4	0.0764 ug/L	0.0764 ppb	11:34:37
1	Zn 213.857†	542.2	53.5	0.6413 ug/L	0.6413 ppb	11:34:57
1	SiO2†	764.9	305.9	24.049 ug/L	24.049 ppb	11:36:08
2	Sc Radial	3227.8	3227.8	96.3 %		11:34:05
2	Y RADIAL	2626.3	2626.3	95.74 %		11:34:05
2	Al 396.153Radial†	-48.1	10.1	21.645 ug/L	21.645 ppb	11:34:05
2	Ca 317.933Radial†	13.5	3.8	15.080 ug/L	15.080 ppb	11:34:05
2	Fe 238.204 Radial†	7.8	-0.6	-15.563 ug/L	-15.563 ppb	11:34:05
2	K 766.490 Radial†	1995.9	-42.7	-19.549 ug/L	-19.549 ppb	11:33:45
2	Mg 279.077 IEC†	0.8	0.4	39.602 ug/L	39.602 ppb	11:34:05
2	Na 589.592 Radial†	-770.9	-17.6	-5.8625 ug/L	-5.8625 ppb	11:33:45
2	Sr 421.552†	37.6	3.4	0.0336 ug/L	0.0336 ppb	11:33:45
2	Sc 361.383	810001.5	810001.5	97.036 %		11:35:02
2	Y 371.029	692380.0	692380.0	96.746 %		11:35:02
2	Ag 328.068†	109.1	-46.6	-0.2407 ug/L	-0.2407 ppb	11:35:02
2	As 188.979†	-19.1	-3.7	-2.0743 ug/L	-2.0743 ppb	11:35:22
2	B 249.677†	-379.8	-301.2	-8.4401 ug/L	-8.4401 ppb	11:35:22
2	Ba 233.527†	25.3	33.2	0.3100 ug/L	0.3100 ppb	11:35:22
2	Be 313.107†	-3656.0	-155.1	-0.0652 ug/L	-0.0652 ppb	11:35:02
2	Cd 226.502†	-148.7	-11.6	-0.1665 ug/L	-0.1665 ppb	11:35:22
2	Co 228.616†	-43.6	-1.4	-0.0352 ug/L	-0.0352 ppb	11:35:22
2	Cr 267.716†	72.5	9.0	0.1164 ug/L	0.1164 ppb	11:35:22
2	Cu 324.752†	6274.0	395.2	1.2708 ug/L	1.2708 ppb	11:35:02
2	Mn 257.610†	732.2	364.9	0.4750 ug/L	0.4750 ppb	11:35:22
2	Mo 202.031†	19.1	5.9	0.5082 ug/L	0.5082 ppb	11:35:22
2	Ni 231.604†	61.9	10.8	0.3402 ug/L	0.3402 ppb	11:35:22

2	P 214.914†	185.2	15.5	11.521 ug/L	11.521 ppb	11:35:22
2	Pb 220.353†	-37.5	5.3	0.8242 ug/L	0.8242 ppb	11:35:22
2	S 181.975 Axial†	27.2	-2.8	-5.0077 ug/L	-5.0077 ppb	11:35:22
2	Sb 206.836†	22.2	-5.6	-2.3142 ug/L	-2.3142 ppb	11:35:22
2	Se 196.026†	-9.1	9.8	7.9597 ug/L	7.9597 ppb	11:35:22
2	Si 251.611†	757.5	328.3	12.165 ug/L	12.165 ppb	11:35:22
2	Sn 189.927†	3.8	-3.9	-0.8917 ug/L	-0.8917 ppb	11:35:22
2	Ti 334.940†	-494.6	450.6	0.7643 ug/L	0.7643 ppb	11:35:02
2	Tl 190.801†	-21.6	8.8	3.4306 ug/L	3.4306 ppb	11:35:22
2	U 409.014†	-1927.3	17.0	0.4972 ug/L	0.4972 ppb	11:35:02
2	V 292.402†	-1202.3	7.7	0.0706 ug/L	0.0706 ppb	11:35:02
2	Zn 213.857†	555.0	69.5	0.8415 ug/L	0.8415 ppb	11:35:22
2	SiO2†	763.5	308.4	24.209 ug/L	24.209 ppb	11:36:28
3	Sc Radial	3229.2	3229.2	96.4 %		11:34:30
3	Y RADIAL	2620.5	2620.5	95.53 %		11:34:30
3	Al 396.153Radial†	-48.2	10.0	21.443 ug/L	21.443 ppb	11:34:30
3	Ca 317.933Radial†	12.8	3.1	12.217 ug/L	12.217 ppb	11:34:30
3	Fe 238.204 Radial†	9.6	1.3	36.219 ug/L	36.219 ppb	11:34:30
3	K 766.490 Radial†	2016.6	-22.1	-10.127 ug/L	-10.127 ppb	11:34:10
3	Mg 279.077 IEC†	3.0	2.7	262.76 ug/L	262.76 ppb	11:34:30
3	Na 589.592 Radial†	-772.8	-19.2	-6.4235 ug/L	-6.4235 ppb	11:34:10
3	Sr 421.552†	32.1	-2.4	-0.0239 ug/L	-0.0239 ppb	11:34:10
3	Sc 361.383	815906.9	815906.9	97.743 %		11:35:27
3	Y 371.029	697342.2	697342.2	97.440 %		11:35:27
3	Ag 328.068†	70.5	-86.9	-0.4277 ug/L	-0.4277 ppb	11:35:27
3	As 188.979†	-25.6	-10.3	-5.6925 ug/L	-5.6925 ppb	11:35:47
3	B 249.677†	-378.2	-296.7	-8.3243 ug/L	-8.3243 ppb	11:35:47
3	Ba 233.527†	35.6	43.6	0.4085 ug/L	0.4085 ppb	11:35:47
3	Be 313.107†	-3631.1	-102.3	-0.0423 ug/L	-0.0423 ppb	11:35:27
3	Cd 226.502†	-163.3	-25.5	-0.3718 ug/L	-0.3718 ppb	11:35:47
3	Co 228.616†	-40.7	1.9	0.0471 ug/L	0.0471 ppb	11:35:47
3	Cr 267.716†	69.1	4.9	0.0662 ug/L	0.0662 ppb	11:35:47
3	Cu 324.752†	6310.8	386.1	1.2442 ug/L	1.2442 ppb	11:35:27
3	Mn 257.610†	735.3	362.6	0.4680 ug/L	0.4680 ppb	11:35:47
3	Mo 202.031†	11.7	-1.8	-0.1555 ug/L	-0.1555 ppb	11:35:47
3	Ni 231.604†	64.7	13.2	0.4145 ug/L	0.4145 ppb	11:35:47
3	P 214.914†	175.0	3.7	2.5147 ug/L	2.5147 ppb	11:35:47
3	Pb 220.353†	-52.4	-9.7	-1.4959 ug/L	-1.4959 ppb	11:35:47
3	S 181.975 Axial†	27.2	-3.0	-5.3859 ug/L	-5.3859 ppb	11:35:47
3	Sb 206.836†	24.9	-3.0	-1.2622 ug/L	-1.2622 ppb	11:35:47
3	Se 196.026†	-22.0	-3.2	-2.5293 ug/L	-2.5293 ppb	11:35:47
3	Si 251.611†	744.5	309.3	11.470 ug/L	11.470 ppb	11:35:47
3	Sn 189.927†	2.0	-5.8	-1.3080 ug/L	-1.3080 ppb	11:35:47
3	Ti 334.940†	-462.8	486.7	0.8073 ug/L	0.8073 ppb	11:35:27
3	Tl 190.801†	-29.6	0.8	0.3142 ug/L	0.3142 ppb	11:35:47
3	U 409.014†	-1948.8	9.3	0.2686 ug/L	0.2686 ppb	11:35:27
3	V 292.402†	-1198.3	20.8	0.1593 ug/L	0.1593 ppb	11:35:27
3	Zn 213.857†	550.7	61.0	0.7302 ug/L	0.7302 ppb	11:35:47
3	SiO2†	776.4	315.9	24.817 ug/L	24.817 ppb	11:36:48

Mean Data: 1202042568|952949|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813331.4	97.435 %	0.3623			0.37%
Sc Radial	3236.3	96.6 %	0.40			0.42%
Y 371.029	695100.6	97.127 %	0.3515			0.36%
Y RADIAL	2629.9	95.87 %	0.422			0.44%
Ag 328.068†	-57.0	-0.2812 ug/L	0.13102	-0.2812 ppb	0.13102	46.59%
Al 396.153Radial†	9.8	21.119 ug/L	0.7434	21.119 ppb	0.7434	3.52%
As 188.979†	-6.8	-3.7807 ug/L	1.81780	-3.7807 ppb	1.81780	48.08%
B 249.677†	-291.2	-8.1650 ug/L	0.38069	-8.1650 ppb	0.38069	4.66%
Ba 233.527†	37.2	0.3477 ug/L	0.05312	0.3477 ppb	0.05312	15.28%
Be 313.107†	-119.3	-0.0497 ug/L	0.01340	-0.0497 ppb	0.01340	26.95%
Ca 317.933Radial†	4.0	16.005 ug/L	4.3254	16.005 ppb	4.3254	27.02%
Cd 226.502†	-17.9	-0.2609 ug/L	0.10364	-0.2609 ppb	0.10364	39.72%
Co 228.616†	-3.0	-0.0802 ug/L	0.15482	-0.0802 ppb	0.15482	193.05%
Cr 267.716†	1.4	0.0194 ug/L	0.12711	0.0194 ppb	0.12711	656.57%
Cu 324.752†	368.4	1.1873 ug/L	0.12236	1.1873 ppb	0.12236	10.31%
Fe 238.204 Radial†	0.6	16.772 ug/L	28.1944	16.772 ppb	28.1944	168.10%
K 766.490 Radial†	-4.0	-1.8325 ug/L	23.01351	-1.8325 ppb	23.01351	>999.9%

Mg 279.077 IEC†	1.0	94.326 ug/L	148.8151	94.326 ppb	148.8151	157.77%
Mn 257.610†	360.4	0.4701 ug/L	0.00427	0.4701 ppb	0.00427	0.91%
Mo 202.031†	-1.9	-0.1593 ug/L	0.66942	-0.1593 ppb	0.66942	420.31%
Na 589.592 Radial†	18.7	6.2554 ug/L	21.47644	6.2554 ppb	21.47644	343.33%
Ni 231.604†	11.4	0.3606 ug/L	0.04714	0.3606 ppb	0.04714	13.07%
P 214.914†	11.8	8.7264 ug/L	5.38847	8.7264 ppb	5.38847	61.75%
Pb 220.353†	-2.4	-0.3748 ug/L	1.16202	-0.3748 ppb	1.16202	310.06%
S 181.975 Axial†	-2.5	-4.3878 ug/L	1.41395	-4.3878 ppb	1.41395	32.22%
Sb 206.836†	-3.0	-1.2508 ug/L	1.06912	-1.2508 ppb	1.06912	85.47%
Se 196.026†	2.9	2.4054 ug/L	5.27187	2.4054 ppb	5.27187	219.17%
Si 251.611†	320.9	11.901 ug/L	0.3757	11.901 ppb	0.3757	3.16%
Sn 189.927†	-1.9	-0.4385 ug/L	1.16426	-0.4385 ppb	1.16426	265.51%
Sr 421.552†	11.8	0.1170 ug/L	0.19649	0.1170 ppb	0.19649	167.88%
Ti 334.940†	450.9	0.7616 ug/L	0.04717	0.7616 ppb	0.04717	6.19%
Tl 190.801†	4.2	1.6301 ug/L	1.61375	1.6301 ppb	1.61375	99.00%
U 409.014†	-55.4	-1.6193 ug/L	3.46969	-1.6193 ppb	3.46969	214.28%
V 292.402†	14.0	0.1021 ug/L	0.04959	0.1021 ppb	0.04959	48.57%
Zn 213.857†	61.3	0.7377 ug/L	0.10034	0.7377 ppb	0.10034	13.60%
SiO2†	310.0	24.358 ug/L	0.4053	24.358 ppb	0.4053	1.66%

Sequence No.: 7

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/10/2010 11:38:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3341.7	3341.7	99.7 %		11:41:11
1	Y RADIAL	2705.0	2705.0	98.61 %		11:41:11
1	Al 396.153Radial†	2244.8	2310.6	4942.0 ug/L	4942.0 ppb	11:40:51
1	Ca 317.933Radial†	1268.8	1261.9	5008.0 ug/L	5008.0 ppb	11:41:11
1	Fe 238.204 Radial†	190.0	181.9	5070.3 ug/L	5070.3 ppb	11:41:11
1	K 766.490 Radial†	12782.9	10701.9	4892.6 ug/L	4892.6 ppb	11:40:51
1	Mg 279.077 IEC†	52.1	51.8	5027.6 ug/L	5027.6 ppb	11:41:11
1	Na 589.592 Radial†	29492.0	30351.6	10136 ug/L	10136 ppb	11:40:51
1	Sr 421.552†	52105.0	52205.4	517.63 ug/L	517.63 ppb	11:40:51
1	Sc 361.383	843332.1	843332.1	101.03 %		11:42:08
1	Y 371.029	713117.4	713117.4	99.644 %		11:42:08
1	Ag 328.068†	100734.5	99549.7	506.06 ug/L	506.06 ppb	11:42:13
1	As 188.979†	878.3	885.3	496.40 ug/L	496.40 ppb	11:42:33
1	B 249.677†	17597.5	17508.5	488.53 ug/L	488.53 ppb	11:42:13
1	Ba 233.527†	53939.7	53397.6	499.96 ug/L	499.96 ppb	11:42:13
1	Be 313.107†	1165056.6	1156806.1	500.35 ug/L	500.35 ppb	11:42:08
1	Cd 226.502†	34810.3	34597.5	500.02 ug/L	500.02 ppb	11:42:13
1	Co 228.616†	19766.7	19608.9	508.61 ug/L	508.61 ppb	11:42:13
1	Cr 267.716†	38737.5	38277.3	499.99 ug/L	499.99 ppb	11:42:13
1	Cu 324.752†	163101.3	155370.1	499.99 ug/L	499.99 ppb	11:42:13
1	Mn 257.610†	384634.4	380328.2	498.68 ug/L	498.68 ppb	11:42:08
1	Mo 202.031†	5788.8	5716.1	493.83 ug/L	493.83 ppb	11:42:33
1	Ni 231.604†	16343.7	16124.2	507.91 ug/L	507.91 ppb	11:42:13
1	P 214.914†	3468.6	3257.9	2376.9 ug/L	2376.9 ppb	11:42:33
1	Pb 220.353†	3195.8	3207.2	498.00 ug/L	498.00 ppb	11:42:33
1	S 181.975 Axial†	578.9	542.2	966.07 ug/L	966.07 ppb	11:42:33
1	Sb 206.836†	1246.8	1205.6	517.37 ug/L	517.37 ppb	11:42:33
1	Se 196.026†	618.6	631.5	530.69 ug/L	530.69 ppb	11:42:33
1	Si 251.611†	68468.4	67318.8	2490.0 ug/L	2490.0 ppb	11:42:13
1	Sn 189.927†	2207.8	2177.5	495.40 ug/L	495.40 ppb	11:42:33
1	Ti 334.940†	290897.7	288896.0	490.87 ug/L	490.87 ppb	11:42:13
1	Tl 190.801†	1260.8	1279.0	499.40 ug/L	499.40 ppb	11:42:33
1	U 409.014†	15633.7	17477.7	508.70 ug/L	508.70 ppb	11:42:13
1	V 292.402†	63494.9	64095.1	506.95 ug/L	506.95 ppb	11:42:13
1	Zn 213.857†	42309.0	41375.7	497.36 ug/L	497.36 ppb	11:42:13
1	SiO2†	67795.9	66627.1	5220.4 ug/L	5220.4 ppb	11:43:41
2	Sc Radial	3346.6	3346.6	99.9 %		11:41:36
2	Y RADIAL	2720.0	2720.0	99.15 %		11:41:36
2	Al 396.153Radial†	2259.1	2321.6	4966.3 ug/L	4966.3 ppb	11:41:16
2	Ca 317.933Radial†	1279.5	1270.7	5042.9 ug/L	5042.9 ppb	11:41:36
2	Fe 238.204 Radial†	191.3	182.9	5097.5 ug/L	5097.5 ppb	11:41:36
2	K 766.490 Radial†	12705.4	10605.3	4848.4 ug/L	4848.4 ppb	11:41:16
2	Mg 279.077 IEC†	52.9	52.5	5094.4 ug/L	5094.4 ppb	11:41:36
2	Na 589.592 Radial†	29380.5	30196.2	10084 ug/L	10084 ppb	11:41:16
2	Sr 421.552†	52007.1	52030.0	515.89 ug/L	515.89 ppb	11:41:16
2	Sc 361.383	877604.6	877604.6	105.13 %		11:42:39
2	Y 371.029	742768.5	742768.5	103.79 %		11:42:39
2	Ag 328.068†	100929.3	95841.1	487.26 ug/L	487.26 ppb	11:42:44
2	As 188.979†	893.0	865.4	485.20 ug/L	485.20 ppb	11:43:04
2	B 249.677†	17648.1	16876.5	470.86 ug/L	470.86 ppb	11:42:44
2	Ba 233.527†	54017.9	51387.0	481.14 ug/L	481.14 ppb	11:42:44
2	Be 313.107†	1176546.6	1122700.1	485.59 ug/L	485.59 ppb	11:42:39
2	Cd 226.502†	34896.8	33334.1	481.74 ug/L	481.74 ppb	11:42:44
2	Co 228.616†	19818.5	18894.2	490.08 ug/L	490.08 ppb	11:42:44
2	Cr 267.716†	38732.5	36775.1	480.37 ug/L	480.37 ppb	11:42:44
2	Cu 324.752†	163116.5	149079.9	479.76 ug/L	479.76 ppb	11:42:44
2	Mn 257.610†	386870.4	367587.1	481.99 ug/L	481.99 ppb	11:42:39
2	Mo 202.031†	5856.6	5556.8	480.09 ug/L	480.09 ppb	11:43:04
2	Ni 231.604†	16350.9	15499.3	488.23 ug/L	488.23 ppb	11:42:44

2	P 214.914†	3501.6	3155.2	2302.8 ug/L	2302.8 ppb	11:43:04
2	Pb 220.353†	3235.0	3121.0	484.63 ug/L	484.63 ppb	11:43:04
2	S 181.975 Axial†	583.8	524.4	934.43 ug/L	934.43 ppb	11:43:04
2	Sb 206.836†	1267.7	1177.3	505.12 ug/L	505.12 ppb	11:43:04
2	Se 196.026†	614.3	603.6	507.97 ug/L	507.97 ppb	11:43:04
2	Si 251.611†	68440.4	64645.5	2391.0 ug/L	2391.0 ppb	11:42:44
2	Sn 189.927†	2231.4	2114.6	481.11 ug/L	481.11 ppb	11:43:04
2	Ti 334.940†	291030.1	277777.3	471.98 ug/L	471.98 ppb	11:42:44
2	Tl 190.801†	1276.9	1245.6	486.34 ug/L	486.34 ppb	11:43:04
2	U 409.014†	15986.6	17209.0	500.89 ug/L	500.89 ppb	11:42:44
2	V 292.402†	63508.9	61654.0	487.71 ug/L	487.71 ppb	11:42:44
2	Zn 213.857†	42286.9	39719.3	477.41 ug/L	477.41 ppb	11:42:44
2	SiO2†	68171.6	64363.8	5043.0 ug/L	5043.0 ppb	11:43:46
3	Sc Radial	3318.9	3318.9	99.1 %		11:42:01
3	Y RADIAL	2694.6	2694.6	98.23 %		11:42:01
3	Al 396.153Radial†	2266.1	2347.6	5021.3 ug/L	5021.3 ppb	11:41:41
3	Ca 317.933Radial†	1269.6	1271.4	5045.6 ug/L	5045.6 ppb	11:42:01
3	Fe 238.204 Radial†	190.9	184.1	5132.5 ug/L	5132.5 ppb	11:42:01
3	K 766.490 Radial†	12872.3	10880.0	4974.0 ug/L	4974.0 ppb	11:41:41
3	Mg 279.077 IEC†	52.8	52.9	5130.6 ug/L	5130.6 ppb	11:42:01
3	Na 589.592 Radial†	29908.6	30974.9	10344 ug/L	10344 ppb	11:41:41
3	Sr 421.552†	52764.5	53229.3	527.79 ug/L	527.79 ppb	11:41:41
3	Sc 361.383	840250.7	840250.7	100.66 %		11:43:10
3	Y 371.029	710861.5	710861.5	99.329 %		11:43:10
3	Ag 328.068†	100806.7	99987.1	508.29 ug/L	508.29 ppb	11:43:15
3	As 188.979†	893.4	903.5	506.53 ug/L	506.53 ppb	11:43:35
3	B 249.677†	17644.2	17618.8	491.60 ug/L	491.60 ppb	11:43:15
3	Ba 233.527†	54138.5	53790.9	503.64 ug/L	503.64 ppb	11:43:15
3	Be 313.107†	1178177.2	1174069.8	507.81 ug/L	507.81 ppb	11:43:10
3	Cd 226.502†	34962.4	34874.9	504.03 ug/L	504.03 ppb	11:43:15
3	Co 228.616†	19922.0	19835.0	514.48 ug/L	514.48 ppb	11:43:15
3	Cr 267.716†	38834.4	38514.2	503.08 ug/L	503.08 ppb	11:43:15
3	Cu 324.752†	162560.0	155424.4	500.17 ug/L	500.17 ppb	11:43:15
3	Mn 257.610†	387798.9	384868.2	504.63 ug/L	504.63 ppb	11:43:10
3	Mo 202.031†	5822.7	5770.8	498.55 ug/L	498.55 ppb	11:43:35
3	Ni 231.604†	16395.6	16235.1	511.40 ug/L	511.40 ppb	11:43:15
3	P 214.914†	3480.6	3282.4	2395.6 ug/L	2395.6 ppb	11:43:35
3	Pb 220.353†	3203.4	3226.4	501.00 ug/L	501.00 ppb	11:43:35
3	S 181.975 Axial†	587.1	552.4	984.27 ug/L	984.27 ppb	11:43:35
3	Sb 206.836†	1246.9	1210.3	519.53 ug/L	519.53 ppb	11:43:35
3	Se 196.026†	601.4	616.6	518.79 ug/L	518.79 ppb	11:43:35
3	Si 251.611†	68405.5	67504.8	2496.8 ug/L	2496.8 ppb	11:43:15
3	Sn 189.927†	2239.1	2216.6	504.28 ug/L	504.28 ppb	11:43:35
3	Ti 334.940†	291089.8	290142.7	492.98 ug/L	492.98 ppb	11:43:15
3	Tl 190.801†	1276.8	1299.5	507.37 ug/L	507.37 ppb	11:43:35
3	U 409.014†	15780.2	17680.0	514.59 ug/L	514.59 ppb	11:43:15
3	V 292.402†	63437.0	64268.1	508.36 ug/L	508.36 ppb	11:43:15
3	Zn 213.857†	42470.4	41689.7	501.14 ug/L	501.14 ppb	11:43:15
3	SiO2†	68802.4	67873.1	5318.1 ug/L	5318.1 ppb	11:43:51

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	853729.1	102.27 %	2.484			2.43%
Sc Radial	3335.8	99.6 %	0.44			0.44%
Y 371.029	722249.1	100.92 %	2.488			2.47%
Y RADIAL	2706.5	98.66 %	0.465			0.47%
Ag 328.068†	98459.3	500.54 ug/L	11.551	500.54 ppb	11.551	2.31%
QC value within limits for Ag 328.068 Recovery = 100.11%						
Al 396.153Radial†	2326.6	4976.5 ug/L	40.61	4976.5 ppb	40.61	0.82%
QC value within limits for Al 396.153Radial Recovery = 99.53%						
As 188.979†	884.7	496.04 ug/L	10.669	496.04 ppb	10.669	2.15%
QC value within limits for As 188.979 Recovery = 99.21%						
B 249.677†	17334.6	483.66 ug/L	11.191	483.66 ppb	11.191	2.31%
QC value within limits for B 249.677 Recovery = 96.73%						
Ba 233.527†	52858.5	494.91 ug/L	12.068	494.91 ppb	12.068	2.44%
QC value within limits for Ba 233.527 Recovery = 98.98%						
Be 313.107†	1151192.0	497.92 ug/L	11.307	497.92 ppb	11.307	2.27%
QC value within limits for Be 313.107 Recovery = 99.58%						
Ca 317.933Radial†	1268.0	5032.2 ug/L	20.99	5032.2 ppb	20.99	0.42%

QC value within limits for Ca 317.933 Radial Recovery = 100.64%							
Cd	226.502†	34268.8	495.26 ug/L	11.880	495.26 ppb	11.880	2.40%
QC value within limits for Cd 226.502 Recovery = 99.05%							
Co	228.616†	19446.0	504.39 ug/L	12.734	504.39 ppb	12.734	2.52%
QC value within limits for Co 228.616 Recovery = 100.88%							
Cr	267.716†	37855.5	494.48 ug/L	12.316	494.48 ppb	12.316	2.49%
QC value within limits for Cr 267.716 Recovery = 98.90%							
Cu	324.752†	153291.5	493.31 ug/L	11.735	493.31 ppb	11.735	2.38%
QC value within limits for Cu 324.752 Recovery = 98.66%							
Fe	238.204 Radial†	182.9	5100.1 ug/L	31.18	5100.1 ppb	31.18	0.61%
QC value within limits for Fe 238.204 Radial Recovery = 102.00%							
K	766.490 Radial†	10729.1	4905.0 ug/L	63.72	4905.0 ppb	63.72	1.30%
QC value within limits for K 766.490 Radial Recovery = 98.10%							
Mg	279.077 IEC†	52.4	5084.2 ug/L	52.23	5084.2 ppb	52.23	1.03%
QC value within limits for Mg 279.077 IEC Recovery = 101.68%							
Mn	257.610†	377594.5	495.10 ug/L	11.741	495.10 ppb	11.741	2.37%
QC value within limits for Mn 257.610 Recovery = 99.02%							
Mo	202.031†	5681.2	490.82 ug/L	9.593	490.82 ppb	9.593	1.95%
QC value within limits for Mo 202.031 Recovery = 98.16%							
Na	589.592 Radial†	30507.6	10188 ug/L	137.6	10188 ppb	137.6	1.35%
QC value within limits for Na 589.592 Radial Recovery = 101.88%							
Ni	231.604†	15952.9	502.51 ug/L	12.496	502.51 ppb	12.496	2.49%
QC value within limits for Ni 231.604 Recovery = 100.50%							
P	214.914†	3231.8	2358.4 ug/L	49.09	2358.4 ppb	49.09	2.08%
QC value within limits for P 214.914 Recovery = 94.34%							
Pb	220.353†	3184.8	494.55 ug/L	8.712	494.55 ppb	8.712	1.76%
QC value within limits for Pb 220.353 Recovery = 98.91%							
S	181.975 Axial†	539.6	961.59 ug/L	25.219	961.59 ppb	25.219	2.62%
QC value within limits for S 181.975 Axial Recovery = 96.16%							
Sb	206.836†	1197.7	514.01 ug/L	7.770	514.01 ppb	7.770	1.51%
QC value within limits for Sb 206.836 Recovery = 102.80%							
Se	196.026†	617.2	519.15 ug/L	11.367	519.15 ppb	11.367	2.19%
QC value within limits for Se 196.026 Recovery = 103.83%							
Si	251.611†	66489.7	2459.3 ug/L	59.20	2459.3 ppb	59.20	2.41%
QC value within limits for Si 251.611 Recovery = 98.37%							
Sn	189.927†	2169.6	493.60 ug/L	11.687	493.60 ppb	11.687	2.37%
QC value within limits for Sn 189.927 Recovery = 98.72%							
Sr	421.552†	52488.2	520.44 ug/L	6.423	520.44 ppb	6.423	1.23%
QC value within limits for Sr 421.552 Recovery = 104.09%							
Ti	334.940†	285605.3	485.28 ug/L	11.563	485.28 ppb	11.563	2.38%
QC value within limits for Ti 334.940 Recovery = 97.06%							
Tl	190.801†	1274.7	497.70 ug/L	10.617	497.70 ppb	10.617	2.13%
QC value within limits for Tl 190.801 Recovery = 99.54%							
U	409.014†	17455.6	508.06 ug/L	6.872	508.06 ppb	6.872	1.35%
QC value within limits for U 409.014 Recovery = 101.61%							
V	292.402†	63339.1	501.00 ug/L	11.539	501.00 ppb	11.539	2.30%
QC value within limits for V 292.402 Recovery = 100.20%							
Zn	213.857†	40928.2	491.97 ug/L	12.749	491.97 ppb	12.749	2.59%
QC value within limits for Zn 213.857 Recovery = 98.39%							
SiO2†		66288.0	5193.8 ug/L	139.49	5193.8 ppb	139.49	2.69%
QC value within limits for SiO2 Recovery = 97.13%							

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/10/2010 11:46:01

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3203.5	3203.5	95.6 %		11:48:14
1	Y RADIAL	2615.8	2615.8	95.35 %		11:48:14
1	Al 396.153Radial†	-62.1	-5.0	-10.626 ug/L	-10.626 ppb	11:48:14
1	Ca 317.933Radial†	12.1	2.5	9.8840 ug/L	9.8840 ppb	11:48:14
1	Fe 238.204 Radial†	9.7	1.5	42.052 ug/L	42.052 ppb	11:48:14
1	K 766.490 Radial†	2154.2	138.6	63.428 ug/L	63.428 ppb	11:47:54
1	Mg 279.077 IEC†	0.0	-0.4	-39.069 ug/L	-39.069 ppb	11:48:14
1	Na 589.592 Radial†	-762.4	-14.8	-4.9361 ug/L	-4.9361 ppb	11:47:54
1	Sr 421.552†	25.7	-8.8	-0.0871 ug/L	-0.0871 ppb	11:47:54
1	Sc 361.383	811194.6	811194.6	97.179 %		11:49:11
1	Y 371.029	693242.5	693242.5	96.867 %		11:49:11
1	Ag 328.068†	162.9	8.6	0.0593 ug/L	0.0593 ppb	11:49:11
1	As 188.979†	-28.1	-13.0	-7.2103 ug/L	-7.2103 ppb	11:49:31
1	B 249.677†	-257.7	-175.0	-4.9136 ug/L	-4.9136 ppb	11:49:31
1	Ba 233.527†	6.7	14.1	0.1332 ug/L	0.1332 ppb	11:49:31
1	Be 313.107†	-3408.3	105.3	0.0455 ug/L	0.0455 ppb	11:49:11
1	Cd 226.502†	-143.2	-5.8	-0.0879 ug/L	-0.0879 ppb	11:49:31
1	Co 228.616†	-31.7	11.0	0.2831 ug/L	0.2831 ppb	11:49:31
1	Cr 267.716†	57.8	-6.2	-0.0784 ug/L	-0.0784 ppb	11:49:31
1	Cu 324.752†	6178.3	287.2	0.9282 ug/L	0.9282 ppb	11:49:11
1	Mn 257.610†	439.5	62.5	0.0877 ug/L	0.0877 ppb	11:49:31
1	Mo 202.031†	9.8	-3.7	-0.3126 ug/L	-0.3126 ppb	11:49:31
1	Ni 231.604†	62.3	11.1	0.3502 ug/L	0.3502 ppb	11:49:31
1	P 214.914†	168.4	-2.1	-1.7848 ug/L	-1.7848 ppb	11:49:31
1	Pb 220.353†	-46.7	-4.1	-0.6493 ug/L	-0.6493 ppb	11:49:31
1	S 181.975 Axial†	27.8	-2.3	-4.0753 ug/L	-4.0753 ppb	11:49:31
1	Sb 206.836†	25.6	-2.1	-0.8802 ug/L	-0.8802 ppb	11:49:31
1	Se 196.026†	-17.0	1.7	1.5316 ug/L	1.5316 ppb	11:49:31
1	Si 251.611†	499.4	61.5	2.2858 ug/L	2.2858 ppb	11:49:31
1	Sn 189.927†	6.1	-1.6	-0.3618 ug/L	-0.3618 ppb	11:49:31
1	Ti 334.940†	-932.7	0.5	0.0068 ug/L	0.0068 ppb	11:49:11
1	Tl 190.801†	-18.5	12.1	4.6836 ug/L	4.6836 ppb	11:49:31
1	U 409.014†	-2051.6	-108.0	-3.1599 ug/L	-3.1599 ppb	11:49:11
1	V 292.402†	-1195.1	17.0	0.1153 ug/L	0.1153 ppb	11:49:11
1	Zn 213.857†	525.1	37.9	0.4500 ug/L	0.4500 ppb	11:49:31
1	SiO2†	497.0	33.0	2.5973 ug/L	2.5973 ppb	11:50:42
2	Sc Radial	3203.9	3203.9	95.6 %		11:48:39
2	Y RADIAL	2611.7	2611.7	95.21 %		11:48:39
2	Al 396.153Radial†	-63.6	-6.5	-13.970 ug/L	-13.970 ppb	11:48:39
2	Ca 317.933Radial†	8.5	-1.3	-5.0984 ug/L	-5.0984 ppb	11:48:39
2	Fe 238.204 Radial†	7.5	-0.7	-20.551 ug/L	-20.551 ppb	11:48:39
2	K 766.490 Radial†	2066.0	46.0	21.084 ug/L	21.084 ppb	11:48:19
2	Mg 279.077 IEC†	3.0	2.7	265.67 ug/L	265.67 ppb	11:48:39
2	Na 589.592 Radial†	-793.7	-47.4	-15.836 ug/L	-15.836 ppb	11:48:19
2	Sr 421.552†	24.9	-9.7	-0.0959 ug/L	-0.0959 ppb	11:48:19
2	Sc 361.383	814884.6	814884.6	97.621 %		11:49:36
2	Y 371.029	697810.3	697810.3	97.505 %		11:49:36
2	Ag 328.068†	91.7	-65.1	-0.3338 ug/L	-0.3338 ppb	11:49:36
2	As 188.979†	-23.1	-7.7	-4.3031 ug/L	-4.3031 ppb	11:49:56
2	B 249.677†	-218.2	-133.3	-3.7328 ug/L	-3.7328 ppb	11:49:56
2	Ba 233.527†	5.3	12.6	0.1168 ug/L	0.1168 ppb	11:49:56
2	Be 313.107†	-3497.9	29.4	0.0130 ug/L	0.0130 ppb	11:49:36
2	Cd 226.502†	-143.7	-5.6	-0.0786 ug/L	-0.0786 ppb	11:49:56
2	Co 228.616†	-43.0	-0.5	-0.0133 ug/L	-0.0133 ppb	11:49:56
2	Cr 267.716†	73.6	9.7	0.1264 ug/L	0.1264 ppb	11:49:56
2	Cu 324.752†	6151.4	230.9	0.7427 ug/L	0.7427 ppb	11:49:36
2	Mn 257.610†	496.1	118.5	0.1424 ug/L	0.1424 ppb	11:49:56
2	Mo 202.031†	12.7	-0.7	-0.0647 ug/L	-0.0647 ppb	11:49:56
2	Ni 231.604†	72.9	21.6	0.6818 ug/L	0.6818 ppb	11:49:56

2	P 214.914†	168.7	-2.6	-2.1081 ug/L	-2.1081 ppb	11:49:56
2	Pb 220.353†	-35.9	7.1	1.1040 ug/L	1.1040 ppb	11:49:56
2	S 181.975 Axial†	26.3	-3.9	-6.9772 ug/L	-6.9772 ppb	11:49:56
2	Sb 206.836†	26.7	-1.2	-0.4590 ug/L	-0.4590 ppb	11:49:56
2	Se 196.026†	-19.1	-0.3	-0.3390 ug/L	-0.3390 ppb	11:49:56
2	Si 251.611†	477.3	36.5	1.3535 ug/L	1.3535 ppb	11:49:56
2	Sn 189.927†	14.6	7.1	1.6249 ug/L	1.6249 ppb	11:49:56
2	Ti 334.940†	-862.2	77.0	0.1091 ug/L	0.1091 ppb	11:49:36
2	Tl 190.801†	-24.9	5.6	2.1725 ug/L	2.1725 ppb	11:49:56
2	U 409.014†	-2003.6	-49.3	-1.4382 ug/L	-1.4382 ppb	11:49:36
2	V 292.402†	-1209.2	8.0	0.0670 ug/L	0.0670 ppb	11:49:36
2	Zn 213.857†	535.6	46.2	0.5580 ug/L	0.5580 ppb	11:49:56
2	SiO2†	502.6	36.3	2.8555 ug/L	2.8555 ppb	11:51:02
3	Sc Radial	3238.8	3238.8	96.7 %		11:49:04
3	Y RADIAL	2633.7	2633.7	96.00 %		11:49:04
3	Al 396.153Radial†	-63.2	-5.4	-11.580 ug/L	-11.580 ppb	11:49:04
3	Ca 317.933Radial†	10.9	1.0	4.1316 ug/L	4.1316 ppb	11:49:04
3	Fe 238.204 Radial†	5.7	-2.7	-76.404 ug/L	-76.404 ppb	11:49:04
3	K 766.490 Radial†	2098.2	56.0	25.659 ug/L	25.659 ppb	11:48:44
3	Mg 279.077 IEC†	2.2	1.9	182.09 ug/L	182.09 ppb	11:49:04
3	Na 589.592 Radial†	-852.7	-99.5	-33.233 ug/L	-33.233 ppb	11:48:44
3	Sr 421.552†	27.3	-7.4	-0.0735 ug/L	-0.0735 ppb	11:48:44
3	Sc 361.383	812951.8	812951.8	97.389 %		11:50:02
3	Y 371.029	695414.4	695414.4	97.170 %		11:50:02
3	Ag 328.068†	92.8	-63.8	-0.3458 ug/L	-0.3458 ppb	11:50:02
3	As 188.979†	-17.0	-1.5	-0.8501 ug/L	-0.8501 ppb	11:50:22
3	B 249.677†	-275.4	-192.6	-5.3863 ug/L	-5.3863 ppb	11:50:22
3	Ba 233.527†	7.4	14.7	0.1362 ug/L	0.1362 ppb	11:50:22
3	Be 313.107†	-3553.1	-35.8	-0.0155 ug/L	-0.0155 ppb	11:50:02
3	Cd 226.502†	-144.5	-6.8	-0.0894 ug/L	-0.0894 ppb	11:50:22
3	Co 228.616†	-50.9	-8.7	-0.2254 ug/L	-0.2254 ppb	11:50:22
3	Cr 267.716†	47.3	-17.1	-0.2269 ug/L	-0.2269 ppb	11:50:22
3	Cu 324.752†	6214.1	310.2	0.9933 ug/L	0.9933 ppb	11:50:02
3	Mn 257.610†	470.7	93.7	0.1077 ug/L	0.1077 ppb	11:50:22
3	Mo 202.031†	13.9	0.5	0.0391 ug/L	0.0391 ppb	11:50:22
3	Ni 231.604†	67.6	16.4	0.5161 ug/L	0.5161 ppb	11:50:22
3	P 214.914†	172.3	1.5	1.0176 ug/L	1.0176 ppb	11:50:22
3	Pb 220.353†	-57.9	-15.5	-2.3939 ug/L	-2.3939 ppb	11:50:22
3	S 181.975 Axial†	30.7	0.7	1.1651 ug/L	1.1651 ppb	11:50:22
3	Sb 206.836†	25.4	-2.4	-1.0164 ug/L	-1.0164 ppb	11:50:22
3	Se 196.026†	-19.2	-0.5	-0.6173 ug/L	-0.6173 ppb	11:50:22
3	Si 251.611†	502.8	63.8	2.3666 ug/L	2.3666 ppb	11:50:22
3	Sn 189.927†	4.4	-3.3	-0.7443 ug/L	-0.7443 ppb	11:50:22
3	Ti 334.940†	-948.8	-14.0	-0.0388 ug/L	-0.0388 ppb	11:50:02
3	Tl 190.801†	-34.2	-4.1	-1.5748 ug/L	-1.5748 ppb	11:50:22
3	U 409.014†	-1886.3	66.3	1.9450 ug/L	1.9450 ppb	11:50:02
3	V 292.402†	-1160.4	55.2	0.4501 ug/L	0.4501 ppb	11:50:02
3	Zn 213.857†	523.1	34.7	0.4275 ug/L	0.4275 ppb	11:50:22
3	SiO2†	501.0	36.0	2.8252 ug/L	2.8252 ppb	11:51:22

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813010.3	97.396 %	0.2211			0.23%
Sc Radial	3215.4	96.0 %	0.60			0.63%
Y 371.029	695489.1	97.181 %	0.3193			0.33%
Y RADIAL	2620.4	95.52 %	0.425			0.45%
Ag 328.068†	-40.1	-0.2068 ug/L	0.23051	-0.2068 ppb	0.23051	111.48%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-5.6	-12.059 ug/L	1.7226	-12.059 ppb	1.7226	14.28%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-7.4	-4.1212 ug/L	3.18403	-4.1212 ppb	3.18403	77.26%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-167.0	-4.6776 ug/L	0.85163	-4.6776 ppb	0.85163	18.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	13.8	0.1287 ug/L	0.01047	0.1287 ppb	0.01047	8.13%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	33.0	0.0143 ug/L	0.03050	0.0143 ppb	0.03050	212.98%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.7	2.9724 ug/L	7.55815	2.9724 ppb	7.55815	254.28%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-6.0	-0.0853 ug/L	0.00585	-0.0853 ppb	0.00585	6.85%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	0.6	0.0148 ug/L	0.25537	0.0148 ppb	0.25537	>999.9%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-4.6	-0.0596 ug/L	0.17738	-0.0596 ppb	0.17738	297.53%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	276.1	0.8881 ug/L	0.13005	0.8881 ppb	0.13005	14.64%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.7	-18.301 ug/L	59.2602	-18.301 ppb	59.2602	323.81%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	80.2	36.724 ug/L	23.2398	36.724 ppb	23.2398	63.28%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.4	136.23 ug/L	157.462	136.23 ppb	157.462	115.58%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	91.6	0.1126 ug/L	0.02769	0.1126 ppb	0.02769	24.59%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-1.3	-0.1127 ug/L	0.18069	-0.1127 ppb	0.18069	160.27%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-53.9	-18.002 ug/L	14.2723	-18.002 ppb	14.2723	79.28%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	16.4	0.5160 ug/L	0.16583	0.5160 ppb	0.16583	32.14%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-1.0	-0.9584 ug/L	1.71887	-0.9584 ppb	1.71887	179.34%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-4.2	-0.6464 ug/L	1.74895	-0.6464 ppb	1.74895	270.59%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-1.8	-3.2958 ug/L	4.12673	-3.2958 ppb	4.12673	125.21%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-1.9	-0.7852 ug/L	0.29058	-0.7852 ppb	0.29058	37.01%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.3	0.1917 ug/L	1.16867	0.1917 ppb	1.16867	609.52%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	54.0	2.0020 ug/L	0.56306	2.0020 ppb	0.56306	28.12%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	0.8	0.1729 ug/L	1.27189	0.1729 ppb	1.27189	735.63%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-8.6	-0.0855 ug/L	0.01131	-0.0855 ppb	0.01131	13.23%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	21.2	0.0257 ug/L	0.07574	0.0257 ppb	0.07574	294.81%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.5	1.7604 ug/L	3.14949	1.7604 ppb	3.14949	178.91%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-30.4	-0.8844 ug/L	2.59716	-0.8844 ppb	2.59716	293.67%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	26.7	0.2108 ug/L	0.20864	0.2108 ppb	0.20864	98.97%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	39.6	0.4785 ug/L	0.06980	0.4785 ppb	0.06980	14.59%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	35.1	2.7594 ug/L	0.14114	2.7594 ppb	0.14114	5.12%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: 1202042569|952959|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 44

Date Collected: 3/10/2010 11:53:33

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042569|952959|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3328.8	3328.8	99.4 %		11:55:45
1	Y RADIAL	2700.5	2700.5	98.44 %		11:55:45
1	Al 396.153Radial†	2376.0	2451.5	5243.8 ug/L	5243.8 ppb	11:55:25
1	Ca 317.933Radial†	1309.5	1307.8	5189.9 ug/L	5189.9 ppb	11:55:45
1	Fe 238.204 Radial†	196.8	189.5	5281.6 ug/L	5281.6 ppb	11:55:45
1	K 766.490 Radial†	12909.6	10879.2	4975.5 ug/L	4975.5 ppb	11:55:25
1	Mg 279.077 IEC†	53.9	53.8	5219.0 ug/L	5219.0 ppb	11:55:45
1	Na 589.592 Radial†	15537.3	16421.0	5483.9 ug/L	5483.9 ppb	11:55:25
1	Sr 421.552†	55493.8	55819.0	553.47 ug/L	553.47 ppb	11:55:25
1	Sc 361.383	838758.4	838758.4	100.48 %		11:56:43
1	Y 371.029	709691.7	709691.7	99.165 %		11:56:43
1	Ag 328.068†	99344.4	98709.9	501.95 ug/L	501.95 ppb	11:56:48
1	As 188.979†	899.9	911.6	511.22 ug/L	511.22 ppb	11:57:08
1	B 249.677†	17965.6	17969.8	501.42 ug/L	501.42 ppb	11:56:48
1	Ba 233.527†	56048.1	55787.1	522.34 ug/L	522.34 ppb	11:56:48
1	Be 313.107†	1184319.1	1182264.8	511.39 ug/L	511.39 ppb	11:56:43
1	Cd 226.502†	35125.7	35099.2	507.28 ug/L	507.28 ppb	11:56:48
1	Co 228.616†	19830.4	19779.1	513.01 ug/L	513.01 ppb	11:56:48
1	Cr 267.716†	40306.2	40047.6	523.11 ug/L	523.11 ppb	11:56:48
1	Cu 324.752†	171466.3	164575.4	529.60 ug/L	529.60 ppb	11:56:48
1	Mn 257.610†	398656.7	396359.5	519.70 ug/L	519.70 ppb	11:56:43
1	Mo 202.031†	5968.4	5926.0	511.97 ug/L	511.97 ppb	11:57:08
1	Ni 231.604†	17078.9	16944.1	533.75 ug/L	533.75 ppb	11:56:48
1	P 214.914†	964.9	784.9	493.00 ug/L	493.00 ppb	11:57:08
1	Pb 220.353†	3249.2	3277.5	508.97 ug/L	508.97 ppb	11:57:08
1	S 181.975 Axial†	2906.9	2862.1	5103.9 ug/L	5103.9 ppb	11:57:08
1	Sb 206.836†	1354.8	1319.8	565.64 ug/L	565.64 ppb	11:57:08
1	Se 196.026†	603.5	619.9	521.93 ug/L	521.93 ppb	11:57:08
1	Si 251.611†	138714.9	137598.8	5095.6 ug/L	5095.6 ppb	11:56:48
1	Sn 189.927†	2356.0	2336.9	531.64 ug/L	531.64 ppb	11:57:08
1	Ti 334.940†	302580.8	302093.2	513.28 ug/L	513.28 ppb	11:56:48
1	Tl 190.801†	1304.5	1329.3	519.15 ug/L	519.15 ppb	11:57:08
1	U 409.014†	17282.5	19203.0	559.00 ug/L	559.00 ppb	11:56:48
1	V 292.402†	66595.2	67523.3	534.00 ug/L	534.00 ppb	11:56:48
1	Zn 213.857†	43332.9	42623.1	512.26 ug/L	512.26 ppb	11:56:48
1	SiO2†	141778.4	140621.5	11032 ug/L	11032 ppb	11:58:15
2	Sc Radial	3338.0	3338.0	99.6 %		11:56:10
2	Y RADIAL	2706.7	2706.7	98.67 %		11:56:10
2	Al 396.153Radial†	2337.5	2406.2	5146.4 ug/L	5146.4 ppb	11:55:50
2	Ca 317.933Radial†	1293.6	1288.2	5112.5 ug/L	5112.5 ppb	11:56:10
2	Fe 238.204 Radial†	195.3	187.4	5222.8 ug/L	5222.8 ppb	11:56:10
2	K 766.490 Radial†	12810.4	10743.8	4913.6 ug/L	4913.6 ppb	11:55:50
2	Mg 279.077 IEC†	52.7	52.5	5090.8 ug/L	5090.8 ppb	11:56:10
2	Na 589.592 Radial†	15267.0	16106.5	5378.9 ug/L	5378.9 ppb	11:55:50
2	Sr 421.552†	54591.4	54759.2	542.96 ug/L	542.96 ppb	11:55:50
2	Sc 361.383	842236.1	842236.1	100.90 %		11:57:14
2	Y 371.029	711536.4	711536.4	99.423 %		11:57:14
2	Ag 328.068†	98527.5	97492.1	495.76 ug/L	495.76 ppb	11:57:19
2	As 188.979†	909.8	917.6	514.50 ug/L	514.50 ppb	11:57:39
2	B 249.677†	17883.5	17814.6	497.08 ug/L	497.08 ppb	11:57:19
2	Ba 233.527†	55522.4	55035.7	515.31 ug/L	515.31 ppb	11:57:19
2	Be 313.107†	1190899.0	1183919.2	512.09 ug/L	512.09 ppb	11:57:14
2	Cd 226.502†	34816.9	34648.7	500.77 ug/L	500.77 ppb	11:57:19
2	Co 228.616†	19782.9	19650.5	509.70 ug/L	509.70 ppb	11:57:19
2	Cr 267.716†	39983.3	39561.9	516.77 ug/L	516.77 ppb	11:57:19
2	Cu 324.752†	169828.7	162247.7	522.11 ug/L	522.11 ppb	11:57:19
2	Mn 257.610†	401594.3	397632.7	521.37 ug/L	521.37 ppb	11:57:14
2	Mo 202.031†	6032.7	5965.3	515.35 ug/L	515.35 ppb	11:57:39
2	Ni 231.604†	16991.9	16787.7	528.83 ug/L	528.83 ppb	11:57:19

2	P 214.914†	974.4	790.4	498.65 ug/L	498.65 ppb	11:57:39
2	Pb 220.353†	3266.0	3280.9	509.48 ug/L	509.48 ppb	11:57:39
2	S 181.975 Axial†	2935.7	2878.7	5133.6 ug/L	5133.6 ppb	11:57:39
2	Sb 206.836†	1363.1	1322.5	566.80 ug/L	566.80 ppb	11:57:39
2	Se 196.026†	610.0	623.8	524.95 ug/L	524.95 ppb	11:57:39
2	Si 251.611†	137663.5	135986.6	5035.8 ug/L	5035.8 ppb	11:57:19
2	Sn 189.927†	2356.1	2327.3	529.45 ug/L	529.45 ppb	11:57:39
2	Ti 334.940†	299770.6	298064.6	506.44 ug/L	506.44 ppb	11:57:19
2	Tl 190.801†	1330.3	1349.6	526.96 ug/L	526.96 ppb	11:57:39
2	U 409.014†	16888.8	18741.8	545.56 ug/L	545.56 ppb	11:57:19
2	V 292.402†	66025.1	66684.6	527.49 ug/L	527.49 ppb	11:57:19
2	Zn 213.857†	43088.7	42202.9	507.21 ug/L	507.21 ppb	11:57:19
2	SiO2†	138373.7	136664.5	10722 ug/L	10722 ppb	11:58:20
3	Sc Radial	3347.9	3347.9	99.9 %		11:56:36
3	Y RADIAL	2717.8	2717.8	99.07 %		11:56:36
3	Al 396.153Radial†	2397.0	2458.8	5259.5 ug/L	5259.5 ppb	11:56:15
3	Ca 317.933Radial†	1307.5	1298.3	5152.3 ug/L	5152.3 ppb	11:56:36
3	Fe 238.204 Radial†	200.5	192.0	5352.7 ug/L	5352.7 ppb	11:56:36
3	K 766.490 Radial†	13055.9	10951.1	5008.4 ug/L	5008.4 ppb	11:56:15
3	Mg 279.077 IEC†	54.0	53.6	5199.3 ug/L	5199.3 ppb	11:56:36
3	Na 589.592 Radial†	15487.8	16281.8	5437.4 ug/L	5437.4 ppb	11:56:15
3	Sr 421.552†	55764.5	55769.8	552.98 ug/L	552.98 ppb	11:56:15
3	Sc 361.383	834852.9	834852.9	100.01 %		11:57:45
3	Y 371.029	705639.5	705639.5	98.599 %		11:57:45
3	Ag 328.068†	100921.9	100749.8	512.30 ug/L	512.30 ppb	11:57:50
3	As 188.979†	901.2	917.0	514.34 ug/L	514.34 ppb	11:58:10
3	B 249.677†	18396.6	18484.4	515.80 ug/L	515.80 ppb	11:57:50
3	Ba 233.527†	56620.8	56620.6	530.15 ug/L	530.15 ppb	11:57:50
3	Be 313.107†	1177728.7	1181189.0	510.95 ug/L	510.95 ppb	11:57:45
3	Cd 226.502†	35391.0	35528.0	513.47 ug/L	513.47 ppb	11:57:50
3	Co 228.616†	20082.3	20123.2	521.92 ug/L	521.92 ppb	11:57:50
3	Cr 267.716†	40637.3	40566.3	529.88 ug/L	529.88 ppb	11:57:50
3	Cu 324.752†	174857.1	168764.0	543.08 ug/L	543.08 ppb	11:57:50
3	Mn 257.610†	397740.6	397299.5	520.94 ug/L	520.94 ppb	11:57:45
3	Mo 202.031†	5970.1	5955.5	514.52 ug/L	514.52 ppb	11:58:10
3	Ni 231.604†	17237.2	17181.9	541.24 ug/L	541.24 ppb	11:57:50
3	P 214.914†	964.6	789.1	493.41 ug/L	493.41 ppb	11:58:10
3	Pb 220.353†	3251.1	3294.6	511.60 ug/L	511.60 ppb	11:58:10
3	S 181.975 Axial†	2911.5	2880.3	5136.4 ug/L	5136.4 ppb	11:58:10
3	Sb 206.836†	1352.0	1323.3	567.09 ug/L	567.09 ppb	11:58:10
3	Se 196.026†	601.6	620.7	522.83 ug/L	522.83 ppb	11:58:10
3	Si 251.611†	140712.4	140241.8	5193.6 ug/L	5193.6 ppb	11:57:50
3	Sn 189.927†	2335.0	2326.9	529.35 ug/L	529.35 ppb	11:58:10
3	Ti 334.940†	307059.2	307979.7	523.27 ug/L	523.27 ppb	11:57:50
3	Tl 190.801†	1308.1	1339.0	522.90 ug/L	522.90 ppb	11:58:10
3	U 409.014†	17576.8	19577.7	569.92 ug/L	569.92 ppb	11:57:50
3	V 292.402†	67382.4	68620.5	542.60 ug/L	542.60 ppb	11:57:50
3	Zn 213.857†	43841.4	43333.3	520.80 ug/L	520.80 ppb	11:57:50
3	SiO2†	139859.9	139363.0	10934 ug/L	10934 ppb	11:58:26

Mean Data: 1202042569|952959|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838615.8	100.46 %	0.442			0.44%
Sc Radial	3338.2	99.6 %	0.29			0.29%
Y 371.029	708955.9	99.063 %	0.4215			0.43%
Y RADIAL	2708.3	98.73 %	0.321			0.32%
Ag 328.068†	98984.0	503.34 ug/L	8.357	503.34 ppb	8.357	1.66%
Al 396.153Radial†	2438.8	5216.6 ug/L	61.29	5216.6 ppb	61.29	1.17%
As 188.979†	915.4	513.35 ug/L	1.852	513.35 ppb	1.852	0.36%
B 249.677†	18089.6	504.77 ug/L	9.800	504.77 ppb	9.800	1.94%
Ba 233.527†	55814.5	522.60 ug/L	7.423	522.60 ppb	7.423	1.42%
Be 313.107†	1182457.6	511.48 ug/L	0.575	511.48 ppb	0.575	0.11%
Ca 317.933Radial†	1298.1	5151.6 ug/L	38.73	5151.6 ppb	38.73	0.75%
Cd 226.502†	35092.0	507.17 ug/L	6.355	507.17 ppb	6.355	1.25%
Co 228.616†	19850.9	514.88 ug/L	6.321	514.88 ppb	6.321	1.23%
Cr 267.716†	40058.6	523.25 ug/L	6.560	523.25 ppb	6.560	1.25%
Cu 324.752†	165195.7	531.60 ug/L	10.624	531.60 ppb	10.624	2.00%
Fe 238.204 Radial†	189.6	5285.7 ug/L	65.02	5285.7 ppb	65.02	1.23%
K 766.490 Radial†	10958.0	4965.8 ug/L	48.16	4965.8 ppb	48.16	0.97%

Mg 279.077 IEC†	53.3	5169.7 ug/L	69.04	5169.7 ppb	69.04	1.34%
Mn 257.610†	397097.2	520.67 ug/L	0.866	520.67 ppb	0.866	0.17%
Mo 202.031†	5949.0	513.94 ug/L	1.763	513.94 ppb	1.763	0.34%
Na 589.592 Radial†	16269.8	5433.4 ug/L	52.62	5433.4 ppb	52.62	0.97%
Ni 231.604†	16971.3	534.61 ug/L	6.253	534.61 ppb	6.253	1.17%
P 214.914†	788.1	495.02 ug/L	3.151	495.02 ppb	3.151	0.64%
Pb 220.353†	3284.3	510.02 ug/L	1.395	510.02 ppb	1.395	0.27%
S 181.975 Axial†	2873.7	5124.6 ug/L	17.97	5124.6 ppb	17.97	0.35%
Sb 206.836†	1321.9	566.51 ug/L	0.769	566.51 ppb	0.769	0.14%
Se 196.026†	621.5	523.24 ug/L	1.554	523.24 ppb	1.554	0.30%
Si 251.611†	137942.4	5108.4 ug/L	79.66	5108.4 ppb	79.66	1.56%
Sn 189.927†	2330.4	530.15 ug/L	1.295	530.15 ppb	1.295	0.24%
Sr 421.552†	55449.3	549.80 ug/L	5.931	549.80 ppb	5.931	1.08%
Ti 334.940†	302712.5	514.33 ug/L	8.466	514.33 ppb	8.466	1.65%
Tl 190.801†	1339.3	523.00 ug/L	3.910	523.00 ppb	3.910	0.75%
U 409.014†	19174.1	558.16 ug/L	12.205	558.16 ppb	12.205	2.19%
V 292.402†	67609.4	534.70 ug/L	7.578	534.70 ppb	7.578	1.42%
Zn 213.857†	42719.8	513.42 ug/L	6.868	513.42 ppb	6.868	1.34%
SiO2†	138883.0	10896 ug/L	158.9	10896 ppb	158.9	1.46%

Sequence No.: 10

Sample ID: 1202042570|952949|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 45

Date Collected: 3/10/2010 12:00:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042570|952949|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3227.8	3227.8	96.3 %		12:02:49
1	Y RADIAL	2620.7	2620.7	95.53 %		12:02:49
1	Al 396.153Radial†	-54.0	4.0	8.5734 ug/L	8.5734 ppb	12:02:49
1	Ca 317.933Radial†	14.3	4.6	18.351 ug/L	18.351 ppb	12:02:49
1	Fe 238.204 Radial†	8.2	-0.1	-2.7391 ug/L	-2.7391 ppb	12:02:49
1	K 766.490 Radial†	1934.4	-106.6	-48.800 ug/L	-48.800 ppb	12:02:29
1	Mg 279.077 IEC†	-0.4	-0.9	-86.474 ug/L	-86.474 ppb	12:02:49
1	Na 589.592 Radial†	-708.7	47.0	15.698 ug/L	15.698 ppb	12:02:29
1	Sr 421.552†	28.8	-5.8	-0.0578 ug/L	-0.0578 ppb	12:02:29
1	Sc 361.383	814177.8	814177.8	97.536 %		12:03:46
1	Y 371.029	696076.4	696076.4	97.263 %		12:03:46
1	Ag 328.068†	153.4	-1.8	-0.0102 ug/L	-0.0102 ppb	12:03:46
1	As 188.979†	-20.6	-5.1	-2.8535 ug/L	-2.8535 ppb	12:04:06
1	B 249.677†	-228.3	-143.8	-4.0309 ug/L	-4.0309 ppb	12:04:06
1	Ba 233.527†	22.5	30.3	0.2830 ug/L	0.2830 ppb	12:04:06
1	Be 313.107†	-3498.0	26.2	0.0117 ug/L	0.0117 ppb	12:03:46
1	Cd 226.502†	-138.9	-0.8	-0.0110 ug/L	-0.0110 ppb	12:04:06
1	Co 228.616†	-49.3	-6.9	-0.1797 ug/L	-0.1797 ppb	12:04:06
1	Cr 267.716†	82.1	18.5	0.2407 ug/L	0.2407 ppb	12:04:06
1	Cu 324.752†	6404.6	496.0	1.5955 ug/L	1.5955 ppb	12:03:46
1	Mn 257.610†	534.4	158.2	0.2106 ug/L	0.2106 ppb	12:04:06
1	Mo 202.031†	17.1	3.8	0.3249 ug/L	0.3249 ppb	12:04:06
1	Ni 231.604†	92.5	41.8	1.3188 ug/L	1.3188 ppb	12:04:06
1	P 214.914†	180.1	9.3	6.7180 ug/L	6.7180 ppb	12:04:06
1	Pb 220.353†	-33.5	9.6	1.4873 ug/L	1.4873 ppb	12:04:06
1	S 181.975 Axial†	30.9	0.8	1.4457 ug/L	1.4457 ppb	12:04:06
1	Sb 206.836†	17.6	-10.4	-4.3192 ug/L	-4.3192 ppb	12:04:06
1	Se 196.026†	-13.5	5.4	4.3768 ug/L	4.3768 ppb	12:04:06
1	Si 251.611†	551.5	113.1	4.1880 ug/L	4.1880 ppb	12:04:06
1	Sn 189.927†	7.5	-0.2	-0.0364 ug/L	-0.0364 ppb	12:04:06
1	Ti 334.940†	-834.5	104.7	0.1870 ug/L	0.1870 ppb	12:03:46
1	Tl 190.801†	-16.0	14.6	5.6809 ug/L	5.6809 ppb	12:04:06
1	U 409.014†	-1924.1	30.4	0.8878 ug/L	0.8878 ppb	12:03:46
1	V 292.402†	-1187.7	29.0	0.2312 ug/L	0.2312 ppb	12:03:46
1	Zn 213.857†	793.1	310.7	3.7592 ug/L	3.7592 ppb	12:04:06
1	SiO2†	540.3	75.4	5.9177 ug/L	5.9177 ppb	12:05:17
2	Sc Radial	3234.0	3234.0	96.5 %		12:03:14
2	Y RADIAL	2633.2	2633.2	95.99 %		12:03:14
2	Al 396.153Radial†	-59.3	-1.4	-3.0851 ug/L	-3.0851 ppb	12:03:14
2	Ca 317.933Radial†	15.5	5.8	23.018 ug/L	23.018 ppb	12:03:14
2	Fe 238.204 Radial†	8.5	0.2	4.7384 ug/L	4.7384 ppb	12:03:14
2	K 766.490 Radial†	1989.1	-53.7	-24.593 ug/L	-24.593 ppb	12:02:54
2	Mg 279.077 IEC†	-0.8	-1.2	-120.59 ug/L	-120.59 ppb	12:03:14
2	Na 589.592 Radial†	-729.2	27.1	9.0597 ug/L	9.0597 ppb	12:02:54
2	Sr 421.552†	26.9	-7.8	-0.0777 ug/L	-0.0777 ppb	12:02:54
2	Sc 361.383	804354.1	804354.1	96.359 %		12:04:11
2	Y 371.029	686622.1	686622.1	95.942 %		12:04:11
2	Ag 328.068†	122.4	-32.1	-0.1588 ug/L	-0.1588 ppb	12:04:11
2	As 188.979†	-16.1	-0.7	-0.4098 ug/L	-0.4098 ppb	12:04:31
2	B 249.677†	-232.5	-151.0	-4.2342 ug/L	-4.2342 ppb	12:04:31
2	Ba 233.527†	19.5	27.4	0.2552 ug/L	0.2552 ppb	12:04:31
2	Be 313.107†	-3468.3	13.2	0.0057 ug/L	0.0057 ppb	12:04:11
2	Cd 226.502†	-137.5	-1.1	-0.0167 ug/L	-0.0167 ppb	12:04:31
2	Co 228.616†	-44.4	-2.5	-0.0636 ug/L	-0.0636 ppb	12:04:31
2	Cr 267.716†	70.9	7.8	0.1038 ug/L	0.1038 ppb	12:04:31
2	Cu 324.752†	6275.6	442.3	1.4261 ug/L	1.4261 ppb	12:04:11
2	Mn 257.610†	534.6	165.1	0.2218 ug/L	0.2218 ppb	12:04:31
2	Mo 202.031†	17.2	4.1	0.3550 ug/L	0.3550 ppb	12:04:31
2	Ni 231.604†	80.5	30.5	0.9615 ug/L	0.9615 ppb	12:04:31

2	P 214.914†	174.5	5.7	4.0314 ug/L	4.0314 ppb	12:04:31
2	Pb 220.353†	-63.4	-21.8	-3.3810 ug/L	-3.3810 ppb	12:04:31
2	S 181.975 Axial†	32.8	3.1	5.6157 ug/L	5.6157 ppb	12:04:31
2	Sb 206.836†	20.1	-7.6	-3.1518 ug/L	-3.1518 ppb	12:04:31
2	Se 196.026†	-16.6	2.0	1.6364 ug/L	1.6364 ppb	12:04:31
2	Si 251.611†	534.9	102.7	3.8044 ug/L	3.8044 ppb	12:04:31
2	Sn 189.927†	8.1	0.6	0.1368 ug/L	0.1368 ppb	12:04:31
2	Ti 334.940†	-926.7	-1.5	0.0124 ug/L	0.0124 ppb	12:04:11
2	Tl 190.801†	-26.8	3.3	1.2667 ug/L	1.2667 ppb	12:04:31
2	U 409.014†	-2085.2	-160.9	-4.6982 ug/L	-4.6982 ppb	12:04:11
2	V 292.402†	-1256.8	-57.5	-0.4562 ug/L	-0.4562 ppb	12:04:11
2	Zn 213.857†	794.4	322.0	3.8981 ug/L	3.8981 ppb	12:04:31
2	SiO2†	540.1	82.0	6.4329 ug/L	6.4329 ppb	12:05:37
3	Sc Radial	3254.8	3254.8	97.1 %		12:03:39
3	Y RADIAL	2640.0	2640.0	96.24 %		12:03:39
3	Al 396.153Radial†	-63.5	-5.3	-11.490 ug/L	-11.490 ppb	12:03:39
3	Ca 317.933Radial†	18.2	8.5	33.907 ug/L	33.907 ppb	12:03:39
3	Fe 238.204 Radial†	8.0	-0.4	-10.013 ug/L	-10.013 ppb	12:03:39
3	K 766.490 Radial†	2029.1	-25.7	-11.802 ug/L	-11.802 ppb	12:03:19
3	Mg 279.077 IEC†	2.1	1.7	165.33 ug/L	165.33 ppb	12:03:39
3	Na 589.592 Radial†	-733.9	27.1	9.0611 ug/L	9.0611 ppb	12:03:19
3	Sr 421.552†	59.2	25.3	0.2503 ug/L	0.2503 ppb	12:03:19
3	Sc 361.383	815827.3	815827.3	97.734 %		12:04:36
3	Y 371.029	696395.9	696395.9	97.308 %		12:04:36
3	Ag 328.068†	164.7	9.5	0.0434 ug/L	0.0434 ppb	12:04:36
3	As 188.979†	-20.8	-5.3	-2.9305 ug/L	-2.9305 ppb	12:04:56
3	B 249.677†	-232.2	-147.4	-4.1303 ug/L	-4.1303 ppb	12:04:56
3	Ba 233.527†	25.0	32.8	0.3053 ug/L	0.3053 ppb	12:04:56
3	Be 313.107†	-3436.4	96.4	0.0419 ug/L	0.0419 ppb	12:04:36
3	Cd 226.502†	-131.1	7.5	0.1098 ug/L	0.1098 ppb	12:04:56
3	Co 228.616†	-50.4	-8.0	-0.2071 ug/L	-0.2071 ppb	12:04:56
3	Cr 267.716†	75.9	11.9	0.1544 ug/L	0.1544 ppb	12:04:56
3	Cu 324.752†	6350.6	427.4	1.3752 ug/L	1.3752 ppb	12:04:36
3	Mn 257.610†	520.2	142.6	0.1792 ug/L	0.1792 ppb	12:04:56
3	Mo 202.031†	13.9	0.5	0.0387 ug/L	0.0387 ppb	12:04:56
3	Ni 231.604†	87.0	36.0	1.1352 ug/L	1.1352 ppb	12:04:56
3	P 214.914†	182.0	10.8	7.9144 ug/L	7.9144 ppb	12:04:56
3	Pb 220.353†	-49.1	-6.3	-0.9775 ug/L	-0.9775 ppb	12:04:56
3	S 181.975 Axial†	38.1	8.1	14.472 ug/L	14.472 ppb	12:04:56
3	Sb 206.836†	18.9	-9.1	-3.7756 ug/L	-3.7756 ppb	12:04:56
3	Se 196.026†	-25.5	-6.9	-5.6516 ug/L	-5.6516 ppb	12:04:56
3	Si 251.611†	544.9	105.1	3.8965 ug/L	3.8965 ppb	12:04:56
3	Sn 189.927†	7.0	-0.7	-0.1526 ug/L	-0.1526 ppb	12:04:56
3	Ti 334.940†	-859.6	80.8	0.1284 ug/L	0.1284 ppb	12:04:36
3	Tl 190.801†	-24.3	6.2	2.4224 ug/L	2.4224 ppb	12:04:56
3	U 409.014†	-1968.0	-10.5	-0.3056 ug/L	-0.3056 ppb	12:04:36
3	V 292.402†	-1254.2	-36.5	-0.2805 ug/L	-0.2805 ppb	12:04:36
3	Zn 213.857†	794.1	310.1	3.7548 ug/L	3.7548 ppb	12:04:56
3	SiO2†	577.9	112.8	8.8621 ug/L	8.8621 ppb	12:05:57

Mean Data: 1202042570|952949|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	811453.1	97.210 %		0.7431			0.76%
Sc Radial	3238.9	96.7 %		0.42			0.44%
Y 371.029	693031.5	96.837 %		0.7759			0.80%
Y RADIAL	2631.3	95.92 %		0.357			0.37%
Ag 328.068†	-8.1	-0.0419 ug/L		0.10479	-0.0419 ppb	0.10479	250.37%
Al 396.153Radial†	-0.9	-2.0006 ug/L		10.07564	-2.0006 ppb	10.07564	503.62%
As 188.979†	-3.7	-2.0646 ug/L		1.43362	-2.0646 ppb	1.43362	69.44%
B 249.677†	-147.4	-4.1318 ug/L		0.10168	-4.1318 ppb	0.10168	2.46%
Ba 233.527†	30.2	0.2812 ug/L		0.02513	0.2812 ppb	0.02513	8.94%
Be 313.107†	45.3	0.0198 ug/L		0.01942	0.0198 ppb	0.01942	98.14%
Ca 317.933Radial†	6.3	25.092 ug/L		7.9825	25.092 ppb	7.9825	31.81%
Cd 226.502†	1.8	0.0274 ug/L		0.07143	0.0274 ppb	0.07143	260.96%
Co 228.616†	-5.8	-0.1501 ug/L		0.07618	-0.1501 ppb	0.07618	50.74%
Cr 267.716†	12.7	0.1663 ug/L		0.06919	0.1663 ppb	0.06919	41.61%
Cu 324.752†	455.2	1.4656 ug/L		0.11534	1.4656 ppb	0.11534	7.87%
Fe 238.204 Radial†	-0.1	-2.6711 ug/L		7.37574	-2.6711 ppb	7.37574	276.13%
K 766.490 Radial†	-62.0	-28.399 ug/L		18.7904	-28.399 ppb	18.7904	66.17%

Mg 279.077 IEC†	-0.1	-13.913 ug/L	156.1614	-13.913 ppb	156.1614 >999.9%
Mn 257.610†	155.3	0.2039 ug/L	0.02211	0.2039 ppb	0.02211 10.85%
Mo 202.031†	2.8	0.2395 ug/L	0.17454	0.2395 ppb	0.17454 72.87%
Na 589.592 Radial†	33.8	11.273 ug/L	3.8324	11.273 ppb	3.8324 34.00%
Ni 231.604†	36.1	1.1385 ug/L	0.17869	1.1385 ppb	0.17869 15.70%
P 214.914†	8.6	6.2212 ug/L	1.98859	6.2212 ppb	1.98859 31.96%
Pb 220.353†	-6.2	-0.9571 ug/L	2.43423	-0.9571 ppb	2.43423 254.34%
S 181.975 Axial†	4.0	7.1777 ug/L	6.65204	7.1777 ppb	6.65204 92.68%
Sb 206.836†	-9.1	-3.7489 ug/L	0.58418	-3.7489 ppb	0.58418 15.58%
Se 196.026†	0.2	0.1205 ug/L	5.18320	0.1205 ppb	5.18320 >999.9%
Si 251.611†	107.0	3.9630 ug/L	0.20022	3.9630 ppb	0.20022 5.05%
Sn 189.927†	-0.1	-0.0174 ug/L	0.14564	-0.0174 ppb	0.14564 836.05%
Sr 421.552†	3.9	0.0383 ug/L	0.18386	0.0383 ppb	0.18386 480.32%
Ti 334.940†	61.3	0.1093 ug/L	0.08884	0.1093 ppb	0.08884 81.31%
Tl 190.801†	8.0	3.1233 ug/L	2.28905	3.1233 ppb	2.28905 73.29%
U 409.014†	-47.0	-1.3720 ug/L	2.94174	-1.3720 ppb	2.94174 214.41%
V 292.402†	-21.7	-0.1685 ug/L	0.35711	-0.1685 ppb	0.35711 211.90%
Zn 213.857†	314.2	3.8040 ug/L	0.08148	3.8040 ppb	0.08148 2.14%
SiO2†	90.1	7.0709 ug/L	1.57249	7.0709 ppb	1.57249 22.24%

Sequence No.: 16

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/10/2010 12:43:34

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	3447.3	3447.3	103 %		12:45:47
1	Y RADIAL	2809.9	2809.9	102.4 %		12:45:47
1	Al 396.153Radial†	2295.0	2290.6	4898.4 ug/L	4898.4 ppb	12:45:27
1	Ca 317.933Radial†	1274.5	1228.5	4875.2 ug/L	4875.2 ppb	12:45:47
1	Fe 238.204 Radial†	193.9	179.8	5012.5 ug/L	5012.5 ppb	12:45:47
1	K 766.490 Radial†	12865.5	10389.7	4749.7 ug/L	4749.7 ppb	12:45:27
1	Mg 279.077 IEC†	53.3	51.4	4984.9 ug/L	4984.9 ppb	12:45:47
1	Na 589.592 Radial†	30868.3	30783.7	10280 ug/L	10280 ppb	12:45:27
1	Sr 421.552†	53795.2	52248.3	518.06 ug/L	518.06 ppb	12:45:27
1	Sc 361.383	837594.9	837594.9	100.34 %		12:46:44
1	Y 371.029	708929.3	708929.3	99.059 %		12:46:44
1	Ag 328.068†	100045.3	99545.8	506.02 ug/L	506.02 ppb	12:46:49
1	As 188.979†	879.3	892.3	500.25 ug/L	500.25 ppb	12:47:09
1	B 249.677†	17381.7	17412.7	485.86 ug/L	485.86 ppb	12:46:49
1	Ba 233.527†	53541.6	53366.6	499.66 ug/L	499.66 ppb	12:46:49
1	Be 313.107†	1161276.7	1160937.9	502.13 ug/L	502.13 ppb	12:46:44
1	Cd 226.502†	34511.9	34536.1	499.14 ug/L	499.14 ppb	12:46:49
1	Co 228.616†	19589.7	19566.6	507.53 ug/L	507.53 ppb	12:46:49
1	Cr 267.716†	38476.2	38279.6	500.01 ug/L	500.01 ppb	12:46:49
1	Cu 324.752†	161478.8	154858.9	498.34 ug/L	498.34 ppb	12:46:49
1	Mn 257.610†	382468.2	380777.1	499.27 ug/L	499.27 ppb	12:46:44
1	Mo 202.031†	5851.7	5818.0	502.62 ug/L	502.62 ppb	12:47:09
1	Ni 231.604†	16200.7	16092.5	506.91 ug/L	506.91 ppb	12:46:49
1	P 214.914†	3502.0	3314.7	2420.5 ug/L	2420.5 ppb	12:47:09
1	Pb 220.353†	3237.0	3269.9	507.74 ug/L	507.74 ppb	12:47:09
1	S 181.975 Axial†	581.3	548.4	977.29 ug/L	977.29 ppb	12:47:09
1	Sb 206.836†	1256.9	1224.1	525.39 ug/L	525.39 ppb	12:47:09
1	Se 196.026†	610.1	627.2	527.05 ug/L	527.05 ppb	12:47:09
1	Si 251.611†	67680.7	66998.1	2478.0 ug/L	2478.0 ppb	12:46:49
1	Sn 189.927†	2239.1	2223.6	505.86 ug/L	505.86 ppb	12:47:09
1	Ti 334.940†	288331.3	288310.5	489.86 ug/L	489.86 ppb	12:46:49
1	Tl 190.801†	1275.4	1302.2	508.39 ug/L	508.39 ppb	12:47:09
1	U 409.014†	15758.4	17707.9	515.43 ug/L	515.43 ppb	12:46:49
1	V 292.402†	62893.9	63926.6	505.78 ug/L	505.78 ppb	12:46:49
1	Zn 213.857†	41895.5	41250.5	495.86 ug/L	495.86 ppb	12:46:49
1	SiO2†	67684.0	66975.2	5247.5 ug/L	5247.5 ppb	12:48:17
2	Sc Radial	3332.8	3332.8	99.5 %		12:46:12
2	Y RADIAL	2712.3	2712.3	98.87 %		12:46:12
2	Al 396.153Radial†	2265.0	2337.0	4998.6 ug/L	4998.6 ppb	12:45:52
2	Ca 317.933Radial†	1270.3	1266.8	5027.6 ug/L	5027.6 ppb	12:46:12
2	Fe 238.204 Radial†	193.6	186.0	5185.7 ug/L	5185.7 ppb	12:46:12
2	K 766.490 Radial†	12755.3	10708.3	4895.4 ug/L	4895.4 ppb	12:45:52
2	Mg 279.077 IEC†	53.8	53.6	5201.8 ug/L	5201.8 ppb	12:46:12
2	Na 589.592 Radial†	30200.8	31143.1	10400 ug/L	10400 ppb	12:45:52
2	Sr 421.552†	52985.8	53230.2	527.80 ug/L	527.80 ppb	12:45:52
2	Sc 361.383	850981.6	850981.6	101.95 %		12:47:15
2	Y 371.029	719875.8	719875.8	100.59 %		12:47:15
2	Ag 328.068†	100178.9	98108.4	498.79 ug/L	498.79 ppb	12:47:20
2	As 188.979†	891.0	889.9	498.95 ug/L	498.95 ppb	12:47:40
2	B 249.677†	17546.3	17301.7	482.73 ug/L	482.73 ppb	12:47:20
2	Ba 233.527†	53798.0	52778.7	494.16 ug/L	494.16 ppb	12:47:20
2	Be 313.107†	1181827.9	1162891.2	502.96 ug/L	502.96 ppb	12:47:15
2	Cd 226.502†	34787.0	34264.8	495.19 ug/L	495.19 ppb	12:47:20
2	Co 228.616†	19758.7	19425.3	503.86 ug/L	503.86 ppb	12:47:20
2	Cr 267.716†	38612.7	37810.2	493.89 ug/L	493.89 ppb	12:47:20
2	Cu 324.752†	162127.4	152963.5	492.26 ug/L	492.26 ppb	12:47:20
2	Mn 257.610†	389212.6	381396.8	500.09 ug/L	500.09 ppb	12:47:15
2	Mo 202.031†	5845.6	5720.3	494.20 ug/L	494.20 ppb	12:47:40
2	Ni 231.604†	16267.5	15904.1	500.98 ug/L	500.98 ppb	12:47:20

2	P 214.914†	3487.4	3245.5	2369.0 ug/L	2369.0 ppb	12:47:40
2	Pb 220.353†	3220.3	3202.8	497.33 ug/L	497.33 ppb	12:47:40
2	S 181.975 Axial†	581.0	539.1	960.55 ug/L	960.55 ppb	12:47:40
2	Sb 206.836†	1257.9	1205.4	517.33 ug/L	517.33 ppb	12:47:40
2	Se 196.026†	607.5	615.1	517.64 ug/L	517.64 ppb	12:47:40
2	Si 251.611†	68139.3	66386.8	2455.4 ug/L	2455.4 ppb	12:47:20
2	Sn 189.927†	2241.6	2191.0	498.47 ug/L	498.47 ppb	12:47:40
2	Ti 334.940†	289226.5	284668.3	483.68 ug/L	483.68 ppb	12:47:20
2	Tl 190.801†	1269.1	1275.9	498.19 ug/L	498.19 ppb	12:47:40
2	U 409.014†	15529.9	17236.7	501.66 ug/L	501.66 ppb	12:47:20
2	V 292.402†	63031.2	63075.4	498.97 ug/L	498.97 ppb	12:47:20
2	Zn 213.857†	42190.9	40883.5	491.42 ug/L	491.42 ppb	12:47:20
2	SiO2†	68377.9	66594.7	5217.8 ug/L	5217.8 ppb	12:48:22
3	Sc Radial	3345.8	3345.8	99.9 %		12:46:37
3	Y RADIAL	2723.7	2723.7	99.29 %		12:46:37
3	Al 396.153Radial†	2288.0	2351.2	5028.9 ug/L	5028.9 ppb	12:46:17
3	Ca 317.933Radial†	1271.6	1263.1	5012.9 ug/L	5012.9 ppb	12:46:37
3	Fe 238.204 Radial†	192.8	184.5	5142.3 ug/L	5142.3 ppb	12:46:37
3	K 766.490 Radial†	12736.8	10639.9	4864.1 ug/L	4864.1 ppb	12:46:17
3	Mg 279.077 IEC†	53.2	52.8	5124.5 ug/L	5124.5 ppb	12:46:37
3	Na 589.592 Radial†	30353.7	31178.1	10412 ug/L	10412 ppb	12:46:17
3	Sr 421.552†	53132.5	53169.9	527.20 ug/L	527.20 ppb	12:46:17
3	Sc 361.383	846032.5	846032.5	101.35 %		12:47:46
3	Y 371.029	715497.1	715497.1	99.977 %		12:47:46
3	Ag 328.068†	101484.4	99971.4	508.22 ug/L	508.22 ppb	12:47:51
3	As 188.979†	892.3	896.4	502.59 ug/L	502.59 ppb	12:48:11
3	B 249.677†	17795.1	17647.9	492.41 ug/L	492.41 ppb	12:47:51
3	Ba 233.527†	54382.3	53663.9	502.45 ug/L	502.45 ppb	12:47:51
3	Be 313.107†	1175567.8	1163496.1	503.25 ug/L	503.25 ppb	12:47:46
3	Cd 226.502†	35180.7	34852.9	503.71 ug/L	503.71 ppb	12:47:51
3	Co 228.616†	20013.1	19789.7	513.30 ug/L	513.30 ppb	12:47:51
3	Cr 267.716†	38955.1	38369.6	501.20 ug/L	501.20 ppb	12:47:51
3	Cu 324.752†	164310.9	156048.3	502.18 ug/L	502.18 ppb	12:47:51
3	Mn 257.610†	387610.2	382049.1	500.94 ug/L	500.94 ppb	12:47:46
3	Mo 202.031†	5840.4	5748.7	496.65 ug/L	496.65 ppb	12:48:11
3	Ni 231.604†	16454.7	16182.1	509.73 ug/L	509.73 ppb	12:47:51
3	P 214.914†	3488.3	3266.3	2382.9 ug/L	2382.9 ppb	12:48:11
3	Pb 220.353†	3212.0	3213.1	498.93 ug/L	498.93 ppb	12:48:11
3	S 181.975 Axial†	576.6	538.0	958.68 ug/L	958.68 ppb	12:48:11
3	Sb 206.836†	1254.1	1208.9	518.89 ug/L	518.89 ppb	12:48:11
3	Se 196.026†	599.2	610.4	513.75 ug/L	513.75 ppb	12:48:11
3	Si 251.611†	68910.9	67539.1	2498.1 ug/L	2498.1 ppb	12:47:51
3	Sn 189.927†	2245.1	2207.4	502.18 ug/L	502.18 ppb	12:48:11
3	Ti 334.940†	293034.2	290084.8	492.88 ug/L	492.88 ppb	12:47:51
3	Tl 190.801†	1273.4	1287.5	502.71 ug/L	502.71 ppb	12:48:11
3	U 409.014†	15863.8	17655.3	513.87 ug/L	513.87 ppb	12:47:51
3	V 292.402†	63853.3	64248.1	508.18 ug/L	508.18 ppb	12:47:51
3	Zn 213.857†	42612.2	41541.2	499.34 ug/L	499.34 ppb	12:47:51
3	SiO2†	67745.2	66362.8	5199.5 ug/L	5199.5 ppb	12:48:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	844869.7	101.21 %	0.811			0.80%
Sc Radial	3375.3	101 %	1.9			1.86%
Y 371.029	714767.4	99.875 %	0.7699			0.77%
Y RADIAL	2748.6	100.2 %	1.95			1.94%
Ag 328.068†	99208.5	504.34 ug/L	4.931	504.34 ppb	4.931	0.98%
QC value within limits for Ag 328.068 Recovery = 100.87%						
Al 396.153Radial†	2326.2	4975.3 ug/L	68.31	4975.3 ppb	68.31	1.37%
QC value within limits for Al 396.153Radial Recovery = 99.51%						
As 188.979†	892.9	500.60 ug/L	1.846	500.60 ppb	1.846	0.37%
QC value within limits for As 188.979 Recovery = 100.12%						
B 249.677†	17454.1	487.00 ug/L	4.942	487.00 ppb	4.942	1.01%
QC value within limits for B 249.677 Recovery = 97.40%						
Ba 233.527†	53269.7	498.76 ug/L	4.216	498.76 ppb	4.216	0.85%
QC value within limits for Ba 233.527 Recovery = 99.75%						
Be 313.107†	1162441.8	502.78 ug/L	0.577	502.78 ppb	0.577	0.11%
QC value within limits for Be 313.107 Recovery = 100.56%						
Ca 317.933Radial†	1252.8	4971.9 ug/L	84.03	4971.9 ppb	84.03	1.69%

QC value within limits for Ca 317.933 Radial Recovery = 99.44%

Cd	226.502†	34551.2	499.35 ug/L	4.261	499.35 ppb	4.261	0.85%
QC value within limits for Cd 226.502 Recovery = 99.87%							
Co	228.616†	19593.8	508.23 ug/L	4.758	508.23 ppb	4.758	0.94%
QC value within limits for Co 228.616 Recovery = 101.65%							
Cr	267.716†	38153.1	498.37 ug/L	3.919	498.37 ppb	3.919	0.79%
QC value within limits for Cr 267.716 Recovery = 99.67%							
Cu	324.752†	154623.6	497.59 ug/L	5.001	497.59 ppb	5.001	1.01%
QC value within limits for Cu 324.752 Recovery = 99.52%							
Fe	238.204 Radial†	183.4	5113.5 ug/L	90.12	5113.5 ppb	90.12	1.76%
QC value within limits for Fe 238.204 Radial Recovery = 102.27%							
K	766.490 Radial†	10579.3	4836.4 ug/L	76.74	4836.4 ppb	76.74	1.59%
QC value within limits for K 766.490 Radial Recovery = 96.73%							
Mg	279.077 IEC†	52.6	5103.7 ug/L	109.91	5103.7 ppb	109.91	2.15%
QC value within limits for Mg 279.077 IEC Recovery = 102.07%							
Mn	257.610†	381407.7	500.10 ug/L	0.837	500.10 ppb	0.837	0.17%
QC value within limits for Mn 257.610 Recovery = 100.02%							
Mo	202.031†	5762.3	497.82 ug/L	4.333	497.82 ppb	4.333	0.87%
QC value within limits for Mo 202.031 Recovery = 99.56%							
Na	589.592 Radial†	31034.9	10364 ug/L	72.9	10364 ppb	72.9	0.70%
QC value within limits for Na 589.592 Radial Recovery = 103.64%							
Ni	231.604†	16059.6	505.88 ug/L	4.470	505.88 ppb	4.470	0.88%
QC value within limits for Ni 231.604 Recovery = 101.18%							
P	214.914†	3275.5	2390.8 ug/L	26.66	2390.8 ppb	26.66	1.12%
QC value within limits for P 214.914 Recovery = 95.63%							
Pb	220.353†	3228.6	501.33 ug/L	5.607	501.33 ppb	5.607	1.12%
QC value within limits for Pb 220.353 Recovery = 100.27%							
S	181.975 Axial†	541.8	965.51 ug/L	10.246	965.51 ppb	10.246	1.06%
QC value within limits for S 181.975 Axial Recovery = 96.55%							
Sb	206.836†	1212.8	520.54 ug/L	4.272	520.54 ppb	4.272	0.82%
QC value within limits for Sb 206.836 Recovery = 104.11%							
Se	196.026†	617.6	519.48 ug/L	6.838	519.48 ppb	6.838	1.32%
QC value within limits for Se 196.026 Recovery = 103.90%							
Si	251.611†	66974.6	2477.2 ug/L	21.36	2477.2 ppb	21.36	0.86%
QC value within limits for Si 251.611 Recovery = 99.09%							
Sn	189.927†	2207.3	502.17 ug/L	3.697	502.17 ppb	3.697	0.74%
QC value within limits for Sn 189.927 Recovery = 100.43%							
Sr	421.552†	52882.8	524.35 ug/L	5.456	524.35 ppb	5.456	1.04%
QC value within limits for Sr 421.552 Recovery = 104.87%							
Ti	334.940†	287687.9	488.80 ug/L	4.690	488.80 ppb	4.690	0.96%
QC value within limits for Ti 334.940 Recovery = 97.76%							
Tl	190.801†	1288.5	503.10 ug/L	5.107	503.10 ppb	5.107	1.02%
QC value within limits for Tl 190.801 Recovery = 100.62%							
U	409.014†	17533.3	510.32 ug/L	7.539	510.32 ppb	7.539	1.48%
QC value within limits for U 409.014 Recovery = 102.06%							
V	292.402†	63750.0	504.31 ug/L	4.775	504.31 ppb	4.775	0.95%
QC value within limits for V 292.402 Recovery = 100.86%							
Zn	213.857†	41225.1	495.54 ug/L	3.968	495.54 ppb	3.968	0.80%
QC value within limits for Zn 213.857 Recovery = 99.11%							
SiO2†		66644.3	5221.6 ug/L	24.19	5221.6 ppb	24.19	0.46%
QC value within limits for SiO2 Recovery = 97.65%							

All analyte(s) passed QC.

Sequence No.: 17

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/10/2010 12:50:37

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	3227.9	3227.9	96.3 %		12:52:50
1	Y RADIAL	2653.3	2653.3	96.72 %		12:52:50
1	Al 396.153Radial†	-58.1	-0.3	-0.5576 ug/L	-0.5576 ppb	12:52:50
1	Ca 317.933Radial†	14.0	4.4	17.295 ug/L	17.295 ppb	12:52:50
1	Fe 238.204 Radial†	9.7	1.5	40.644 ug/L	40.644 ppb	12:52:50
1	K 766.490 Radial†	2082.9	47.6	21.782 ug/L	21.782 ppb	12:52:29
1	Mg 279.077 IEC†	2.6	2.2	217.50 ug/L	217.50 ppb	12:52:50
1	Na 589.592 Radial†	-804.1	-52.0	-17.362 ug/L	-17.362 ppb	12:52:29
1	Sr 421.552†	32.9	-1.5	-0.0154 ug/L	-0.0154 ppb	12:52:29
1	Sc 361.383	798976.1	798976.1	95.715 %		12:53:46
1	Y 371.029	684307.5	684307.5	95.618 %		12:53:46
1	Ag 328.068†	107.6	-46.7	-0.2256 ug/L	-0.2256 ppb	12:53:46
1	As 188.979†	-16.5	-1.3	-0.6969 ug/L	-0.6969 ppb	12:54:06
1	B 249.677†	-272.0	-193.9	-5.4440 ug/L	-5.4440 ppb	12:54:06
1	Ba 233.527†	0.1	7.3	0.0681 ug/L	0.0681 ppb	12:54:06
1	Be 313.107†	-3475.4	-18.5	-0.0079 ug/L	-0.0079 ppb	12:53:46
1	Cd 226.502†	-145.2	-10.1	-0.1500 ug/L	-0.1500 ppb	12:54:06
1	Co 228.616†	-32.7	9.4	0.2431 ug/L	0.2431 ppb	12:54:06
1	Cr 267.716†	74.0	11.6	0.1519 ug/L	0.1519 ppb	12:54:06
1	Cu 324.752†	6206.4	413.8	1.3337 ug/L	1.3337 ppb	12:53:46
1	Mn 257.610†	459.8	90.7	0.1140 ug/L	0.1140 ppb	12:54:06
1	Mo 202.031†	17.1	4.1	0.3582 ug/L	0.3582 ppb	12:54:06
1	Ni 231.604†	61.3	11.0	0.3466 ug/L	0.3466 ppb	12:54:06
1	P 214.914†	179.4	12.0	8.8324 ug/L	8.8324 ppb	12:54:06
1	Pb 220.353†	-54.3	-12.8	-1.9848 ug/L	-1.9848 ppb	12:54:06
1	S 181.975 Axial†	30.4	0.9	1.5742 ug/L	1.5742 ppb	12:54:06
1	Sb 206.836†	34.2	7.2	2.9854 ug/L	2.9854 ppb	12:54:06
1	Se 196.026†	-11.8	6.9	5.7418 ug/L	5.7418 ppb	12:54:06
1	Si 251.611†	470.1	38.8	1.4330 ug/L	1.4330 ppb	12:54:06
1	Sn 189.927†	6.1	-1.5	-0.3345 ug/L	-0.3345 ppb	12:54:06
1	Ti 334.940†	-890.5	29.9	0.0351 ug/L	0.0351 ppb	12:53:46
1	Tl 190.801†	-26.1	3.8	1.4922 ug/L	1.4922 ppb	12:54:06
1	U 409.014†	-1897.4	20.8	0.6017 ug/L	0.6017 ppb	12:53:46
1	V 292.402†	-1246.6	-55.7	-0.4303 ug/L	-0.4303 ppb	12:53:46
1	Zn 213.857†	514.8	35.4	0.4194 ug/L	0.4194 ppb	12:54:06
1	SiO2†	479.5	22.5	1.7561 ug/L	1.7561 ppb	12:55:17
2	Sc Radial	3261.6	3261.6	97.3 %		12:53:15
2	Y RADIAL	2668.5	2668.5	97.27 %		12:53:15
2	Al 396.153Radial†	-65.2	-6.9	-14.917 ug/L	-14.917 ppb	12:53:15
2	Ca 317.933Radial†	12.3	2.4	9.4804 ug/L	9.4804 ppb	12:53:15
2	Fe 238.204 Radial†	6.6	-1.8	-51.294 ug/L	-51.294 ppb	12:53:15
2	K 766.490 Radial†	1996.0	-64.1	-29.343 ug/L	-29.343 ppb	12:52:55
2	Mg 279.077 IEC†	-0.2	-0.7	-65.927 ug/L	-65.927 ppb	12:53:15
2	Na 589.592 Radial†	-767.8	-6.2	-2.0548 ug/L	-2.0548 ppb	12:52:55
2	Sr 421.552†	38.7	4.1	0.0405 ug/L	0.0405 ppb	12:52:55
2	Sc 361.383	803411.8	803411.8	96.246 %		12:54:12
2	Y 371.029	687662.4	687662.4	96.087 %		12:54:12
2	Ag 328.068†	80.3	-75.7	-0.3989 ug/L	-0.3989 ppb	12:54:12
2	As 188.979†	-23.7	-8.6	-4.8057 ug/L	-4.8057 ppb	12:54:32
2	B 249.677†	-286.6	-207.5	-5.8090 ug/L	-5.8090 ppb	12:54:32
2	Ba 233.527†	10.6	18.2	0.1692 ug/L	0.1692 ppb	12:54:32
2	Be 313.107†	-3559.4	-85.7	-0.0370 ug/L	-0.0370 ppb	12:54:12
2	Cd 226.502†	-150.1	-14.4	-0.2015 ug/L	-0.2015 ppb	12:54:32
2	Co 228.616†	-41.2	0.7	0.0202 ug/L	0.0202 ppb	12:54:32
2	Cr 267.716†	69.8	6.8	0.0863 ug/L	0.0863 ppb	12:54:32
2	Cu 324.752†	6112.6	280.6	0.8988 ug/L	0.8988 ppb	12:54:12
2	Mn 257.610†	467.8	96.4	0.1239 ug/L	0.1239 ppb	12:54:32
2	Mo 202.031†	14.5	1.3	0.1070 ug/L	0.1070 ppb	12:54:32
2	Ni 231.604†	83.5	33.7	1.0620 ug/L	1.0620 ppb	12:54:32

2	P 214.914†	181.5	13.2	9.8687 ug/L	9.8687 ppb	12:54:32
2	Pb 220.353†	-37.0	5.5	0.8510 ug/L	0.8510 ppb	12:54:32
2	S 181.975 Axial†	28.8	-0.9	-1.6396 ug/L	-1.6396 ppb	12:54:32
2	Sb 206.836†	32.0	4.8	1.9996 ug/L	1.9996 ppb	12:54:32
2	Se 196.026†	-14.4	4.2	3.2841 ug/L	3.2841 ppb	12:54:32
2	Si 251.611†	495.9	62.8	2.3268 ug/L	2.3268 ppb	12:54:32
2	Sn 189.927†	11.2	3.8	0.8645 ug/L	0.8645 ppb	12:54:32
2	Ti 334.940†	-932.2	-8.2	-0.0085 ug/L	-0.0085 ppb	12:54:12
2	Tl 190.801†	-27.5	2.4	0.9494 ug/L	0.9494 ppb	12:54:32
2	U 409.014†	-1842.1	89.3	2.6120 ug/L	2.6120 ppb	12:54:12
2	V 292.402†	-1152.5	49.3	0.3977 ug/L	0.3977 ppb	12:54:12
2	Zn 213.857†	524.1	42.0	0.5099 ug/L	0.5099 ppb	12:54:32
2	SiO2†	497.0	37.9	2.9741 ug/L	2.9741 ppb	12:55:37
3	Sc Radial	3221.5	3221.5	96.2 %		12:53:40
3	Y RADIAL	2624.8	2624.8	95.68 %		12:53:40
3	Al 396.153Radial†	-65.9	-8.5	-18.205 ug/L	-18.205 ppb	12:53:40
3	Ca 317.933Radial†	7.9	-2.0	-7.8044 ug/L	-7.8044 ppb	12:53:40
3	Fe 238.204 Radial†	11.4	3.3	91.002 ug/L	91.002 ppb	12:53:40
3	K 766.490 Radial†	2151.4	123.1	56.337 ug/L	56.337 ppb	12:53:20
3	Mg 279.077 IEC†	2.2	1.8	177.49 ug/L	177.49 ppb	12:53:40
3	Na 589.592 Radial†	-778.8	-27.3	-9.1315 ug/L	-9.1315 ppb	12:53:20
3	Sr 421.552†	45.9	12.0	0.1194 ug/L	0.1194 ppb	12:53:20
3	Sc 361.383	812662.1	812662.1	97.355 %		12:54:37
3	Y 371.029	694778.2	694778.2	97.082 %		12:54:37
3	Ag 328.068†	147.7	-7.4	-0.0131 ug/L	-0.0131 ppb	12:54:37
3	As 188.979†	-14.9	0.7	0.3927 ug/L	0.3927 ppb	12:54:57
3	B 249.677†	-274.2	-191.4	-5.3810 ug/L	-5.3810 ppb	12:54:57
3	Ba 233.527†	18.3	25.9	0.2447 ug/L	0.2447 ppb	12:54:57
3	Be 313.107†	-3483.7	34.1	0.0150 ug/L	0.0150 ppb	12:54:37
3	Cd 226.502†	-143.1	-5.4	-0.0860 ug/L	-0.0860 ppb	12:54:57
3	Co 228.616†	-41.0	1.4	0.0351 ug/L	0.0351 ppb	12:54:57
3	Cr 267.716†	42.7	-21.8	-0.2828 ug/L	-0.2828 ppb	12:54:57
3	Cu 324.752†	6267.4	367.2	1.1841 ug/L	1.1841 ppb	12:54:37
3	Mn 257.610†	453.3	76.0	0.1013 ug/L	0.1013 ppb	12:54:57
3	Mo 202.031†	14.9	1.6	0.1412 ug/L	0.1412 ppb	12:54:57
3	Ni 231.604†	66.5	15.3	0.4815 ug/L	0.4815 ppb	12:54:57
3	P 214.914†	174.0	3.3	2.2345 ug/L	2.2345 ppb	12:54:57
3	Pb 220.353†	-40.5	2.4	0.3485 ug/L	0.3485 ppb	12:54:57
3	S 181.975 Axial†	31.7	1.7	3.0695 ug/L	3.0695 ppb	12:54:57
3	Sb 206.836†	27.7	-0.0	0.0186 ug/L	0.0186 ppb	12:54:57
3	Se 196.026†	-20.6	-1.9	-1.3004 ug/L	-1.3004 ppb	12:54:57
3	Si 251.611†	481.7	42.4	1.5692 ug/L	1.5692 ppb	12:54:57
3	Sn 189.927†	13.7	6.2	1.4031 ug/L	1.4031 ppb	12:54:57
3	Ti 334.940†	-869.3	67.4	0.0971 ug/L	0.0971 ppb	12:54:37
3	Tl 190.801†	-20.9	9.6	3.7413 ug/L	3.7413 ppb	12:54:57
3	U 409.014†	-1805.0	149.1	4.3450 ug/L	4.3450 ppb	12:54:37
3	V 292.402†	-1230.6	-17.3	-0.1347 ug/L	-0.1347 ppb	12:54:37
3	Zn 213.857†	515.9	27.5	0.3149 ug/L	0.3149 ppb	12:54:57
3	SiO2†	498.1	33.2	2.6023 ug/L	2.6023 ppb	12:55:57

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	805016.7	96.439 %	0.8365			0.87%
Sc Radial	3237.0	96.6 %	0.64			0.67%
Y 371.029	688916.0	96.262 %	0.7471			0.78%
Y RADIAL	2648.9	96.56 %	0.809			0.84%
Ag 328.068†	-43.2	-0.2125 ug/L	0.19325	-0.2125 ppb	0.19325	90.92%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-5.2	-11.227 ug/L	9.3848	-11.227 ppb	9.3848	83.59%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.1	-1.7033 ug/L	2.74144	-1.7033 ppb	2.74144	160.95%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-197.6	-5.5447 ug/L	0.23110	-5.5447 ppb	0.23110	4.17%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	17.1	0.1607 ug/L	0.08861	0.1607 ppb	0.08861	55.16%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-23.3	-0.0100 ug/L	0.02607	-0.0100 ppb	0.02607	261.75%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.6	6.3237 ug/L	12.84404	6.3237 ppb	12.84404	203.11%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-10.0	-0.1458 ug/L	0.05786	-0.1458 ppb	0.05786	39.68%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	3.8	0.0995 ug/L	0.12458	0.0995 ppb	0.12458	125.24%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-1.1	-0.0149 ug/L	0.23434	-0.0149 ppb	0.23434	>999.9%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	353.9	1.1389 ug/L	0.22094	1.1389 ppb	0.22094	19.40%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.0	26.784 ug/L	72.1536	26.784 ppb	72.1536	269.39%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	35.5	16.259 ug/L	43.1062	16.259 ppb	43.1062	265.12%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.1	109.69 ug/L	153.397	109.69 ppb	153.397	139.85%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	87.7	0.1131 ug/L	0.01136	0.1131 ppb	0.01136	10.05%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.3	0.2021 ug/L	0.13622	0.2021 ppb	0.13622	67.40%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-28.5	-9.5162 ug/L	7.66092	-9.5162 ppb	7.66092	80.50%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	20.0	0.6300 ug/L	0.38013	0.6300 ppb	0.38013	60.34%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	9.5	6.9786 ug/L	4.14101	6.9786 ppb	4.14101	59.34%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-1.6	-0.2617 ug/L	1.51318	-0.2617 ppb	1.51318	578.11%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	0.6	1.0013 ug/L	2.40624	1.0013 ppb	2.40624	240.31%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.0	1.6679 ug/L	1.51099	1.6679 ppb	1.51099	90.59%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.1	2.5752 ug/L	3.57424	2.5752 ppb	3.57424	138.80%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	48.0	1.7764 ug/L	0.48158	1.7764 ppb	0.48158	27.11%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	2.8	0.6444 ug/L	0.88951	0.6444 ppb	0.88951	138.04%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	4.9	0.0482 ug/L	0.06773	0.0482 ppb	0.06773	140.65%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	29.7	0.0412 ug/L	0.05310	0.0412 ppb	0.05310	128.78%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.3	2.0610 ug/L	1.48033	2.0610 ppb	1.48033	71.83%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	86.4	2.5195 ug/L	1.87336	2.5195 ppb	1.87336	74.35%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-7.9	-0.0557 ug/L	0.41961	-0.0557 ppb	0.41961	752.86%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	35.0	0.4147 ug/L	0.09758	0.4147 ppb	0.09758	23.53%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	31.2	2.4442 ug/L	0.62417	2.4442 ppb	0.62417	25.54%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, March 06, 2010 13:32:50

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\100125\Sample.343

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		777.4		777.421		32.664		4.2
Mg	24.0		15934.1		15934.085		371.700		2.3
Co	58.9		35574.2		35574.239		200.730		0.6
Rh	102.9		68380.7		68380.668		232.481		0.3
In	114.9		94920.3		94920.317		766.720		0.8
Pb	208.0		38876.8		38876.828		141.511		0.4
[> Ba	137.9		75418.9		75418.899		723.014		1.0
[Ba++	69.0		1393.0		0.018		0.000		0.9
[> Ce	139.9		90618.3		90618.302		250.075		0.3
[CeO	155.9		1395.3		0.015		0.000		1.0
Bkgd	220.0		9.8		9.800		0.908		9.3

Current Optimization File Data

Current Value	Description
0.89	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	13	5.3	782.7
Co	59	13	6.0	29345.8
In	115	13	7.0	74945.4

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	600	2060	0.732
Be	9.0	9.1	2041	2045	0.731
Mg	24.0	24.0	5671	2075	0.683
Mg	25.0	25.0	5932	2080	0.718
Mg	26.0	26.0	6160	2085	0.695
Co	58.9	59.0	14167	2140	0.683
Rh	102.9	102.9	24863	2230	0.699
In	114.9	114.8	27767	2255	0.730
Ce	139.9	139.9	33849	2310	0.696
Pb	206.0	206.0	49929	2465	0.795
Pb	207.0	207.0	50113	2365	0.759
Pb	208.0	208.0	50424	2550	0.866
U	238.1	238.1	57707	2490	0.800

ICPMS#4 - Summary Report

Sample ID: Blank
Sample Date/Time: Sunday, March 07, 2010 08:57:56
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\pb only.mth
Dataset File: C:\elandata\Dataset\100306\Blank.239

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		107659	
[Pb 208		ug/L		5772	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Simple Linear	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175					
[Pb 208					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Sunday, March 07, 2010 08:59:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\Standard 1.240

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		109159	109158.884
[	Pb 208	10.000	ug/L	1.742	72431	0.610

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175					
[	Pb 208					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Sunday, March 07, 2010 09:01:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\Standard 2.241

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		108706	108705.789
[	Pb 208	99.983	ug/L	1.647	657753	5.998

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175					
[Pb 208					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 2

Report Date/Time: Sunday, March 07, 2010 09:01:46

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Sunday, March 07, 2010 09:03:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 1.242

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		109259	109258.683
[	Pb 208	50.950	ug/L	1.426	339740	3.056

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		101.5			
[	Pb 208	101.899				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Sunday, March 07, 2010 09:05:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 2.243

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		107378	107377.780
[	Pb 208	0.219	ug/L	7.574	7165	0.013

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		99.7			
[	Pb 208					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Sunday, March 07, 2010 09:05:22

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Sunday, March 07, 2010 09:06:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 3.244

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		110533	110533.083
[Pb 208	2.566	ug/L	1.684	22941	0.154

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		102.7			
[Pb 208	128.316				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 3

Report Date/Time: Sunday, March 07, 2010 09:07:09

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Sunday, March 07, 2010 09:08:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 4.245

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		107109	107108.819
[	Pb 208	0.242	ug/L	5.376	7296	0.015

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			99.5		
[	Pb 208	127.921				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Sunday, March 07, 2010 09:10:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 5.246

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		106853	106852.574
[	Pb 208	19.589	ug/L	1.160	131276	1.175

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		99.3			
[	Pb 208	97.030				

QC Out Of Limits

Measurement Type: Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Sunday, March 07, 2010 09:10:44

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, March 07, 2010 09:12:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 6.247

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		108128	108128.420
[	Pb 208	52.167	ug/L	0.452	344154	3.129

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		100.4			
[	Pb 208	104.334				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, March 07, 2010 09:14:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 7.248

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		106017	106017.345
[	Pb 208	0.325	ug/L	5.650	7754	0.020

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		98.5			
[Pb 208					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Sunday, March 07, 2010 09:14:23

Page 1

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, March 07, 2010 09:28:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 6.255

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		108594	108593.619
[	Pb 208	51.020	ug/L	1.549	338138	3.060

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		100.9			
[	Pb 208	102.039				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, March 07, 2010 09:29:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 7.256

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		106673	106672.871
[Pb 208	0.006	ug/L	117.865	5758	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		99.1			
[Pb 208					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, March 07, 2010 09:46:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 6.265

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		106945	106944.550
[	Pb 208	50.907	ug/L	0.124	332306	3.054

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			99.3		
[	Pb 208	101.813				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, March 07, 2010 09:48:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 7.266

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		104552	104551.913
[	Pb 208	-0.164	ug/L	4.646	4578	-0.010

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		97.1			
[	Pb 208					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202042571

Sample Date/Time: Sunday, March 07, 2010 09:50:14

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 952951|1|ba|

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\1202042571.267

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		105737	105736.593
[	Pb 208	-0.121	ug/L	14.479	4902	-0.007

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		98.2			
[	Pb 208					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202042572

Sample Date/Time: Sunday, March 07, 2010 09:52:02

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 952951|1|ba|

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\1202042572.268

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		105966	105965.963
[	Pb 208	50.965	ug/L	0.689	329646	3.057

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		98.4			
[	Pb 208					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 246871001

Sample Date/Time: Sunday, March 07, 2010 09:55:41

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952951|1|baj

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\246871001.270

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		105357	105356.851
[	Pb 208	0.013	ug/L	92.115	5730	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			97.9		
[	Pb 208					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202042573

Sample Date/Time: Sunday, March 07, 2010 09:59:21

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 952951|1|baj

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\1202042573.272

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		103555	103555.376
[Pb 208	-0.117	ug/L	9.704	4827	-0.007

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		96.2			
[Pb 208					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042573

Report Date/Time: Sunday, March 07, 2010 09:59:41

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ICPMS#4 - Summary Report

Sample ID: 1202042574

Sample Date/Time: Sunday, March 07, 2010 10:01:13

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 952951|1|baj

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\1202042574.273

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		104948	104948.154
[	Pb 208	39.359	ug/L	1.491	253388	2.361

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		97.5			
[Pb 208					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042574

Report Date/Time: Sunday, March 07, 2010 10:01:32

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ICPMS#4 - Summary Report

Sample ID: 1202042575

Sample Date/Time: Sunday, March 07, 2010 10:03:03

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 952951|5|ba|

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\1202042575.274

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		107226	107225.666
[Pb	208	-0.240	ug/L	3.718	4204	-0.014

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175		99.6			
[Pb	208					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, March 07, 2010 10:04:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 6.275

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		106334	106333.669
[	Pb 208	51.011	ug/L	1.359	331071	3.060

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175			98.8		
[	Pb 208	102.021				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Sunday, March 07, 2010 10:05:10

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ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, March 07, 2010 10:06:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\pb only.mth

Dataset File: C:\elandata\Dataset\100306\QC Std 7.276

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		104681	104680.512
[Pb	208	-0.292	ug/L	2.878	3782	-0.017

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
Pb	208	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[> Lu	175				97.2						
[Pb	208										

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Sunday, March 07, 2010 10:07:00

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ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, March 06, 2010 12:09:34

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.661

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	4777.6	4777.599	78.513	1.6
Mg	24.0	48634.0	48634.045	234.209	0.5
Co	58.9	90810.3	90810.329	749.980	0.8
Rh	102.9	182759.1	182759.120	2080.782	1.1
In	114.9	251410.0	251410.017	1585.778	0.6
Pb	208.0	269712.7	269712.731	1579.796	0.6
[> Ba	137.9	240159.5	240159.536	2766.790	1.2
[Ba++	69.0	3561.9	0.015	0.000	2.0
[> Ce	139.9	293604.7	293604.702	1492.439	0.5
[CeO	155.9	6296.5	0.021	0.000	1.8
Bkgd	220.0	22.2	22.200	3.915	17.6

Current Optimization File Data

Current Value	Description
0.87	Nebulizer Gas Flow
6.50	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	17	6.5	5313.7
Co	59	17	7.3	86868.6
In	115	17	8.0	235041.8

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	585	2050	0.658
Be	9.0	9.0	2046	2075	0.619
Mg	24.0	24.0	5699	2080	0.646
Mg	25.0	25.0	5927	2080	0.613
Mg	26.0	25.9	6172	2080	0.645
Co	58.9	59.0	14193	2110	0.623
Rh	102.9	102.9	24880	2160	0.639
In	114.9	114.9	27795	2180	0.649
Ce	139.9	139.9	33866	2200	0.642
Pb	206.0	206.0	49948	2295	0.612
Pb	207.0	207.0	50159	2240	0.638
Pb	208.0	208.0	50451	2265	0.700
U	238.1	238.1	57734	2275	0.727

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Sunday, March 07, 2010 03:21:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\Blank.718

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9		ug/L		23	
|>	Sc	45		ug/L		802830	
[	Mn	55		ug/L		1608	
[	Cd	111		ug/L		31	
|	Cd	114		ug/L		57	
|>	In	115		ug/L		230964	
|	Sb	121		ug/L		376	
[	Sb	123		ug/L		278	
[>	Lu	175		ug/L		479311	
|	Tl	205		ug/L		3775	
|	Pb	208		ug/L		892	
[U	238		ug/L		896	

Sample ID: Blank

Report Date/Time: Sunday, March 07, 2010 03:22:26

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	1.0000
U	238Linear 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					
[	Mn	55					
[	Cd	111					
|	Cd	114					
|>	In	115					
|	Sb	121					
[	Sb	123					
[>	Lu	175					
|	Tl	205					
|	Pb	208					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Sunday, March 07, 2010 03:26:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\Standard 1.719

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000	ug/L	3.669	4201	0.005
>	Sc	45		ug/L		803589	803588.917
[	Mn	55	10.000	ug/L	1.677	74002	0.090
[	Cd	111	10.000	ug/L	0.492	14477	0.061
|	Cd	114		ug/L		34085	0.144
>	In	115		ug/L		235679	235679.031
|	Sb	121	10.000	ug/L	2.500	49055	0.207
[	Sb	123		ug/L		38813	0.163
>	Lu	175		ug/L		480467	480467.457
|	Tl	205	10.000	ug/L	1.152	224010	0.458
|	Pb	208	10.000	ug/L	0.406	393066	0.816
[U	238	10.000	ug/L	0.246	537628	1.117

Sample ID: Standard 1

Report Date/Time: Sunday, March 07, 2010 03:27:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45					
[	Mn	55					
[	Cd	111					
|	Cd	114					
|>	In	115					
|	Sb	121					
[	Sb	123					
[>	Lu	175					
|	Tl	205					
|	Pb	208					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Sunday, March 07, 2010 03:32:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl er.mth

Dataset File: c:\elandata\Dataset\100305\Standard 2.720

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	100.008	ug/L	0.369	41666	0.052
|>	Sc	45		ug/L		794261	794261.422
[	Mn	55	99.982	ug/L	0.223	704278	0.885
[	Cd	111	99.989	ug/L	1.218	140203	0.606
|	Cd	114		ug/L		332152	1.436
|>	In	115		ug/L		231307	231306.507
|	Sb	121	100.033	ug/L	1.558	494703	2.137
[	Sb	123		ug/L		388419	1.678
[>	Lu	175		ug/L		481650	481650.462
|	Tl	205	99.841	ug/L	1.819	1905341	3.948
|	Pb	208	99.861	ug/L	0.410	3448013	7.157
[	U	238	99.814	ug/L	1.141	4527077	9.397

Sample ID: Standard 2

Report Date/Time: Sunday, March 07, 2010 03:32:59

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate	Rel. % Difference
[	Be	9						
|>	Sc	45						
[	Mn	55						
[	Cd	111						
|	Cd	114						
|>	In	115						
|	Sb	121						
[	Sb	123						
|>	Lu	175						
|	Tl	205						
|	Pb	208						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Sunday, March 07, 2010 03:37:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 1.721

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	53.450	ug/L	1.522	21822	0.028
|> Sc	45		ug/L		777988	777988.174
[Mn	55	53.643	ug/L	1.883	370827	0.475
[Cd	111	52.416	ug/L	1.408	73136	0.318
| Cd	114		ug/L		172758	0.751
|> In	115		ug/L		230111	230110.807
| Sb	121	51.744	ug/L	1.697	254753	1.106
[Sb	123		ug/L		199581	0.866
[> Lu	175		ug/L		477831	477831.142
| Ti	205	53.457	ug/L	1.387	1013831	2.114
| Pb	208	55.651	ug/L	0.503	1906672	3.988
[U	238	55.366	ug/L	1.847	2491494	5.213

Sample ID: QC Std 1

Report Date/Time: Sunday, March 07, 2010 03:38:16

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9	106.901				
|>	Sc	45		96.9			
[	Mn	55	107.287				
[	Cd	111	104.832				
|	Cd	114					
|>	In	115		99.6			
|	Sb	121	103.489				
[	Sb	123					
[>	Lu	175		99.7			
|	Tl	205	106.914				
|	Pb	208	111.302				
[	U	238	110.733				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	Pb	208	ICV is out of limits (+/- 10%)
QC Std 1	U	238	ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Sunday, March 07, 2010 03:42:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 2.722

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.012	ug/L	160.546	27	0.000
[>	Sc	45		ug/L		751215	751215.217
[	Mn	55	-0.001	ug/L	843.301	1497	-0.000
[	Cd	111	0.000	ug/L	3691.771	29	0.000
|	Cd	114		ug/L		56	0.000
[>	In	115		ug/L		219224	219224.308
|	Sb	121	0.188	ug/L	5.686	1236	0.004
[	Sb	123		ug/L		984	0.003
[>	Lu	175		ug/L		464354	464354.425
|	Tl	205	0.326	ug/L	0.701	9636	0.013
|	Pb	208	0.000	ug/L	177.601	877	0.000
[U	238	0.003	ug/L	12.764	1019	0.000

Sample ID: QC Std 2

Report Date/Time: Sunday, March 07, 2010 03:43:38

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9					
[>	Sc	45		93.6			
[	Mn	55					
[	Cd	111					
[	Cd	114					
[>	In	115		94.9			
[	Sb	121					
[	Sb	123					
[>	Lu	175		96.9			
[	Tl	205					
[	Pb	208					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Sunday, March 07, 2010 03:47:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 3.723

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.562	ug/L	16.231	245	0.000
|>	Sc	45		ug/L		756500	756500.304
[	Mn	55	5.747	ug/L	1.092	39981	0.051
[	Cd	111	1.081	ug/L	2.576	1496	0.007
|	Cd	114		ug/L		3595	0.016
|>	In	115		ug/L		223808	223807.850
|	Sb	121	3.061	ug/L	2.125	15001	0.065
[	Sb	123		ug/L		11834	0.052
|>	Lu	175		ug/L		467177	467177.103
|	Tl	205	1.271	ug/L	0.930	27162	0.050
|	Pb	208	2.468	ug/L	0.433	83506	0.177
[	U	238	0.286	ug/L	1.494	13469	0.027

Sample ID: QC Std 3

Report Date/Time: Sunday, March 07, 2010 03:48:56

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9	112.487				
|>	Sc	45		94.2			
[	Mn	55	114.938				
[	Cd	111	108.106				
|	Cd	114					
|>	In	115		96.9			
|	Sb	121	102.023				
[	Sb	123					
|>	Lu	175		97.5			
|	Tl	205	127.103				
|	Pb	208	123.408				
[	U	238	143.196				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	U	238	238CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Sunday, March 07, 2010 03:53:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 4.724

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.108	ug/L	19.702	62	0.000
[>	Sc	45		ug/L		719742	719742.189
[	Mn	55	5.959	ug/L	1.339	39388	0.053
[	Cd	111	0.547	ug/L	17.431	763	0.003
[	Cd	114		ug/L		9008	0.040
[>	In	115		ug/L		221164	221163.582
[	Sb	121	0.040	ug/L	19.458	550	0.001
[	Sb	123		ug/L		444	0.001
[>	Lu	175		ug/L		446951	446950.908
[	Tl	205	-0.029	ug/L	28.500	3000	-0.001
[	Pb	208	0.220	ug/L	2.002	7865	0.016
[	U	238	-0.016	ug/L	0.829	172	-0.001

Sample ID: QC Std 4

Report Date/Time: Sunday, March 07, 2010 03:54:14

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45			89.7		
[	Mn	55	102.738				
[	Cd	111	123.199				
|	Cd	114					
|>	In	115			95.8		
|	Sb	121					
[	Sb	123					
|>	Lu	175			93.2		
|	Tl	205					
|	Pb	208	116.193				
[	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, March 07, 2010 03:58:33

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 5.725

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	19.416	ug/L	1.310	7133	0.010
[>	Sc	45		ug/L		698803	698802.901
[	Mn	55	27.277	ug/L	1.292	170053	0.241
[	Cd	111	20.493	ug/L	1.800	26877	0.124
|	Cd	114		ug/L		71423	0.330
[>	In	115		ug/L		216158	216157.930
|	Sb	121	21.897	ug/L	0.994	101477	0.468
[	Sb	123		ug/L		79388	0.366
[>	Lu	175		ug/L		435319	435319.158
|	Tl	205	21.138	ug/L	3.090	367305	0.836
|	Pb	208	21.959	ug/L	1.038	685846	1.574
[	U	238	24.114	ug/L	0.755	989112	2.270

Sample ID: QC Std 5

Report Date/Time: Sunday, March 07, 2010 03:59:33

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9	97.079				
[>	Sc	45		87.0			
[	Mn	55	105.726				
[	Cd	111	100.241				
[	Cd	114					
[>	In	115		93.6			
[	Sb	121	109.486				
[	Sb	123					
[>	Lu	175		90.8			
[	Tl	205	105.691				
[	Pb	208	108.766				
[	U	238	120.571				

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, March 07, 2010 04:03:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanier.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.726

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	46.902	ug/L	1.588	19731	0.025
[>	Sc	45		ug/L		801493	801492.934
[	Mn	55	47.346	ug/L	1.591	337322	0.419
[	Cd	111	45.298	ug/L	1.672	67585	0.275
|	Cd	114		ug/L		161464	0.656
[>	In	115		ug/L		246045	246045.083
|	Sb	121	45.853	ug/L	1.393	241424	0.980
[	Sb	123		ug/L		191921	0.779
[>	Lu	175		ug/L		506321	506321.471
|	Tl	205	46.119	ug/L	2.425	927372	1.824
|	Pb	208	48.887	ug/L	0.621	1774888	3.504
[	U	238	48.012	ug/L	1.464	2289660	4.520

Sample ID: QC Std 6

Report Date/Time: Sunday, March 07, 2010 04:04:53

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9	93.805				
|>	Sc	45		99.8			
|	Mn	55	94.692				
[	Cd	111	90.596				
|	Cd	114					
|>	In	115		106.5			
|	Sb	121	91.705				
|	Sb	123					
[>	Lu	175		105.6			
|	Tl	205	92.238				
|	Pb	208	97.773				
|	U	238	96.025				

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, March 07, 2010 04:09:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.727

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.016	ug/L	85.791	26	0.000
|>	Sc	45		ug/L		698741	698741.412
[	Mn	55	-0.015	ug/L	54.363	1307	-0.000
[	Cd	111	0.007	ug/L	38.678	36	0.000
|	Cd	114		ug/L		66	0.000
|>	In	115		ug/L		211464	211464.363
|	Sb	121	0.077	ug/L	8.347	692	0.002
[	Sb	123		ug/L		552	0.001
|>	Lu	175		ug/L		444905	444904.852
|	Tl	205	0.282	ug/L	7.549	8467	0.011
|	Pb	208	-0.000	ug/L	194.383	813	-0.000
[	U	238	0.004	ug/L	18.294	982	0.000

Sample ID: QC Std 7

Report Date/Time: Sunday, March 07, 2010 04:10:14

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9					
|>	Sc	45			87.0		
[	Mn	55					
[	Cd	111					
|	Cd	114					
|>	In	115			91.6		
|	Sb	121					
[	Sb	123					
|>	Lu	175			92.8		
|	Tl	205					
|	Pb	208					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Sunday, March 07, 2010 04:46:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 8.734

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	50.266	ug/L	1.577	19380	0.026
|>	Sc	45		ug/L		734594	734594.317
[	Mn	55	50.981	ug/L	0.132	332860	0.451
[	Cd	111	49.380	ug/L	1.819	67893	0.299
|	Cd	114		ug/L		161590	0.712
|>	In	115		ug/L		226757	226757.022
|	Sb	121	49.529	ug/L	0.949	240311	1.058
[	Sb	123		ug/L		190313	0.838
|>	Lu	175		ug/L		470513	470513.288
|	Tl	205	50.088	ug/L	2.192	935511	1.981
|	Pb	208	52.620	ug/L	1.399	1775053	3.771
[	U	238	51.937	ug/L	0.965	2301433	4.890

Sample ID: QC Std 8

Report Date/Time: Sunday, March 07, 2010 04:47:43

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9	100.533					
|>	Sc	45		91.5				
[	Mn	55	101.962					
[	Cd	111	98.760					
|	Cd	114						
|>	In	115		98.2				
|	Sb	121	99.059					
[	Sb	123						
[>	Lu	175		98.2				
|	Tl	205	100.175					
|	Pb	208	105.239					
[U	238	103.874					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Sunday, March 07, 2010 04:52:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 9.735

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.002	ug/L	925.982	22	0.000
>	Sc	45		ug/L		734401	734401.124
[	Mn	55	-0.021	ug/L	29.908	1334	-0.000
[	Cd	111	0.005	ug/L	83.778	36	0.000
|	Cd	114		ug/L		69	0.000
>	In	115		ug/L		224341	224341.195
|	Sb	121	0.055	ug/L	8.916	630	0.001
[	Sb	123		ug/L		503	0.001
>	Lu	175		ug/L		476335	476334.564
|	Tl	205	0.516	ug/L	4.885	13475	0.020
|	Pb	208	-0.000	ug/L	135.695	871	-0.000
[	U	238	0.002	ug/L	50.205	994	0.000

Sample ID: QC Std 9

Report Date/Time: Sunday, March 07, 2010 04:53:05

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45			91.5		
[	Mn	55					
[	Cd	111					
|	Cd	114					
|>	In	115			97.1		
|	Sb	121					
[	Sb	123					
|>	Lu	175			99.4		
|	Tl	205					
|	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 8

Sample Date/Time: Sunday, March 07, 2010 05:39:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 8.744

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.515	ug/L	1.467	19558	0.028
|>	Sc	45		ug/L		696359	696358.616
[	Mn	55	52.865	ug/L	0.878	327151	0.468
[	Cd	111	51.422	ug/L	0.870	66673	0.312
|	Cd	114		ug/L		157407	0.736
|>	In	115		ug/L		213817	213816.844
|	Sb	121	51.664	ug/L	0.270	236368	1.104
[	Sb	123		ug/L		186993	0.873
[>	Lu	175		ug/L		447458	447457.780
|	Tl	205	47.267	ug/L	3.883	839768	1.869
|	Pb	208	55.278	ug/L	2.196	1773272	3.962
[	U	238	54.880	ug/L	1.536	2312600	5.167

Sample ID: QC Std 8

Report Date/Time: Sunday, March 07, 2010 05:40:55

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9	107.030					
|>	Sc	45		86.7				
[	Mn	55	105.731					
[	Cd	111	102.845					
|	Cd	114						
|>	In	115		92.6				
|	Sb	121	103.328					
[	Sb	123						
|>	Lu	175		93.4				
|	Tl	205	94.535					
|	Pb	208	110.555					
[	U	238	109.760					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Pb	208	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Sunday, March 07, 2010 05:45:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanier.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 9.745

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.019		ug/L	75.526	27	0.000
|>	Sc	45			ug/L		685766	685765.608
[	Mn	55	0.002		ug/L	429.550	1385	0.000
[	Cd	111	0.003		ug/L	421.913	31	0.000
|	Cd	114			ug/L		64	0.000
|>	In	115			ug/L		206240	206240.110
|	Sb	121	0.069		ug/L	10.129	638	0.001
[	Sb	123			ug/L		505	0.001
[>	Lu	175			ug/L		443992	443991.654
|	Tl	205	1.777		ug/L	1.579	34699	0.070
|	Pb	208	0.002		ug/L	49.362	904	0.000
[	U	238	0.003		ug/L	43.523	968	0.000

Sample ID: QC Std 9

Report Date/Time: Sunday, March 07, 2010 05:46:16

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9						
|>	Sc	45			85.4			
|	Mn	55						
[	Cd	111						
|	Cd	114						
|>	In	115			89.3			
|	Sb	121						
|	Sb	123						
[>	Lu	175			92.6			
|	Tl	205						
|	Pb	208						
|	U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 9	Tl	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1202042572

Sample Date/Time: Sunday, March 07, 2010 05:55:56

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 952951|1|baj

Method File: c:\elandata\Method\lanl er.mth

Dataset File: c:\elandata\Dataset\100305\1202042572.747

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	51.657	ug/L	0.530	18792	0.027
> Sc	45		ug/L		693177	693177.051
[Mn	55	53.178	ug/L	0.456	327576	0.471
[Cd	111	51.911	ug/L	1.674	63942	0.315
| Cd	114		ug/L		150753	0.742
> In	115		ug/L		203132	203132.314
| Sb	121	54.752	ug/L	1.168	237940	1.170
[Sb	123		ug/L		185821	0.914
> Lu	175		ug/L		435750	435749.562
| Tl	205	42.632	ug/L	6.224	738011	1.686
| Pb	208	54.721	ug/L	0.591	1709699	3.922
[U	238	52.467	ug/L	0.644	2153324	4.940

Sample ID: 1202042572

Report Date/Time: Sunday, March 07, 2010 05:56:57

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9						
|>	Sc	45			86.3			
[	Mn	55						
[	Cd	111						
|	Cd	114						
|>	In	115			87.9			
|	Sb	121						
[	Sb	123						
|>	Lu	175			90.9			
|	Tl	205						
|	Pb	208						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042573

Sample Date/Time: Sunday, March 07, 2010 06:17:22

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 952951|1|ba|

Method File: c:\elandata\Method\lanl er.mth

Dataset File: c:\elandata\Dataset\100305\1202042573.751

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.001	ug/L	2034.779	20	0.000
|>	Sc	45		ug/L		678129	678128.981
[	Mn	55	0.221	ug/L	0.970	2685	0.002
[	Cd	111	-0.010	ug/L	129.620	15	-0.000
|	Cd	114		ug/L		39	-0.000
|>	In	115		ug/L		202364	202363.967
|	Sb	121	-0.056	ug/L	3.489	85	-0.001
[	Sb	123		ug/L		69	-0.001
[>	Lu	175		ug/L		424672	424671.678
|	Tl	205	0.154	ug/L	9.566	5927	0.006
|	Pb	208	-0.006	ug/L	10.533	596	-0.000
[	U	238	-0.015	ug/L	3.503	182	-0.001

Sample ID: 1202042573

Report Date/Time: Sunday, March 07, 2010 06:18:24

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			84.5		
[	Mn	55					
[	Cd	111					
|	Cd	114					
[>	In	115			87.6		
|	Sb	121					
[	Sb	123					
[>	Lu	175			88.6		
|	Tl	205					
|	Pb	208					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042574

Sample Date/Time: Sunday, March 07, 2010 06:22:43

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 952951|1|baj

Method File: c:\elandata\Method\lanl er.mth

Dataset File: c:\elandata\Dataset\100305\1202042574.752

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	48.506	ug/L	1.516	17444	0.025
[>	Sc	45		ug/L		685198	685198.054
[	Mn	55	50.129	ug/L	2.243	305240	0.444
[	Cd	111	10.295	ug/L	2.117	12462	0.062
[	Cd	114		ug/L		28475	0.143
[>	In	115		ug/L		199293	199293.390
[	Sb	121	199.107	ug/L	1.718	848110	4.254
[	Sb	123		ug/L		668597	3.354
[>	Lu	175		ug/L		428026	428026.313
[	Tl	205	84.541	ug/L	3.818	1434516	3.343
[	Pb	208	42.679	ug/L	0.633	1309988	3.059
[	U	238	51.448	ug/L	1.077	2074000	4.844

Sample ID: 1202042574

Report Date/Time: Sunday, March 07, 2010 06:23:44

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45			85.3		
[	Mn	55					
[	Cd	111					
|	Cd	114					
|>	In	115			86.3		
|	Sb	121					
[	Sb	123					
|>	Lu	175			89.3		
|	Tl	205					
|	Pb	208					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042575

Sample Date/Time: Sunday, March 07, 2010 06:28:03

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 952951|5|ba|

Method File: c:\elandata\Method\lanl er.mth

Dataset File: c:\elandata\Dataset\100305\1202042575.753

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.005		ug/L	243.015	22	0.000
[>	Sc	45			ug/L		693081	693081.301
[	Mn	55	0.065		ug/L	18.222	1788	0.001
[	Cd	111	-0.004		ug/L	115.899	23	-0.000
|	Cd	114			ug/L		31	-0.000
[>	In	115			ug/L		210791	210790.936
|	Sb	121	-0.045		ug/L	9.375	142	-0.001
[	Sb	123			ug/L		106	-0.001
[>	Lu	175			ug/L		449284	449283.809
|	Tl	205	1.279		ug/L	1.476	26264	0.051
|	Pb	208	-0.015		ug/L	3.423	367	-0.001
[	U	238	-0.016		ug/L	3.034	152	-0.002

Sample ID: 1202042575

Report Date/Time: Sunday, March 07, 2010 06:29:04

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9						
|>	Sc	45		86.3				
[	Mn	55						
[	Cd	111						
|	Cd	114						
|>	In	115		91.3				
|	Sb	121						
[	Sb	123						
|>	Lu	175		93.7				
|	Tl	205						
|	Pb	208						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Sunday, March 07, 2010 06:33:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 8.754

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	48.192	ug/L	0.971	19120	0.025
[> Sc	45		ug/L		755929	755929.301
[Mn	55	48.190	ug/L	1.837	323835	0.426
[Cd	111	46.805	ug/L	1.619	64952	0.284
| Cd	114		ug/L		154031	0.673
[> In	115		ug/L		228850	228849.826
| Sb	121	47.104	ug/L	1.273	230677	1.006
[Sb	123		ug/L		180626	0.788
[> Lu	175		ug/L		486008	486007.643
| Tl	205	46.084	ug/L	1.208	889599	1.822
| Pb	208	49.677	ug/L	1.292	1731033	3.560
[U	238	49.474	ug/L	0.747	2264578	4.658

Sample ID: QC Std 8

Report Date/Time: Sunday, March 07, 2010 06:34:24

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9	96.383				
|>	Sc	45		94.2			
[	Mn	55	96.379				
[	Cd	111	93.611				
|	Cd	114					
|>	In	115		99.1			
|	Sb	121	94.209				
[	Sb	123					
|>	Lu	175		101.4			
|	Tl	205	92.168				
|	Pb	208	99.355				
[	U	238	98.948				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Sunday, March 07, 2010 06:38:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 9.755

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.007	ug/L	218.894	22	0.000
[>	Sc	45		ug/L		676248	676247.532
[	Mn	55	-0.007	ug/L	174.710	1312	-0.000
[	Cd	111	0.004	ug/L	118.724	32	0.000
|	Cd	114		ug/L		60	0.000
[>	In	115		ug/L		203890	203889.647
|	Sb	121	0.076	ug/L	12.197	662	0.002
[	Sb	123		ug/L		510	0.001
[>	Lu	175		ug/L		438766	438766.188
|	Tl	205	1.038	ug/L	2.706	21454	0.041
|	Pb	208	0.002	ug/L	24.127	885	0.000
[	U	238	0.004	ug/L	9.770	979	0.000

Sample ID: QC Std 9

Report Date/Time: Sunday, March 07, 2010 06:39:46

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		84.2			
|	Mn	55					
[	Cd	111					
|	Cd	114					
|>	In	115		88.3			
|	Sb	121					
|	Sb	123					
|>	Lu	175		91.5			
|	Tl	205					
|	Pb	208					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 9	Tl	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 246871001

Sample Date/Time: Sunday, March 07, 2010 07:16:17

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952951|1|baj

Method File: c:\elandata\Method\ani er.mth

Dataset File: c:\elandata\Dataset\100305\246871001.762

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.014	ug/L	112.661	25	0.000
|>	Sc	45		ug/L		675455	675454.592
[	Mn	55	1.419	ug/L	0.938	9833	0.013
[	Cd	111	0.020	ug/L	64.040	50	0.000
|	Cd	114		ug/L		93	0.000
|>	In	115		ug/L		199793	199792.898
|	Sb	121	-0.044	ug/L	7.919	137	-0.001
[	Sb	123		ug/L		110	-0.001
[>	Lu	175		ug/L		426371	426371.479
|	Tl	205	-0.026	ug/L	38.768	2912	-0.001
|	Pb	208	0.116	ug/L	1.569	4346	0.008
[	U	238	0.024	ug/L	1.045	1771	0.002

Sample ID: 246871001

Report Date/Time: Sunday, March 07, 2010 07:17:19

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9						
[>	Sc	45		84.1				
[	Mn	55						
[	Cd	111						
[	Cd	114						
[>	In	115		86.5				
[	Sb	121						
[	Sb	123						
[>	Lu	175		89.0				
[	Tl	205						
[	Pb	208						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042571

Sample Date/Time: Sunday, March 07, 2010 07:22:27

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 952951|1|ba|

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\1202042571.763

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.007	ug/L	39.004	17	-0.000
|>	Sc	45		ug/L		674703	674703.062
[	Mn	55	0.177	ug/L	5.656	2410	0.002
[	Cd	111	-0.013	ug/L	24.410	11	-0.000
|	Cd	114		ug/L		28	-0.000
|>	In	115		ug/L		196824	196824.377
|	Sb	121	-0.055	ug/L	3.281	89	-0.001
[	Sb	123		ug/L		74	-0.001
[>	Lu	175		ug/L		421575	421575.114
|	Tl	205	-0.014	ug/L	61.699	3087	-0.001
|	Pb	208	-0.010	ug/L	3.413	472	-0.001
[	U	238	-0.018	ug/L	1.399	74	-0.002

Sample ID: 1202042571

Report Date/Time: Sunday, March 07, 2010 07:23:27

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45			84.0		
[	Mn	55					
[	Cd	111					
|	Cd	114					
|>	In	115			85.2		
|	Sb	121					
[	Sb	123					
[>	Lu	175			88.0		
|	Tl	205					
|	Pb	208					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, March 07, 2010 07:27:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl er.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.764

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	53.566	ug/L	1.014	19683	0.028
|> Sc	45		ug/L		700181	700181.266
[Mn	55	53.118	ug/L	0.447	330506	0.470
[Cd	111	50.925	ug/L	0.686	65831	0.309
| Cd	114		ug/L		157907	0.741
|> In	115		ug/L		213167	213167.067
| Sb	121	51.786	ug/L	1.350	236208	1.106
[Sb	123		ug/L		185647	0.870
|> Lu	175		ug/L		445520	445520.493
| Ti	205	49.950	ug/L	2.152	883545	1.975
| Pb	208	55.190	ug/L	0.586	1763051	3.955
[U	238	54.257	ug/L	1.303	2276712	5.108

Sample ID: QC Std 6

Report Date/Time: Sunday, March 07, 2010 07:28:47

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9	107.132				
|>	Sc	45		87.2			
[	Mn	55	106.235				
[	Cd	111	101.850				
|	Cd	114					
|>	In	115		92.3			
|	Sb	121	103.572				
[	Sb	123					
[>	Lu	175		93.0			
|	Tl	205	99.900				
|	Pb	208	110.381				
[	U	238	108.515				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Pb	208	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, March 07, 2010 07:33:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\analyzer.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.765

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.001	ug/L	663.581	21	0.000
|>	Sc	45		ug/L		707328	707327.679
[	Mn	55	-0.011	ug/L	62.652	1349	-0.000
[	Cd	111	-0.007	ug/L	120.044	19	-0.000
|	Cd	114		ug/L		63	0.000
|>	In	115		ug/L		213932	213931.605
|	Sb	121	0.060	ug/L	18.209	622	0.001
[	Sb	123		ug/L		494	0.001
[>	Lu	175		ug/L		461868	461868.490
|	Tl	205	0.581	ug/L	3.243	14249	0.023
|	Pb	208	0.001	ug/L	4.354	889	0.000
[	U	238	0.003	ug/L	24.675	1001	0.000

Sample ID: QC Std 7

Report Date/Time: Sunday, March 07, 2010 07:34:09

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear 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
[	Be	9						
|>	Sc	45			88.1			
[	Mn	55						
[	Cd	111						
|	Cd	114						
|>	In	115			92.6			
|	Sb	121						
[	Sb	123						
[>	Lu	175			96.4			
|	Tl	205						
|	Pb	208						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Sunday, March 07, 2010 09:07:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100305\Blank.792

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		470103	
[U	238		ug/L		1066	

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 % Dil	Duplicate Rel. % Difference
[> Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Sunday, March 07, 2010 09:09:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\Standard 1.793

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		480966	480966.288
[	U	238	10.000	ug/L	1.474	525553	1.091

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Sunday, March 07, 2010 09:10:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\Standard 2.794

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		481278	481277.800
[	U	238	99.814	ug/L	0.435	4419996	9.182

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175					
[	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, March 07, 2010 09:12:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 1.795

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		482406	482406.099
[U	238	53.936	ug/L	0.464	2394387	4.961

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[> Lu	175		102.6			
[U	238	107.871				

QC Out Of Limits

Measurement Type: Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Sunday, March 07, 2010 09:13:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 2.796

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		471077	471077.088
[	U	238	0.012	ug/L	1.830	1570	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			100.2			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Sunday, March 07, 2010 09:15:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 3.797

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		432580	432580.478
[U	238	0.244	ug/L	27.161	10410	0.022

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175			92.0		
[U	238	121.851				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Sunday, March 07, 2010 09:17:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 4.798

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		467689	467688.803
[U	238	-0.018	ug/L	3.265	277	-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			99.5		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Sunday, March 07, 2010 09:18:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 5.799

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		489027	489026.530
[	U	238	22.975	ug/L	1.000	1034513	2.113

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			104.0			
[	U	238	114.876					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, March 07, 2010 09:20:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.800

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		475999	475998.754
[	U	238	54.529	ug/L	0.180	2388625	5.016

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		101.3			
[	U	238	109.058				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Sunday, March 07, 2010 09:20:43

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ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, March 07, 2010 09:22:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.801

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		467232	467232.037
[	U	238	0.009	ug/L	8.825	1438	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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		99.4			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, March 07, 2010 09:36:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.809

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		468303	468303.140
[	U	238	54.588	ug/L	1.234	2352532	5.021

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			99.6			
[U	238	109.176					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Sunday, March 07, 2010 09:37:01

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ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, March 07, 2010 09:38:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.810

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		466249	466249.494
[	U	238	0.008	ug/L	3.293	1385	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		99.2				
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, March 07, 2010 09:51:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\du only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.817

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		456851	456850.594
[	U	238	54.154	ug/L	0.838	2276748	4.981

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			97.2			
[	U	238	108.307					

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, March 07, 2010 09:53:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.818

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		445079	445078.958
[	U	238	0.010	ug/L	5.487	1417	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175			94.7		
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, March 07, 2010 10:03:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.824

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		501831	501831.094
[	U	238	48.347	ug/L	1.519	2232524	4.447

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		106.7			
[	U	238	96.693				

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, March 07, 2010 10:05:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.825

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		444058	444058.335
[	U	238	0.011	ug/L	11.945	1443	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 % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			94.5			
[	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 6

Sample Date/Time: Sunday, March 07, 2010 10:22:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.834

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		474628	474628.138
[	U	238	52.959	ug/L	0.902	2313255	4.871

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			101.0			
[U	238	105.917					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, March 07, 2010 10:23:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.835

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		455468	455467.720
[	U	238	0.011	ug/L	9.041	1480	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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		96.9			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042571

Sample Date/Time: Sunday, March 07, 2010 10:25:28

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 952951|1|ba|

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\1202042571.836

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		490709	490709.445
[	U	238	-0.021	ug/L	1.404	155	-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		104.4			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042571

Report Date/Time: Sunday, March 07, 2010 10:25:39

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ICPMS#5 - Summary Report

Sample ID: 1202042572

Sample Date/Time: Sunday, March 07, 2010 10:27:08

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 952951|1|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\1202042572.837

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		461335	461335.422
[	U	238	51.840	ug/L	0.892	2200914	4.769

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			98.1			
[	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: 246871001

Sample Date/Time: Sunday, March 07, 2010 10:30:31

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952951|1|ba|

Method File: c:\elandata\Method\w only.mth

Dataset File: c:\elandata\Dataset\100305\246871001.839

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		447967	447967.089
[	U	238	0.021 ug/L	1.561	1865	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		95.3		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042573

Sample Date/Time: Sunday, March 07, 2010 10:33:56

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 952951|1|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\1202042573.841

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		460477	460477.174
[	U	238	-0.020	ug/L	1.221	209	-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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			98.0		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042573

Report Date/Time: Sunday, March 07, 2010 10:34:08

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202042574

Sample Date/Time: Sunday, March 07, 2010 10:35:38

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 952951|1|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\1202042574.842

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		445004	445004.263
[	U	238	51.610	ug/L	0.680	2113714	4.747

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			94.7			
[	U	238						

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042575

Sample Date/Time: Sunday, March 07, 2010 10:37:18

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 952951|5|baj

Method File: c:\elandata\Method\w only.mth

Dataset File: c:\elandata\Dataset\100305\1202042575.843

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		505414	505413.524
[	U	238	-0.012	ug/L	0.797	581	-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			107.5			
[	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 6

Sample Date/Time: Sunday, March 07, 2010 10:38:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.844

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		460999	460999.487
[	U	238	54.633	ug/L	0.593	2317814	5.025

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			98.1		
[	U	238	109.266				

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, March 07, 2010 10:40:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\U only.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.845

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		495074	495074.186
[	U	238	0.008	ug/L	3.434	1484	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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		105.3			
[	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
------------------	---------	------	-----------------------

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Sunday, March 07, 2010 10:40:52

Page 1

Method Name: WATER

Method Description: 7470A, 245.2, ILM04 ANALYST JXL

Element: Hg

Date: 02/25/2010

Technique: FI-MHS

Calibration Type:

Hg, Calc. Intercept : Linear

Wavelength: 253.7 nm

Sample Info Name: 022510W1.SIF

Results Data Set Name: 022510W1

Element: Hg Seq. No.: 36 AS Loc.: 1 Date: 02/25/2010
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0015	0.0015	10:54:34	No
2			0.0014	0.0014	10:55:09	No
Mean:			0.0015			
SD :			0.0001			
%RSD:			5.3762			

Auto-zero performed.

Element: Hg Seq. No.: 37 AS Loc.: 2 Date: 02/25/2010
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0011	0.0026	10:56:32	No
2			0.0011	0.0026	10:57:07	No
Mean:			0.0011			
SD :			0.0000			
%RSD:			2.3514			

[Hg] Standard number 1 applied. [0.200]

Correlation Coefficient: 1.00000

Slope: 0.00551

Intercept : 0.00000

Element: Hg Seq. No.: 38 AS Loc.: 3 Date: 02/25/2010
Sample ID: S0.5

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0035	0.0049	10:58:31	No
2			0.0033	0.0048	10:59:06	No
Mean:			0.0034			
SD :			0.0001			
%RSD:			3.7263			

[Hg] Standard number 2 applied. [0.500]

Correlation Coefficient: 0.99653

Slope: 0.00682

Intercept : -0.00010

Element: Hg Seq. No.: 39 AS Loc.: 4 Date: 02/25/2010
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0133	0.0148	11:00:31	No
2			0.0133	0.0148	11:01:05	No
Mean:			0.0133			
SD :			0.0000			
%RSD:			0.2404			

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99980
Intercept : -0.00007

Slope: 0.00670

=====

Element: Hg Seq. No.: 40 AS Loc.: 5 Date: 02/25/2010
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0332	0.0346	11:02:31	No
2			0.0330	0.0345	11:03:06	No
Mean:			0.0331			
SD :			0.0001			
%RSD:			0.2985			

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99996 Slope: 0.00663
Intercept : -0.00004

=====

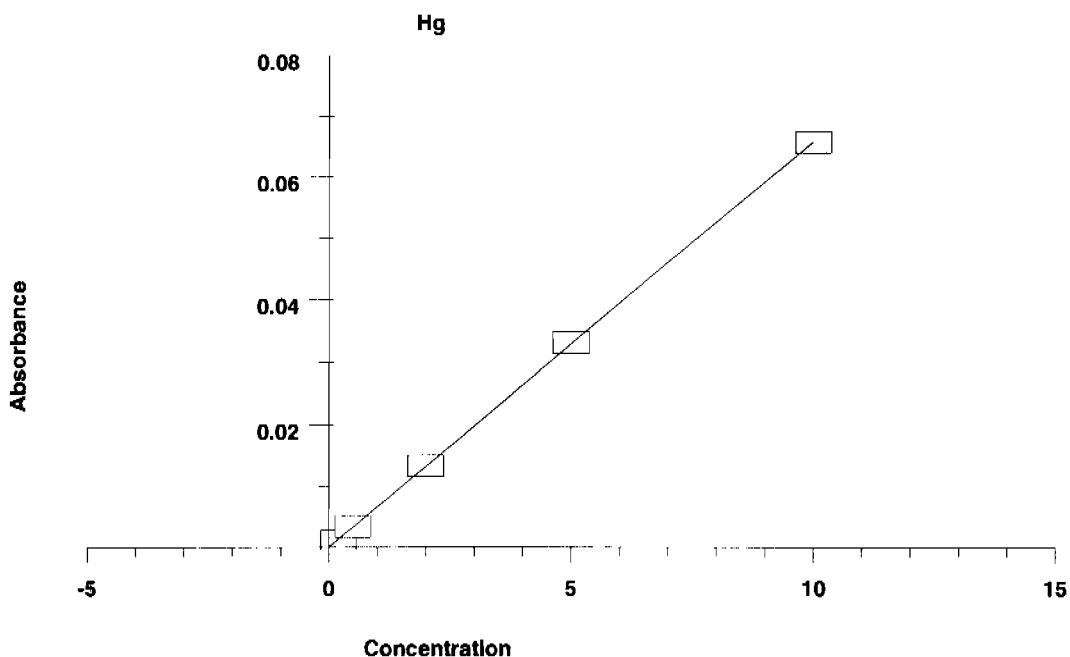
Element: Hg Seq. No.: 41 AS Loc.: 6 Date: 02/25/2010
Sample ID: S10

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0658	0.0673	11:04:33	No
2			0.0657	0.0672	11:05:07	No
Mean:			0.0658			
SD :			0.0001			
%RSD:						

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99998 Slope: 0.00658
Intercept : 0.00002

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0015	---	----	----	----
S0.2	0.0011	0.200	0.165	0.0000	2.4
S0.5	0.0034	0.500	0.510	0.0001	3.7
S2.0	0.0133	2.000	2.019	0.0000	0.2
S5.0	0.0331	5.000	5.024	0.0001	0.3
S10	0.0658	10.000	9.984	0.0001	----
Correlation Coefficient: 0.99998		Slope:	0.00658	Intercept:	0.0000



=====
 Element: Hg Seq. No.: 42 AS Loc.: 9 Date: 02/25/2010
 Sample ID: ICV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.138	5.138	0.0338	0.0353	11:06:35	No
2	5.110	5.110	0.0337	0.0351	11:07:09	No
Mean:	5.124	5.124	0.0338			
SD :	0.0203	0.0203	0.0001			
%RSD:	0.4	0.4	0.3959			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 43 AS Loc.: 10 Date: 02/25/2010
 Sample ID: ICB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.006	0.006	0.0001	0.0015	11:08:31	No
2	-0.010	-0.010	0.0000	0.0014	11:09:06	No
Mean:	-0.002	-0.002	0.0000			
SD :	0.0111	0.0111	0.0001			
%RSD:	647.6	647.6	1145.2686			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 44 AS Loc.: 11 Date: 02/25/2010
 Sample ID: CRDL

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.258	0.258	0.0017	0.0032	11:10:28	No
2	0.257	0.257	0.0017	0.0032	11:11:03	No
Mean:	0.257	0.257	0.0017			
SD :	0.0012	0.0012	0.0000			
%RSD:	0.4	0.4	0.4436			

QC value within specified limits.

=====

Element: Hg Seq. No.: 45 AS Loc.: 7 Date: 02/25/2010

Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	4.949	4.949	0.0326	0.0341	11:12:28	No
2	4.924	4.924	0.0324	0.0339	11:13:03	No
Mean:	4.937	4.937	0.0325			
SD :	0.0175	0.0175	0.0001			
%RSD:	0.4	0.4	0.3545			

QC value within specified limits.

=====

Element: Hg Seq. No.: 46 AS Loc.: 8 Date: 02/25/2010

Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.044	0.044	0.0003	0.0018	11:14:31	No
2	0.017	0.017	0.0001	0.0016	11:15:06	No
Mean:	0.031	0.031	0.0002			
SD :	0.0186	0.0186	0.0001			
%RSD:	60.9	60.9	56.0211			

QC value within specified limits.

=====

Element: Hg Seq. No.: 47 AS Loc.: 22 Date: 02/25/2010

Sample ID: 1202051914|i||956984|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.040	0.040	0.0003	0.0018	11:16:31	No
2	0.002	0.002	0.0000	0.0015	11:17:06	No
Mean:	0.021	0.021	0.0002			
SD :	0.0270	0.0270	0.0002			
%RSD:	129.8	129.8	114.9934			

=====

Element: Hg Seq. No.: 48 AS Loc.: 23 Date: 02/25/2010

Sample ID: 1202051915|i||LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.109	2.109	0.0139	0.0154	11:18:30	No
2	2.117	2.117	0.0140	0.0154	11:19:05	No
Mean:	2.113	2.113	0.0139			
SD :	0.0053	0.0053	0.0000			
%RSD:	0.3	0.3	0.2514			

=====

Element: Hg Seq. No.: 49 AS Loc.: 24 Date: 02/25/2010

Sample ID: 247850001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.041	0.041	0.0003	0.0018	11:20:29	No
2	0.023	0.023	0.0002	0.0016	11:21:04	No
Mean:	0.032	0.032	0.0002			
SD :	0.0127	0.0127	0.0001			
%RSD:	40.1	40.1	36.9422			

=====

Element: Hg Seq. No.: 50 AS Loc.: 25 Date: 02/25/2010

Sample ID: 1202051916|i|||DUP

%RSD: 67.0 67.0 31.8435

=====
 Element: Hg Seq. No.: 56 AS Loc.: 31 Date: 02/25/2010
 Sample ID: 247850005|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.477	0.477	0.0032	0.0046	11:34:35	No
2	0.440	0.440	0.0029	0.0044	11:35:10	No
Mean:	0.459	0.459	0.0030			
SD :	0.0260	0.0260	0.0002			
%RSD:	5.7	5.7	5.6376			

=====
 Element: Hg Seq. No.: 57 AS Loc.: 7 Date: 02/25/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.027	5.027	0.0331	0.0346	11:36:37	No
2	5.029	5.029	0.0331	0.0346	11:37:11	No
Mean:	5.028	5.028	0.0331			
SD :	0.0012	0.0012	0.0000			
%RSD:						

QC value within specified limits.

=====
 Element: Hg Seq. No.: 58 AS Loc.: 8 Date: 02/25/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.027	0.027	0.0002	0.0017	11:38:39	No
2	0.004	0.004	0.0000	0.0015	11:39:14	No
Mean:	0.015	0.015	0.0001			
SD :	0.0162	0.0162	0.0001			
%RSD:	105.3	105.3	89.6157			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 59 AS Loc.: 32 Date: 02/25/2010
 Sample ID: 247850006|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.452	0.452	0.0030	0.0045	11:40:38	No
2	0.437	0.437	0.0029	0.0044	11:41:13	No
Mean:	0.444	0.444	0.0029			
SD :	0.0107	0.0107	0.0001			
%RSD:	2.4	2.4	2.3869			

=====
 Element: Hg Seq. No.: 60 AS Loc.: 33 Date: 02/25/2010
 Sample ID: 247850007|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.004	-0.004	0.0000	0.0015	11:42:33	No
2	-0.009	-0.009	0.0000	0.0014	11:43:07	No
Mean:	-0.006	-0.006	0.0000			
SD :	0.0034	0.0034	0.0000			
%RSD:	52.8	52.8	91.2736			

=====
 Element: Hg Seq. No.: 61 AS Loc.: 34 Date: 02/25/2010
 Sample ID: 247850008|i|||

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      -0.003    -0.003    0.0000    0.0015    11:44:27  No
2      -0.004    -0.004    0.0000    0.0015    11:45:02  No
Mean:   -0.003    -0.003    0.0000
SD :    0.0011    0.0011    0.0000
%RSD:   31.8      31.8    159.2729
-----

```

```

=====
Element: Hg      Seq. No.: 62      AS Loc.: 35      Date: 02/25/2010
Sample ID: 1202051937|i||956996|MB
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      0.005      0.005    0.0000    0.0015    11:46:24  No
2      0.003      0.003    0.0000    0.0015    11:46:59  No
Mean:   0.004      0.004    0.0000
SD :    0.0013    0.0013    0.0000
%RSD:   32.2      32.2    19.1524
-----

```

```

=====
Element: Hg      Seq. No.: 63      AS Loc.: 36      Date: 02/25/2010
Sample ID: 1202051938|i||LCS
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      2.129      2.129    0.0140    0.0155    11:48:21  No
2      2.136      2.136    0.0141    0.0156    11:48:56  No
Mean:   2.133      2.133    0.0141
SD :    0.0050    0.0050    0.0000
%RSD:   0.2        0.2      0.2358
-----

```

```

=====
Element: Hg      Seq. No.: 64      AS Loc.: 37      Date: 02/25/2010
Sample ID: 246871001|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      -0.053    -0.053    -0.0003    0.0011    11:50:19  No
2      -0.024    -0.024    -0.0001    0.0013    11:50:53  No
Mean:   -0.038    -0.038    -0.0002
SD :    0.0200    0.0200    0.0001
%RSD:   52.2      52.2    56.1552
-----

```

```

=====
Element: Hg      Seq. No.: 65      AS Loc.: 38      Date: 02/25/2010
Sample ID: 246882001|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      -0.011    -0.011    -0.0001    0.0014    11:52:16  No
2      -0.030    -0.030    -0.0002    0.0013    11:52:51  No
Mean:   -0.021    -0.021    -0.0001
SD :    0.0132    0.0132    0.0001
%RSD:   64.0      64.0    73.5588
-----

```

```

=====
Element: Hg      Seq. No.: 66      AS Loc.: 39      Date: 02/25/2010
Sample ID: 246882002|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      -0.030    -0.030    -0.0002    0.0013    11:54:14  No
2      -0.011    -0.011    -0.0001    0.0014    11:54:49  No
Mean:   -0.020    -0.020    -0.0001
SD :    0.0131    0.0131    0.0001
-----

```

%RSD: 64.2 64.2 73.9600

=====

Element: Hg Seq. No.: 67 AS Loc.: 40 Date: 02/25/2010
 Sample ID: 246883001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0001	0.0015	11:56:13	No
2	-0.011	-0.011	-0.0001	0.0014	11:56:48	No
Mean:	-0.002	-0.002	0.0000			
SD :	0.0131	0.0131	0.0001			
%RSD:	702.5	702.5	1607.0531			

=====

Element: Hg Seq. No.: 68 AS Loc.: 41 Date: 02/25/2010
 Sample ID: 246883002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.014	0.014	0.0001	0.0016	11:58:12	No
2	0.010	0.010	0.0001	0.0016	11:58:47	No
Mean:	0.012	0.012	0.0001			
SD :	0.0033	0.0033	0.0000			
%RSD:	27.1	27.1	22.1377			

=====

Element: Hg Seq. No.: 69 AS Loc.: 7 Date: 02/25/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.321	5.321	0.0351	0.0365	12:00:13	No
2	5.286	5.286	0.0348	0.0363	12:00:47	No
Mean:	5.304	5.304	0.0349			
SD :	0.0249	0.0249	0.0002			
%RSD:	0.5	0.5	0.4690			

QC value within specified limits.

=====

Element: Hg Seq. No.: 70 AS Loc.: 8 Date: 02/25/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.033	0.033	0.0002	0.0017	12:02:15	No
2	0.037	0.037	0.0003	0.0017	12:02:50	No
Mean:	0.035	0.035	0.0002			
SD :	0.0030	0.0030	0.0000			
%RSD:	8.6	8.6	8.0146			

QC value within specified limits.

=====

Element: Hg Seq. No.: 71 AS Loc.: 42 Date: 02/25/2010
 Sample ID: 246883003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.015	0.015	0.0001	0.0016	12:04:16	No
2	0.019	0.019	0.0001	0.0016	12:04:51	No
Mean:	0.017	0.017	0.0001			
SD :	0.0024	0.0024	0.0000			
%RSD:	14.0	14.0	12.0684			

=====

Element: Hg Seq. No.: 72 AS Loc.: 43 Date: 02/25/2010
 Sample ID: 246883004|i|||

%RSD: 36.0 36.0 20.1861

=====
 Element: Hg Seq. No.: 78 AS Loc.: 49 Date: 02/25/2010
 Sample ID: 247039002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.027	0.027	0.0002	0.0017	12:18:12	No
2	0.010	0.010	0.0001	0.0016	12:18:47	No
Mean:	0.018	0.018	0.0001			
SD :	0.0119	0.0119	0.0001			
%RSD:	64.7	64.7	56.4602			

=====
 Element: Hg Seq. No.: 79 AS Loc.: 50 Date: 02/25/2010
 Sample ID: 247039003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.015	0.015	0.0001	0.0016	12:20:07	No
2	0.005	0.005	0.0001	0.0015	12:20:42	No
Mean:	0.010	0.010	0.0001			
SD :	0.0068	0.0068	0.0000			
%RSD:	68.3	68.3	53.8421			

=====
 Element: Hg Seq. No.: 80 AS Loc.: 51 Date: 02/25/2010
 Sample ID: 247039004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0015	12:22:03	No
2	-0.014	-0.014	-0.0001	0.0014	12:22:39	No
Mean:	-0.006	-0.006	0.0000			
SD :	0.0115	0.0115	0.0001			
%RSD:	192.3	192.3	348.5142			

=====
 Element: Hg Seq. No.: 81 AS Loc.: 7 Date: 02/25/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.031	5.031	0.0331	0.0346	12:24:03	No
2	5.034	5.034	0.0332	0.0346	12:24:38	No
Mean:	5.032	5.032	0.0332			
SD :	0.0018	0.0018	0.0000			
%RSD:						

QC value within specified limits.

=====
 Element: Hg Seq. No.: 82 AS Loc.: 8 Date: 02/25/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.029	0.029	0.0002	0.0017	12:26:06	No
2	0.016	0.016	0.0001	0.0016	12:26:41	No
Mean:	0.022	0.022	0.0002			
SD :	0.0087	0.0087	0.0001			
%RSD:	39.1	39.1	34.9168			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 83 AS Loc.: 52 Date: 02/25/2010
 Sample ID: 247098001|i|||


```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      -0.006     -0.006     0.0000    0.0015    12:28:06  No
2      -0.021     -0.021     -0.0001    0.0014    12:28:41  No
Mean:   -0.013     -0.013     -0.0001
SD :    0.0100     0.0100     0.0001
%RSD:   74.1       74.1       92.6082
-----

```

```

=====
Element: Hg      Seq. No.: 84      AS Loc.: 53      Date: 02/25/2010
Sample ID: 1202051939|i|||DUP
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      0.018       0.018     0.0001    0.0016    12:30:03  No
2      -0.004       -0.004     0.0000    0.0015    12:30:37  No
Mean:   0.007       0.007     0.0001
SD :    0.0150     0.0150     0.0001
%RSD:  216.3       216.3    156.0857
-----

```

```

=====
Element: Hg      Seq. No.: 85      AS Loc.: 54      Date: 02/25/2010
Sample ID: 1202051940|i|||MS
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      2.340       2.340     0.0154    0.0169    12:31:59  No
2      2.303       2.303     0.0152    0.0167    12:32:34  No
Mean:   2.322       2.322     0.0153
SD :    0.0262     0.0262     0.0002
%RSD:   1.1        1.1       1.1289
-----

```

```

=====
Element: Hg      Seq. No.: 86      AS Loc.: 55      Date: 02/25/2010
Sample ID: 1202051941|i|5||SDILT
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      -0.050       -0.050     -0.0003    0.0012    12:33:58  No
2      -0.067       -0.067     -0.0004    0.0011    12:34:33  No
Mean:   -0.059       -0.059     -0.0004
SD :    0.0124     0.0124     0.0001
%RSD:   21.1       21.1     22.1383
-----

```

```

=====
Element: Hg      Seq. No.: 87      AS Loc.: 56      Date: 02/25/2010
Sample ID: 247098002|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      0.024       0.024     0.0002    0.0017    12:35:57  No
2      -0.003       -0.003     0.0000    0.0015    12:36:32  No
Mean:   0.010       0.010     0.0001
SD :    0.0195     0.0195     0.0001
%RSD:  188.2       188.2    149.5282
-----

```

```

=====
Element: Hg      Seq. No.: 88      AS Loc.: 57      Date: 02/25/2010
Sample ID: 247098003|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      0.019       0.019     0.0001    0.0016    12:37:56  No
2      0.005       0.005     0.0001    0.0015    12:38:31  No
Mean:   0.012       0.012     0.0001
SD :    0.0097     0.0097     0.0001
-----

```

%RSD: 78.9 78.9 64.7392

=====
 Element: Hg Seq. No.: 89 AS Loc.: 58 Date: 02/25/2010
 Sample ID: 247098004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.006	0.006	0.0001	0.0015	12:39:55	No
2	-0.002	-0.002	0.0000	0.0015	12:40:30	No
Mean:	0.002	0.002	0.0000			
SD :	0.0058	0.0058	0.0000			
%RSD:	251.8	251.8	116.7255			

=====
 Element: Hg Seq. No.: 90 AS Loc.: 59 Date: 02/25/2010
 Sample ID: 1202052034|i||957034|MB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.027	0.027	0.0002	0.0017	12:41:55	No
2	-0.003	-0.003	0.0000	0.0015	12:42:30	No
Mean:	0.012	0.012	0.0001			
SD :	0.0209	0.0209	0.0001			
%RSD:	176.4	176.4	143.7482			

=====
 Element: Hg Seq. No.: 91 AS Loc.: 60 Date: 02/25/2010
 Sample ID: 1202052035|i||LCS

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	2.345	2.345	0.0155	0.0169	12:43:56	No
2	2.330	2.330	0.0154	0.0168	12:44:31	No
Mean:	2.338	2.338	0.0154			
SD :	0.0108	0.0108	0.0001			
%RSD:	0.5	0.5	0.4613			

=====
 Element: Hg Seq. No.: 92 AS Loc.: 61 Date: 02/25/2010
 Sample ID: 247182001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.004	-0.004	0.0000	0.0015	12:45:57	No
2	-0.003	-0.003	0.0000	0.0015	12:46:31	No
Mean:	-0.003	-0.003	0.0000			
SD :	0.0009	0.0009	0.0000			
%RSD:	27.6	27.6	131.6391			

=====
 Element: Hg Seq. No.: 93 AS Loc.: 7 Date: 02/25/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.071	5.071	0.0334	0.0349	12:47:58	No
2	5.094	5.094	0.0336	0.0350	12:48:32	No
Mean:	5.083	5.083	0.0335			
SD :	0.0159	0.0159	0.0001			
%RSD:	0.3	0.3	0.3128			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 94 AS Loc.: 8 Date: 02/25/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.006	-0.006	0.0000	0.0015	12:50:00	No
2	-0.002	-0.002	0.0000	0.0015	12:50:35	No
Mean:	-0.004	-0.004	0.0000			
SD :	0.0023	0.0023	0.0000			
%RSD:	57.3	57.3	177.8653			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 95 AS Loc.: 62 Date: 02/25/2010
 Sample ID: 247192001|i|||
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.038	-0.038	-0.0002	0.0012	12:52:02	No
2	-0.039	-0.039	-0.0002	0.0012	12:52:37	No
Mean:	-0.039	-0.039	-0.0002			
SD :	0.0013	0.0013	0.0000			
%RSD:	3.2	3.2	3.4875			

=====
 Element: Hg Seq. No.: 96 AS Loc.: 63 Date: 02/25/2010
 Sample ID: 247250001|i|||
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.041	-0.041	-0.0003	0.0012	12:54:00	No
2	-0.057	-0.057	-0.0004	0.0011	12:54:35	No
Mean:	-0.049	-0.049	-0.0003			
SD :	0.0115	0.0115	0.0001			
%RSD:	23.5	23.5	24.8640			

=====
 Element: Hg Seq. No.: 97 AS Loc.: 64 Date: 02/25/2010
 Sample ID: 247250002|i|||
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.036	-0.036	-0.0002	0.0013	12:55:55	No
2	-0.051	-0.051	-0.0003	0.0012	12:56:30	No
Mean:	-0.043	-0.043	-0.0003			
SD :	0.0105	0.0105	0.0001			
%RSD:	24.2	24.2	25.8362			

=====
 Element: Hg Seq. No.: 98 AS Loc.: 65 Date: 02/25/2010
 Sample ID: 247256001|i|||
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.042	-0.042	-0.0003	0.0012	12:57:49	No
2	-0.056	-0.056	-0.0004	0.0011	12:58:25	No
Mean:	-0.049	-0.049	-0.0003			
SD :	0.0103	0.0103	0.0001			
%RSD:	21.0	21.0	22.2172			

=====
 Element: Hg Seq. No.: 99 AS Loc.: 66 Date: 02/25/2010
 Sample ID: 247256002|i|||
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.027	-0.027	-0.0002	0.0013	12:59:46	No
2	-0.038	-0.038	-0.0002	0.0012	13:00:21	No
Mean:	-0.032	-0.032	-0.0002			
SD :	0.0077	0.0077	0.0001			

Miscellaneous

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 956994.0
Analyst: Tara Griffin
Method: SW846 7470A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: No analytical instrument

Verified by:
Type **Sample Id** **Description** **Serial Number** **Spike Amount** **Spike Units**
 LCS 1202051938 Mercury working intermediate standard for LCS/MS WHG100224-13 .2 mL
 MS 1202051940 Mercury working intermediate standard for LCS/MS WHG100224-13 .2 mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202051937 MB	24-FEB-2010 12:10:00	Water	20	20	1	<2
1202051938 LCS	24-FEB-2010 12:10:00	Water	20	20	1	<2
246871001	24-FEB-2010 12:10:00	Water	20	20	1	<2
246882001	24-FEB-2010 12:10:00	Water	20	20	1	<2
246882002	24-FEB-2010 12:10:00	Water	20	20	1	<2
246883001	24-FEB-2010 12:10:00	Water	20	20	1	<2
246883002	24-FEB-2010 12:10:00	Water	20	20	1	<2
246883003	24-FEB-2010 12:10:00	Water	20	20	1	<2
246883004	24-FEB-2010 12:10:00	Water	20	20	1	<2
246975001	24-FEB-2010 12:10:00	Water	20	20	1	<2
246975002	24-FEB-2010 12:10:00	Water	20	20	1	<2
246983001	24-FEB-2010 12:10:00	Water	20	20	1	<2
246983002	24-FEB-2010 12:10:00	Water	20	20	1	<2
247039001	24-FEB-2010 12:10:00	Water	20	20	1	<2
247039002	24-FEB-2010 12:10:00	Water	20	20	1	<2
247039003	24-FEB-2010 12:10:00	Water	20	20	1	<2
247039004	24-FEB-2010 12:10:00	Water	20	20	1	<2
247098001	24-FEB-2010 12:10:00	Water	20	20	1	<2
1202051939 DUP (247098001)	24-FEB-2010 12:10:00	Water	20	20	1	<2
1202051940 MS (247098001)	24-FEB-2010 12:10:00	Water	20	20	1	<2
1202051941 SDILT (247098001)	24-FEB-2010 12:10:00	Water	20	20	1	<2
247098002	24-FEB-2010 12:10:00	Water	20	20	1	<2
247098003	24-FEB-2010 12:10:00	Water	20	20	1	<2
247098004	24-FEB-2010 12:10:00	Water	20	20	1	<2

Comments:

Digestion Start Date: 24-FEB-10 12:10

GEL Laboratories LLC

Analytical Logbook version 1 11-04-2002

Amount

1 mL

Description

Sulfuric Acid, Concentrated

Prep Logbook

Batch ID: 956994.0
Analyst: Tara Griffin
Method: SW846 7470A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: No analytical instrument

Verified by:

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check	Serial Number	Spike Amount	Spike Units
1176183	Sulfuric Acid, Concentrated	1 mL							
1255532-C	Hg reducing agent	1 mL							
1261483-C	5% Potassium Persulfate	1.5 mL							
1274391-1	NITRIC ACID	.5 mL							
1274397-C	5% KMnO4 solution	3 mL							
WHG100224-01a	Mercury Working 1st Source CAL 0.2/CRA	20 uL							
WHG100224-02	Mercury Working 1st Source CAL 0.5	50 uL							
WHG100224-03	Mercury Working 1st Source CAL 2.0	200 uL							
WHG100224-04	Mercury Working 1st Source CAL 5.0/CCV	500 uL							
WHG100224-05	Mercury Working 1st Source CAL 10.0	1 mL							
WHG100224-06	Mercury Working 2nd Source 5.0/ICV	500 uL							

Digestion End Date: 24-FEB-10 14:10

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID: 952948.0
Analyst: Anthony Green
Method: SW846 3005A
Lab SOP: GL-MA-E-006 REV# 9
Instrument: Metals Manual Instrument

Verified by: _____

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202042567	Metals Spike Mix I	U1100205-01	.25	mL
LCS	1202042567	Metals Spike Mix II	U1100205-06	.25	mL
MS	1202042569	Metals Spike Mix I	U1100205-01	.25	mL
MS	1202042569	Metals Spike Mix II	U1100205-06	.25	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202042566 MB	22-FEB-2010 11:00:00	Water	50	50	1	<2
1202042567 LCS	22-FEB-2010 11:00:00	Water	50	50	1	<2
246838001	22-FEB-2010 11:00:00	Water	50	50	1	<2
246871001	22-FEB-2010 11:00:00	Water	50	50	1	<2
246882001	22-FEB-2010 11:00:00	Water	50	50	1	<2
1202042568 DUP (246882001)	22-FEB-2010 11:00:00	Water	50	50	1	<2
1202042569 MS (246882001)	22-FEB-2010 11:00:00	Water	50	50	1	<2
1202042570 SDILT (246882001)	22-FEB-2010 11:00:00	Water	50	50	1	<2
246882002	22-FEB-2010 11:00:00	Water	50	50	1	<2
246883001	22-FEB-2010 11:00:00	Water	50	50	1	<2
246883002	22-FEB-2010 11:00:00	Water	50	50	1	<2
246883003	22-FEB-2010 11:00:00	Water	50	50	1	<2
246883004	22-FEB-2010 11:00:00	Water	50	50	1	<2

Reagent/Solvent Lot ID	Description	Amount	Comments:
1265209	HYDROCHLORIC ACID	2.5 mL	
1268732	Nitric Acid CONC.	1 mL	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID:	952950.0	Verified by:		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst:	Anthony Green			LCS	1202042572	ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).	U1100205-A	.5	mL
Method:	SW846 3005A			LCS	1202042572	MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).	U1100205-B	.5	mL
Lab SOP:	GL-MA-E-006 REV# 9			MS	1202042574	ICP-MS DOE liquid Spike Solution A	U1090930-A	.5	mL
Instrument:	Metals Manual Instrument			MS	1202042574	ICP-MS DOE Liquid Spike Solution B	U1090930-B	.5	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202042571 MB	22-FEB-2010 11:00:00	Water	50	50	1	<2
1202042572 LCS	22-FEB-2010 11:00:00	Water	50	50	1	<2
246838001	22-FEB-2010 11:00:00	Water	50	50	1	<2
246871001	22-FEB-2010 11:00:00	Water	50	50	1	<2
246882001	22-FEB-2010 11:00:00	Water	50	50	1	<2
1202042573 DUP (246882001)	22-FEB-2010 11:00:00	Water	50	50	1	<2
1202042574 MS (246882001)	22-FEB-2010 11:00:00	Water	50	50	1	<2
1202042575 SDILT (246882001)	22-FEB-2010 11:00:00	Water	50	50	1	<2
246882002	22-FEB-2010 11:00:00	Water	50	50	1	<2
246883001	22-FEB-2010 11:00:00	Water	50	50	1	<2
246883002	22-FEB-2010 11:00:00	Water	50	50	1	<2
246883003	22-FEB-2010 11:00:00	Water	50	50	1	<2
246883004	22-FEB-2010 11:00:00	Water	50	50	1	<2

Reagent/Solvent Lot ID	Description	Amount	Comments:
1265209	HYDROCHLORIC ACID	2.5 mL	
1268732	Nitric Acid CONC.	1 mL	

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI090421-40 **Opened:** 09-OCT-09 **Amount :** 250 mL
Name: TRACE ICP Na-1000SOUR **Received:** 21-APR-09 **Catalog Number :** HP100052-1
Type: Source Material **Expires:** 09-OCT-10 **Lot Number :** 0830227
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: ENVIRONMENTAL EXPRESS
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSEA 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 ICSEA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Standard Logbook

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expres:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Standard Logbook

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR,HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI090930-A **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE liquid Spike Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	4 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Silicon	200 mg/L
Sodium	200 mg/L	Strontium	5 mg/L
Thallium	10 mg/L	Thorium	5 mg/L
Total Uranium	5 mg/L	Uranium	5 mg/L
Uranium-235	.0364 mg/L	Uranium-238	4.96 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI090930-B **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE Liquid Spike Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3% H_2O (NH_4) 2SiF_6
Supplier: o2si
Description: Silicon 1000mg/L +/- 0.3% in H_2O (NH_4) 2SiF_6
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 :** HNO_3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Standard Logbook

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: ENVIRNMENTAL EXPRESS
Description: SILICON 1000mg/L H2O/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: 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: 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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI100205-A **Opened:** 05-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 05-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: O2si
Description: ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	5 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Bismuth	5 mg/L	Boron	10 mg/L
Cadmium	5 mg/L	Calcium	200 mg/L
Cesium	5 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	5 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorous	200 mg/L	Potassium	200 mg/L
Selenium	5 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	5 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Serial ID: UI100205-B **Opened:** 05-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 05-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: O2si
Description: MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	5 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Standard Logbook

Serial ID: UI100217-48 **Opened:** 04-MAR-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 17-FEB-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 04-MAR-11 **Lot Number :** 1018878
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: 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: UI100226-40 **Opened:** 26-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 25-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 1018981
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI100226-41 **Opened:** 26-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 25-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 1018981
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCaSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCaSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A

Standard Logbook

Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS100226-03 Opened: 26-FEB-10 Amount : 250 ml
 Name: ICPMSCalSPIKEC Received: 26-FEB-10 Catalog Number : ZGEL-101-250
 Type: Source Material Expires: 26-FEB-11 Lot Number : 21-102JB

Employee: Paul Boyd

Supplier: SPEX

Description: ICPMS Calibration Standard Solution C

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100224-01 Opened: 24-FEB-10 Instrument Id : Mercury
 Name: MHGINTER1 Received: 24-FEB-10 Pipet Id : Minou1
 Type: Intermediate Expires: 25-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: IHG100224-02 Opened: 24-FEB-10 Pipet Id : Minou1
 Name: MHGINTER2 Received: 24-FEB-10 Solvent : 2% HNO3-1274391
 Type: Intermediate Expires: 25-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

Standard Logbook

Serial ID: WHG100224-01a **Opened:** 24-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.2CRA **Received:** 24-FEB-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 25-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.
IHG100224-01	Mercury	200 ug/L	20 uL	20 mL	.2 ug/L

Serial ID: WHG100224-02 **Opened:** 24-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.5 **Received:** 24-FEB-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 25-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.
IHG100224-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Serial ID: WHG100224-03 **Opened:** 24-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL2.0 **Received:** 24-FEB-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 25-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.
IHG100224-01	Mercury	200 ug/L	200 uL	20 mL	2 ug/L

Serial ID: WHG100224-04 **Opened:** 24-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL5.0CCV **Received:** 24-FEB-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 25-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.
IHG100224-01	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Standard Logbook

Serial ID: WHG100224-05 **Opened:** 24-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL10.0 **Received:** 24-FEB-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 25-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.
IHG100224-01	Mercury	200 ug/L	1 mL	20 mL	10 ug/L

Serial ID: WHG100224-06 **Opened:** 24-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORK5.0ICV **Received:** 24-FEB-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 25-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.
IHG100224-02	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100224-13 **Opened:** 24-FEB-10 **Pipet Id :** Hg1289245
Name: MHGLIQLCSMSSPIKE **Received:** 24-FEB-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 25-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: WI100309-42 **Opened:** 09-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 10-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1281689
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.
WI100309-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100309-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100309-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100309-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100309-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100309-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100309-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100309-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100309-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100309-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100309-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100309-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100309-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100309-43 **Opened:** 09-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 10-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1281689
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100309-44 **Opened:** 09-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 10-MAR-10 **Solvent :** 3%HCL and 1 %HNO3-1281689
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: W100309-45 **Opened:** 09-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 10-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1281689
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L

Serial ID: W100309-46 **Opened:** 09-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 10-MAR-10 **Solvent :** 3%HCL AND 1%HNO3-1281689
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals

Standard Logbook

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
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: WI100309-47

Opened: 09-MAR-10

Balance Id : 216

Name: PQL Working Standard

Received: 30-JUN-09

Pipet Id : 3581809

Type: Working

Expires: 10-MAR-10

Solvent : 3%HCL & 1%HNO3-1281689

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

Report run on: 10-MAR-10

GEL Laboratories LLC

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Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
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: WMS100306-04 **Opened:** 06-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 06-MAR-10 **Balance Id :** 4025216
Type: Working **Expires:** 07-MAR-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl-1276824
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100306-04A **Opened:** 06-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 06-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 07-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
WMS100306-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100306-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100306-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100306-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100306-05 **Opened:** 06-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 06-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 07-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
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: WMS100306-06 **Opened:** 06-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 06-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 07-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
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: WMS100306-07 **Opened:** 06-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 06-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 07-MAR-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl - 1276824
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: WMS100306-08 **Opened:** 06-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 06-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 07-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	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: Hydroxylamine Hydrochloride
Comments: None

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 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

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1215906	B-K2S2O8S-MER	N/A	50 g	1000 mL	N/A

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: 1268732 **Opened:** 11-FEB-10 **Lot Number :** H12022 L
Name: I-HNO3 **Received:** 11-FEB-10
Type: Reagent/Solvent **Expires:** 11-FEB-11
Employee: Bryan Davis
Supplier: BAKER
Description: Nitric Acid CONC.

Standard Logbook

Comments: None

Serial ID: 1274391-1 Opened: 24-FEB-10 Instrument Id : MERCURY
 Name: B-HNO3-MER Received: 24-FEB-10 Lot Number : H44025
 Type: Reagent/Solvent Expires: 24-FEB-11
 Employee: Tara Griffin
 Supplier: Mallinckrodt Chemicals
 Description: NITRIC ACID
 Comments: None

Serial ID: 1274397-C Opened: 24-FEB-10 Balance Id : BAL-002
 Name: B-KMnO4-MER Received: 24-FEB-10
 Type: Reagent/Solvent Expires: 20-JUL-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: 5% KMnO4 solution
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1276824 Opened: 01-MAR-10 Solvent : Type I Water
 Name: B-2%HNO3/1%HCl-ICPMS Received: 01-MAR-10
 Type: Reagent/Solvent Expires: 08-MAR-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: 1276974 Opened: 01-MAR-10 Amount : 20 L
 Name: B-ICP-RINSE SOLN Received: 25-FEB-10 Lot Number : H04040+G34050
 Type: Reagent/Solvent Expires: 07-MAR-10 Solvent : 3%HCL+1%HNO3
 Employee: Helen Camello
 Supplier: GEL
 Description: 3%HCL+1%HNO3 RINSE SOLN.
 Comments: None

Standard Logbook

Serial ID: 1281689 **Opened:** 08-MAR-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 01-MAR-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 14-MAR-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 10-1759-1**

Sample Analysis

Sample ID	Client ID
246872001	RE15-10-8366
246872002	RE15-10-8367
246872003	RE15-10-8364
246872004	RE15-10-8365
246872005	RE15-10-8368
246872006	RE15-10-8340
246872007	RE15-10-8341
246872008	RE15-10-8376
1202042576	Method Blank (MB) ICP
1202059110	Method Blank (MB) ICP
1202042581	Laboratory Control Sample (LCS)
1202059111	Laboratory Control Sample (LCS)
1202042578	246872001(RE15-10-8366L) Serial Dilution (SD)
1202042577	246872001(RE15-10-8366D) Sample Duplicate (DUP)
1202042579	246872001(RE15-10-8366S) Matrix Spike (MS)
1202042580	246872001(RE15-10-8366SD) Matrix Spike Duplicate (MSD)
1202042582	Method Blank (MB) ICP-MS
1202042587	Laboratory Control Sample (LCS)
1202042584	246872001(RE15-10-8366L) Serial Dilution (SD)
1202042583	246872001(RE15-10-8366D) Sample Duplicate (DUP)

1202042585	246872001(RE15-10-8366S) Matrix Spike (MS)
1202042586	246872001(RE15-10-8366SD) Matrix Spike Duplicate (MSD)
1202055194	Method Blank (MB) CVAA
1202055195	Laboratory Control Sample (LCS)
1202055198	246870001(RE46-10-12720L) Serial Dilution (SD)
1202055196	246870001(RE46-10-12720D) Sample Duplicate (DUP)
1202055197	246870001(RE46-10-12720S) Matrix Spike (MS)
1202055199	246870001(RE46-10-12720SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch:	952953, 960016, 952955 and 958331
Prep Batch :	952952, 960012, 952954 and 958328
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 4300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The Metals analysis-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.

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: 246872001 (RE15-10-8366) and 246870001 (RE46-10-12720).

Matrix Spike (MS) Recovery Statement

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

Matrix Spike Duplicate (MSD) Recovery Statement

The percent recovery (%R) obtained from the MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MSD met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes with the exceptions of aluminum and potassium, as indicated by the "N" qualifiers.

MS/MSD Relative Percent Difference (RPD) Statement

The relative percent difference (RPD) obtained from the designated matrix spike duplicate (MSD) is evaluated based on acceptance criteria of 20%. The RPD between qualifying elements results in the MS and MSD were within the acceptance limits of 20% with the exception of barium, as indicated by the "*" qualifier.

Duplicate Relative Percent Difference (RPD) Statement

The relative percent difference (RPD) obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is 5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the contract required detection limit (RL), a control of +/-RL is used to evaluate the DUP results. All applicable analytes met these requirements with the exceptions of manganese and zinc, as indicated by the "*" qualifiers.

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations that are 25X the IDL/MDL for CVAA, 50X the IDL/MDL for ICP, and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. All applicable analytes met the acceptance criteria of less than 10% difference (%D).

Technical Information**Holding Time Specifications**

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

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG were diluted the standard 2x for solids on the ICPMS.

Preparation Information

The samples in this SDG were prepared exactly according to the cited SOP.

Miscellaneous Information**Electronic Packaging Comment**

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DERs were generated for this SDG: 797537 and 801336. 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 Pearson Date: 3/11/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872001

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8366

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1970000	ug/Kg	N	7900	23200	23200	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-36-0	Antimony	1160	ug/Kg	U	383	1160	1160	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-38-2	Arsenic	1.01	mg/kg	J	0.235	1.17	1.17	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-39-3	Barium	31600	ug/Kg	*N	116	582	582	1	P	HSC	03/04/10 20:11	030410-2	960016
7440-41-7	Beryllium	0.431	mg/kg		0.0235	0.117	0.117	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-43-9	Cadmium	237	ug/Kg	J	116	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-70-2	Calcium	549000	ug/Kg	N	9290	29000	29000	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-47-3	Chromium	1730	ug/Kg		174	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-48-4	Cobalt	1410	ug/Kg		174	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-50-8	Copper	3570	ug/Kg		349	1160	1160	1	P	HSC	03/04/10 20:11	030410-2	960016
7439-89-6	Iron	6850000	ug/Kg		9290	29000	29000	1	P	HSC	02/26/10 10:02	022610D-1	952953
7439-92-1	Lead	7190	ug/Kg		290	1160	1160	1	P	HSC	02/26/10 10:02	022610D-1	952953
7439-95-4	Magnesium	378000	ug/Kg		9870	34800	34800	1	P	HSC	02/26/10 10:02	022610D-1	952953
7439-96-5	Manganese	265000	ug/Kg	*	232	1160	1160	1	P	HSC	02/26/10 10:02	022610D-1	952953
7439-97-6	Mercury	12.7	ug/kg	U	4.33	12.7	12.7	1	AV	JXL1	03/01/10 10:13	030110S1-12	958331
7440-02-0	Nickel	2.61	mg/kg		0.117	0.47	0.47	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-09-7	Potassium	342000	ug/Kg	N	7430	29000	29000	1	P	HSC	02/26/10 10:02	022610D-1	952953
7782-49-2	Selenium	1.17	mg/kg	U	0.587	1.17	1.17	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-22-4	Silver	211	ug/Kg	J	116	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-23-5	Sodium	37500	ug/Kg		8130	29000	29000	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-28-0	Thallium	0.235	mg/kg	U	0.0705	0.235	0.235	2	MS	BAJ	03/08/10 16:57	100308-3	952955
7440-61-1	Uranium	4.11	mg/kg		0.0155	0.047	0.047	2	MS	BAJ	03/09/10 10:21	100308-11	952955
7440-62-2	Vanadium	5810	ug/Kg		116	581	581	1	P	HSC	02/26/10 10:02	022610D-1	952953
7440-66-6	Zinc	39100	ug/Kg	*	384	1160	1160	1	P	HSC	03/04/10 20:11	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.525	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.519	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.575	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.524	g	50	mL	03/03/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872002

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8367

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 81

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1500000	ug/Kg	N	8430	24800	24800	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-36-0	Antimony	1240	ug/Kg	U	409	1240	1240	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-38-2	Arsenic	0.550	mg/kg	J	0.247	1.24	1.24	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-39-3	Barium	30900	ug/Kg	*N	117	586	586	1	P	HSC	03/04/10 20:59	030410-2	960016
7440-41-7	Beryllium	0.269	mg/kg		0.0247	0.124	0.124	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-43-9	Cadmium	195	ug/Kg	J	124	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-70-2	Calcium	515000	ug/Kg	N	9910	31000	31000	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-47-3	Chromium	2660	ug/Kg		186	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-48-4	Cobalt	616	ug/Kg	J	186	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-50-8	Copper	3660	ug/Kg		351	1170	1170	1	P	HSC	03/04/10 20:59	030410-2	960016
7439-89-6	Iron	5070000	ug/Kg		9910	31000	31000	1	P	HSC	02/26/10 10:28	022610D-1	952953
7439-92-1	Lead	6280	ug/Kg		310	1240	1240	1	P	HSC	02/26/10 10:28	022610D-1	952953
7439-95-4	Magnesium	295000	ug/Kg		10500	37200	37200	1	P	HSC	02/26/10 10:28	022610D-1	952953
7439-96-5	Manganese	125000	ug/Kg	*	248	1240	1240	1	P	HSC	02/26/10 10:28	022610D-1	952953
7439-97-6	Mercury	6.13	ug/kg	J	4.58	13.5	13.5	1	AV	JXL1	03/01/10 10:14	030110S1-12	958331
7440-02-0	Nickel	1.54	mg/kg		0.124	0.495	0.495	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-09-7	Potassium	260000	ug/Kg	N	7930	31000	31000	1	P	HSC	02/26/10 10:28	022610D-1	952953
7782-49-2	Selenium	1.24	mg/kg	U	0.618	1.24	1.24	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-22-4	Silver	138	ug/Kg	J	124	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-23-5	Sodium	36700	ug/Kg		8670	31000	31000	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-28-0	Thallium	0.247	mg/kg	U	0.0742	0.247	0.247	2	MS	BAJ	03/08/10 17:22	100308-3	952955
7440-61-1	Uranium	2.83	mg/kg		0.0163	0.0495	0.0495	2	MS	BAJ	03/09/10 10:32	100308-11	952955
7440-62-2	Vanadium	4130	ug/Kg		124	620	620	1	P	HSC	02/26/10 10:28	022610D-1	952953
7440-66-6	Zinc	25100	ug/Kg	*	387	1170	1170	1	P	HSC	03/04/10 20:59	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.5	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.501	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.552	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.529	g	50	mL	03/03/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872003

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8364

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 77

CAS No.	Analyte	Result	Units	Qnal	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3440000	ug/Kg	N	8480	25000	25000	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-36-0	Antimony	1250	ug/Kg	U	412	1250	1250	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-38-2	Arsenic	1.14	mg/kg	J	0.248	1.24	1.24	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-39-3	Barium	37200	ug/Kg	*N	125	625	625	1	P	HSC	03/04/10 21:06	030410-2	960016
7440-41-7	Beryllium	0.513	mg/kg		0.0248	0.124	0.124	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-43-9	Cadmium	280	ug/Kg	J	125	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-70-2	Calcium	981000	ug/Kg	N	9980	31200	31200	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-47-3	Chromium	8080	ug/Kg		187	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-48-4	Cobalt	2330	ug/Kg		187	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-50-8	Copper	3740	ug/Kg		375	1250	1250	1	P	HSC	03/04/10 21:06	030410-2	960016
7439-89-6	Iron	6990000	ug/Kg		9980	31200	31200	1	P	HSC	02/26/10 10:31	022610D-1	952953
7439-92-1	Lead	9420	ug/Kg		312	1250	1250	1	P	HSC	02/26/10 10:31	022610D-1	952953
7439-95-4	Magnesium	599000	ug/Kg		10600	37400	37400	1	P	HSC	02/26/10 10:31	022610D-1	952953
7439-96-5	Manganese	334000	ug/Kg	*	250	1250	1250	1	P	HSC	02/26/10 10:31	022610D-1	952953
7439-97-6	Mercury	13.8	ug/kg	J	5.05	14.9	14.9	1	AV	JXL1	03/01/10 10:16	030110S1-12	958331
7440-02-0	Nickel	3.34	mg/kg		0.124	0.496	0.496	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-09-7	Potassium	590000	ug/Kg	N	7980	31200	31200	1	P	HSC	02/26/10 10:31	022610D-1	952953
7782-49-2	Selenium	1.24	mg/kg	U	0.62	1.24	1.24	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-22-4	Silver	171	ug/Kg	J	125	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-23-5	Sodium	43000	ug/Kg		8730	31200	31200	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-28-0	Thallium	0.248	mg/kg	U	0.0744	0.248	0.248	2	MS	BAJ	03/08/10 17:26	100308-3	952955
7440-61-1	Uranium	4.29	mg/kg		0.0164	0.0496	0.0496	2	MS	BAJ	03/09/10 10:34	100308-11	952955
7440-62-2	Vanadium	7950	ug/Kg		125	624	624	1	P	HSC	02/26/10 10:31	022610D-1	952953
7440-66-6	Zinc	26300	ug/Kg	*	412	1250	1250	1	P	HSC	03/04/10 21:06	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.522	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.525	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.526	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.521	g	50	mL	03/03/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872004

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8365

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 83

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1780000	ug/Kg	N	8070	23700	23700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-36-0	Antimony	1190	ug/Kg	U	392	1190	1190	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-38-2	Arsenic	1.22	mg/Kg		0.233	1.17	1.17	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-39-3	Barium	33500	ug/Kg	*N	114	572	572	1	P	HSC	03/04/10 21:13	030410-2	960016
7440-41-7	Beryllium	0.528	mg/kg		0.0233	0.117	0.117	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-43-9	Cadmium	209	ug/Kg	J	119	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-70-2	Calcium	746000	ug/Kg	N	9500	29700	29700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-47-3	Chromium	12600	ug/Kg		178	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-48-4	Cobalt	1210	ug/Kg		178	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-50-8	Copper	5870	ug/Kg		343	1140	1140	1	P	HSC	03/04/10 21:13	030410-2	960016
7439-89-6	Iron	6350000	ug/Kg		9500	29700	29700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7439-92-1	Lead	6320	ug/Kg		297	1190	1190	1	P	HSC	02/26/10 10:35	022610D-1	952953
7439-95-4	Magnesium	363000	ug/Kg		10100	35600	35600	1	P	HSC	02/26/10 10:35	022610D-1	952953
7439-96-5	Manganese	283000	ug/Kg	*	237	1190	1190	1	P	HSC	02/26/10 10:35	022610D-1	952953
7439-97-6	Mercury	13.7	ug/kg	U	4.65	13.7	13.7	1	AV	JXL1	03/01/10 10:18	030110S1-12	958331
7440-02-0	Nickel	2.81	mg/kg		0.117	0.467	0.467	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-09-7	Potassium	341000	ug/Kg	N	7600	29700	29700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7782-49-2	Selenium	1.17	mg/kg	U	0.583	1.17	1.17	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-22-4	Silver	152	ug/Kg	J	119	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-23-5	Sodium	58600	ug/Kg		8310	29700	29700	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-28-0	Thallium	0.233	mg/kg	U	0.07	0.233	0.233	2	MS	BAJ	03/08/10 17:30	100308-3	952955
7440-61-1	Uranium	3.55	mg/kg		0.0154	0.0467	0.0467	2	MS	BAJ	03/09/10 10:36	100308-11	952955
7440-62-2	Vanadium	4320	ug/Kg		119	594	594	1	P	HSC	02/26/10 10:35	022610D-1	952953
7440-66-6	Zinc	40400	ug/Kg	*	378	1140	1140	1	P	HSC	03/04/10 21:13	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.507	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.516	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.528	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.526	g	50	mL	03/03/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872005

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8368

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3430000	ug/Kg	N	8700	25600	25600	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-36-0	Antimony	1280	ug/Kg	U	422	1280	1280	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-38-2	Arsenic	1.46	mg/kg		0.257	1.29	1.29	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-39-3	Barium	42600	ug/Kg	*N	132	661	661	1	P	HSC	03/04/10 21:20	030410-2	960016
7440-41-7	Beryllium	0.613	mg/kg		0.0257	0.129	0.129	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-43-9	Cadmium	324	ug/Kg	J	128	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-70-2	Calcium	1380000	ug/Kg	N	10200	32000	32000	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-47-3	Chromium	13000	ug/Kg		192	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-48-4	Cobalt	1780	ug/Kg		192	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-50-8	Copper	5350	ug/Kg		397	1320	1320	1	P	HSC	03/04/10 21:20	030410-2	960016
7439-89-6	Iron	8320000	ug/Kg		10200	32000	32000	1	P	HSC	02/26/10 10:39	022610D-1	952953
7439-92-1	Lead	8680	ug/Kg		320	1280	1280	1	P	HSC	02/26/10 10:39	022610D-1	952953
7439-95-4	Magnesium	685000	ug/Kg		10900	38400	38400	1	P	HSC	02/26/10 10:39	022610D-1	952953
7439-96-5	Manganese	257000	ug/Kg	*	256	1280	1280	1	P	HSC	02/26/10 10:39	022610D-1	952953
7439-97-6	Mercury	9.04	ug/kg	J	5.12	15.1	15.1	1	AV	JXL1	03/01/10 10:23	030110S1-12	958331
7440-02-0	Nickel	4.36	mg/kg		0.129	0.515	0.515	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-09-7	Potassium	595000	ug/Kg	N	8190	32000	32000	1	P	HSC	02/26/10 10:39	022610D-1	952953
7782-49-2	Selenium	1.29	mg/kg	U	0.643	1.29	1.29	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-22-4	Silver	272	ug/Kg	J	128	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-23-5	Sodium	59600	ug/Kg		8960	32000	32000	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-28-0	Thallium	0.257	mg/kg	U	0.0772	0.257	0.257	2	MS	BAJ	03/08/10 17:33	100308-3	952955
7440-61-1	Uranium	8.8	mg/kg		0.017	0.0515	0.0515	2	MS	BAJ	03/09/10 10:37	100308-11	952955
7440-62-2	Vanadium	8950	ug/Kg		128	640	640	1	P	HSC	02/26/10 10:39	022610D-1	952953
7440-66-6	Zinc	36700	ug/Kg	*	437	1320	1320	1	P	HSC	03/04/10 21:20	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.518	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.515	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.528	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.501	g	50	mL	03/03/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872006

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8340

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 76

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3950000	ug/Kg	N	8640	25400	25400	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-36-0	Antimony	1270	ug/Kg	U	419	1270	1270	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-38-2	Arsenic	1.07	mg/kg	J	0.26	1.3	1.3	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-39-3	Barium	41800	ug/Kg	*N	125	624	624	1	P	HSC	03/04/10 21:27	030410-2	960016
7440-41-7	Beryllium	1.12	mg/kg		0.026	0.13	0.13	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-43-9	Cadmium	255	ug/Kg	J	127	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-70-2	Calcium	1150000	ug/Kg	N	10200	31800	31800	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-47-3	Chromium	15700	ug/Kg		191	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-48-4	Cobalt	732	ug/Kg		191	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-50-8	Copper	3580	ug/Kg		375	1250	1250	1	P	HSC	03/04/10 21:27	030410-2	960016
7439-89-6	Iron	7080000	ug/Kg		10200	31800	31800	1	P	HSC	02/26/10 10:42	022610D-1	952953
7439-92-1	Lead	6200	ug/Kg		318	1270	1270	1	P	HSC	02/26/10 10:42	022610D-1	952953
7439-95-4	Magnesium	483000	ug/Kg		10800	38100	38100	1	P	HSC	02/26/10 10:42	022610D-1	952953
7439-96-5	Manganese	349000	ug/Kg	*	254	1270	1270	1	P	HSC	02/26/10 10:42	022610D-1	952953
7439-97-6	Mercury	8.68	ug/kg	J	4.84	14.2	14.2	1	AV	JXL1	03/01/10 10:24	030110S1-12	958331
7440-02-0	Nickel	2.88	mg/kg		0.13	0.519	0.519	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-09-7	Potassium	430000	ug/Kg	N	8130	31800	31800	1	P	HSC	02/26/10 10:42	022610D-1	952953
7782-49-2	Selenium	1.3	mg/kg	U	0.649	1.3	1.3	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-22-4	Silver	635	ug/Kg	U	127	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-23-5	Sodium	62700	ug/Kg		8890	31800	31800	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-28-0	Thallium	0.260	mg/kg	U	0.0779	0.26	0.26	2	MS	BAJ	03/08/10 17:37	100308-3	952955
7440-61-1	Uranium	0.770	mg/kg		0.0171	0.0519	0.0519	2	MS	BAJ	03/09/10 10:39	100308-11	952955
7440-62-2	Vanadium	4640	ug/Kg		127	635	635	1	P	HSC	02/26/10 10:42	022610D-1	952953
7440-66-6	Zinc	42300	ug/Kg	*	412	1250	1250	1	P	HSC	03/04/10 21:27	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.519	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.508	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.556	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.528	g	50	mL	03/03/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872007

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8341

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 92.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3460000	ug/Kg	N	7050	20700	20700	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-36-0	Antimony	1040	ug/Kg	U	342	1040	1040	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-38-2	Arsenic	0.889	mg/kg	J	0.215	1.07	1.07	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-39-3	Barium	21000	ug/Kg	*N	105	523	523	1	P	HSC	03/04/10 21:34	030410-2	960016
7440-41-7	Beryllium	0.981	mg/kg		0.0215	0.107	0.107	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-43-9	Cadmium	218	ug/Kg	J	104	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-70-2	Calcium	434000	ug/Kg	N	8290	25900	25900	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-47-3	Chromium	14200	ug/Kg		155	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-48-4	Cobalt	614	ug/Kg		155	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-50-8	Copper	2590	ug/Kg		314	1050	1050	1	P	HSC	03/04/10 21:34	030410-2	960016
7439-89-6	Iron	7330000	ug/Kg		8290	25900	25900	1	P	HSC	02/26/10 10:46	022610D-1	952953
7439-92-1	Lead	5500	ug/Kg		259	1040	1040	1	P	HSC	02/26/10 10:46	022610D-1	952953
7439-95-4	Magnesium	310000	ug/Kg		8810	31100	31100	1	P	HSC	02/26/10 10:46	022610D-1	952953
7439-96-5	Manganese	349000	ug/Kg	*	207	1040	1040	1	P	HSC	02/26/10 10:46	022610D-1	952953
7439-97-6	Mercury	5.76	ug/kg	J	4.35	12.8	12.8	1	AV	JXL1	03/01/10 10:26	030110S1-12	958331
7440-02-0	Nickel	2.37	mg/kg		0.107	0.429	0.429	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-09-7	Potassium	285000	ug/Kg	N	6630	25900	25900	1	P	HSC	02/26/10 10:46	022610D-1	952953
7782-49-2	Selenium	1.07	mg/kg	U	0.537	1.07	1.07	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-22-4	Silver	159	ug/Kg	J	104	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-23-5	Sodium	70700	ug/Kg		7250	25900	25900	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-28-0	Thallium	0.215	mg/kg	U	0.0644	0.215	0.215	2	MS	BAJ	03/08/10 17:41	100308-3	952955
7440-61-1	Uranium	0.728	mg/kg		0.0142	0.0429	0.0429	2	MS	BAJ	03/09/10 10:41	100308-11	952955
7440-62-2	Vanadium	3830	ug/Kg		104	518	518	1	P	HSC	02/26/10 10:46	022610D-1	952953
7440-66-6	Zinc	43800	ug/Kg	*	345	1050	1050	1	P	HSC	03/04/10 21:34	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.522	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.504	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.507	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.517	g	50	mL	03/03/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1759-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246872008

BASIS: Dry Weight

DATE COLLECTED 09-FEB-10

CLIENT ID: RE15-10-8376

LEVEL: Low

DATE RECEIVED 11-FEB-10

MATRIX: SOIL

%SOLIDS: 76

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3120000	ug/Kg	N	8760	25800	25800	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-36-0	Antimony	1290	ug/Kg	U	425	1290	1290	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-38-2	Arsenic	1.31	mg/kg		0.253	1.27	1.27	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-39-3	Barium	24600	ug/Kg	*N	132	658	658	1	P	HSC	03/04/10 21:41	030410-2	960016
7440-41-7	Beryllium	1.54	mg/kg		0.0253	0.127	0.127	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-43-9	Cadmium	206	ug/Kg	J	129	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-70-2	Calcium	653000	ug/Kg	N	10300	32200	32200	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-47-3	Chromium	12700	ug/Kg		193	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-48-4	Cobalt	677	ug/Kg		193	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-50-8	Copper	3060	ug/Kg		395	1320	1320	1	P	HSC	03/04/10 21:41	030410-2	960016
7439-89-6	Iron	7420000	ug/Kg		10300	32200	32200	1	P	HSC	02/26/10 10:50	022610D-1	952953
7439-92-1	Lead	6310	ug/Kg		322	1290	1290	1	P	HSC	02/26/10 10:50	022610D-1	952953
7439-95-4	Magnesium	350000	ug/Kg		10900	38600	38600	1	P	HSC	02/26/10 10:50	022610D-1	952953
7439-96-5	Manganese	388000	ug/Kg	*	258	1290	1290	1	P	HSC	02/26/10 10:50	022610D-1	952953
7439-97-6	Mercury	8.25	ug/kg	J	5.24	15.4	15.4	1	AV	JXLI	03/01/10 10:28	030110S1-12	958331
7440-02-0	Nickel	2.53	mg/kg		0.127	0.506	0.506	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-09-7	Potassium	309000	ug/Kg	N	8240	32200	32200	1	P	HSC	02/26/10 10:50	022610D-1	952953
7782-49-2	Selenium	1.27	mg/kg	U	0.633	1.27	1.27	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-22-4	Silver	143	ug/Kg	J	129	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-23-5	Sodium	66200	ug/Kg		9010	32200	32200	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-28-0	Thallium	0.253	mg/kg	U	0.0759	0.253	0.253	2	MS	BAJ	03/08/10 17:44	100308-3	952955
7440-61-1	Uranium	0.680	mg/kg		0.0167	0.0506	0.0506	2	MS	BAJ	03/09/10 10:43	100308-11	952955
7440-62-2	Vanadium	4410	ug/Kg		129	644	644	1	P	HSC	02/26/10 10:50	022610D-1	952953
7440-66-6	Zinc	39900	ug/Kg	*	434	1320	1320	1	P	HSC	03/04/10 21:41	030410-2	960016

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
952953	952952	SW846 3050B	0.512	g	50	mL	02/23/10	FGA
952955	952954	SW846 3050B	0.521	g	50	mL	02/24/10	BXA1
958331	958328	SW846 7471A Prep	0.513	g	30	mL	02/28/10	TXB3
960016	960012	SW846 3050B	0.501	g	50	mL	03/03/10	AXG2

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Aluminum	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Antimony	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Cadmium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Calcium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Chromium	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Cobalt	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Iron	5030	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Lead	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Magnesium	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Manganese	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Potassium	2410	ug/L	2500	ug/L	96.5	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Silver	254	ug/L	250	ug/L	101.8	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Sodium	2420	ug/L	2500	ug/L	96.7	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Vanadium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	26-FEB-10 02:08	022610D-1
	Mercury	5.21	ug/L	5	ug/L	104.3	90.0 – 110.0	AV	01-MAR-10 09:34	030110S1-12
	Barium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	04-MAR-10 15:39	030410-2
	Copper	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	04-MAR-10 15:39	030410-2
	Zinc	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	04-MAR-10 15:39	030410-2
	Arsenic	48.9	ug/L	50	ug/L	97.9	90.0 – 110.0	MS	08-MAR-10 15:29	100308-3
	Beryllium	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	08-MAR-10 15:29	100308-3
	Nickel	52.2	ug/L	50	ug/L	104.4	90.0 – 110.0	MS	08-MAR-10 15:29	100308-3
	Selenium	49.8	ug/L	50	ug/L	99.6	90.0 – 110.0	MS	08-MAR-10 15:29	100308-3
	Thallium	52.9	ug/L	50	ug/L	105.7	90.0 – 110.0	MS	08-MAR-10 15:29	100308-3
	Uranium	51.4	ug/L	50	ug/L	102.7	90.0 – 110.0	MS	09-MAR-10 10:05	100308-11
CCV01										
	Aluminum	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Antimony	533	ug/L	500	ug/L	106.5	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Cadmium	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Calcium	5220	ug/L	5000	ug/L	104.4	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Chromium	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cobalt	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Iron	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Lead	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Magnesium	5270	ug/L	5000	ug/L	105.5	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Manganese	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Potassium	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Silver	512	ug/L	500	ug/L	102.3	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Sodium	9920	ug/L	10000	ug/L	99.2	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Vanadium	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	26-FEB-10 02:31	022610D-1
	Mercury	5.18	ug/L	5	ug/L	103.5	80.0 – 120.0	AV	01-MAR-10 09:39	030110S1-12
	Barium	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	04-MAR-10 16:39	030410-2
	Copper	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	04-MAR-10 16:39	030410-2
	Zinc	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	04-MAR-10 16:39	030410-2
	Arsenic	48.6	ug/L	50	ug/L	97.1	90.0 – 110.0	MS	08-MAR-10 15:47	100308-3
	Beryllium	49.3	ug/L	50	ug/L	98.6	90.0 – 110.0	MS	08-MAR-10 15:47	100308-3
	Nickel	51.4	ug/L	50	ug/L	102.8	90.0 – 110.0	MS	08-MAR-10 15:47	100308-3
	Selenium	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	08-MAR-10 15:47	100308-3
	Thallium	52.2	ug/L	50	ug/L	104.3	90.0 – 110.0	MS	08-MAR-10 15:47	100308-3
	Uranium	50.9	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	09-MAR-10 10:14	100308-11
CCV02	Aluminum	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1
	Antimony	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1
	Cadmium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1
	Calcium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1
	Chromium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1
	Cobalt	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1
	Lead	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1
	Magnesium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1
	Manganese	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	26-FEB-10 03:42	022610D-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Potassium	4850	ug/L	5000	ug/L	97	90.0 - 110.0	P	26-FEB-10 03:42	022610D-1
	Silver	501	ug/L	500	ug/L	100.2	90.0 - 110.0	P	26-FEB-10 03:42	022610D-1
	Sodium	9970	ug/L	10000	ug/L	99.7	90.0 - 110.0	P	26-FEB-10 03:42	022610D-1
	Vanadium	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	26-FEB-10 03:42	022610D-1
	Mercury	5.28	ug/L	5	ug/L	105.5	80.0 - 120.0	AV	01-MAR-10 09:59	030110S1-12
	Barium	492	ug/L	500	ug/L	98.3	90.0 - 110.0	P	04-MAR-10 17:00	030410-2
	Copper	482	ug/L	500	ug/L	96.5	90.0 - 110.0	P	04-MAR-10 17:00	030410-2
	Zinc	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	04-MAR-10 17:00	030410-2
	Arsenic	48.9	ug/L	50	ug/L	97.8	90.0 - 110.0	MS	08-MAR-10 16:20	100308-3
	Beryllium	52.6	ug/L	50	ug/L	105.2	90.0 - 110.0	MS	08-MAR-10 16:20	100308-3
	Nickel	51.5	ug/L	50	ug/L	103	90.0 - 110.0	MS	08-MAR-10 16:20	100308-3
	Selenium	50	ug/L	50	ug/L	99.9	90.0 - 110.0	MS	08-MAR-10 16:20	100308-3
	Thallium	52.1	ug/L	50	ug/L	104.2	90.0 - 110.0	MS	08-MAR-10 16:20	100308-3
	Uranium	52.1	ug/L	50	ug/L	104.2	90.0 - 110.0	MS	09-MAR-10 10:29	100308-11
CCV03	Aluminum	4890	ug/L	5000	ug/L	97.9	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Antimony	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Cadmium	499	ug/L	500	ug/L	99.7	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Calcium	5010	ug/L	5000	ug/L	100.2	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Chromium	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Cobalt	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Iron	4850	ug/L	5000	ug/L	97	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Lead	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Magnesium	4960	ug/L	5000	ug/L	99.3	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Manganese	495	ug/L	500	ug/L	99	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Potassium	4840	ug/L	5000	ug/L	96.9	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Silver	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Sodium	9310	ug/L	10000	ug/L	93.1	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Vanadium	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	26-FEB-10 03:52	022610D-1
	Mercury	5.22	ug/L	5	ug/L	104.4	80.0 - 120.0	AV	01-MAR-10 10:19	030110S1-12

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Barium	496	ug/L	500	ug/L	99.3	90.0 - 110.0	P	04-MAR-10 18:00	030410-2
	Copper	489	ug/L	500	ug/L	97.8	90.0 - 110.0	P	04-MAR-10 18:00	030410-2
	Zinc	490	ug/L	500	ug/L	97.9	90.0 - 110.0	P	04-MAR-10 18:00	030410-2
	Arsenic	48.3	ug/L	50	ug/L	96.6	90.0 - 110.0	MS	08-MAR-10 16:42	100308-3
	Beryllium	53.1	ug/L	50	ug/L	106.3	90.0 - 110.0	MS	08-MAR-10 16:42	100308-3
	Nickel	51.5	ug/L	50	ug/L	103	90.0 - 110.0	MS	08-MAR-10 16:42	100308-3
	Selenium	49	ug/L	50	ug/L	98	90.0 - 110.0	MS	08-MAR-10 16:42	100308-3
	Thallium	51.7	ug/L	50	ug/L	103.4	90.0 - 110.0	MS	08-MAR-10 16:42	100308-3
	Uranium	51.2	ug/L	50	ug/L	102.4	90.0 - 110.0	MS	09-MAR-10 10:44	100308-11
CCV04	Aluminum	4970	ug/L	5000	ug/L	99.3	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Antimony	501	ug/L	500	ug/L	100.2	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Cadmium	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Calcium	5020	ug/L	5000	ug/L	100.3	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Chromium	494	ug/L	500	ug/L	98.9	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Cobalt	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Iron	4830	ug/L	5000	ug/L	96.6	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Lead	505	ug/L	500	ug/L	101.1	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Magnesium	4980	ug/L	5000	ug/L	99.6	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Manganese	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Potassium	4900	ug/L	5000	ug/L	98.1	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Silver	495	ug/L	500	ug/L	99.1	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Sodium	9310	ug/L	10000	ug/L	93.1	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Vanadium	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	26-FEB-10 04:31	022610D-1
	Mercury	4.92	ug/L	5	ug/L	98.3	80.0 - 120.0	AV	01-MAR-10 10:39	030110S1-12
	Barium	488	ug/L	500	ug/L	97.6	90.0 - 110.0	P	04-MAR-10 18:29	030410-2
	Copper	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	04-MAR-10 18:29	030410-2
	Zinc	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	04-MAR-10 18:29	030410-2
	Arsenic	48.2	ug/L	50	ug/L	96.4	90.0 - 110.0	MS	08-MAR-10 17:15	100308-3
	Beryllium	53.5	ug/L	50	ug/L	107	90.0 - 110.0	MS	08-MAR-10 17:15	100308-3

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,JCPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Nickel	51.5	ug/L	50	ug/L	102.9	90.0 - 110.0	MS	08-MAR-10 17:15	100308-3
	Selenium	49.4	ug/L	50	ug/L	98.9	90.0 - 110.0	MS	08-MAR-10 17:15	100308-3
	Thallium	51.1	ug/L	50	ug/L	102.1	90.0 - 110.0	MS	08-MAR-10 17:15	100308-3
CCV05										
	Aluminum	5160	ug/L	5000	ug/L	103.1	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Antimony	501	ug/L	500	ug/L	100.3	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Cadmium	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Calcium	5230	ug/L	5000	ug/L	104.5	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Chromium	505	ug/L	500	ug/L	101	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Cobalt	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Iron	5010	ug/L	5000	ug/L	100.3	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Lead	515	ug/L	500	ug/L	103	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Magnesium	5190	ug/L	5000	ug/L	103.7	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Manganese	509	ug/L	500	ug/L	101.7	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Potassium	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Silver	502	ug/L	500	ug/L	100.3	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Sodium	9460	ug/L	10000	ug/L	94.6	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Vanadium	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	26-FEB-10 05:10	022610D-1
	Barium	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	04-MAR-10 19:43	030410-2
	Copper	492	ug/L	500	ug/L	98.5	90.0 - 110.0	P	04-MAR-10 19:43	030410-2
	Zinc	491	ug/L	500	ug/L	98.3	90.0 - 110.0	P	04-MAR-10 19:43	030410-2
	Arsenic	48.2	ug/L	50	ug/L	96.3	90.0 - 110.0	MS	08-MAR-10 17:48	100308-3
	Beryllium	54.5	ug/L	50	ug/L	109	90.0 - 110.0	MS	08-MAR-10 17:48	100308-3
	Nickel	50.6	ug/L	50	ug/L	101.1	90.0 - 110.0	MS	08-MAR-10 17:48	100308-3
	Selenium	48.8	ug/L	50	ug/L	97.6	90.0 - 110.0	MS	08-MAR-10 17:48	100308-3
	Thallium	51.1	ug/L	50	ug/L	102.1	90.0 - 110.0	MS	08-MAR-10 17:48	100308-3
CCV06										
	Aluminum	5270	ug/L	5000	ug/L	105.4	90.0 - 110.0	P	26-FEB-10 05:47	022610D-1
	Antimony	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	26-FEB-10 05:47	022610D-1
	Cadmium	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	26-FEB-10 05:47	022610D-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Calcium	5380	ug/L	5000	ug/L	107.6	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Chromium	515	ug/L	500	ug/L	103	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Cobalt	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Iron	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Lead	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Magnesium	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Manganese	527	ug/L	500	ug/L	105.4	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Potassium	5200	ug/L	5000	ug/L	104	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Silver	512	ug/L	500	ug/L	102.3	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Sodium	9570	ug/L	10000	ug/L	95.7	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Vanadium	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	26-FEB-10 05:47	022610D-1
	Barium	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	04-MAR-10 20:45	030410-2
	Copper	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	04-MAR-10 20:45	030410-2
	Zinc	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	04-MAR-10 20:45	030410-2
CCV07										
	Aluminum	5280	ug/L	5000	ug/L	105.6	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Antimony	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Cadmium	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Calcium	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Chromium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Cobalt	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Iron	5020	ug/L	5000	ug/L	100.4	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Lead	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Manganese	524	ug/L	500	ug/L	104.7	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Potassium	5200	ug/L	5000	ug/L	103.9	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Silver	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Sodium	9470	ug/L	10000	ug/L	94.7	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Vanadium	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	26-FEB-10 06:27	022610D-1
	Barium	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	04-MAR-10 21:48	030410-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Copper	505	ug/L	500	ug/L	100.9	90.0 - 110.0	P	04-MAR-10 21:48	030410-2
	Zinc	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	04-MAR-10 21:48	030410-2
CCV08										
	Aluminum	5300	ug/L	5000	ug/L	106.1	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Antimony	525	ug/L	500	ug/L	104.9	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Cadmium	526	ug/L	500	ug/L	105.3	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Calcium	5380	ug/L	5000	ug/L	107.6	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Chromium	521	ug/L	500	ug/L	104.1	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Cobalt	526	ug/L	500	ug/L	105.2	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Iron	5070	ug/L	5000	ug/L	101.3	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Lead	529	ug/L	500	ug/L	105.9	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Magnesium	5280	ug/L	5000	ug/L	105.7	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Manganese	534	ug/L	500	ug/L	106.9	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Potassium	5260	ug/L	5000	ug/L	105.3	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Silver	518	ug/L	500	ug/L	103.6	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Sodium	9550	ug/L	10000	ug/L	95.5	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
	Vanadium	522	ug/L	500	ug/L	104.4	90.0 - 110.0	P	26-FEB-10 07:08	022610D-1
CCV09										
	Aluminum	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Antimony	524	ug/L	500	ug/L	104.8	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Cadmium	523	ug/L	500	ug/L	104.6	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Calcium	5280	ug/L	5000	ug/L	105.6	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Chromium	517	ug/L	500	ug/L	103.5	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Cobalt	523	ug/L	500	ug/L	104.6	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Iron	4970	ug/L	5000	ug/L	99.5	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Lead	523	ug/L	500	ug/L	104.5	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Magnesium	5190	ug/L	5000	ug/L	103.7	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Manganese	530	ug/L	500	ug/L	105.9	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Potassium	5160	ug/L	5000	ug/L	103.1	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1
	Silver	516	ug/L	500	ug/L	103.1	90.0 - 110.0	P	26-FEB-10 07:48	022610D-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV10	Sodium	9440	ug/L	10000	ug/L	94.4	90.0 – 110.0	P	26-FEB-10 07:48	022610D-1
	Vanadium	519	ug/L	500	ug/L	103.9	90.0 – 110.0	P	26-FEB-10 07:48	022610D-1
	Aluminum	5180	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Antimony	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Cadmium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Calcium	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Chromium	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Cobalt	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Iron	4970	ug/L	5000	ug/L	99.3	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Lead	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Magnesium	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Manganese	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Potassium	5180	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Silver	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Sodium	9410	ug/L	10000	ug/L	94.1	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
	Vanadium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	26-FEB-10 08:32	022610D-1
CCV11	Aluminum	5240	ug/L	5000	ug/L	104.9	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Antimony	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Cadmium	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Calcium	5210	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Chromium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Cobalt	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Iron	4760	ug/L	5000	ug/L	95.2	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Lead	517	ug/L	500	ug/L	103.3	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Magnesium	5010	ug/L	5000	ug/L	100.1	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Manganese	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Potassium	5230	ug/L	5000	ug/L	104.5	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Silver	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV12	Sodium	8890	ug/L	10000	ug/L	88.9	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Vanadium	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	26-FEB-10 09:12	022610D-1
	Aluminum	5090	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Antimony	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Cadmium	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Calcium	5100	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Chromium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Cobalt	500	ug/L	500	ug/L	100	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Iron	4770	ug/L	5000	ug/L	95.4	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Lead	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Magnesium	4940	ug/L	5000	ug/L	98.8	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Manganese	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Potassium	5050	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Silver	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Sodium	9130	ug/L	10000	ug/L	91.3	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
	Vanadium	499	ug/L	500	ug/L	99.7	90.0 – 110.0	P	26-FEB-10 09:48	022610D-1
CCV13	Aluminum	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Antimony	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Cadmium	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Calcium	5080	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Chromium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Cobalt	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Iron	4780	ug/L	5000	ug/L	95.5	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Lead	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Magnesium	4960	ug/L	5000	ug/L	99.1	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Manganese	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Potassium	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1
	Silver	500	ug/L	500	ug/L	100	90.0 – 110.0	P	26-FEB-10 10:20	022610D-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV14	Sodium	9120	ug/L	10000	ug/L	91.2	90.0 - 110.0	P	26-FEB-10 10:20	022610D-1
	Vanadium	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	26-FEB-10 10:20	022610D-1
	Aluminum	5170	ug/L	5000	ug/L	103.4	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Antimony	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Cadmium	503	ug/L	500	ug/L	100.6	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Calcium	5150	ug/L	5000	ug/L	103	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Chromium	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Cobalt	509	ug/L	500	ug/L	101.7	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Iron	4920	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Lead	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Magnesium	5030	ug/L	5000	ug/L	100.6	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Manganese	516	ug/L	500	ug/L	103.1	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Potassium	5050	ug/L	5000	ug/L	101	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Silver	508	ug/L	500	ug/L	101.5	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Sodium	9460	ug/L	10000	ug/L	94.6	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1
	Vanadium	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	26-FEB-10 10:54	022610D-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS5,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.165	ug/L	.2	ug/L	82.5	70.0 - 130.0	AV	01-MAR-10 09:37	030110S1-12
	Nickel	2.31	ug/L	2	ug/L	115.4	70.0 - 130.0	MS	08-MAR-10 15:37	100308-3
	Thallium	1.21	ug/L	1	ug/L	121	70.0 - 130.0	MS	08-MAR-10 15:37	100308-3
	Arsenic	5.8	ug/L	5	ug/L	116.1	70.0 - 130.0	MS	08-MAR-10 15:37	100308-3
	Selenium	5.37	ug/L	5	ug/L	107.3	70.0 - 130.0	MS	08-MAR-10 15:37	100308-3
	Beryllium	.566	ug/L	.5	ug/L	113.2	70.0 - 130.0	MS	08-MAR-10 15:37	100308-3
	Uranium	.213	ug/L	.2	ug/L	106.5	70.0 - 130.0	MS	09-MAR-10 10:09	100308-11
PQL01										
	Potassium	168	ug/L	150	ug/L	112.3	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Silver	5.01	ug/L	5	ug/L	100.1	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Sodium	302	ug/L	300	ug/L	100.5	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Antimony	10.9	ug/L	10	ug/L	108.7	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Cadmium	4.88	ug/L	5	ug/L	97.6	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Chromium	5.52	ug/L	5	ug/L	110.4	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Cobalt	4.52	ug/L	5	ug/L	90.4	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Vanadium	5.04	ug/L	5	ug/L	100.9	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Calcium	178	ug/L	200	ug/L	89.2	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Aluminum	177	ug/L	200	ug/L	88.6	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Iron	98.7	ug/L	100	ug/L	98.7	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Lead	10.1	ug/L	10	ug/L	100.7	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Magnesium	298	ug/L	300	ug/L	99.4	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Manganese	10.6	ug/L	10	ug/L	106	70.0 - 130.0	P	26-FEB-10 02:15	022610D-1
	Barium	5.16	ug/L	5	ug/L	103.1	70.0 - 130.0	P	04-MAR-10 15:53	030410-2
	Copper	9.7	ug/L	10	ug/L	97	70.0 - 130.0	P	04-MAR-10 15:53	030410-2
	Zinc	9.17	ug/L	10	ug/L	91.7	70.0 - 130.0	P	04-MAR-10 15:53	030410-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 02:12	022610D-1
	Antimony	3.41	+/-10	J	3.3	10.0	SOL	P	26-FEB-10 02:12	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 02:12	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 02:12	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 02:12	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 02:12	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 02:12	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 02:12	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 02:12	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 02:12	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 02:12	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 02:12	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 02:12	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 02:12	022610D-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	01-MAR-10 09:36	030110S1-12
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-MAR-10 15:46	030410-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-MAR-10 15:46	030410-2
	Zinc	3.76	+/-10	J	3.3	10.0	SOL	P	04-MAR-10 15:46	030410-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	08-MAR-10 15:33	100308-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	08-MAR-10 15:33	100308-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	08-MAR-10 15:33	100308-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	08-MAR-10 15:33	100308-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	08-MAR-10 15:33	100308-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	09-MAR-10 10:07	100308-11
CCB01	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 02:35	022610D-1
	Antimony	5.74	+/-10	J	3.3	10.0	SOL	P	26-FEB-10 02:35	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 02:35	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 02:35	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 02:35	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 02:35	022610D-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 02:35	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 02:35	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 02:35	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 02:35	022610D-1
	Potassium	123.3	+/-250	J	64.0	250	SOL	P	26-FEB-10 02:35	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 02:35	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 02:35	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 02:35	022610D-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	01-MAR-10 09:41	030110S1-12
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-MAR-10 16:46	030410-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-MAR-10 16:46	030410-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	04-MAR-10 16:46	030410-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	08-MAR-10 15:51	100308-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	08-MAR-10 15:51	100308-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	08-MAR-10 15:51	100308-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	08-MAR-10 15:51	100308-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	08-MAR-10 15:51	100308-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	09-MAR-10 10:15	100308-11
CCB02	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 03:45	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 03:45	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 03:45	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 03:45	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 03:45	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 03:45	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 03:45	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 03:45	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 03:45	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 03:45	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 03:45	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 03:45	022610D-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 03:45	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 03:45	022610D-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	01-MAR-10 10:01	030110S1-12
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-MAR-10 17:07	030410-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-MAR-10 17:07	030410-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	04-MAR-10 17:07	030410-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	08-MAR-10 16:24	100308-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	08-MAR-10 16:24	100308-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	08-MAR-10 16:24	100308-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	08-MAR-10 16:24	100308-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	08-MAR-10 16:24	100308-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	09-MAR-10 10:31	100308-11
CCB03	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 03:56	022610D-1
	Antimony	3.47	+/-10	J	3.3	10.0	SOL	P	26-FEB-10 03:56	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 03:56	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 03:56	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 03:56	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 03:56	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 03:56	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 03:56	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 03:56	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 03:56	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 03:56	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 03:56	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 03:56	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 03:56	022610D-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	01-MAR-10 10:21	030110S1-12
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-MAR-10 18:07	030410-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-MAR-10 18:07	030410-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	04-MAR-10 18:07	030410-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB04	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	08-MAR-10 16:46	100308-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	08-MAR-10 16:46	100308-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	08-MAR-10 16:46	100308-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	08-MAR-10 16:46	100308-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	08-MAR-10 16:46	100308-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	09-MAR-10 10:46	100308-11
CCB04	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 04:34	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 04:34	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 04:34	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 04:34	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 04:34	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 04:34	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 04:34	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 04:34	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 04:34	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 04:34	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 04:34	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 04:34	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 04:34	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 04:34	022610D-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	01-MAR-10 10:41	030110S1-12
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-MAR-10 18:36	030410-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-MAR-10 18:36	030410-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	04-MAR-10 18:36	030410-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	08-MAR-10 17:19	100308-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	08-MAR-10 17:19	100308-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	08-MAR-10 17:19	100308-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	08-MAR-10 17:19	100308-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	08-MAR-10 17:19	100308-3

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
CCB05	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 05:14	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 05:14	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 05:14	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 05:14	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 05:14	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 05:14	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 05:14	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 05:14	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 05:14	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 05:14	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 05:14	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 05:14	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 05:14	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 05:14	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-MAR-10 19:50	030410-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-MAR-10 19:50	030410-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	04-MAR-10 19:50	030410-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	08-MAR-10 17:51	100308-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	08-MAR-10 17:51	100308-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	08-MAR-10 17:51	100308-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	08-MAR-10 17:51	100308-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	08-MAR-10 17:51	100308-3
CCB06	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 05:51	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 05:51	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 05:51	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 05:51	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 05:51	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 05:51	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 05:51	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 05:51	022610D-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB07	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 05:51	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 05:51	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 05:51	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 05:51	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 05:51	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 05:51	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-MAR-10 20:52	030410-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-MAR-10 20:52	030410-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	04-MAR-10 20:52	030410-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 06:30	022610D-1
	Antimony	3.61	+/-10	J	3.3	10.0	SOL	P	26-FEB-10 06:30	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 06:30	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 06:30	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 06:30	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 06:30	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 06:30	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 06:30	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 06:30	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 06:30	022610D-1
CCB08	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 06:30	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 06:30	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 06:30	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 06:30	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	04-MAR-10 21:55	030410-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	04-MAR-10 21:55	030410-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	04-MAR-10 21:55	030410-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 07:12	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 07:12	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 07:12	022610D-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 07:12	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 07:12	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 07:12	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 07:12	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 07:12	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 07:12	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 07:12	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 07:12	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 07:12	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 07:12	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 07:12	022610D-1
CCB09	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 07:52	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 07:52	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 07:52	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 07:52	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 07:52	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 07:52	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 07:52	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 07:52	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 07:52	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 07:52	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 07:52	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 07:52	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 07:52	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 07:52	022610D-1
CCB10	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 08:36	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 08:36	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 08:36	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 08:36	022610D-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 08:36	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 08:36	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 08:36	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 08:36	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 08:36	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 08:36	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 08:36	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 08:36	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 08:36	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 08:36	022610D-1
CCB11	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 09:15	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 09:15	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 09:15	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 09:15	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 09:15	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 09:15	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 09:15	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 09:15	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 09:15	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 09:15	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 09:15	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 09:15	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 09:15	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 09:15	022610D-1
CCB12	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 09:52	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 09:52	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 09:52	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 09:52	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 09:52	022610D-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
CCB13	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 09:52	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 09:52	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 09:52	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 09:52	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 09:52	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 09:52	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 09:52	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 09:52	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 09:52	022610D-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 10:24	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 10:24	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 10:24	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 10:24	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 10:24	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 10:24	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 10:24	022610D-1
CCB14	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 10:24	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 10:24	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 10:24	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 10:24	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 10:24	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 10:24	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 10:24	022610D-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 10:57	022610D-1
	Antimony	4.5	+/-10	J	3.3	10.0	SOL	P	26-FEB-10 10:57	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 10:57	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 10:57	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 10:57	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 10:57	022610D-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 10:57	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 10:57	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 10:57	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 10:57	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 10:57	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 10:57	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 10:57	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 10:57	022610D-1

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-1759-1

Contract: LANL01004

Matrix: SOIL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M</u>	<u>MDL</u>	<u>RDL</u>
1202042576	Aluminum	6670	ug/Kg	+/-19600	U	P	6670	19600
	Antimony	324	ug/Kg	+/-980	U	P	324	980
	Cadmium	98	ug/Kg	+/-490	U	P	98	490
	Cobalt	147	ug/Kg	+/-490	U	P	147	490
	Iron	12100	ug/Kg	+/-24500	J	P	7840	24500
	Chromium	147	ug/Kg	+/-490	U	P	147	490
	Calcium	7840	ug/Kg	+/-24500	U	P	7840	24500
	Lead	973	ug/Kg	+/-980	J	P	245	980
	Manganese	196	ug/Kg	+/-980	U	P	196	980
	Vanadium	98	ug/Kg	+/-490	U	P	98	490
	Sodium	6860	ug/Kg	+/-24500	U	P	6860	24500
	Silver	98	ug/Kg	+/-490	U	P	98	490
	Potassium	6270	ug/Kg	+/-24500	U	P	6270	24500
	Magnesium	8330	ug/Kg	+/-29400	U	P	8330	29400
1202042582	Thallium	0.0573	mg/kg	+/-0.191	U	MS	0.0573	0.191
	Beryllium	0.0191	mg/kg	+/-0.0954	U	MS	0.0191	0.0954
	Selenium	0.477	mg/kg	+/-0.954	U	MS	0.477	0.954
	Nickel	0.0954	mg/kg	+/-0.382	U	MS	0.0954	0.382
	Arsenic	0.191	mg/kg	+/-0.954	U	MS	0.191	0.954
	Uranium	0.0126	mg/kg	+/-0.0382	U	MS	0.0126	0.0382
1202055194	Mercury	4.06	ug/kg	+/-11.9	U	AV	4.06	11.9
1202059110	Barium	85.8	ug/Kg	+/-429	U	P	85.8	429
	Copper	257	ug/Kg	+/-858	U	P	257	858
	Zinc	283	ug/Kg	+/-858	U	P	283	858

METALS

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Interference Check Sample

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	525000	ug/L	500000	ug/L	105	80.0 – 120.0	26-FEB-10 02:19	022610D-1
	Antimony	0.022	ug/L					26-FEB-10 02:19	022610D-1
	Cadmium	5.94	ug/L					26-FEB-10 02:19	022610D-1
	Calcium	493000	ug/L	500000	ug/L	98.6	80.0 – 120.0	26-FEB-10 02:19	022610D-1
	Chromium	-2.47	ug/L					26-FEB-10 02:19	022610D-1
	Cobalt	2.82	ug/L					26-FEB-10 02:19	022610D-1
	Iron	190000	ug/L	200000	ug/L	95.2	80.0 – 120.0	26-FEB-10 02:19	022610D-1
	Lead	-16.3	ug/L					26-FEB-10 02:19	022610D-1
	Magnesium	506000	ug/L	500000	ug/L	101	80.0 – 120.0	26-FEB-10 02:19	022610D-1
	Manganese	-0.366	ug/L					26-FEB-10 02:19	022610D-1
	Potassium	-59.4	ug/L					26-FEB-10 02:19	022610D-1
	Silver	0.217	ug/L					26-FEB-10 02:19	022610D-1
	Sodium	0.305	ug/L					26-FEB-10 02:19	022610D-1
	Vanadium	0.047	ug/L					26-FEB-10 02:19	022610D-1
ICSAB01									
	Aluminum	533000	ug/L	500000	ug/L	107	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Antimony	532	ug/L	500	ug/L	106	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Cadmium	478	ug/L	500	ug/L	95.6	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Calcium	502000	ug/L	500000	ug/L	100	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Chromium	489	ug/L	500	ug/L	97.8	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Cobalt	452	ug/L	500	ug/L	90.5	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Iron	189000	ug/L	200000	ug/L	94.4	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Lead	478	ug/L	500	ug/L	95.6	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Magnesium	505000	ug/L	500000	ug/L	101	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Manganese	487	ug/L	500	ug/L	97.5	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Potassium	5290	ug/L	5000	ug/L	106	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Silver	266	ug/L	250	ug/L	106	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Sodium	5150	ug/L	5000	ug/L	103	80.0 – 120.0	26-FEB-10 02:22	022610D-1
	Vanadium	522	ug/L	500	ug/L	104	80.0 – 120.0	26-FEB-10 02:22	022610D-1

METALS
-4-
Interference Check Sample

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	-0.02	ug/L					09-MAR-10 10:10	100308-11
ICSAB01	Uranium	22.0	ug/L	20	ug/L	110	80.0 - 120.0	09-MAR-10 10:12	100308-11

METALS
-4-
Interference Check Sample

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Barium	-1.02	ug/L					04-MAR-10 16:00	030410-2
	Copper	5.25	ug/L					04-MAR-10 16:00	030410-2
	Zinc	-0.282	ug/L					04-MAR-10 16:00	030410-2
ICSAB01	Barium	511	ug/L	500	ug/L	102	80.0 - 120.0	04-MAR-10 16:07	030410-2
	Copper	596	ug/L	500	ug/L	119	80.0 - 120.0	04-MAR-10 16:07	030410-2
	Zinc	500	ug/L	500	ug/L	100	80.0 - 120.0	04-MAR-10 16:07	030410-2

METALS

-4-

Interference Check Sample

SDG No: 10-1759-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Arsenic	0.384	ug/L					08-MAR-10 15:40	100308-3
	Beryllium	0.096	ug/L					08-MAR-10 15:40	100308-3
	Nickel	3.1	ug/L					08-MAR-10 15:40	100308-3
	Selenium	-1.33	ug/L					08-MAR-10 15:40	100308-3
	Thallium	0.007	ug/L					08-MAR-10 15:40	100308-3
ICSAB01									
	Arsenic	20.3	ug/L	20	ug/L	101	80.0 - 120.0	08-MAR-10 15:44	100308-3
	Beryllium	18.7	ug/L	20	ug/L	93.4	80.0 - 120.0	08-MAR-10 15:44	100308-3
	Nickel	21.7	ug/L	23.31	ug/L	92.9	80.0 - 120.0	08-MAR-10 15:44	100308-3
	Selenium	18.7	ug/L	20	ug/L	93.4	80.0 - 120.0	08-MAR-10 15:44	100308-3
	Thallium	20.7	ug/L	20	ug/L	103	80.0 - 120.0	08-MAR-10 15:44	100308-3

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1759-1 Client ID RE15-10-8366S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 82

Sample ID: 246872001 Spike ID: 1202042579

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg	75-125	4670000		1970000		610000	442	N	P
Antimony	ug/Kg	75-125	58100		383	U	61000	95.3		P
Barium	ug/Kg	75-125	103000		31600		55600	128	N	P
Cadmium	ug/Kg	75-125	60100		237	J	61000	98.2		P
Calcium	ug/Kg	75-125	1370000		549000		610000	134	N	P
Chromium	ug/Kg	75-125	62200		1730		61000	99.1		P
Cobalt	ug/Kg	75-125	60800		1410		61000	97.4		P
Copper	ug/Kg	75-125	59100		3570		55600	99.7		P
Iron	ug/Kg		7720000		6850000		610000	143	N/A	P
Lead	ug/Kg	75-125	67700		7190		61000	99.2		P
Magnesium	ug/Kg	75-125	1130000		378000		610000	124		P
Manganese	ug/Kg		279000		265000		61000	22.5	N/A	P
Potassium	ug/Kg	75-125	1100000		342000		610000	125		P
Silver	ug/Kg	75-125	60000		211	J	61000	98		P
Sodium	ug/Kg	75-125	558000		37500		610000	85.4		P
Vanadium	ug/Kg	75-125	66800		5810		61000	100		P
Zinc	ug/Kg	75-125	82400		39100		55600	77.7		P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1759-1 Client ID RE15-10-8366SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 82

Sample ID: 246872001 Spike ID: 1202042580

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg	75-125	4680000		1970000		609000	445	N	P
Antimony	ug/Kg	75-125	61300		383	U	60900	101		P
Barium	ug/Kg	75-125	83800		31600		56900	91.8		P
Cadmium	ug/Kg	75-125	63500		237	J	60900	104		P
Calcium	ug/Kg	75-125	1230000		549000		609000	112		P
Chromium	ug/Kg	75-125	66100		1730		60900	106		P
Cobalt	ug/Kg	75-125	65800		1410		60900	106		P
Copper	ug/Kg	75-125	61400		3570		56900	102		P
Iron	ug/Kg		7430000		6850000		609000	95.9	N/A	P
Lead	ug/Kg	75-125	73900		7190		60900	110		P
Magnesium	ug/Kg	75-125	1130000		378000		609000	124		P
Manganese	ug/Kg		327000		265000		60900	102	N/A	P
Potassium	ug/Kg	75-125	1160000		342000		609000	134	N	P
Silver	ug/Kg	75-125	62600		211	J	60900	103		P
Sodium	ug/Kg	75-125	568000		37500		609000	87.2		P
Vanadium	ug/Kg	75-125	70800		5810		60900	107		P
Zinc	ug/Kg	75-125	89900		39100		56900	89.2		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1759-1 Client ID RE15-10-8366S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 82

Sample ID: 246872001 Spike ID: 1202042585

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	9.35		1.01	J	9.29	89.8		MS
Beryllium	mg/kg	75-125	6.03		0.431		5.81	96.4		MS
Nickel	mg/kg	75-125	7.67		2.61		5.81	87.1		MS
Selenium	mg/kg	75-125	1.99		0.587	U	2.32	84		MS
Thallium	mg/kg	75-125	10.9		0.0705	U	11.6	93.1		MS
Uranium	mg/kg	75-125	8.51		4.11		5.81	75.7		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1759-1 Client ID RE15-10-8366SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 82

Sample ID: 246872001 Spike ID: 1202042586

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Arsenic	mg/kg	75-125	9.77		1.01	J	9.62	91.1		MS
Beryllium	mg/kg	75-125	6.31		0.431		6.01	97.8		MS
Nickel	mg/kg	75-125	7.99		2.61		6.01	89.4		MS
Selenium	mg/kg	75-125	2.08		0.587	U	2.41	84.5		MS
Thallium	mg/kg	75-125	11.6		0.0705	U	12	95.6		MS
Uranium	mg/kg	75-125	9.17		4.11		6.01	84		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1759-1 Client ID RE46-10-12720S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 85

Sample ID: 246870001 Spike ID: 1202055197

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	158		18.2		131	106		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1759-1 Client ID RE46-10-12720SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 85

Sample ID: 246870001 Spike ID: 1202055199

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/kg	75-125	154		18.2		126	108		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8366D

Sample ID: 246872001

Duplicate ID: 1202042577

Percent Solids for Dup: 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	1970000		2100000		6.14		P
Antimony	ug/Kg		383 U		385 U				P
Barium	ug/Kg	+/-20%	31600		31800		.726		P
Cadmium	ug/Kg	+/-583	237 J		207 J		13.3		P
Calcium	ug/Kg	+/-20%	549000		571000		4.03		P
Chromium	ug/Kg	+/-583	1730		2250		26.2		P
Cobalt	ug/Kg	+/-583	1410		1300		7.84		P
Copper	ug/Kg	+/-1170	3570		3780		5.67		P
Iron	ug/Kg	+/-20%	6850000		6600000		3.63		P
Lead	ug/Kg	+/-20%	7190		6690		7.26		P
Magnesium	ug/Kg	+/-20%	378000		373000		1.36		P
Manganese	ug/Kg	+/-20%	265000		216000		20.6	*	P
Potassium	ug/Kg	+/-20%	342000		350000		2.31		P
Silver	ug/Kg	+/-583	211 J		208 J		1.77		P
Sodium	ug/Kg	+/-29100	37500		31600		17		P
Vanadium	ug/Kg	+/-20%	5810		6860		16.7		P
Zinc	ug/Kg	+/-20%	39100		28900		30.1	*	P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8366SD

Sample ID: 1202042579

Duplicate ID: 1202042580

Percent Solids for Dup: 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	4670000		4680000		.285		P
Antimony	ug/Kg	+/-20	58100		61300		5.36		P
Barium	ug/Kg	+/-20	103000		83800		20.6	*	P
Cadmium	ug/Kg	+/-20	60100		63500		5.39		P
Calcium	ug/Kg	+/-20	1370000		1230000		10.6		P
Chromium	ug/Kg	+/-20	62200		66100		6.1		P
Cobalt	ug/Kg	+/-20	60800		65800		7.86		P
Copper	ug/Kg	+/-20	59100		61400		3.81		P
Iron	ug/Kg	+/-20	7720000		7430000		3.84		P
Lead	ug/Kg	+/-20	67700		73900		8.75		P
Magnesium	ug/Kg	+/-20	1130000		1130000		.315		P
Manganese	ug/Kg	+/-20	279000		327000		15.9		P
Potassium	ug/Kg	+/-20	1100000		1160000		4.74		P
Silver	ug/Kg	+/-20	60000		62600		4.32		P
Sodium	ug/Kg	+/-20	558000		568000		1.82		P
Vanadium	ug/Kg	+/-20	66800		70800		5.79		P
Zinc	ug/Kg	+/-20	82400		89900		8.71		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8366D

Sample ID: 246872001

Duplicate ID: 1202042583

Percent Solids for Dup: 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.18	1.01 J		0.979 J		2.91		MS
Beryllium	mg/kg	+/-1.18	0.431		0.447		3.69		MS
Nickel	mg/kg	+/-20%	2.61		2.76		5.52		MS
Selenium	mg/kg		0.587 U		0.591 U				MS
Thallium	mg/kg		0.0705 U		0.0709 U				MS
Uranium	mg/kg	+/-20%	4.11		3.69		10.9		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8366SD

Sample ID: 1202042585

Duplicate ID: 1202042586

Percent Solids for Dup: 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	9.35		9.77		4.42		MS
Beryllium	mg/kg	+/-20	6.03		6.31		4.57		MS
Nickel	mg/kg	+/-20	7.67		7.99		4.08		MS
Selenium	mg/kg	+/-20	1.99		2.08		4.02		MS
Thallium	mg/kg	+/-20	10.9		11.6		6.14		MS
Uranium	mg/kg	+/-20	8.51		9.17		7.44		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-12720D

Sample ID: 246870001

Duplicate ID: 1202055196

Percent Solids for Dup: 85

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-12.1	18.2		19.4		6.39		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1759-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-12720SD

Sample ID: 1202055197

Duplicate ID: 1202055199

Percent Solids for Dup: 85

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	158		154		2.36		AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1759-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202042581								
	Aluminum	ug/Kg	10500000	8680000		82.7	56-144	P
	Antimony	ug/Kg	173000	170000		98.3	71-130	P
	Cadmium	ug/Kg	60700	63400		104	81-120	P
	Calcium	ug/Kg	9870000	9950000		101	83-117	P
	Chromium	ug/Kg	236000	250000		106	80-120	P
	Cobalt	ug/Kg	91200	96400		106	81-120	P
	Iron	ug/Kg	18000000	16800000		93.3	51-149	P
	Lead	ug/Kg	86000	90300		105	79-121	P
	Magnesium	ug/Kg	4000000	3600000		90.1	79-122	P
	Manganese	ug/Kg	558000	569000		102	81-119	P
	Potassium	ug/Kg	4300000	4020000		93.5	74-127	P
	Silver	ug/Kg	30100	32500		108	66-134	P
	Sodium	ug/Kg	1020000	892000		87.4	74-127	P
	Vanadium	ug/Kg	115000	129000		112	79-121	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1759-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202042587								
	Arsenic	mg/kg	104	97.2		93.4	78-123	MS
	Beryllium	mg/kg	77.6	77.5		99.9	84-116	MS
	Nickel	mg/kg	134	127		94.9	78-123	MS
	Selenium	mg/kg	286	253		88.4	77-123	MS
	Thallium	mg/kg	121	125		103	78-122	MS
	Uranium	mg/kg	2.13	2.19		103	73-127	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1759-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202055195	Mercury	ug/kg	5150	5930		115	71.6-128.3	AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1759-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202059111								
	Barium	ug/Kg	198000	178000		89.8	80-120	P
	Copper	ug/Kg	174000	181000		104	81-118	P
	Zinc	ug/Kg	594000	542000		91.3	80-121	P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1759-1 Client ID RE15-10-8366L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 246872001 Serial Dilution ID: 1202042578

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	17000		16900		.882		10	P
Antimony	3.3	U	16.5	U				P
Barium	272		262		3.68		10	P
Cadmium	2.04	J	5	U	100			P
Calcium	4720		4500		4.77		10	P
Chromium	14.9		12.8	J	14.1			P
Cobalt	12.1		11.5	J	5.37			P
Copper	30.7		27.4	J	10.7			P
Iron	58900		58500		.679		10	P
Lead	61.9		50.5		18.4			P
Magnesium	3250		3190		2			P
Manganese	2290		2230		2.84		10	P
Potassium	2950		2970		.508			P
Silver	1.82	J	5	U	100			P
Sodium	323		350	U	100			P
Vanadium	50		49		2.1		10	P
Zinc	336		316		5.95		10	P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1759-1 Client ID RE15-10-8366L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 246872001 Serial Dilution ID: 1202042584

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	4.29	J	5	U	100			MS
Beryllium	1.83		1.97	J	7.65			MS
Nickel	11.1		11.2		.45			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.3	U	1.5	U				MS
Uranium	17.5		18.4		5.14		10	MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1759-1 Client ID RE46-10-12720L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 246870001 Serial Dilution ID: 1202055198

Analyte	Initial Value ng/L	C	Serial Value ng/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.307		.34	U	100			AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1759-1

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 952952							
1202042576	MB for batch 952952	MB	S	23-FEB-10	.51g	50mL	
1202042581	LCS for batch 952952	LCS	S	23-FEB-10	.508g	50mL	
1202042579	RE15-10-8366S	MS	S	23-FEB-10	.5g	50mL	
1202042580	RE15-10-8366SD	MSD	S	23-FEB-10	.501g	50mL	
1202042577	RE15-10-8366D	DUP	S	23-FEB-10	.523g	50mL	
246872001	RE15-10-8366	SAMPLE	S	23-FEB-10	.525g	50mL	
246872002	RE15-10-8367	SAMPLE	S	23-FEB-10	.5g	50mL	
246872003	RE15-10-8364	SAMPLE	S	23-FEB-10	.522g	50mL	
246872004	RE15-10-8365	SAMPLE	S	23-FEB-10	.507g	50mL	
246872005	RE15-10-8368	SAMPLE	S	23-FEB-10	.518g	50mL	
246872006	RE15-10-8340	SAMPLE	S	23-FEB-10	.519g	50mL	
246872007	RE15-10-8341	SAMPLE	S	23-FEB-10	.522g	50mL	
246872008	RE15-10-8376	SAMPLE	S	23-FEB-10	.512g	50mL	
Batch Number 960012							
1202059110	MB for batch 960012	MB	S	03-MAR-10	.583g	50mL	
1202059111	LCS for batch 960012	LCS	S	03-MAR-10	.51g	50mL	
1202042579	RE15-10-8366S	MS	S	03-MAR-10	.548g	50mL	
1202042580	RE15-10-8366SD	MSD	S	03-MAR-10	.536g	50mL	
1202042577	RE15-10-8366D	DUP	S	03-MAR-10	.52g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1759-1

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
246872001	RE15-10-8366	SAMPLE	S	03-MAR-10	.524g	50mL	
246872002	RE15-10-8367	SAMPLE	S	03-MAR-10	.529g	50mL	
246872003	RE15-10-8364	SAMPLE	S	03-MAR-10	.521g	50mL	
246872004	RE15-10-8365	SAMPLE	S	03-MAR-10	.526g	50mL	
246872005	RE15-10-8368	SAMPLE	S	03-MAR-10	.501g	50mL	
246872006	RE15-10-8340	SAMPLE	S	03-MAR-10	.528g	50mL	
246872007	RE15-10-8341	SAMPLE	S	03-MAR-10	.517g	50mL	
246872008	RE15-10-8376	SAMPLE	S	03-MAR-10	.501g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1759-1

Method Type: MS

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	952954						
1202042582	MB for batch 952954	MB	S	24-FEB-10	.524g	50mL	
1202042587	LCS for batch 952954	LCS	S	24-FEB-10	.525g	50mL	
1202042585	RE15-10-8366S	MS	S	24-FEB-10	.525g	50mL	
1202042586	RE15-10-8366SD	MSD	S	24-FEB-10	.507g	50mL	
1202042583	RE15-10-8366D	DUP	S	24-FEB-10	.516g	50mL	
246872001	RE15-10-8366	SAMPLE	S	24-FEB-10	.519g	50mL	
246872002	RE15-10-8367	SAMPLE	S	24-FEB-10	.501g	50mL	
246872003	RE15-10-8364	SAMPLE	S	24-FEB-10	.525g	50mL	
246872004	RE15-10-8365	SAMPLE	S	24-FEB-10	.516g	50mL	
246872005	RE15-10-8368	SAMPLE	S	24-FEB-10	.515g	50mL	
246872006	RE15-10-8340	SAMPLE	S	24-FEB-10	.508g	50mL	
246872007	RE15-10-8341	SAMPLE	S	24-FEB-10	.504g	50mL	
246872008	RE15-10-8376	SAMPLE	S	24-FEB-10	.521g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1759-1

Method Type: AV

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 958328							
1202055194	MB for batch 958328	MB	S	28-FEB-10	.503g	30mL	
1202055195	LCS for batch 958328	LCS	S	28-FEB-10	.202g	30mL	
1202055197	RE46-10-12720S	MS	S	28-FEB-10	.536g	30mL	
1202055199	RE46-10-12720SD	MSD	S	28-FEB-10	.557g	30mL	
1202055196	RE46-10-12720D	DUP	S	28-FEB-10	.579g	30mL	
246872001	RE15-10-8366	SAMPLE	S	28-FEB-10	.575g	30mL	
246872002	RE15-10-8367	SAMPLE	S	28-FEB-10	.552g	30mL	
246872003	RE15-10-8364	SAMPLE	S	28-FEB-10	.526g	30mL	
246872004	RE15-10-8365	SAMPLE	S	28-FEB-10	.528g	30mL	
246872005	RE15-10-8368	SAMPLE	S	28-FEB-10	.528g	30mL	
246872006	RE15-10-8340	SAMPLE	S	28-FEB-10	.556g	30mL	
246872007	RE15-10-8341	SAMPLE	S	28-FEB-10	.507g	30mL	
246872008	RE15-10-8376	SAMPLE	S	28-FEB-10	.513g	30mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: JCPMS5

Start Date: 08-MAR-10

End Date: 09-MAR-10

Client Sdg: 10-1759-1

Method: MS

Data File: 100308-11

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	10:00																						X		
S10	1	10:02																						X		
S100	1	10:04																						X		
ICV01	1	10:05																						X		
ICB01	1	10:07																						X		
CRDL01	1	10:09																						X		
ICSA01	1	10:10																						X		
ICSAB01	1	10:12																						X		
CCV01	1	10:14																						X		
CCB01	1	10:15																						X		
1202042582	2	10:17																						X		
1202042587	40	10:19																						X		
246872001	2	10:21																						X		
1202042583	2	10:22																						X		
1202042585	2	10:24																						X		
1202042586	2	10:26																						X		
1202042584	10	10:27																						X		
CCV02	1	10:29																						X		
CCB02	1	10:31																						X		
246872002	2	10:32																						X		
246872003	2	10:34																						X		
246872004	2	10:36																						X		
246872005	2	10:37																						X		
246872006	2	10:39																						X		
246872007	2	10:41																						X		
246872008	2	10:43																						X		
CCV03	1	10:44																						X		
CCB03	1	10:46																						X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 08-MAR-10

End Date: 09-MAR-10

Client Sdg: 10-1759-1

Method: MS

Data File: 100308-3

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	15:19			X		X											X		X			X			
S10	1	15:22			X		X											X		X			X			
S100	1	15:26			X		X											X		X			X			
ICV01	1	15:29			X		X											X		X			X			
ICB01	1	15:33			X		X											X		X			X			
CRDL01	1	15:37			X		X											X		X			X			
ICSA01	1	15:40			X		X											X		X			X			
ICSAB01	1	15:44			X		X											X		X			X			
CCV01	1	15:47			X		X											X		X			X			
CCB01	1	15:51			X		X											X		X			X			
ZZZZZZ	2	15:55																								
ZZZZZZ	40	15:58																								
ZZZZZZ	2	16:02																								
ZZZZZZ	2	16:06																								
ZZZZZZ	2	16:09																								
ZZZZZZ	2	16:13																								
ZZZZZZ	10	16:17																								
CCV02	1	16:20			X		X											X		X			X			
CCB02	1	16:24			X		X											X		X			X			
ZZZZZZ	2	16:28																								
ZZZZZZ	2	16:31																								
ZZZZZZ	2	16:35																								
ZZZZZZ	2	16:38																								
CCV03	1	16:42			X		X											X		X			X			
CCB03	1	16:46			X		X											X		X			X			
1202042582	2	16:49			X		X											X		X			X			
1202042587	40	16:53			X		X											X		X			X			
246872001	2	16:57			X		X											X		X			X			
1202042583	2	17:00			X		X											X		X			X			
1202042585	2	17:04			X		X											X		X			X			
1202042586	2	17:08			X		X											X		X			X			
1202042584	10	17:11			X		X											X		X			X			
CCV04	1	17:15			X		X											X		X			X			
CCB04	1	17:19			X		X											X		X			X			
246872002	2	17:22			X		X											X		X			X			
246872003	2	17:26			X		X											X		X			X			
246872004	2	17:30			X		X											X		X			X			
246872005	2	17:33			X		X											X		X			X			
246872006	2	17:37			X		X											X		X			X			
246872007	2	17:41			X		X											X		X			X			

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																		
246872008	2	17:44			X		X									X		X		X
CCV05	1	17:48			X		X									X		X		X
CCB05	1	17:51			X		X									X		X		X

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 04-MAR-10

End Date: 04-MAR-10

Client Sdg: 10-1759-1

Method P

Data File: 030410-2

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	15:07				X						X														X
S0.1	1	15:14				X						X														X
S0.5	1	15:20				X						X														X
SCAL	1	15:27				X						X														X
S10	1	15:34																								
ICV01	1	15:39				X						X														X
ICB01	1	15:46				X						X														X
PQL01	1	15:53				X						X														X
ICSA01	1	16:00				X						X														X
ICSAB01	1	16:07				X						X														X
LR01	1	16:13				X						X														X
LR02	1	16:19				X						X														X
ZZZZZZ	1	16:26																								
ZZZZZZ	1	16:33																								
CCV01	1	16:39				X						X														X
CCB01	1	16:46				X						X														X
LR03	1	16:53				X						X														X
CCV02	1	17:00				X						X														X
CCB02	1	17:07				X						X														X
ZZZZZZ	1	17:19																								
ZZZZZZ	1	17:26																								
ZZZZZZ	1	17:33																								
ZZZZZZ	1	17:40																								
ZZZZZZ	1	17:47																								
ZZZZZZ	5	17:54																								
CCV03	1	18:00				X						X														X
CCB03	1	18:07				X						X														X
CCV04	1	18:29				X						X														X
CCB04	1	18:36				X						X														X
ZZZZZZ	1	18:42																								
ZZZZZZ	1	18:49																								
ZZZZZZ	1	18:55																								
ZZZZZZ	1	19:02																								
ZZZZZZ	1	19:09																								
ZZZZZZ	1	19:16																								
ZZZZZZ	5	19:23																								
ZZZZZZ	1	19:30																								
ZZZZZZ	1	19:37																								
CCV05	1	19:43				X						X														X
CCB05	1	19:50				X						X														X

Metals
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Analysis Run Log

[illegible]

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 01-MAR-10

End Date: 01-MAR-10

Client Sdg: 10-1759-1

Method: AV

Data File: 030110S1-12

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	09:24															X									
S0.2	1	09:26															X									
S0.5	1	09:27															X									
S2.0	1	09:29															X									
S5.0	1	09:31															X									
S10.0	1	09:32															X									
ICV01	1	09:34															X									
ICB01	1	09:36															X									
CRDL01	1	09:37															X									
CCV01	1	09:39															X									
CCB01	1	09:41															X									
1202055194	1	09:42															X									
1202055195	10	09:44															X									
ZZZZZZ	1	09:46																								
1202055196	1	09:48															X									
1202055197	1	09:49															X									
1202055199	1	09:51															X									
1202055198	5	09:52															X									
ZZZZZZ	1	09:54																								
ZZZZZZ	1	09:56																								
ZZZZZZ	1	09:57																								
CCV02	1	09:59															X									
CCB02	1	10:01															X									
ZZZZZZ	1	10:02																								
ZZZZZZ	1	10:04																								
ZZZZZZ	1	10:06																								
ZZZZZZ	1	10:08																								
ZZZZZZ	1	10:09																								
ZZZZZZ	1	10:11																								
246872001	1	10:13															X									
246872002	1	10:14															X									
246872003	1	10:16															X									
246872004	1	10:18															X									
CCV03	1	10:19															X									
CCB03	1	10:21															X									
246872005	1	10:23															X									
246872006	1	10:24															X									
246872007	1	10:26															X									
246872008	1	10:28															X									
ZZZZZZ	1	10:29																								

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																		
ZZZZZZ	10	10:31																		
ZZZZZZ	1	10:33																		
ZZZZZZ	1	10:34																		
ZZZZZZ	1	10:36																		
ZZZZZZ	1	10:38																		
CCV04	1	10:39															X			
CCB04	1	10:41															X			

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA1

Start Date: 26-FEB-10

End Date: 26-FEB-10

Client Sdg: 10-1759-1

Method P

Data File: 022610D-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	01:52	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
S0.1	1	01:56		X				X		X	X			X		X			X		X				X	
S0.5	1	01:59	X	X				X	X	X	X			X	X	X			X		X				X	
SCAL	1	02:02	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
S10	1	02:06	X						X				X		X							X				
ICV01	1	02:08	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
ICB01	1	02:12	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
PQL01	1	02:15	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
ICSA01	1	02:19	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
ICSAB01	1	02:22	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
LR01	1	02:25	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
LR02	1	02:27	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCV01	1	02:31	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCB01	1	02:35	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
LR03	1	03:38	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCV02	1	03:42	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCB02	1	03:45	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
ZZZZZZ	5	03:49																								
CCV03	1	03:52	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCB03	1	03:56	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
ZZZZZZ	1	04:00																								
ZZZZZZ	1	04:03																								
ZZZZZZ	1	04:06																								
ZZZZZZ	1	04:10																								
ZZZZZZ	1	04:14																								
ZZZZZZ	1	04:17																								
ZZZZZZ	5	04:20																								
ZZZZZZ	1	04:23																								
ZZZZZZ	1	04:27																								
CCV04	1	04:31	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCB04	1	04:34	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
ZZZZZZ	1	04:38																								
ZZZZZZ	1	04:41																								
ZZZZZZ	1	04:45																								
ZZZZZZ	1	04:48																								
ZZZZZZ	1	04:52																								
ZZZZZZ	1	04:56																								
ZZZZZZ	1	04:59																								
ZZZZZZ	1	05:03																								
ZZZZZZ	1	05:07																								

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																								
CCV05	1	05:10	X	X						X	X	X	X		X	X	X	X			X	X	X			X
CCB05	1	05:14	X	X						X	X	X	X		X	X	X	X			X	X	X			X
ZZZZZZ	1	05:18																								
ZZZZZZ	1	05:21																								
ZZZZZZ	1	05:25																								
ZZZZZZ	1	05:29																								
ZZZZZZ	1	05:32																								
ZZZZZZ	1	05:36																								
ZZZZZZ	1	05:40																								
ZZZZZZ	1	05:43																								
CCV06	1	05:47	X	X						X	X	X	X		X	X	X	X			X	X	X			X
CCB06	1	05:51	X	X						X	X	X	X		X	X	X	X			X	X	X			X
ZZZZZZ	1	05:54																								
ZZZZZZ	1	05:58																								
ZZZZZZ	1	06:01																								
ZZZZZZ	1	06:05																								
ZZZZZZ	1	06:08																								
ZZZZZZ	1	06:12																								
ZZZZZZ	1	06:16																								
ZZZZZZ	5	06:19																								
ZZZZZZ	1	06:23																								
CCV07	1	06:27	X	X						X	X	X	X		X	X	X	X			X	X	X			X
CCB07	1	06:30	X	X						X	X	X	X		X	X	X	X			X	X	X			X
ZZZZZZ	1	06:43																								
ZZZZZZ	1	06:47																								
ZZZZZZ	1	06:50																								
ZZZZZZ	1	06:54																								
ZZZZZZ	1	06:58																								
ZZZZZZ	1	07:01																								
ZZZZZZ	5	07:05																								
CCV08	1	07:08	X	X						X	X	X	X		X	X	X	X			X	X	X			X
CCB08	1	07:12	X	X						X	X	X	X		X	X	X	X			X	X	X			X
ZZZZZZ	1	07:16																								
ZZZZZZ	1	07:19																								
ZZZZZZ	50	07:23																								
ZZZZZZ	50	07:27																								
ZZZZZZ	50	07:30																								
ZZZZZZ	250	07:34																								
ZZZZZZ	50	07:37																								
ZZZZZZ	5	07:41																								

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	5	07:45																								
CCV09	1	07:48	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCB09	1	07:52	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
ZZZZZZ	1	08:04																								
ZZZZZZ	1	08:07																								
ZZZZZZ	1	08:10																								
ZZZZZZ	1	08:14																								
ZZZZZZ	1	08:17																								
ZZZZZZ	1	08:21																								
ZZZZZZ	5	08:25																								
ZZZZZZ	1	08:28																								
CCV10	1	08:32	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCB10	1	08:36	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
ZZZZZZ	1	08:39																								
ZZZZZZ	1	08:43																								
ZZZZZZ	1	08:46																								
ZZZZZZ	1	08:50																								
ZZZZZZ	1	08:53																								
ZZZZZZ	1	08:57																								
ZZZZZZ	5	09:01																								
ZZZZZZ	1	09:04																								
ZZZZZZ	1	09:08																								
CCV11	1	09:12	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCB11	1	09:15	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
ZZZZZZ	1	09:19																								
ZZZZZZ	1	09:23																								
ZZZZZZ	1	09:26																								
ZZZZZZ	1	09:30																								
ZZZZZZ	1	09:34																								
ZZZZZZ	1	09:37																								
ZZZZZZ	1	09:41																								
ZZZZZZ	1	09:45																								
CCV12	1	09:48	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
CCB12	1	09:52	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
1202042576	1	09:56	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
1202042581	1	09:59	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
246872001	1	10:02	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
1202042577	1	10:06	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
1202042579	1	10:09	X	X				X	X	X	X		X	X	X	X			X		X	X			X	
1202042580	1	10:13	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																		
1202042578	5	10:17	X	X				X	X	X	X		X	X	X	X		X	X	X
CCV13	1	10:20	X	X				X	X	X	X		X	X	X	X		X	X	X
CCB13	1	10:24	X	X				X	X	X	X		X	X	X	X		X	X	X
246872002	1	10:28	X	X				X	X	X	X		X	X	X	X		X	X	X
246872003	1	10:31	X	X				X	X	X	X		X	X	X	X		X	X	X
246872004	1	10:35	X	X				X	X	X	X		X	X	X	X		X	X	X
246872005	1	10:39	X	X				X	X	X	X		X	X	X	X		X	X	X
246872006	1	10:42	X	X				X	X	X	X		X	X	X	X		X	X	X
246872007	1	10:46	X	X				X	X	X	X		X	X	X	X		X	X	X
246872008	1	10:50	X	X				X	X	X	X		X	X	X	X		X	X	X
CCV14	1	10:54	X	X				X	X	X	X		X	X	X	X		X	X	X
CCB14	1	10:57	X	X				X	X	X	X		X	X	X	X		X	X	X

Standards

METALS
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Instrument Detection Limits

SDG NO. 10-1759-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum		15.0	50
	Antimony		0.5	3
	Arsenic		1.0	5
	Barium		0.5	2
	Beryllium		0.1	.5
	Cadmium		0.1	1
	Calcium		33.0	100
	Chromium		1.0	3
	Cobalt		0.3	1
	Copper		0.33	1
	Iron		25.0	100
	Lead		0.5	2
	Magnesium		7.5	25
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		2.5	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.066	.2
	Vanadium		2.0	10
	Zinc		2.0	10

METALS
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Instrument Detection Limits

SDG NO. 10-1759-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-09

	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY				
SOLID	Mercury		0.068	.2

METALS
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Instrument Detection Limits

SDG NO. 10-1759-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.3	10
	Arsenic	188.979	5.0	30
	Barium	233.527	1.0	5
	Beryllium	313.107	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	80.0	250
	Chromium	267.716	1.5	5
	Cobalt	228.616	1.5	5
	Copper	324.752	3.0	10
	Iron	238.204	80.0	250
	Lead	220.353	2.5	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	64.0	250
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	70.0	250
	Thallium	190.801	5.0	20
	Uranium	409.014	10.0	50
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Aluminum	Antimony	Arsenic	Barium	Beryllium
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.02697	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.48147	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.21356	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05186	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.18741	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	2.85580	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.44491	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-29.9151	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.57616
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.60374	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	198.62
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	4.37985	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.36147	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	2.23785	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.36818	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.35273

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Iron	Lead	Magnesium	Manganese	Molybdenum
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	48.4946
Antimony	206.836	-0.02515	0.00000	0.00000	0.00000	-20.5057
Arsenic	188.979	-0.23424	0.00000	0.00000	0.00000	2.41902
Barium	233.527	-0.03042	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.16240	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.10329	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01944	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01444	0.00000	0.00000	0.00000	-2.33100
Copper	324.752	-0.05293	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09554	0.00000	0.00000	0.00000	-2.48774
Magnesium	279.077	1.04597	0.00000	0.00000	0.00000	-10.4683
Manganese	257.61	-0.09877	0.00000	0.04089	0.00000	0.00000
Molybdenum	202.031	-0.07763	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80543	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.39429	1.18725
Selenium	196.026	-3.27508	0.00000	0.00000	0.00000	-3.07287
Silica	251.611	0.00000	0.00000	0.00000	0.00000	27.2377
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	12.3082
Silver	328.068	-0.32385	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-4.77918	0.00000
Tin	189.927	-0.01682	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.08168	0.00000	0.00000
Uranium	409.014	0.11400	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.14564	0.00000	-0.01931	0.00000	-14.1293
Zinc	213.857	0.09701	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Potassium	Selenium	Silica
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-0.84443	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.63547	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	6.37026	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1759-1**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Silicon	Silver	Strontium	Sulfur	Thallium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Tin	Titanium	Uranium	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-15.4932	3.30431	0.00000	-2.81282	0.00000
Arsenic	188.979	0.00000	-8.66313	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-2.20293	0.00000
Beryllium	313.107	0.00000	-2.27027	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	-0.19473	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.39645	-1.41250	0.00000
Cobalt	228.616	0.00000	2.09497	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.55360	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-9.37529	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.81635	-4.04400	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-8.29801	0.00000	1.88584	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.43915	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	1.05947	-1.91382	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1759-1**Contract: LANL01004Instrument: OPTIMA1Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.05500	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-0.28800	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.04600	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1759-1**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	11.3250	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	-1.59900	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-21.2250	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	1.68400
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	1.19100	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	105.59
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	3.36300	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	-2.30400	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.61100

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759-1

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Iron	Lead	Magnesium	Manganese	Molybdenum
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	20.5430
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	-16.3320
Arsenic	188.979	-0.05800	0.00000	0.00000	0.00000	1.97700
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.13300	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	-0.90500
Copper	324.752	-0.13900	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.03800	-2.87600	0.00000	0.00000	0.00000
Magnesium	279.077	1.07300	0.00000	0.00000	0.00000	-16.8110
Manganese	257.61	-0.13900	0.00000	0.04000	0.00000	0.00000
Molybdenum	202.031	-0.03800	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	-0.01300	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.81200	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.88200	0.00000	0.28200	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	-0.06300	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.03900	0.00000	0.00000	-4.11700	0.00000
Tin	189.927	-0.09200	0.00000	-0.19600	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.07900	0.00000	0.00000
Uranium	409.014	0.13900	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	-0.05300	0.00000	0.00000	0.00000	-7.71400
Zinc	213.857	0.14460	0.00000	0.02030	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1759-1**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Selenium	Silicon	Silver
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.99900	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	4.41600	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759-1

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Sulfur	Thallium	Tin	Titanium	Uranium
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.38100	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	2.08700	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	1.04000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	-14.8110	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-8.68900	-1.22400
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	-1.03900
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1759-1

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000
Antimony	206.836	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000
Barium	233.527	-1.80500	0.00000
Beryllium	313.107	0.00000	0.00000
Boron	249.677	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000
Chromium	267.716	-0.63000	0.00000
Cobalt	228.616	0.00000	0.00000
Copper	324.752	0.00000	0.00000
Iron	238.204	0.00000	0.00000
Lead	220.353	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000
Manganese	257.61	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000
Nickel	231.604	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000
Selenium	196.026	0.00000	0.00000
Silicon	251.611	0.00000	0.00000
Silver	328.068	-6.59800	0.00000
Sulfur	181.975	0.00000	0.00000
Thallium	190.801	0.00000	0.00000
Tin	189.927	0.00000	0.00000
Titanium	334.94	0.00000	0.00000
Uranium	409.014	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000
Zinc	213.857	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-1759-1

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-1759-1

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA3

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
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. 10-1759-1

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA1

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	20	500000	ug/L	01-FEB-10
Antimony	20	10000	ug/L	01-FEB-10
Arsenic	20	10000	ug/L	01-FEB-10
Barium	20	15000	ug/L	01-FEB-10
Beryllium	20	3000	ug/L	01-FEB-10
Cadmium	20	10000	ug/L	01-FEB-10
Calcium	20	500000	ug/L	01-FEB-10
Chromium	20	25000	ug/L	01-FEB-10
Cobalt	20	10000	ug/L	01-FEB-10
Copper	20	20000	ug/L	01-FEB-10
Iron	20	500000	ug/L	01-FEB-10
Lead	20	25000	ug/L	01-FEB-10
Magnesium	20	500000	ug/L	01-FEB-10
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10

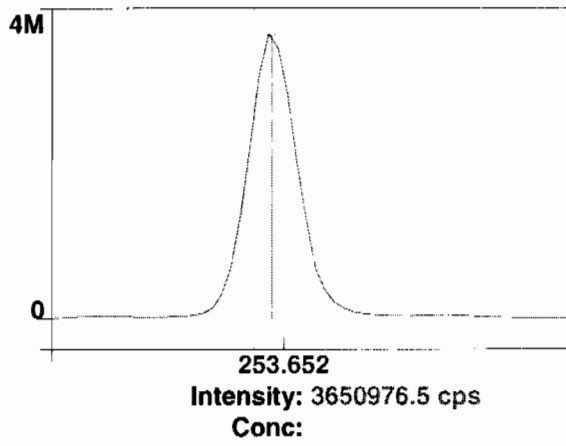
Raw Data

Method: Hg_ReAlign
Result: 031110

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

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Reprocessing Begun

Logged In Analyst: optima

Technique: ICP Continuous

Results Data Set (original): 022610C

Results Library (original): c:\pe\optimal\Results\Results.mdb

Results Data Set (reprocessed): 022610D

Results Library (reprocessed): c:\pe\optimal\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 2/26/2010 01:52:48

Analyst:

Data Type: Reprocessed on 2/26/2010 03:24:58

Logged In Analyst (Original) : optima

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc 361.383	1661249.7	1661249.7	99.981 %		01:54:46
1	Sc RADIAL	110250.1	110250.1	99.7 %		01:53:24
1	Y 371.029	939026.7	939026.7	100.19 %		01:54:46
1	Ag 328.068†	-548.0	-548.1	[0.00] µg/L		01:54:51
1	Al 396.153Radial†	-70.1	-70.3	[0.00] µg/L		01:53:24
1	As 188.979†	-8.7	-8.7	[0.00] µg/L		01:55:12
1	B 249.677†	160.4	160.5	[0.00] µg/L		01:55:12
1	Ba 233.527†	-7.5	-7.5	[0.00] µg/L		01:55:12
1	Be 313.107†	-1738.0	-1738.3	[0.00] µg/L		01:54:51
1	Ca 317.933Radial†	470.6	472.2	[0.00] µg/L		01:53:44
1	Cd 226.502†	-142.6	-142.7	[0.00] µg/L		01:55:12
1	Co 228.616†	27.9	27.9	[0.00] µg/L		01:55:12
1	Cr 267.716†	77.4	77.4	[0.00] µg/L		01:55:12
1	Cu 324.752†	2637.8	2638.3	[0.00] µg/L		01:54:51
1	Fe 238.204 Radial†	33.2	33.3	[0.00] µg/L		01:53:44
1	K 766.490 Radial†	292.0	292.9	[0.00] µg/L		01:53:24
1	Mg 279.077 IEC†	10.3	10.3	[0.00] µg/L		01:53:44
1	Mn 257.610†	-578.5	-578.6	[0.00] µg/L		01:55:12
1	Mo 202.031†	6.4	6.4	[0.00] µg/L		01:55:12
1	Na 589.592 Radial†	309.9	310.9	[0.00] µg/L		01:53:24
1	Ni 231.604†	295.7	295.8	[0.00] µg/L		01:55:12
1	P 214.914†	240.4	240.5	[0.00] µg/L		01:55:12
1	Pb 220.353†	38.3	38.4	[0.00] µg/L		01:55:12
1	S 181.975 Axial†	20.2	20.2	[0.00] µg/L		01:55:12
1	Sb 206.836†	16.8	16.8	[0.00] µg/L		01:55:12
1	Se 196.026†	19.7	19.7	[0.00] µg/L		01:55:12
1	SiO2†	1395.5	1395.7	[0.00] µg/L		01:54:51
1	Si 251.611†	374.8	374.9	[0.00] µg/L		01:55:12
1	Sn 189.927†	0.4	0.4	[0.00] µg/L		01:55:12
1	Sr 421.552†	165.8	166.3	[0.00] µg/L		01:53:24
1	Ti 334.940†	-5.9	-5.9	[0.00] µg/L		01:54:51
1	Tl 190.801†	-26.1	-26.1	[0.00] µg/L		01:55:12
1	U 409.014†	66.0	66.0	[0.00] µg/L		01:54:51
1	V 292.402†	-124.6	-124.6	[0.00] µg/L		01:54:51
1	Zn 213.857†	619.4	619.5	[0.00] µg/L		01:55:12
2	Sc 361.383	1671751.9	1671751.9	100.61 %		01:55:18
2	Sc RADIAL	110971.1	110971.1	100 %		01:53:49
2	Y 371.029	940752.5	940752.5	100.37 %		01:55:18
2	Ag 328.068†	-504.9	-501.8	[0.00] µg/L		01:55:23
2	Al 396.153Radial†	-69.0	-68.8	[0.00] µg/L		01:53:49
2	As 188.979†	-6.5	-6.5	[0.00] µg/L		01:55:44
2	B 249.677†	166.9	165.9	[0.00] µg/L		01:55:44
2	Ba 233.527†	-10.0	-9.9	[0.00] µg/L		01:55:44
2	Be 313.107†	-1627.2	-1617.3	[0.00] µg/L		01:55:23
2	Ca 317.933Radial†	495.3	493.7	[0.00] µg/L		01:54:10
2	Cd 226.502†	-134.1	-133.3	[0.00] µg/L		01:55:44
2	Co 228.616†	26.2	26.0	[0.00] µg/L		01:55:44
2	Cr 267.716†	62.0	61.7	[0.00] µg/L		01:55:44
2	Cu 324.752†	2627.6	2611.6	[0.00] µg/L		01:55:23

2	Fe 238.204 Radial†	34.9	34.8	[0.00]	µg/L	01:54:10
2	K 766.490 Radial†	229.6	228.8	[0.00]	µg/L	01:53:49
2	Mg 279.077 IEC†	15.6	15.5	[0.00]	µg/L	01:54:10
2	Mn 257.610†	-577.1	-573.6	[0.00]	µg/L	01:55:44
2	Mo 202.031†	6.1	6.0	[0.00]	µg/L	01:55:44
2	Na 589.592 Radial†	323.8	322.8	[0.00]	µg/L	01:53:49
2	Ni 231.604†	288.8	287.1	[0.00]	µg/L	01:55:44
2	P 214.914†	240.5	239.0	[0.00]	µg/L	01:55:44
2	Pb 220.353†	38.9	38.7	[0.00]	µg/L	01:55:44
2	S 181.975 Axial†	19.4	19.3	[0.00]	µg/L	01:55:44
2	Sb 206.836†	18.6	18.5	[0.00]	µg/L	01:55:44
2	Se 196.026†	8.2	8.2	[0.00]	µg/L	01:55:44
2	SiO2†	1405.5	1396.9	[0.00]	µg/L	01:55:23
2	Si 251.611†	380.4	378.1	[0.00]	µg/L	01:55:44
2	Sn 189.927†	1.1	1.1	[0.00]	µg/L	01:55:44
2	Sr 421.552†	140.5	140.0	[0.00]	µg/L	01:53:49
2	Ti 334.940†	10.4	10.3	[0.00]	µg/L	01:55:23
2	Tl 190.801†	-26.4	-26.3	[0.00]	µg/L	01:55:44
2	U 409.014†	144.6	143.7	[0.00]	µg/L	01:55:23
2	V 292.402†	-156.4	-155.4	[0.00]	µg/L	01:55:23
2	Zn 213.857†	606.2	602.5	[0.00]	µg/L	01:55:44
3	Sc 361.383	1651690.0	1651690.0	99.406	%	01:55:50
3	Sc RADIAL	110609.1	110609.1	100.0	%	01:54:15
3	Y 371.029	931941.9	931941.9	99.435	%	01:55:50
3	Ag 328.068†	-499.0	-501.9	[0.00]	µg/L	01:55:55
3	Al 396.153Radial†	-71.3	-71.3	[0.00]	µg/L	01:54:15
3	As 188.979†	-7.8	-7.8	[0.00]	µg/L	01:56:16
3	B 249.677†	173.3	174.3	[0.00]	µg/L	01:56:16
3	Ba 233.527†	-12.8	-12.9	[0.00]	µg/L	01:56:16
3	Be 313.107†	-1638.6	-1648.4	[0.00]	µg/L	01:55:55
3	Ca 317.933Radial†	503.6	503.6	[0.00]	µg/L	01:54:36
3	Cd 226.502†	-145.0	-145.9	[0.00]	µg/L	01:56:16
3	Co 228.616†	26.6	26.8	[0.00]	µg/L	01:56:16
3	Cr 267.716†	67.9	68.3	[0.00]	µg/L	01:56:16
3	Cu 324.752†	2625.7	2641.4	[0.00]	µg/L	01:55:55
3	Fe 238.204 Radial†	32.1	32.1	[0.00]	µg/L	01:54:36
3	K 766.490 Radial†	225.9	225.9	[0.00]	µg/L	01:54:15
3	Mg 279.077 IEC†	14.3	14.3	[0.00]	µg/L	01:54:36
3	Mn 257.610†	-572.6	-576.1	[0.00]	µg/L	01:56:16
3	Mo 202.031†	-5.2	-5.2	[0.00]	µg/L	01:56:16
3	Na 589.592 Radial†	321.4	321.4	[0.00]	µg/L	01:54:15
3	Ni 231.604†	301.2	303.0	[0.00]	µg/L	01:56:16
3	P 214.914†	242.9	244.4	[0.00]	µg/L	01:56:16
3	Pb 220.353†	27.1	27.3	[0.00]	µg/L	01:56:16
3	S 181.975 Axial†	22.2	22.3	[0.00]	µg/L	01:56:16
3	Sb 206.836†	22.0	22.2	[0.00]	µg/L	01:56:16
3	Se 196.026†	15.2	15.3	[0.00]	µg/L	01:56:16
3	SiO2†	1412.5	1420.9	[0.00]	µg/L	01:55:55
3	Si 251.611†	396.8	399.2	[0.00]	µg/L	01:56:16
3	Sn 189.927†	1.6	1.6	[0.00]	µg/L	01:56:16
3	Sr 421.552†	124.9	124.9	[0.00]	µg/L	01:54:15
3	Ti 334.940†	-21.2	-21.3	[0.00]	µg/L	01:55:55
3	Tl 190.801†	-27.0	-27.2	[0.00]	µg/L	01:56:16
3	U 409.014†	221.7	223.0	[0.00]	µg/L	01:55:55
3	V 292.402†	-152.1	-153.0	[0.00]	µg/L	01:55:55
3	Zn 213.857†	606.7	610.4	[0.00]	µg/L	01:56:16

Mean Data: S0

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	1661563.9	10034.63	0.60%	100.00	%
Sc RADIAL	110610.1	360.49	0.33%	100	%
Y 371.029	937240.4	4669.03	0.50%	100.00	%
Ag 328.068†	-517.3	26.70	5.16%	[0.00]	µg/L
Al 396.153Radial†	-70.1	1.27	1.81%	[0.00]	µg/L
As 188.979†	-7.7	1.10	14.41%	[0.00]	µg/L
B 249.677†	166.9	6.98	4.18%	[0.00]	µg/L
Ba 233.527†	-10.1	2.67	26.43%	[0.00]	µg/L
Be 313.107†	-1668.0	62.86	3.77%	[0.00]	µg/L
Ca 317.933Radial†	489.8	16.09	3.28%	[0.00]	µg/L

Cd 226.502†	-140.6	6.52	4.64%	[0.00]	µg/L
Co 228.616†	26.9	0.95	3.54%	[0.00]	µg/L
Cr 267.716†	69.1	7.91	11.45%	[0.00]	µg/L
Cu 324.752†	2630.4	16.40	0.62%	[0.00]	µg/L
Fe 238.204 Radial†	33.4	1.32	3.96%	[0.00]	µg/L
K 766.490 Radial†	249.2	37.88	15.20%	[0.00]	µg/L
Mg 279.077 IEC†	13.4	2.72	20.29%	[0.00]	µg/L
Mn 257.610†	-576.1	2.49	0.43%	[0.00]	µg/L
Mo 202.031†	2.4	6.60	274.86%	[0.00]	µg/L
Na 589.592 Radial†	318.3	6.48	2.04%	[0.00]	µg/L
Ni 231.604†	295.3	7.98	2.70%	[0.00]	µg/L
P 214.914†	241.3	2.75	1.14%	[0.00]	µg/L
Pb 220.353†	34.8	6.48	18.64%	[0.00]	µg/L
S 181.975 Axial†	20.6	1.58	7.66%	[0.00]	µg/L
Sb 206.836†	19.2	2.74	14.28%	[0.00]	µg/L
Se 196.026†	14.4	5.79	40.32%	[0.00]	µg/L
SiO2†	1404.5	14.20	1.01%	[0.00]	µg/L
Si 251.611†	384.0	13.23	3.44%	[0.00]	µg/L
Sn 189.927†	1.0	0.58	56.82%	[0.00]	µg/L
Sr 421.552†	143.8	20.95	14.57%	[0.00]	µg/L
Ti 334.940†	-5.6	15.82	281.36%	[0.00]	µg/L
Tl 190.801†	-26.5	0.57	2.14%	[0.00]	µg/L
U 409.014†	144.2	78.50	54.42%	[0.00]	µg/L
V 292.402†	-144.3	17.15	11.88%	[0.00]	µg/L
Zn 213.857†	610.8	8.50	1.39%	[0.00]	µg/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Logged In Analyst (Original) : optima
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 2/26/2010 01:56:25
 Data Type: Reprocessed on 2/26/2010 03:26:10
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc 361.383	1664500.8	1664500.8	100.18	%	01:57:22
1	Sc RADIAL	110000.6	110000.6	99.4	%	01:57:00
1	Y 371.029	940896.0	940896.0	100.39	%	01:57:22
1	Ag 328.068†	10619.1	11117.7	[100]	µg/L	01:57:28
1	As 188.979†	55.7	63.2	[100]	µg/L	01:57:48
1	B 249.677†	2009.9	1839.4	[100]	µg/L	01:57:28
1	Ba 233.527†	3845.5	3848.8	[100]	µg/L	01:57:28
1	Be 313.107†	138284.1	139708.1	[100]	µg/L	01:57:22
1	Cd 226.502†	3350.1	3484.7	[100]	µg/L	01:57:28
1	Co 228.616†	1961.3	1931.0	[100]	µg/L	01:57:48
1	Cr 267.716†	4020.0	3943.8	[100]	µg/L	01:57:28
1	Cu 324.752†	16961.9	14301.5	[100]	µg/L	01:57:28
1	K 766.490 Radial†	1939.7	1701.2	[1000]	µg/L	01:57:00
1	Mn 257.610†	27695.8	28223.0	[100]	µg/L	01:57:28
1	Mo 202.031†	911.7	907.6	[100]	µg/L	01:57:48
1	Ni 231.604†	1798.5	1500.0	[100]	µg/L	01:57:48
1	P 214.914†	481.2	239.1	[500]	µg/L	01:57:48
1	Pb 220.353†	352.5	317.0	[100]	µg/L	01:57:48
1	S 181.975 Axial†	68.3	47.6	[200]	µg/L	01:57:48
1	Sb 206.836†	114.2	94.9	[100]	µg/L	01:57:48
1	Se 196.026†	93.5	78.9	[100]	µg/L	01:57:48
1	SiO2†	6150.9	4735.6	[1069.5]	µg/L	01:57:28
1	Si 251.611†	6295.4	5900.2	[500]	µg/L	01:57:28
1	Sn 189.927†	231.5	230.1	[100]	µg/L	01:57:48
1	Sr 421.552†	23711.7	23699.3	[100]	µg/L	01:57:00
1	Ti 334.940†	36439.2	36380.6	[100]	µg/L	01:57:28
1	Tl 190.801†	64.9	91.3	[100]	µg/L	01:57:48
1	U 409.014†	1197.4	1051.1	[100]	µg/L	01:57:28
1	V 292.402†	7773.3	7903.9	[100]	µg/L	01:57:28
1	Zn 213.857†	4476.0	3857.3	[100]	µg/L	01:57:28
2	Sc 361.383	1652346.2	1652346.2	99.445	%	01:57:54
2	Sc RADIAL	109141.4	109141.4	98.7	%	01:57:06
2	Y 371.029	931533.8	931533.8	99.391	%	01:57:54
2	Ag 328.068†	10615.8	11192.3	[100]	µg/L	01:58:00
2	As 188.979†	47.7	55.7	[100]	µg/L	01:58:21
2	B 249.677†	2001.2	1845.4	[100]	µg/L	01:58:00
2	Ba 233.527†	3886.2	3918.0	[100]	µg/L	01:58:00
2	Be 313.107†	138035.9	140474.0	[100]	µg/L	01:57:54
2	Cd 226.502†	3390.8	3550.3	[100]	µg/L	01:58:00
2	Co 228.616†	1970.4	1954.5	[100]	µg/L	01:58:21
2	Cr 267.716†	4093.2	4046.9	[100]	µg/L	01:58:00
2	Cu 324.752†	17075.5	14540.4	[100]	µg/L	01:58:00
2	K 766.490 Radial†	1881.6	1657.7	[1000]	µg/L	01:57:06
2	Mn 257.610†	27929.1	28661.0	[100]	µg/L	01:58:00
2	Mo 202.031†	915.4	918.1	[100]	µg/L	01:58:21
2	Ni 231.604†	1796.6	1511.3	[100]	µg/L	01:58:21
2	P 214.914†	479.6	240.9	[500]	µg/L	01:58:21
2	Pb 220.353†	366.7	334.0	[100]	µg/L	01:58:21
2	S 181.975 Axial†	78.0	57.9	[200]	µg/L	01:58:21
2	Sb 206.836†	114.6	96.0	[100]	µg/L	01:58:21
2	Se 196.026†	111.1	97.3	[100]	µg/L	01:58:21
2	SiO2†	6168.4	4798.2	[1069.5]	µg/L	01:58:00
2	Si 251.611†	6383.0	6034.6	[500]	µg/L	01:58:00
2	Sn 189.927†	225.0	225.2	[100]	µg/L	01:58:21
2	Sr 421.552†	23541.8	23714.8	[100]	µg/L	01:57:06
2	Ti 334.940†	36659.0	36869.1	[100]	µg/L	01:58:00
2	Tl 190.801†	60.7	87.5	[100]	µg/L	01:58:21
2	U 409.014†	1131.9	994.0	[100]	µg/L	01:58:00

2	V 292.402†	7800.1	7987.9	[100]	µg/L	01:58:00
2	Zn 213.857†	4500.6	3915.0	[100]	µg/L	01:58:00
3	Sc 361.383	1656039.4	1656039.4	99.668	%	01:58:27
3	Sc RADIAL	110310.0	110310.0	99.7	%	01:57:11
3	Y 371.029	937573.8	937573.8	100.04	%	01:58:27
3	Ag 328.068†	10648.2	11201.0	[100]	µg/L	01:58:32
3	As 188.979†	54.6	62.5	[100]	µg/L	01:58:53
3	B 249.677†	2048.8	1888.8	[100]	µg/L	01:58:32
3	Ba 233.527†	3893.5	3916.6	[100]	µg/L	01:58:32
3	Be 313.107†	138774.3	140905.3	[100]	µg/L	01:58:27
3	Cd 226.502†	3415.1	3567.1	[100]	µg/L	01:58:32
3	Co 228.616†	1963.9	1943.5	[100]	µg/L	01:58:53
3	Cr 267.716†	4108.4	4053.0	[100]	µg/L	01:58:32
3	Cu 324.752†	17118.0	14544.6	[100]	µg/L	01:58:32
3	K 766.490 Radial†	2003.3	1759.6	[1000]	µg/L	01:57:11
3	Mn 257.610†	27999.6	28669.1	[100]	µg/L	01:58:32
3	Mo 202.031†	913.9	914.5	[100]	µg/L	01:58:53
3	Ni 231.604†	1817.0	1527.7	[100]	µg/L	01:58:53
3	P 214.914†	472.1	232.4	[500]	µg/L	01:58:53
3	Pb 220.353†	354.4	320.8	[100]	µg/L	01:58:53
3	S 181.975 Axial†	77.2	56.9	[200]	µg/L	01:58:53
3	Sb 206.836†	115.8	97.0	[100]	µg/L	01:58:53
3	Se 196.026†	100.5	86.5	[100]	µg/L	01:58:53
3	SiO2†	6236.3	4852.6	[1069.5]	µg/L	01:58:32
3	Si 251.611†	6436.1	6073.5	[500]	µg/L	01:58:32
3	Sn 189.927†	225.8	225.5	[100]	µg/L	01:58:53
3	Sr 421.552†	23723.2	23644.0	[100]	µg/L	01:57:11
3	Ti 334.940†	36854.5	36983.0	[100]	µg/L	01:58:32
3	Tl 190.801†	59.8	86.5	[100]	µg/L	01:58:53
3	U 409.014†	1209.3	1069.1	[100]	µg/L	01:58:32
3	V 292.402†	7793.0	7963.3	[100]	µg/L	01:58:32
3	Zn 213.857†	4501.4	3905.6	[100]	µg/L	01:58:32

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1657628.8	6231.27	0.38%	99.763 %
Sc RADIAL	109817.4	605.47	0.55%	99.3 %
Y 371.029	936667.9	4746.39	0.51%	99.939 %
Ag 328.068†	11170.3	45.80	0.41%	[100] µg/L
As 188.979†	60.4	4.17	6.89%	[100] µg/L
B 249.677†	1857.9	26.91	1.45%	[100] µg/L
Ba 233.527†	3894.5	39.56	1.02%	[100] µg/L
Be 313.107†	140362.5	606.30	0.43%	[100] µg/L
Cd 226.502†	3534.0	43.50	1.23%	[100] µg/L
Co 228.616†	1943.0	11.79	0.61%	[100] µg/L
Cr 267.716†	4014.6	61.33	1.53%	[100] µg/L
Cu 324.752†	14462.2	139.15	0.96%	[100] µg/L
K 766.490 Radial†	1706.2	51.08	2.99%	[1000] µg/L
Mn 257.610†	28517.7	255.24	0.90%	[100] µg/L
Mo 202.031†	913.4	5.31	0.58%	[100] µg/L
Ni 231.604†	1513.0	13.94	0.92%	[100] µg/L
P 214.914†	237.5	4.51	1.90%	[500] µg/L
Pb 220.353†	324.0	8.88	2.74%	[100] µg/L
S 181.975 Axial†	54.1	5.66	10.45%	[200] µg/L
Sb 206.836†	96.0	1.06	1.11%	[100] µg/L
Se 196.026†	87.6	9.23	10.54%	[100] µg/L
SiO2†	4795.5	58.57	1.22%	[1069.5] µg/L
Si 251.611†	6002.8	90.91	1.51%	[500] µg/L
Sn 189.927†	226.9	2.73	1.20%	[100] µg/L
Sr 421.552†	23686.0	37.24	0.16%	[100] µg/L
Ti 334.940†	36744.2	320.06	0.87%	[100] µg/L
Tl 190.801†	88.4	2.51	2.83%	[100] µg/L
U 409.014†	1038.1	39.20	3.78%	[100] µg/L
V 292.402†	7951.7	43.18	0.54%	[100] µg/L
Zn 213.857†	3892.6	30.96	0.80%	[100] µg/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Logged In Analyst (Original) : optima
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 2/26/2010 01:59:03
 Data Type: Reprocessed on 2/26/2010 03:27:11
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	1649792.2	1649792.2	99.292 %	02:00:59
1	Sc RADIAL	109509.7	109509.7	99.0 %	01:59:36
1	Y 371.029	925592.9	925592.9	98.757 %	02:00:59
1	Ag 328.068†	55211.5	56122.8	[500] µg/L	02:01:05
1	Al 396.153Radial†	9617.7	9784.4	[5000] µg/L	01:59:36
1	As 188.979†	277.8	287.5	[500] µg/L	02:01:25
1	B 249.677†	9582.8	9484.3	[500] µg/L	02:01:05
1	Ba 233.527†	19471.2	19620.2	[500] µg/L	02:01:05
1	Be 313.107†	698199.3	704849.2	[500] µg/L	02:00:59
1	Ca 317.933Radial†	15837.4	15506.7	[5000] µg/L	01:59:36
1	Cd 226.502†	17361.1	17625.6	[500] µg/L	02:01:05
1	Co 228.616†	9815.8	9859.0	[500] µg/L	02:01:05
1	Cr 267.716†	20043.8	20117.7	[500] µg/L	02:01:05
1	Cu 324.752†	72219.2	70104.1	[500] µg/L	02:01:05
1	K 766.490 Radial†	8598.1	8435.2	[5000] µg/L	01:59:36
1	Mg 279.077 IEC†	553.0	545.2	[5000] µg/L	01:59:56
1	Mn 257.610†	139755.9	141329.1	[500] µg/L	02:01:05
1	Mo 202.031†	4530.7	4560.6	[500] µg/L	02:01:25
1	Ni 231.604†	7874.1	7635.0	[500] µg/L	02:01:05
1	P 214.914†	1431.5	1200.4	[2500] µg/L	02:01:25
1	Pb 220.353†	1641.8	1618.7	[500] µg/L	02:01:25
1	S 181.975 Axial†	277.9	259.3	[1000] µg/L	02:01:25
1	Sb 206.836†	491.6	476.0	[500] µg/L	02:01:25
1	Se 196.026†	437.4	426.1	[500] µg/L	02:01:25
1	SiO2†	25898.1	24678.3	[5347.5] µg/L	02:01:05
1	Si 251.611†	31053.7	30891.3	[2500] µg/L	02:01:05
1	Sn 189.927†	1117.3	1124.3	[500] µg/L	02:01:25
1	Sr 421.552†	119814.6	120874.7	[500] µg/L	01:59:36
1	Ti 334.940†	186040.3	187373.4	[500] µg/L	02:00:59
1	Tl 190.801†	406.7	436.1	[500] µg/L	02:01:25
1	U 409.014†	5126.3	5018.6	[500] µg/L	02:01:05
1	V 292.402†	39664.9	40092.3	[500] µg/L	02:01:05
1	Zn 213.857†	19689.1	19218.8	[500] µg/L	02:01:05
2	Sc 361.383	1650257.9	1650257.9	99.320 %	02:01:32
2	Sc RADIAL	109258.8	109258.8	98.8 %	02:00:02
2	Y 371.029	927816.2	927816.2	98.994 %	02:01:32
2	Ag 328.068†	54987.4	55881.4	[500] µg/L	02:01:38
2	Al 396.153Radial†	9621.3	9810.4	[5000] µg/L	02:00:02
2	As 188.979†	274.1	283.6	[500] µg/L	02:01:58
2	B 249.677†	9558.0	9456.6	[500] µg/L	02:01:38
2	Ba 233.527†	19433.3	19576.5	[500] µg/L	02:01:38
2	Be 313.107†	696587.9	703028.3	[500] µg/L	02:01:32
2	Ca 317.933Radial†	15854.2	15560.5	[5000] µg/L	02:00:02
2	Cd 226.502†	17302.4	17561.5	[500] µg/L	02:01:38
2	Co 228.616†	9753.1	9793.0	[500] µg/L	02:01:38
2	Cr 267.716†	19938.1	20005.6	[500] µg/L	02:01:38
2	Cu 324.752†	71933.0	69795.4	[500] µg/L	02:01:38
2	K 766.490 Radial†	8616.5	8473.9	[5000] µg/L	02:00:02
2	Mg 279.077 IEC†	554.0	547.4	[5000] µg/L	02:00:22
2	Mn 257.610†	139145.5	140674.9	[500] µg/L	02:01:38
2	Mo 202.031†	4481.7	4510.0	[500] µg/L	02:01:58
2	Ni 231.604†	7823.6	7581.9	[500] µg/L	02:01:38
2	P 214.914†	1412.1	1180.5	[2500] µg/L	02:01:58
2	Pb 220.353†	1652.7	1629.2	[500] µg/L	02:01:58
2	S 181.975 Axial†	285.9	267.3	[1000] µg/L	02:01:58
2	Sb 206.836†	490.6	474.8	[500] µg/L	02:01:58
2	Se 196.026†	430.3	418.8	[500] µg/L	02:01:58
2	SiO2†	25938.3	24711.5	[5347.5] µg/L	02:01:38

2	Si 251.611†	30962.9	30791.0	[2500]	µg/L	02:01:38
2	Sn 189.927†	1107.5	1114.1	[500]	µg/L	02:01:58
2	Sr 421.552†	119723.6	121060.6	[500]	µg/L	02:00:02
2	Ti 334.940†	185527.0	186803.7	[500]	µg/L	02:01:32
2	Tl 190.801†	403.9	433.2	[500]	µg/L	02:01:58
2	U 409.014†	5086.1	4976.7	[500]	µg/L	02:01:38
2	V 292.402†	39488.5	39903.4	[500]	µg/L	02:01:38
2	Zn 213.857†	19643.5	19167.3	[500]	µg/L	02:01:38
3	Sc 361.383	1649218.5	1649218.5	99.257	%	02:02:05
3	Sc RADIAL	109321.7	109321.7	98.8	%	02:00:28
3	Y 371.029	929937.8	929937.8	99.221	%	02:02:05
3	Ag 328.068†	51967.2	52873.5	[500]	µg/L	02:02:11
3	Al 396.153Radial†	9577.1	9760.1	[5000]	µg/L	02:00:28
3	As 188.979†	235.8	245.2	[500]	µg/L	02:02:31
3	B 249.677†	9007.1	8907.7	[500]	µg/L	02:02:11
3	Ba 233.527†	17866.4	18010.3	[500]	µg/L	02:02:11
3	Be 313.107†	655093.1	661664.8	[500]	µg/L	02:02:05
3	Ca 317.933Radial†	15786.7	15483.0	[5000]	µg/L	02:00:28
3	Cd 226.502†	15815.4	16074.4	[500]	µg/L	02:02:11
3	Co 228.616†	8908.1	8947.9	[500]	µg/L	02:02:11
3	Cr 267.716†	17693.7	17757.0	[500]	µg/L	02:02:11
3	Cu 324.752†	66400.8	64267.4	[500]	µg/L	02:02:11
3	K 766.490 Radial†	8639.4	8492.0	[5000]	µg/L	02:00:28
3	Mg 279.077 IEC†	552.2	545.3	[5000]	µg/L	02:00:48
3	Mn 257.610†	127030.7	128557.7	[500]	µg/L	02:02:11
3	Mo 202.031†	3809.0	3835.1	[500]	µg/L	02:02:31
3	Ni 231.604†	7167.2	6925.5	[500]	µg/L	02:02:11
3	P 214.914†	1259.1	1027.2	[2500]	µg/L	02:02:31
3	Pb 220.353†	1442.0	1418.1	[500]	µg/L	02:02:31
3	S 181.975 Axial†	247.9	229.2	[1000]	µg/L	02:02:31
3	Sb 206.836†	432.5	416.6	[500]	µg/L	02:02:31
3	Se 196.026†	381.5	369.9	[500]	µg/L	02:02:31
3	SiO2†	24353.4	23131.2	[5347.5]	µg/L	02:02:11
3	Si 251.611†	28911.0	28743.4	[2500]	µg/L	02:02:11
3	Sn 189.927†	924.1	930.0	[500]	µg/L	02:02:31
3	Sr 421.552†	119854.4	121123.3	[500]	µg/L	02:00:28
3	Ti 334.940†	173989.4	175297.4	[500]	µg/L	02:02:05
3	Tl 190.801†	367.8	397.0	[500]	µg/L	02:02:31
3	U 409.014†	4662.6	4553.2	[500]	µg/L	02:02:11
3	V 292.402†	35765.8	36177.9	[500]	µg/L	02:02:11
3	Zn 213.857†	17933.8	17457.3	[500]	µg/L	02:02:11

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1649756.2	520.59	0.03%	99.289	%
Sc RADIAL	109363.4	130.57	0.12%	98.9	%
Y 371.029	927782.3	2172.68	0.23%	98.991	%
Ag 328.068†	54959.2	1810.30	3.29%	[500]	µg/L
Al 396.153Radial†	9785.0	25.16	0.26%	[5000]	µg/L
As 188.979†	272.1	23.36	8.59%	[500]	µg/L
B 249.677†	9282.8	325.22	3.50%	[500]	µg/L
Ba 233.527†	19069.0	917.13	4.81%	[500]	µg/L
Be 313.107†	689847.4	24423.82	3.54%	[500]	µg/L
Ca 317.933Radial†	15516.7	39.71	0.26%	[5000]	µg/L
Cd 226.502†	17087.2	877.65	5.14%	[500]	µg/L
Co 228.616†	9533.3	508.06	5.33%	[500]	µg/L
Cr 267.716†	19293.4	1331.74	6.90%	[500]	µg/L
Cu 324.752†	68055.6	3284.36	4.83%	[500]	µg/L
K 766.490 Radial†	8467.0	29.00	0.34%	[5000]	µg/L
Mg 279.077 IEC†	546.0	1.27	0.23%	[5000]	µg/L
Mn 257.610†	136853.9	7192.14	5.26%	[500]	µg/L
Mo 202.031†	4301.9	405.03	9.42%	[500]	µg/L
Ni 231.604†	7380.8	395.15	5.35%	[500]	µg/L
P 214.914†	1136.0	94.76	8.34%	[2500]	µg/L
Pb 220.353†	1555.3	119.00	7.65%	[500]	µg/L
S 181.975 Axial†	251.9	20.09	7.97%	[1000]	µg/L
Sb 206.836†	455.8	33.92	7.44%	[500]	µg/L
Se 196.026†	405.0	30.56	7.55%	[500]	µg/L
SiO2†	24173.7	902.96	3.74%	[5347.5]	µg/L

Si 251.611†	30141.9	1212.17	4.02%	[2500] µg/L
Sn 189.927†	1056.1	109.35	10.35%	[500] µg/L
Sr 421.552†	121019.5	129.25	0.11%	[500] µg/L
Ti 334.940†	183158.2	6813.54	3.72%	[500] µg/L
Tl 190.801†	422.1	21.76	5.16%	[500] µg/L
U 409.014†	4849.5	257.45	5.31%	[500] µg/L
V 292.402†	38724.5	2207.49	5.70%	[500] µg/L
Zn 213.857†	18614.5	1002.48	5.39%	[500] µg/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Logged In Analyst (Original) : optima
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 2/26/2010 02:02:40
 Data Type: Reprocessed on 2/26/2010 03:28:11
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	1636557.3	1636557.3	98.495 %	02:04:38
1	Sc RADIAL	110315.1	110315.1	99.7 %	02:03:14
1	Y 371.029	924061.3	924061.3	98.594 %	02:04:38
1	Ag 328.068†	109675.3	111868.4	[1000] µg/L	02:04:44
1	Al 396.153Radial†	19548.5	19671.0	[10000] µg/L	02:03:14
1	As 188.979†	543.3	559.3	[1000] µg/L	02:05:04
1	B 249.677†	18895.0	19016.8	[1000] µg/L	02:04:44
1	Ba 233.527†	38571.6	39171.0	[1000] µg/L	02:04:44
1	Be 313.107†	1378144.6	1400870.6	[1000] µg/L	02:04:38
1	Ca 317.933Radial†	30464.5	30056.2	[10000] µg/L	02:03:34
1	Cd 226.502†	34333.0	34998.2	[1000] µg/L	02:04:44
1	Co 228.616†	19226.5	19493.4	[1000] µg/L	02:04:44
1	Cr 267.716†	39613.0	40149.1	[1000] µg/L	02:04:44
1	Cu 324.752†	140694.3	140213.6	[1000] µg/L	02:04:44
1	Fe 238.204 Radial†	1524.6	1495.3	[10000] µg/L	02:03:34
1	K 766.490 Radial†	16993.8	16790.0	[10000] µg/L	02:03:14
1	Mg 279.077 IEC†	1082.0	1071.5	[10000] µg/L	02:03:34
1	Mn 257.610†	276140.6	280936.1	[1000] µg/L	02:04:44
1	Mo 202.031†	8876.1	9009.3	[1000] µg/L	02:05:04
1	Na 589.592 Radial†	33443.4	33214.5	[10000] µg/L	02:03:14
1	Ni 231.604†	14793.6	14724.3	[1000] µg/L	02:05:04
1	P 214.914†	2595.8	2394.2	[5000] µg/L	02:05:04
1	Pb 220.353†	3209.3	3223.6	[1000] µg/L	02:05:04
1	S 181.975 Axial†	531.3	518.8	[2000] µg/L	02:05:04
1	Sb 206.836†	957.2	952.6	[1000] µg/L	02:05:04
1	Se 196.026†	825.1	823.4	[1000] µg/L	02:05:04
1	SiO2†	49745.7	49101.3	[10695] µg/L	02:04:44
1	Si 251.611†	60664.3	61207.2	[5000] µg/L	02:04:44
1	Sn 189.927†	2183.7	2216.1	[1000] µg/L	02:05:04
1	Sr 421.552†	239879.3	240377.1	[1000] µg/L	02:03:14
1	Ti 334.940†	366946.6	372559.2	[1000] µg/L	02:04:38
1	Tl 190.801†	832.9	872.1	[1000] µg/L	02:05:04
1	U 409.014†	10291.0	10304.0	[1000] µg/L	02:04:44
1	V 292.402†	78869.4	80218.9	[1000] µg/L	02:04:44
1	Zn 213.857†	37626.6	37590.8	[1000] µg/L	02:04:44
2	Sc 361.383	1685296.5	1685296.5	101.43 %	02:05:11
2	Sc RADIAL	110040.4	110040.4	99.5 %	02:03:40
2	Y 371.029	950881.7	950881.7	101.46 %	02:05:11
2	Ag 328.068†	107528.5	106531.6	[1000] µg/L	02:05:17
2	Al 396.153Radial†	19403.5	19574.1	[10000] µg/L	02:03:40
2	As 188.979†	537.0	537.1	[1000] µg/L	02:05:37
2	B 249.677†	18480.1	18053.0	[1000] µg/L	02:05:17
2	Ba 233.527†	37610.6	37091.0	[1000] µg/L	02:05:17
2	Be 313.107†	1355908.1	1338482.0	[1000] µg/L	02:05:11
2	Ca 317.933Radial†	30648.0	30316.8	[10000] µg/L	02:04:00
2	Cd 226.502†	33436.8	33106.6	[1000] µg/L	02:05:17
2	Co 228.616†	18758.8	18467.7	[1000] µg/L	02:05:17
2	Cr 267.716†	38594.8	37982.2	[1000] µg/L	02:05:17
2	Cu 324.752†	137491.9	132925.3	[1000] µg/L	02:05:17
2	Fe 238.204 Radial†	1535.2	1509.8	[10000] µg/L	02:04:00
2	K 766.490 Radial†	16977.1	16815.8	[10000] µg/L	02:03:40
2	Mg 279.077 IEC†	1083.5	1075.7	[10000] µg/L	02:04:00
2	Mn 257.610†	269503.2	266284.1	[1000] µg/L	02:05:17
2	Mo 202.031†	8656.2	8531.9	[1000] µg/L	02:05:37
2	Na 589.592 Radial†	33328.5	33182.7	[10000] µg/L	02:03:40
2	Ni 231.604†	14443.3	13944.6	[1000] µg/L	02:05:37
2	P 214.914†	2531.5	2254.6	[5000] µg/L	02:05:37
2	Pb 220.353†	3149.7	3070.6	[1000] µg/L	02:05:37

2	S 181.975 Axial†	519.8	491.9	[2000]	µg/L	02:05:37
2	Sb 206.836†	931.4	899.1	[1000]	µg/L	02:05:37
2	Se 196.026†	806.9	781.1	[1000]	µg/L	02:05:37
2	SiO2†	48896.1	46803.0	[10695]	µg/L	02:05:17
2	Si 251.611†	59564.4	58341.6	[5000]	µg/L	02:05:17
2	Sn 189.927†	2126.5	2095.5	[1000]	µg/L	02:05:37
2	Sr 421.552†	238943.0	240036.3	[1000]	µg/L	02:03:40
2	Ti 334.940†	361018.4	355940.1	[1000]	µg/L	02:05:11
2	Tl 190.801†	813.2	828.3	[1000]	µg/L	02:05:37
2	U 409.014†	10048.8	9763.0	[1000]	µg/L	02:05:17
2	V 292.402†	77083.8	76142.6	[1000]	µg/L	02:05:17
2	Zn 213.857†	36824.0	35694.7	[1000]	µg/L	02:05:17
3	Sc 361.383	1681129.1	1681129.1	101.18	%	02:05:44
3	Sc RADIAL	109840.1	109840.1	99.3	%	02:04:06
3	Y 371.029	943900.7	943900.7	100.71	%	02:05:44
3	Ag 328.068†	100702.7	100048.0	[1000]	µg/L	02:05:50
3	Al 396.153Radial†	19437.5	19643.9	[10000]	µg/L	02:04:06
3	As 188.979†	444.1	446.6	[1000]	µg/L	02:06:10
3	B 249.677†	17155.8	16789.2	[1000]	µg/L	02:05:50
3	Ba 233.527†	34080.6	33694.1	[1000]	µg/L	02:05:50
3	Be 313.107†	1256725.2	1243767.2	[1000]	µg/L	02:05:44
3	Ca 317.933Radial†	30691.8	30417.1	[10000]	µg/L	02:04:26
3	Cd 226.502†	30139.3	29929.1	[1000]	µg/L	02:05:50
3	Co 228.616†	16745.2	16523.5	[1000]	µg/L	02:05:50
3	Cr 267.716†	33566.1	33106.3	[1000]	µg/L	02:05:50
3	Cu 324.752†	123858.3	119786.3	[1000]	µg/L	02:05:50
3	Fe 238.204 Radial†	1534.4	1511.7	[10000]	µg/L	02:04:26
3	K 766.490 Radial†	16941.0	16810.5	[10000]	µg/L	02:04:06
3	Mg 279.077 IEC†	1084.7	1078.9	[10000]	µg/L	02:04:26
3	Mn 257.610†	240651.1	238426.4	[1000]	µg/L	02:05:50
3	Mo 202.031†	7145.0	7059.4	[1000]	µg/L	02:06:10
3	Na 589.592 Radial†	33375.9	33291.5	[10000]	µg/L	02:04:06
3	Ni 231.604†	11966.3	11531.7	[1000]	µg/L	02:06:10
3	P 214.914†	2166.4	1899.9	[5000]	µg/L	02:06:10
3	Pb 220.353†	2694.6	2628.5	[1000]	µg/L	02:06:10
3	S 181.975 Axial†	442.9	417.2	[2000]	µg/L	02:06:10
3	Sb 206.836†	794.1	765.7	[1000]	µg/L	02:06:10
3	Se 196.026†	705.0	682.5	[1000]	µg/L	02:06:10
3	SiO2†	45048.1	43119.3	[10695]	µg/L	02:05:50
3	Si 251.611†	54841.1	53818.8	[5000]	µg/L	02:05:50
3	Sn 189.927†	1735.4	1714.2	[1000]	µg/L	02:06:10
3	Sr 421.552†	238263.8	239790.2	[1000]	µg/L	02:04:06
3	Ti 334.940†	333363.0	329488.9	[1000]	µg/L	02:05:44
3	Tl 190.801†	719.2	737.3	[1000]	µg/L	02:06:10
3	U 409.014†	8949.7	8701.3	[1000]	µg/L	02:05:50
3	V 292.402†	68249.7	67599.7	[1000]	µg/L	02:05:50
3	Zn 213.857†	33035.3	32040.0	[1000]	µg/L	02:05:50

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1667661.0	27017.04	1.62%	100.37	%
Sc RADIAL	110065.2	238.43	0.22%	99.5	%
Y 371.029	939614.6	13914.43	1.48%	100.25	%
Ag 328.068†	106149.3	5919.48	5.58%	[1000]	µg/L
Al 396.153Radial†	19629.6	49.99	0.25%	[10000]	µg/L
As 188.979†	514.3	59.68	11.60%	[1000]	µg/L
B 249.677†	17953.0	1117.15	6.22%	[1000]	µg/L
Ba 233.527†	36652.1	2764.73	7.54%	[1000]	µg/L
Be 313.107†	1327706.6	79104.04	5.96%	[1000]	µg/L
Ca 317.933Radial†	30263.4	186.29	0.62%	[10000]	µg/L
Cd 226.502†	32678.0	2561.57	7.84%	[1000]	µg/L
Co 228.616†	18161.5	1508.46	8.31%	[1000]	µg/L
Cr 267.716†	37079.2	3607.19	9.73%	[1000]	µg/L
Cu 324.752†	130975.1	10352.34	7.90%	[1000]	µg/L
Fe 238.204 Radial†	1505.6	8.99	0.60%	[10000]	µg/L
K 766.490 Radial†	16805.5	13.64	0.08%	[10000]	µg/L
Mg 279.077 IEC†	1075.4	3.72	0.35%	[10000]	µg/L
Mn 257.610†	261882.2	21594.02	8.25%	[1000]	µg/L
Mo 202.031†	8200.2	1016.39	12.39%	[1000]	µg/L

Na 589.592 Radial†	33229.6	55.96	0.17%	[10000]	µg/L
Ni 231.604†	13400.2	1664.46	12.42%	[1000]	µg/L
P 214.914†	2182.9	254.82	11.67%	[5000]	µg/L
Pb 220.353†	2974.2	309.05	10.39%	[1000]	µg/L
S 181.975 Axial†	476.0	52.67	11.06%	[2000]	µg/L
Sb 206.836†	872.5	96.24	11.03%	[1000]	µg/L
Se 196.026†	762.3	72.32	9.49%	[1000]	µg/L
SiO2†	46341.2	3017.61	6.51%	[10695]	µg/L
Si 251.611†	57789.2	3725.04	6.45%	[5000]	µg/L
Sn 189.927†	2008.6	261.98	13.04%	[1000]	µg/L
Sr 421.552†	240067.9	294.69	0.12%	[1000]	µg/L
Ti 334.940†	352662.7	21721.39	6.16%	[1000]	µg/L
Tl 190.801†	812.6	68.77	8.46%	[1000]	µg/L
U 409.014†	9589.5	815.30	8.50%	[1000]	µg/L
V 292.402†	74653.7	6439.99	8.63%	[1000]	µg/L
Zn 213.857†	35108.5	2821.42	8.04%	[1000]	µg/L

Sequence No.: 5
 Sample ID: S10
 Analyst:
 Logged In Analyst (Original) : optima
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 2/26/2010 02:06:20
 Data Type: Reprocessed on 2/26/2010 03:28:27

Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc 361.383	1683137.1	1683137.1	101.30 %		02:08:17
1	Sc RADIAL	111356.0	111356.0	101 %		02:06:53
1	Y 371.029	945311.4	945311.4	100.86 %		02:08:17
1	Al 396.153Radial†	94700.6	94136.4	[50000] µg/L		02:06:53
1	Ca 317.933Radial†	147684.2	146205.2	[50000] µg/L		02:06:53
1	Fe 238.204 Radial†	2891.7	2838.9	[20000] µg/L		02:07:13
1	Mg 279.077 IEC†	5052.3	5005.0	[50000] µg/L		02:07:13
1	Na 589.592 Radial†	65031.9	64277.9	[20000] µg/L		02:06:53
2	Sc 361.383	1674367.6	1674367.6	100.77 %		02:08:25
2	Sc RADIAL	110163.8	110163.8	99.6 %		02:07:19
2	Y 371.029	937486.2	937486.2	100.03 %		02:08:25
2	Al 396.153Radial†	93449.3	93898.0	[50000] µg/L		02:07:19
2	Ca 317.933Radial†	145292.1	145390.8	[50000] µg/L		02:07:19
2	Fe 238.204 Radial†	2898.4	2876.7	[20000] µg/L		02:07:39
2	Mg 279.077 IEC†	5048.7	5055.7	[50000] µg/L		02:07:39
2	Na 589.592 Radial†	64256.2	64198.1	[20000] µg/L		02:07:19
3	Sc 361.383	1681027.0	1681027.0	101.17 %		02:08:33
3	Sc RADIAL	110400.9	110400.9	99.8 %		02:07:44
3	Y 371.029	937860.0	937860.0	100.07 %		02:08:33
3	Al 396.153Radial†	94527.2	94776.4	[50000] µg/L		02:07:44
3	Ca 317.933Radial†	147169.7	146958.7	[50000] µg/L		02:07:44
3	Fe 238.204 Radial†	2887.7	2859.7	[20000] µg/L		02:08:05
3	Mg 279.077 IEC†	5063.2	5059.4	[50000] µg/L		02:08:05
3	Na 589.592 Radial†	64855.5	64660.0	[20000] µg/L		02:07:44

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	1679510.5	4577.20	0.27%	101.08 %	
Sc RADIAL	110640.2	631.09	0.57%	100 %	
Y 371.029	940219.2	4413.94	0.47%	100.32 %	
Al 396.153Radial†	94270.3	454.24	0.48%	[50000] µg/L	
Ca 317.933Radial†	146184.9	784.13	0.54%	[50000] µg/L	
Fe 238.204 Radial†	2858.5	18.91	0.66%	[20000] µg/L	
Mg 279.077 IEC†	5040.0	30.38	0.60%	[50000] µg/L	
Na 589.592 Radial†	64378.7	246.87	0.38%	[20000] µg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	106.9	0.00000	0.999893	
Al 396.153Radial	3	Lin Thru 0	0.0	1.889	0.00000	0.999963	
As 188.979	3	Lin Thru 0	0.0	0.5210	0.00000	0.999637	
B 249.677	3	Lin Thru 0	0.0	18.08	0.00000	0.999906	
Ba 233.527	3	Lin Thru 0	0.0	36.97	0.00000	0.999860	
Be 313.107	3	Lin Thru 0	0.0	1339	0.00000	0.999871	
Ca 317.933Radial	3	Lin Thru 0	0.0	2.929	0.00000	0.999961	
Cd 226.502	3	Lin Thru 0	0.0	33.00	0.00000	0.999817	
Co 228.616	3	Lin Thru 0	0.0	18.35	0.00000	0.999793	
Cr 267.716	3	Lin Thru 0	0.0	37.40	0.00000	0.999850	
Cu 324.752	3	Lin Thru 0	0.0	132.1	0.00000	0.999844	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.1445	0.00000	0.999777	
K 766.490 Radial	3	Lin Thru 0	0.0	1.683	0.00000	0.999995	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.1011	0.00000	0.999888	
Mn 257.610	3	Lin Thru 0	0.0	264.4	0.00000	0.999817	
Mo 202.031	3	Lin Thru 0	0.0	8.288	0.00000	0.999770	

Na 589.592 Radia	2	Lin Thru 0	0.0	3.240	0.00000	0.999918
Ni 231.604	3	Lin Thru 0	0.0	13.68	0.00000	0.999171
P 214.914	3	Lin Thru 0	0.0	0.4404	0.00000	0.999845
Pb 220.353	3	Lin Thru 0	0.0	3.003	0.00000	0.999812
S 181.975 Axial	3	Lin Thru 0	0.0	0.2410	0.00000	0.999675
Sb 206.836	3	Lin Thru 0	0.0	0.8809	0.00000	0.999812
Se 196.026	3	Lin Thru 0	0.0	0.7727	0.00000	0.999628
SiO2	3	Lin Thru 0	0.0	4.371	0.00000	0.999851
Si 251.611	3	Lin Thru 0	0.0	11.66	0.00000	0.999851
Sn 189.927	3	Lin Thru 0	0.0	2.031	0.00000	0.999739
Sr 421.552	3	Lin Thru 0	0.0	240.4	0.00000	0.999994
Ti 334.940	3	Lin Thru 0	0.0	355.5	0.00000	0.999878
Tl 190.801	3	Lin Thru 0	0.0	0.8194	0.00000	0.999857
U 409.014	3	Lin Thru 0	0.0	9.617	0.00000	0.999965
V 292.402	3	Lin Thru 0	0.0	75.25	0.00000	0.999878
Zn 213.857	3	Lin Thru 0	0.0	35.56	0.00000	0.999682

Sequence No.: 6

Sample ID: ICV

Analyst:

Logged In Analyst (Original) : optima

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 2/26/2010 02:08:42

Data Type: Reprocessed on 2/26/2010 03:29:09

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	1675981.5	1675981.5	100.87 %		02:10:39
1	Sc RADIAL	112318.8	112318.8	102 %		02:09:15
1	Y 371.029	942746.8	942746.8	100.59 %		02:10:39
1	Ag 328.068†	26444.9	26734.7	253.97 µg/L	253.97 ppb	02:10:45
1	Al 396.153Radial†	9613.5	9537.4	5037.5 µg/L	5037.5 ppb	02:09:15
1	As 188.979†	256.5	262.0	501.81 µg/L	501.81 ppb	02:11:05
1	B 249.677†	9676.3	9426.2	519.56 µg/L	519.56 ppb	02:10:45
1	Ba 233.527†	19335.4	19179.1	519.76 µg/L	519.76 ppb	02:10:45
1	Be 313.107†	343569.8	342282.3	255.51 µg/L	255.51 ppb	02:10:39
1	Ca 317.933Radial†	15464.5	14739.4	5031.7 µg/L	5031.7 ppb	02:09:15
1	Cd 226.502†	16784.8	16781.0	508.52 µg/L	508.52 ppb	02:10:45
1	Co 228.616†	9695.4	9585.1	521.79 µg/L	521.79 ppb	02:10:45
1	Cr 267.716†	19211.1	18976.7	507.68 µg/L	507.68 ppb	02:10:45
1	Cu 324.752†	71901.3	68652.4	520.63 µg/L	520.63 ppb	02:10:45
1	Fe 238.204 Radial†	770.2	725.0	5030.4 µg/L	5030.4 ppb	02:09:36
1	K 766.490 Radial†	4330.0	4014.9	2385.1 µg/L	2385.1 ppb	02:09:15
1	Mg 279.077 IEC†	528.0	506.5	5012.1 µg/L	5012.1 ppb	02:09:36
1	Mn 257.610†	134570.7	133989.1	506.70 µg/L	506.70 ppb	02:10:45
1	Mo 202.031†	4600.6	4558.6	550.24 µg/L	550.24 ppb	02:11:05
1	Na 589.592 Radial†	8217.8	7774.4	2399.7 µg/L	2399.7 ppb	02:09:15
1	Ni 231.604†	7359.2	7000.6	511.03 µg/L	511.03 ppb	02:11:05
1	P 214.914†	1412.4	1159.0	2582.2 µg/L	2582.2 ppb	02:11:05
1	Pb 220.353†	1609.0	1560.3	519.82 µg/L	519.82 ppb	02:11:05
1	S 181.975 Axial†	637.0	611.0	2535.0 µg/L	2535.0 ppb	02:11:05
1	Sb 206.836†	470.3	447.1	510.69 µg/L	510.69 ppb	02:11:05
1	Se 196.026†	2019.7	1988.0	2585.7 µg/L	2585.7 ppb	02:11:05
1	SiO2†	45992.1	44191.9	10109 µg/L	10109 ppb	02:10:45
1	Si 251.611†	55943.6	55078.3	4723.5 µg/L	4723.5 ppb	02:10:45
1	Sn 189.927†	1132.8	1122.0	552.74 µg/L	552.74 ppb	02:11:05
1	Sr 421.552†	123383.7	121362.9	504.77 µg/L	504.77 ppb	02:09:15
1	Ti 334.940†	175959.3	174451.2	490.42 µg/L	490.42 ppb	02:10:39
1	Tl 190.801†	407.8	430.8	530.64 µg/L	530.64 ppb	02:11:05
1	U 409.014†	4722.1	4537.2	470.76 µg/L	470.76 ppb	02:10:45
1	V 292.402†	38162.9	37978.9	510.81 µg/L	510.81 ppb	02:10:45
1	Zn 213.857†	18483.1	17713.3	494.51 µg/L	494.51 ppb	02:10:45
2	Sc 361.383	1659386.0	1659386.0	99.869 %		02:11:12
2	Sc RADIAL	111289.5	111289.5	101 %		02:09:41
2	Y 371.029	931443.3	931443.3	99.381 %		02:11:12
2	Ag 328.068†	26718.1	27270.5	259.05 µg/L	259.05 ppb	02:11:18
2	Al 396.153Radial†	9569.1	9580.9	5060.4 µg/L	5060.4 ppb	02:09:41
2	As 188.979†	251.1	259.0	496.15 µg/L	496.15 ppb	02:11:38
2	B 249.677†	9723.6	9569.5	527.49 µg/L	527.49 ppb	02:11:18
2	Ba 233.527†	19488.2	19523.9	529.10 µg/L	529.10 ppb	02:11:18
2	Be 313.107†	342077.6	344194.6	256.94 µg/L	256.94 ppb	02:11:12
2	Ca 317.933Radial†	15354.0	14770.4	5042.3 µg/L	5042.3 ppb	02:09:41
2	Cd 226.502†	16873.9	17036.6	516.27 µg/L	516.27 ppb	02:11:18
2	Co 228.616†	9809.8	9795.8	533.27 µg/L	533.27 ppb	02:11:18
2	Cr 267.716†	19322.5	19278.7	515.76 µg/L	515.76 ppb	02:11:18
2	Cu 324.752†	72444.5	69909.1	530.15 µg/L	530.15 ppb	02:11:18
2	Fe 238.204 Radial†	768.4	730.3	5067.2 µg/L	5067.2 ppb	02:10:02
2	K 766.490 Radial†	4396.4	4120.3	2447.8 µg/L	2447.8 ppb	02:09:41
2	Mg 279.077 IEC†	528.5	511.9	5065.2 µg/L	5065.2 ppb	02:10:02
2	Mn 257.610†	135597.6	136351.6	515.63 µg/L	515.63 ppb	02:11:18
2	Mo 202.031†	4585.4	4589.0	553.91 µg/L	553.91 ppb	02:11:38
2	Na 589.592 Radial†	8247.4	7878.7	2431.9 µg/L	2431.9 ppb	02:09:41
2	Ni 231.604†	7350.4	7064.7	515.70 µg/L	515.70 ppb	02:11:38
2	P 214.914†	1397.6	1158.1	2579.3 µg/L	2579.3 ppb	02:11:38
2	Pb 220.353†	1611.0	1578.3	525.79 µg/L	525.79 ppb	02:11:38

2	S 181.975 Axial†	636.7	617.0	2559.8 µg/L	2559.8 ppb	02:11:38
2	Sb 206.836†	472.5	454.0	518.47 µg/L	518.47 ppb	02:11:38
2	Se 196.026†	2018.5	2006.8	2610.0 µg/L	2610.0 ppb	02:11:38
2	SiO2†	46398.1	45054.4	10307 µg/L	10307 ppb	02:11:18
2	Si 251.611†	56515.4	56205.5	4820.2 µg/L	4820.2 ppb	02:11:18
2	Sn 189.927†	1126.3	1126.7	555.08 µg/L	555.08 ppb	02:11:38
2	Sr 421.552†	122909.0	122014.9	507.48 µg/L	507.48 ppb	02:09:41
2	Ti 334.940†	175555.4	175791.4	494.19 µg/L	494.19 ppb	02:11:12
2	Tl 190.801†	410.8	437.9	539.35 µg/L	539.35 ppb	02:11:38
2	U 409.014†	4859.2	4721.4	489.91 µg/L	489.91 ppb	02:11:18
2	V 292.402†	38454.5	38649.3	519.79 µg/L	519.79 ppb	02:11:18
2	Zn 213.857†	18643.3	18057.0	504.14 µg/L	504.14 ppb	02:11:18
3	Sc 361.383	1664039.0	1664039.0	100.15 %		02:11:45
3	Sc RADIAL	112141.7	112141.7	101 %		02:10:08
3	Y 371.029	936129.5	936129.5	99.881 %		02:11:45
3	Ag 328.068†	25876.5	26355.3	250.26 µg/L	250.26 ppb	02:11:51
3	Al 396.153Radial†	9619.7	9558.4	5049.9 µg/L	5049.9 ppb	02:10:08
3	As 188.979†	227.7	235.1	450.23 µg/L	450.23 ppb	02:12:11
3	B 249.677†	9387.5	9206.6	507.39 µg/L	507.39 ppb	02:11:51
3	Ba 233.527†	18557.2	18539.7	502.41 µg/L	502.41 ppb	02:11:51
3	Be 313.107†	333314.3	334486.6	249.69 µg/L	249.69 ppb	02:11:45
3	Ca 317.933Radial†	15476.1	14774.9	5043.8 µg/L	5043.8 ppb	02:10:08
3	Cd 226.502†	16013.4	16130.2	488.75 µg/L	488.75 ppb	02:11:51
3	Co 228.616†	9250.3	9209.6	501.30 µg/L	501.30 ppb	02:11:51
3	Cr 267.716†	17953.1	17857.3	477.74 µg/L	477.74 ppb	02:11:51
3	Cu 324.752†	68669.0	65936.5	500.07 µg/L	500.07 ppb	02:11:51
3	Fe 238.204 Radial†	765.5	721.7	5006.5 µg/L	5006.5 ppb	02:10:28
3	K 766.490 Radial†	4358.5	4049.8	2405.9 µg/L	2405.9 ppb	02:10:08
3	Mg 279.077 IEC†	525.5	504.9	4995.0 µg/L	4995.0 ppb	02:10:28
3	Mn 257.610†	128062.6	128448.2	485.74 µg/L	485.74 ppb	02:11:51
3	Mo 202.031†	4074.2	4065.8	490.77 µg/L	490.77 ppb	02:12:11
3	Na 589.592 Radial†	8263.2	7832.0	2417.5 µg/L	2417.5 ppb	02:10:08
3	Ni 231.604†	6572.0	6266.9	457.44 µg/L	457.44 ppb	02:12:11
3	P 214.914†	1282.1	1038.9	2310.7 µg/L	2310.7 ppb	02:12:11
3	Pb 220.353†	1472.3	1435.3	478.08 µg/L	478.08 ppb	02:12:11
3	S 181.975 Axial†	586.4	564.9	2343.8 µg/L	2343.8 ppb	02:12:11
3	Sb 206.836†	427.6	407.8	465.48 µg/L	465.48 ppb	02:12:11
3	Se 196.026†	1867.5	1850.4	2407.5 µg/L	2407.5 ppb	02:12:11
3	SiO2†	44686.9	43216.0	9886.1 µg/L	9886.1 ppb	02:11:51
3	Si 251.611†	54407.8	53942.8	4626.2 µg/L	4626.2 ppb	02:11:51
3	Sn 189.927†	987.3	984.8	485.18 µg/L	485.18 ppb	02:12:11
3	Sr 421.552†	123908.4	122072.4	507.72 µg/L	507.72 ppb	02:10:08
3	Ti 334.940†	170328.9	170081.2	478.13 µg/L	478.13 ppb	02:11:45
3	Tl 190.801†	384.7	410.6	505.86 µg/L	505.86 ppb	02:12:11
3	U 409.014†	4498.3	4347.4	451.03 µg/L	451.03 ppb	02:11:51
3	V 292.402†	36069.2	36159.9	486.09 µg/L	486.09 ppb	02:11:51
3	Zn 213.857†	17619.6	16982.6	474.23 µg/L	474.23 ppb	02:11:51

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1666468.8	100.30 %	0.515			0.51%
Sc RADIAL	111916.6	101 %	0.5			0.49%
Y 371.029	936773.2	99.950 %	0.6059			0.61%
Ag 328.068†	26786.8	254.43 µg/L	4.410	254.43 ppb	4.410	1.73%
QC value within limits for Ag 328.068 Recovery = 101.77%						
Al 396.153Radial†	9558.9	5049.3 µg/L	11.49	5049.3 ppb	11.49	0.23%
QC value within limits for Al 396.153Radial Recovery = 100.99%						
As 188.979†	252.0	482.73 µg/L	28.284	482.73 ppb	28.284	5.86%
QC value within limits for As 188.979 Recovery = 96.55%						
B 249.677†	9400.8	518.15 µg/L	10.125	518.15 ppb	10.125	1.95%
QC value within limits for B 249.677 Recovery = 103.63%						
Ba 233.527†	19080.9	517.09 µg/L	13.542	517.09 ppb	13.542	2.62%
QC value within limits for Ba 233.527 Recovery = 103.42%						
Be 313.107†	340321.1	254.05 µg/L	3.838	254.05 ppb	3.838	1.51%
QC value within limits for Be 313.107 Recovery = 101.62%						
Ca 317.933Radial†	14761.6	5039.3 µg/L	6.61	5039.3 ppb	6.61	0.13%
QC value within limits for Ca 317.933Radial Recovery = 100.79%						
Cd 226.502†	16649.3	504.51 µg/L	14.192	504.51 ppb	14.192	2.81%
QC value within limits for Cd 226.502 Recovery = 100.90%						

Co 228.616†	9530.2	518.79 µg/L	16.192	518.79 ppb	16.192	3.12%
QC value within limits for Co 228.616 Recovery = 103.76%						
Cr 267.716†	18704.2	500.39 µg/L	20.033	500.39 ppb	20.033	4.00%
QC value within limits for Cr 267.716 Recovery = 100.08%						
Cu 324.752†	68166.0	516.95 µg/L	15.376	516.95 ppb	15.376	2.97%
QC value within limits for Cu 324.752 Recovery = 103.39%						
Fe 238.204 Radial†	725.7	5034.7 µg/L	30.58	5034.7 ppb	30.58	0.61%
QC value within limits for Fe 238.204 Radial Recovery = 100.69%						
K 766.490 Radial†	4061.7	2412.9 µg/L	31.91	2412.9 ppb	31.91	1.32%
QC value within limits for K 766.490 Radial Recovery = 96.52%						
Mg 279.077 IEC†	507.8	5024.1 µg/L	36.60	5024.1 ppb	36.60	0.73%
QC value within limits for Mg 279.077 IEC Recovery = 100.48%						
Mn 257.610†	132929.6	502.69 µg/L	15.342	502.69 ppb	15.342	3.05%
QC value within limits for Mn 257.610 Recovery = 100.54%						
Mo 202.031†	4404.5	531.64 µg/L	35.442	531.64 ppb	35.442	6.67%
QC value within limits for Mo 202.031 Recovery = 106.33%						
Na 589.592 Radial†	7828.4	2416.4 µg/L	16.12	2416.4 ppb	16.12	0.67%
QC value within limits for Na 589.592 Radial Recovery = 96.65%						
Ni 231.604†	6777.4	494.73 µg/L	32.375	494.73 ppb	32.375	6.54%
QC value within limits for Ni 231.604 Recovery = 98.95%						
P 214.914†	1118.6	2490.7 µg/L	155.94	2490.7 ppb	155.94	6.26%
QC value within limits for P 214.914 Recovery = 99.63%						
Pb 220.353†	1524.6	507.90 µg/L	25.998	507.90 ppb	25.998	5.12%
QC value within limits for Pb 220.353 Recovery = 101.58%						
S 181.975 Axial†	597.6	2479.5 µg/L	118.21	2479.5 ppb	118.21	4.77%
QC value within limits for S 181.975 Axial Recovery = 99.18%						
Sb 206.836†	436.3	498.22 µg/L	28.614	498.22 ppb	28.614	5.74%
QC value within limits for Sb 206.836 Recovery = 99.64%						
Se 196.026†	1948.4	2534.4 µg/L	110.56	2534.4 ppb	110.56	4.36%
QC value within limits for Se 196.026 Recovery = 101.38%						
SiO2†	44154.1	10101 µg/L	210.4	10101 ppb	210.4	2.08%
QC value within limits for SiO2 Recovery = 94.44%						
Si 251.611†	55075.6	4723.3 µg/L	97.03	4723.3 ppb	97.03	2.05%
QC value within limits for Si 251.611 Recovery = 94.47%						
Sn 189.927†	1077.8	531.00 µg/L	39.697	531.00 ppb	39.697	7.48%
QC value within limits for Sn 189.927 Recovery = 106.20%						
Sr 421.552†	121816.7	506.65 µg/L	1.639	506.65 ppb	1.639	0.32%
QC value within limits for Sr 421.552 Recovery = 101.33%						
Ti 334.940†	173441.3	487.58 µg/L	8.397	487.58 ppb	8.397	1.72%
QC value within limits for Ti 334.940 Recovery = 97.52%						
Tl 190.801†	426.4	525.28 µg/L	17.378	525.28 ppb	17.378	3.31%
QC value within limits for Tl 190.801 Recovery = 105.06%						
U 409.014†	4535.3	470.57 µg/L	19.440	470.57 ppb	19.440	4.13%
QC value within limits for U 409.014 Recovery = 94.11%						
V 292.402†	37596.0	505.56 µg/L	17.452	505.56 ppb	17.452	3.45%
QC value within limits for V 292.402 Recovery = 101.11%						
Zn 213.857†	17584.3	490.96 µg/L	15.264	490.96 ppb	15.264	3.11%
QC value within limits for Zn 213.857 Recovery = 98.19%						
All analyte(s) passed QC.						

Sequence No.: 7
 Sample ID: ICB
 Analyst:
 Logged In Analyst (Original) : optima
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 2/26/2010 02:12:21
 Data Type: Reprocessed on 2/26/2010 03:29:57
 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	1645072.0	1645072.0	99.007 %		02:14:16
1	Sc RADIAL	106904.6	106904.6	96.6 %		02:12:53
1	Y 371.029	926696.7	926696.7	98.875 %		02:14:16
1	Ag 328.068†	-495.8	16.6	0.1555 µg/L	0.1555 ppb	02:14:21
1	Al 396.153Radial†	-130.0	-64.4	-34.102 µg/L	-34.102 ppb	02:12:53
1	As 188.979†	-10.3	-2.8	-5.3603 µg/L	-5.3603 ppb	02:14:42
1	B 249.677†	185.4	20.3	1.1229 µg/L	1.1229 ppb	02:14:42
1	Ba 233.527†	-4.2	5.9	0.1595 µg/L	0.1595 ppb	02:14:42
1	Be 313.107†	-1616.6	35.2	0.0262 µg/L	0.0262 ppb	02:14:21
1	Ca 317.933Radial†	399.5	-76.5	-26.105 µg/L	-26.105 ppb	02:13:14
1	Cd 226.502†	-145.2	-6.0	-0.1825 µg/L	-0.1825 ppb	02:14:42
1	Co 228.616†	28.1	1.5	0.0831 µg/L	0.0831 ppb	02:14:42
1	Cr 267.716†	87.3	19.0	0.5090 µg/L	0.5090 ppb	02:14:21
1	Cu 324.752†	2613.1	8.9	0.0681 µg/L	0.0681 ppb	02:14:21
1	Fe 238.204 Radial†	33.0	0.7	5.1878 µg/L	5.1878 ppb	02:13:14
1	K 766.490 Radial†	269.6	29.7	17.660 µg/L	17.660 ppb	02:12:53
1	Mg 279.077 IEC†	15.4	2.5	24.597 µg/L	24.597 ppb	02:13:14
1	Mn 257.610†	-534.1	36.7	0.1373 µg/L	0.1373 ppb	02:14:42
1	Mo 202.031†	16.3	14.0	1.6938 µg/L	1.6938 ppb	02:14:42
1	Na 589.592 Radial†	295.1	-13.0	-4.0165 µg/L	-4.0165 ppb	02:12:53
1	Ni 231.604†	307.7	15.5	1.1321 µg/L	1.1321 ppb	02:14:42
1	P 214.914†	239.6	0.7	1.5301 µg/L	1.5301 ppb	02:14:42
1	Pb 220.353†	32.7	-1.8	-0.6043 µg/L	-0.6043 ppb	02:14:42
1	S 181.975 Axial†	25.0	4.7	19.432 µg/L	19.432 ppb	02:14:42
1	Sb 206.836†	22.4	3.5	3.9958 µg/L	3.9958 ppb	02:14:42
1	Se 196.026†	16.2	2.0	2.6419 µg/L	2.6419 ppb	02:14:42
1	SiO2†	1424.4	34.1	7.8035 µg/L	7.8035 ppb	02:14:21
1	Si 251.611†	417.9	38.0	3.2602 µg/L	3.2602 ppb	02:14:42
1	Sn 189.927†	5.4	4.5	2.2001 µg/L	2.2001 ppb	02:14:42
1	Sr 421.552†	190.7	53.6	0.2228 µg/L	0.2228 ppb	02:12:53
1	Ti 334.940†	74.4	80.8	0.2248 µg/L	0.2248 ppb	02:14:21
1	Tl 190.801†	-26.2	0.1	0.1298 µg/L	0.1298 ppb	02:14:42
1	U 409.014†	216.7	74.6	7.7621 µg/L	7.7621 ppb	02:14:21
1	V 292.402†	-141.9	1.0	0.0361 µg/L	0.0361 ppb	02:14:21
1	Zn 213.857†	581.8	-23.1	-0.6569 µg/L	-0.6569 ppb	02:14:42
2	Sc 361.383	1635703.9	1635703.9	98.444 %		02:14:48
2	Sc RADIAL	107647.1	107647.1	97.3 %		02:13:19
2	Y 371.029	924809.8	924809.8	98.674 %		02:14:48
2	Ag 328.068†	-495.9	13.5	0.1266 µg/L	0.1266 ppb	02:14:53
2	Al 396.153Radial†	-107.6	-40.4	-21.406 µg/L	-21.406 ppb	02:13:19
2	As 188.979†	-2.0	5.6	10.734 µg/L	10.734 ppb	02:15:14
2	B 249.677†	183.1	19.1	1.0652 µg/L	1.0652 ppb	02:15:14
2	Ba 233.527†	-16.1	-6.3	-0.1698 µg/L	-0.1698 ppb	02:15:14
2	Be 313.107†	-1518.3	125.7	0.0938 µg/L	0.0938 ppb	02:14:53
2	Ca 317.933Radial†	407.9	-70.7	-24.143 µg/L	-24.143 ppb	02:13:39
2	Cd 226.502†	-130.6	8.0	0.2441 µg/L	0.2441 ppb	02:15:14
2	Co 228.616†	27.2	0.8	0.0422 µg/L	0.0422 ppb	02:15:14
2	Cr 267.716†	101.0	33.4	0.8942 µg/L	0.8942 ppb	02:14:53
2	Cu 324.752†	2632.7	43.9	0.3308 µg/L	0.3308 ppb	02:14:53
2	Fe 238.204 Radial†	31.3	-1.3	-8.8389 µg/L	-8.8389 ppb	02:13:39
2	K 766.490 Radial†	301.5	60.6	35.995 µg/L	35.995 ppb	02:13:19
2	Mg 279.077 IEC†	12.7	-0.4	-3.7510 µg/L	-3.7510 ppb	02:13:39
2	Mn 257.610†	-498.2	70.0	0.2644 µg/L	0.2644 ppb	02:15:14
2	Mo 202.031†	10.2	8.0	0.9605 µg/L	0.9605 ppb	02:15:14
2	Na 589.592 Radial†	304.8	-5.2	-1.5956 µg/L	-1.5956 ppb	02:13:19
2	Ni 231.604†	307.4	17.0	1.2405 µg/L	1.2405 ppb	02:15:14
2	P 214.914†	239.4	1.9	4.3919 µg/L	4.3919 ppb	02:15:14
2	Pb 220.353†	32.8	-1.5	-0.4922 µg/L	-0.4922 ppb	02:15:14

2	S 181.975 Axial†	22.9	2.7	11.103 µg/L	11.103 ppb	02:15:14
2	Sb 206.836†	24.1	5.3	6.0301 µg/L	6.0301 ppb	02:15:14
2	Se 196.026†	15.1	1.0	1.2206 µg/L	1.2206 ppb	02:15:14
2	SiO2†	1438.5	56.8	12.986 µg/L	12.986 ppb	02:14:53
2	Si 251.611†	405.0	27.4	2.3476 µg/L	2.3476 ppb	02:15:14
2	Sn 189.927†	8.9	8.0	3.9586 µg/L	3.9586 ppb	02:15:14
2	Sr 421.552†	193.9	55.4	0.2305 µg/L	0.2305 ppb	02:13:19
2	Ti 334.940†	86.9	93.9	0.2640 µg/L	0.2640 ppb	02:14:53
2	Tl 190.801†	-20.0	6.2	7.5991 µg/L	7.5991 ppb	02:15:14
2	U 409.014†	167.9	26.3	2.7405 µg/L	2.7405 ppb	02:14:53
2	V 292.402†	-129.0	13.3	0.1887 µg/L	0.1887 ppb	02:14:53
2	Zn 213.857†	592.1	-9.3	-0.2676 µg/L	-0.2676 ppb	02:15:14
3	Sc 361.383	1646392.9	1646392.9	99.087 %		02:15:20
3	Sc RADIAL	108026.5	108026.5	97.7 %		02:13:45
3	Y 371.029	926937.9	926937.9	98.901 %		02:15:20
3	Ag 328.068†	-423.6	89.8	0.8417 µg/L	0.8417 ppb	02:15:25
3	Al 396.153Radial†	-137.6	-70.8	-37.477 µg/L	-37.477 ppb	02:13:45
3	As 188.979†	-5.6	2.0	3.8310 µg/L	3.8310 ppb	02:15:46
3	B 249.677†	183.8	18.6	1.0261 µg/L	1.0261 ppb	02:15:46
3	Ba 233.527†	-6.7	3.4	0.0922 µg/L	0.0922 ppb	02:15:46
3	Be 313.107†	-1500.7	153.5	0.1145 µg/L	0.1145 ppb	02:15:25
3	Ca 317.933Radial†	411.3	-68.7	-23.436 µg/L	-23.436 ppb	02:14:05
3	Cd 226.502†	-137.6	1.8	0.0542 µg/L	0.0542 ppb	02:15:46
3	Co 228.616†	27.7	1.0	0.0569 µg/L	0.0569 ppb	02:15:46
3	Cr 267.716†	102.5	34.3	0.9165 µg/L	0.9165 ppb	02:15:25
3	Cu 324.752†	2609.0	2.7	0.0214 µg/L	0.0214 ppb	02:15:25
3	Fe 238.204 Radial†	33.6	1.0	6.9022 µg/L	6.9022 ppb	02:14:05
3	K 766.490 Radial†	311.7	69.9	41.552 µg/L	41.552 ppb	02:13:45
3	Mg 279.077 IEC†	7.5	-5.7	-56.819 µg/L	-56.819 ppb	02:14:05
3	Mn 257.610†	-484.2	87.4	0.3347 µg/L	0.3347 ppb	02:15:46
3	Mo 202.031†	10.5	8.2	0.9926 µg/L	0.9926 ppb	02:15:46
3	Na 589.592 Radial†	311.0	0.1	0.0156 µg/L	0.0156 ppb	02:13:45
3	Ni 231.604†	314.0	21.6	1.5799 µg/L	1.5799 ppb	02:15:46
3	P 214.914†	235.3	-3.8	-8.6756 µg/L	-8.6756 ppb	02:15:46
3	Pb 220.353†	39.7	5.3	1.7655 µg/L	1.7655 ppb	02:15:46
3	S 181.975 Axial†	22.9	2.6	10.639 µg/L	10.639 ppb	02:15:46
3	Sb 206.836†	19.2	0.2	0.1938 µg/L	0.1938 ppb	02:15:46
3	Se 196.026†	15.9	1.7	2.2473 µg/L	2.2473 ppb	02:15:46
3	SiO2†	1446.3	55.1	12.616 µg/L	12.616 ppb	02:15:25
3	Si 251.611†	438.5	58.5	5.0130 µg/L	5.0130 ppb	02:15:46
3	Sn 189.927†	3.5	2.5	1.2244 µg/L	1.2244 ppb	02:15:46
3	Sr 421.552†	197.3	58.2	0.2421 µg/L	0.2421 ppb	02:13:45
3	Ti 334.940†	101.6	108.2	0.3085 µg/L	0.3085 ppb	02:15:25
3	Tl 190.801†	-30.6	-4.4	-5.3413 µg/L	-5.3413 ppb	02:15:46
3	U 409.014†	229.6	87.5	9.0958 µg/L	9.0958 ppb	02:15:25
3	V 292.402†	-128.1	15.0	0.2194 µg/L	0.2194 ppb	02:15:25
3	Zn 213.857†	575.7	-29.8	-0.8408 µg/L	-0.8408 ppb	02:15:46

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1642389.6	98.846 %	0.3507			0.35%
Sc RADIAL	107526.0	97.2 %	0.52			0.53%
Y 371.029	926148.1	98.816 %	0.1243			0.13%
Ag 328.068†	40.0	0.3746 µg/L	0.40475	0.3746 ppb	0.40475	108.05%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-58.5	-30.995 µg/L	8.4742	-30.995 ppb	8.4742	27.34%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.6	3.0682 µg/L	8.07422	3.0682 ppb	8.07422	263.16%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	19.4	1.0714 µg/L	0.04869	1.0714 ppb	0.04869	4.54%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.0	0.0273 µg/L	0.17395	0.0273 ppb	0.17395	637.75%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	104.8	0.0782 µg/L	0.04618	0.0782 ppb	0.04618	59.07%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-71.9	-24.562 µg/L	1.3828	-24.562 ppb	1.3828	5.63%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.2	0.0386 µg/L	0.21373	0.0386 ppb	0.21373	553.42%
QC value within limits for Cd 226.502 Recovery = Not calculated						

Co 228.616†	1.1	0.0607 µg/L	0.02072	0.0607 ppb	0.02072	34.11%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	28.9	0.7732 µg/L	0.22911	0.7732 ppb	0.22911	29.63%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	18.5	0.1401 µg/L	0.16682	0.1401 ppb	0.16682	119.09%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.2	1.0837 µg/L	8.63586	1.0837 ppb	8.63586	796.88%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	53.4	31.736 µg/L	12.5025	31.736 ppb	12.5025	39.40%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.2	-11.991 µg/L	41.3291	-11.991 ppb	41.3291	344.67%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	64.7	0.2455 µg/L	0.10005	0.2455 ppb	0.10005	40.76%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	10.1	1.2156 µg/L	0.41438	1.2156 ppb	0.41438	34.09%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-6.0	-1.8655 µg/L	2.02955	-1.8655 ppb	2.02955	108.80%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	18.0	1.3175 µg/L	0.23362	1.3175 ppb	0.23362	17.73%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-0.4	-0.9179 µg/L	6.86907	-0.9179 ppb	6.86907	748.36%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	0.7	0.2230 µg/L	1.33704	0.2230 ppb	1.33704	599.54%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	3.3	13.725 µg/L	4.9483	13.725 ppb	4.9483	36.05%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.0	3.4066 µg/L	2.96242	3.4066 ppb	2.96242	86.96%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.6	2.0366 µg/L	0.73369	2.0366 ppb	0.73369	36.03%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	48.7	11.135 µg/L	2.8913	11.135 ppb	2.8913	25.97%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	41.3	3.5403 µg/L	1.35460	3.5403 ppb	1.35460	38.26%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.0	2.4610 µg/L	1.38561	2.4610 ppb	1.38561	56.30%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	55.7	0.2318 µg/L	0.00973	0.2318 ppb	0.00973	4.20%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	94.3	0.2658 µg/L	0.04186	0.2658 ppb	0.04186	15.75%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.6	0.7959 µg/L	6.49583	0.7959 ppb	6.49583	816.19%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	62.8	6.5328 µg/L	3.35122	6.5328 ppb	3.35122	51.30%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	9.8	0.1481 µg/L	0.09819	0.1481 ppb	0.09819	66.31%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-20.7	-0.5884 µg/L	0.29269	-0.5884 ppb	0.29269	49.74%
QC value within limits for Zn 213.857 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 8

Sample ID: PQL

Analyst:

Logged In Analyst (Original) : optima

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 2/26/2010 02:15:56

Data Type: Reprocessed on 2/26/2010 03:30:39

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 361.383	1638153.3	1638153.3	98.591 %		02:17:51
1	Sc RADIAL	108740.5	108740.5	98.3 %		02:16:28
1	Y 371.029	922286.5	922286.5	98.404 %		02:17:51
1	Ag 328.068†	18.7	536.2	5.0625 µg/L	5.0625 ppb	02:17:56
1	Al 396.153Radial†	278.8	353.8	187.04 µg/L	187.04 ppb	02:16:28
1	As 188.979†	9.4	17.2	33.016 µg/L	33.016 ppb	02:18:17
1	B 249.677†	1120.2	969.4	53.581 µg/L	53.581 ppb	02:17:56
1	Ba 233.527†	180.1	192.8	5.2261 µg/L	5.2261 ppb	02:18:17
1	Be 313.107†	5171.8	6913.7	5.1628 µg/L	5.1628 ppb	02:17:56
1	Ca 317.933Radial†	995.0	522.3	178.29 µg/L	178.29 ppb	02:16:49
1	Cd 226.502†	36.2	177.3	5.3704 µg/L	5.3704 ppb	02:18:17
1	Co 228.616†	109.5	84.2	4.5871 µg/L	4.5871 ppb	02:18:17
1	Cr 267.716†	274.6	209.4	5.6020 µg/L	5.6020 ppb	02:17:56
1	Cu 324.752†	4054.6	1482.1	11.236 µg/L	11.236 ppb	02:17:56
1	Fe 238.204 Radial†	45.0	12.3	85.325 µg/L	85.325 ppb	02:16:49
1	K 766.490 Radial†	528.4	288.3	171.25 µg/L	171.25 ppb	02:16:28
1	Mg 279.077 IEC†	40.7	28.0	276.49 µg/L	276.49 ppb	02:16:49
1	Mn 257.610†	2248.5	2856.7	10.790 µg/L	10.790 ppb	02:17:56
1	Mo 202.031†	93.0	91.9	11.094 µg/L	11.094 ppb	02:18:17
1	Na 589.592 Radial†	1311.4	1015.6	313.48 µg/L	313.48 ppb	02:16:28
1	Ni 231.604†	372.5	82.6	6.0303 µg/L	6.0303 ppb	02:18:17
1	P 214.914†	305.6	68.6	154.84 µg/L	154.84 ppb	02:18:17
1	Pb 220.353†	69.7	35.9	11.914 µg/L	11.914 ppb	02:18:17
1	S 181.975 Axial†	46.7	26.8	111.20 µg/L	111.20 ppb	02:18:17
1	Sb 206.836†	31.6	12.9	14.715 µg/L	14.715 ppb	02:18:17
1	Se 196.026†	39.4	25.6	33.155 µg/L	33.155 ppb	02:18:17
1	SiO2†	2337.0	965.9	220.96 µg/L	220.96 ppb	02:17:56
1	Si 251.611†	1521.2	1158.9	99.391 µg/L	99.391 ppb	02:18:17
1	Sn 189.927†	24.3	23.6	11.651 µg/L	11.651 ppb	02:18:17
1	Sr 421.552†	1321.5	1200.5	4.9931 µg/L	4.9931 ppb	02:16:28
1	Ti 334.940†	1846.4	1878.4	5.2651 µg/L	5.2651 ppb	02:17:56
1	Tl 190.801†	-7.7	18.7	22.967 µg/L	22.967 ppb	02:18:17
1	U 409.014†	746.9	613.4	63.755 µg/L	63.755 ppb	02:17:56
1	V 292.402†	274.6	422.9	5.7877 µg/L	5.7877 ppb	02:17:56
1	Zn 213.857†	937.5	340.2	9.5015 µg/L	9.5015 ppb	02:18:17
2	Sc 361.383	1648442.4	1648442.4	99.210 %		02:18:23
2	Sc RADIAL	108933.3	108933.3	98.5 %		02:16:54
2	Y 371.029	932362.4	932362.4	99.480 %		02:18:23
2	Ag 328.068†	44.3	562.0	5.2979 µg/L	5.2979 ppb	02:18:29
2	Al 396.153Radial†	260.1	334.3	176.73 µg/L	176.73 ppb	02:16:54
2	As 188.979†	7.6	15.3	29.337 µg/L	29.337 ppb	02:18:49
2	B 249.677†	1043.6	885.1	48.913 µg/L	48.913 ppb	02:18:29
2	Ba 233.527†	188.6	200.2	5.4248 µg/L	5.4248 ppb	02:18:49
2	Be 313.107†	5039.2	6747.3	5.0386 µg/L	5.0386 ppb	02:18:29
2	Ca 317.933Radial†	996.6	522.2	178.26 µg/L	178.26 ppb	02:17:15
2	Cd 226.502†	24.9	165.7	5.0163 µg/L	5.0163 ppb	02:18:49
2	Co 228.616†	119.5	93.6	5.0981 µg/L	5.0981 ppb	02:18:49
2	Cr 267.716†	280.3	213.4	5.7088 µg/L	5.7088 ppb	02:18:29
2	Cu 324.752†	4005.7	1407.1	10.669 µg/L	10.669 ppb	02:18:29
2	Fe 238.204 Radial†	46.4	13.7	94.727 µg/L	94.727 ppb	02:17:15
2	K 766.490 Radial†	519.3	278.1	165.19 µg/L	165.19 ppb	02:16:54
2	Mg 279.077 IEC†	43.6	30.9	305.52 µg/L	305.52 ppb	02:17:15
2	Mn 257.610†	2232.0	2825.8	10.672 µg/L	10.672 ppb	02:18:29
2	Mo 202.031†	96.7	95.1	11.477 µg/L	11.477 ppb	02:18:49
2	Na 589.592 Radial†	1266.6	967.7	298.70 µg/L	298.70 ppb	02:16:54
2	Ni 231.604†	368.7	76.3	5.5740 µg/L	5.5740 ppb	02:18:49
2	P 214.914†	299.4	60.5	136.36 µg/L	136.36 ppb	02:18:49
2	Pb 220.353†	60.3	25.9	8.5954 µg/L	8.5954 ppb	02:18:49

2	S 181.975 Axial†	45.1	24.8	103.09 µg/L	103.09 ppb	02:18:49
2	Sb 206.836†	27.3	8.4	9.6216 µg/L	9.6216 ppb	02:18:49
2	Se 196.026†	44.1	30.1	38.995 µg/L	38.995 ppb	02:18:49
2	SiO2†	2296.0	909.8	208.12 µg/L	208.12 ppb	02:18:29
2	Si 251.611†	1511.2	1139.2	97.697 µg/L	97.697 ppb	02:18:49
2	Sn 189.927†	22.7	21.9	10.802 µg/L	10.802 ppb	02:18:49
2	Sr 421.552†	1373.9	1251.3	5.2044 µg/L	5.2044 ppb	02:16:54
2	Ti 334.940†	1788.8	1808.7	5.0667 µg/L	5.0667 ppb	02:18:29
2	Tl 190.801†	-10.1	16.3	20.057 µg/L	20.057 ppb	02:18:49
2	U 409.014†	728.8	590.4	61.365 µg/L	61.365 ppb	02:18:29
2	V 292.402†	204.4	350.4	4.8251 µg/L	4.8251 ppb	02:18:29
2	Zn 213.857†	945.8	342.6	9.5698 µg/L	9.5698 ppb	02:18:49
3	Sc 361.383	1655341.2	1655341.2	99.625 %		02:18:55
3	Sc RADIAL	107648.8	107648.8	97.3 %		02:17:20
3	Y 371.029	937374.4	937374.4	100.01 %		02:18:55
3	Ag 328.068†	-23.9	493.3	4.6567 µg/L	4.6567 ppb	02:19:01
3	Al 396.153Radial†	240.3	317.0	167.64 µg/L	167.64 ppb	02:17:20
3	As 188.979†	12.9	20.6	39.436 µg/L	39.436 ppb	02:19:21
3	B 249.677†	1039.5	876.6	48.431 µg/L	48.431 ppb	02:19:01
3	Ba 233.527†	166.0	176.7	4.7886 µg/L	4.7886 ppb	02:19:21
3	Be 313.107†	4719.4	6405.2	4.7830 µg/L	4.7830 ppb	02:19:01
3	Ca 317.933Radial†	986.0	523.3	178.65 µg/L	178.65 ppb	02:17:41
3	Cd 226.502†	0.2	140.8	4.2594 µg/L	4.2594 ppb	02:19:21
3	Co 228.616†	97.7	71.1	3.8748 µg/L	3.8748 ppb	02:19:21
3	Cr 267.716†	264.4	196.3	5.2505 µg/L	5.2505 ppb	02:19:01
3	Cu 324.752†	3917.3	1301.6	9.8749 µg/L	9.8749 ppb	02:19:01
3	Fe 238.204 Radial†	48.8	16.8	116.07 µg/L	116.07 ppb	02:17:41
3	K 766.490 Radial†	519.0	284.1	168.77 µg/L	168.77 ppb	02:17:20
3	Mg 279.077 IEC†	43.8	31.6	312.73 µg/L	312.73 ppb	02:17:41
3	Mn 257.610†	2154.8	2739.0	10.344 µg/L	10.344 ppb	02:19:01
3	Mo 202.031†	78.3	76.2	9.1968 µg/L	9.1968 ppb	02:19:21
3	Na 589.592 Radial†	1232.2	947.7	292.53 µg/L	292.53 ppb	02:17:20
3	Ni 231.604†	371.7	77.8	5.6797 µg/L	5.6797 ppb	02:19:21
3	P 214.914†	292.0	51.8	116.65 µg/L	116.65 ppb	02:19:21
3	Pb 220.353†	63.8	29.3	9.7139 µg/L	9.7139 ppb	02:19:21
3	S 181.975 Axial†	42.6	22.2	91.909 µg/L	91.909 ppb	02:19:21
3	Sb 206.836†	26.3	7.2	8.2829 µg/L	8.2829 ppb	02:19:21
3	Se 196.026†	40.3	26.1	33.934 µg/L	33.934 ppb	02:19:21
3	SiO2†	2320.9	925.1	211.63 µg/L	211.63 ppb	02:19:01
3	Si 251.611†	1420.3	1041.6	89.324 µg/L	89.324 ppb	02:19:21
3	Sn 189.927†	23.7	22.8	11.259 µg/L	11.259 ppb	02:19:21
3	Sr 421.552†	1343.6	1236.8	5.1440 µg/L	5.1440 ppb	02:17:20
3	Ti 334.940†	1726.1	1738.2	4.8677 µg/L	4.8677 ppb	02:19:01
3	Tl 190.801†	-9.1	17.4	21.323 µg/L	21.323 ppb	02:19:21
3	U 409.014†	654.6	512.8	53.297 µg/L	53.297 ppb	02:19:01
3	V 292.402†	184.0	329.1	4.5156 µg/L	4.5156 ppb	02:19:01
3	Zn 213.857†	893.5	286.1	7.9805 µg/L	7.9805 ppb	02:19:21

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1647312.3	99.142 %	0.5206			0.53%
Sc RADIAL	108440.9	98.0 %	0.63			0.64%
Y 371.029	930674.4	99.299 %	0.8199			0.83%
Ag 328.068†	530.5	5.0057 µg/L	0.32434	5.0057 ppb	0.32434	6.48%
QC value within limits for Ag 328.068 Recovery = 100.11%						
Al 396.153Radial†	335.0	177.14 µg/L	9.709	177.14 ppb	9.709	5.48%
QC value within limits for Al 396.153Radial Recovery = 88.57%						
As 188.979†	17.7	33.929 µg/L	5.1111	33.929 ppb	5.1111	15.06%
QC value within limits for As 188.979 Recovery = 113.10%						
B 249.677†	910.3	50.308 µg/L	2.8442	50.308 ppb	2.8442	5.65%
QC value within limits for B 249.677 Recovery = 100.62%						
Ba 233.527†	189.9	5.1465 µg/L	0.32546	5.1465 ppb	0.32546	6.32%
QC value within limits for Ba 233.527 Recovery = 102.93%						
Be 313.107†	6688.7	4.9948 µg/L	0.19362	4.9948 ppb	0.19362	3.88%
QC value within limits for Be 313.107 Recovery = 99.90%						
Ca 317.933Radial†	522.6	178.40 µg/L	0.221	178.40 ppb	0.221	0.12%
QC value within limits for Ca 317.933Radial Recovery = 89.20%						
Cd 226.502†	161.3	4.8820 µg/L	0.56757	4.8820 ppb	0.56757	11.63%
QC value within limits for Cd 226.502 Recovery = 97.64%						

Co 228.616†	83.0	4.5200 µg/L	0.61441	4.5200 ppb	0.61441	13.59%
QC value within limits for Co 228.616 Recovery = 90.40%						
Cr 267.716†	206.4	5.5204 µg/L	0.23981	5.5204 ppb	0.23981	4.34%
QC value within limits for Cr 267.716 Recovery = 110.41%						
Cu 324.752†	1397.0	10.593 µg/L	0.6836	10.593 ppb	0.6836	6.45%
QC value within limits for Cu 324.752 Recovery = 105.93%						
Fe 238.204 Radial†	14.2	98.706 µg/L	15.7521	98.706 ppb	15.7521	15.96%
QC value within limits for Fe 238.204 Radial Recovery = 98.71%						
K 766.490 Radial†	283.5	168.40 µg/L	3.048	168.40 ppb	3.048	1.81%
QC value within limits for K 766.490 Radial Recovery = 112.27%						
Mg 279.077 IEC†	30.2	298.25 µg/L	19.185	298.25 ppb	19.185	6.43%
QC value within limits for Mg 279.077 IEC Recovery = 99.42%						
Mn 257.610†	2807.2	10.602 µg/L	0.2310	10.602 ppb	0.2310	2.18%
QC value within limits for Mn 257.610 Recovery = 106.02%						
Mo 202.031†	87.7	10.589 µg/L	1.2209	10.589 ppb	1.2209	11.53%
QC value within limits for Mo 202.031 Recovery = 105.89%						
Na 589.592 Radial†	977.0	301.57 µg/L	10.768	301.57 ppb	10.768	3.57%
QC value within limits for Na 589.592 Radial Recovery = 100.52%						
Ni 231.604†	78.9	5.7614 µg/L	0.23882	5.7614 ppb	0.23882	4.15%
QC value within limits for Ni 231.604 Recovery = 115.23%						
P 214.914†	60.3	135.95 µg/L	19.097	135.95 ppb	19.097	14.05%
QC value within limits for P 214.914 Recovery = 90.63%						
Pb 220.353†	30.4	10.074 µg/L	1.6885	10.074 ppb	1.6885	16.76%
QC value within limits for Pb 220.353 Recovery = 100.74%						
S 181.975 Axial†	24.6	102.07 µg/L	9.684	102.07 ppb	9.684	9.49%
QC value within limits for S 181.975 Axial Recovery = 102.07%						
Sb 206.836†	9.5	10.873 µg/L	3.3935	10.873 ppb	3.3935	31.21%
QC value within limits for Sb 206.836 Recovery = 108.73%						
Se 196.026†	27.2	35.361 µg/L	3.1707	35.361 ppb	3.1707	8.97%
QC value within limits for Se 196.026 Recovery = 117.87%						
SiO2†	933.6	213.57 µg/L	6.634	213.57 ppb	6.634	3.11%
QC value within limits for SiO2 Recovery = 100.27%						
Si 251.611†	1113.2	95.471 µg/L	5.3902	95.471 ppb	5.3902	5.65%
QC value within limits for Si 251.611 Recovery = 95.47%						
Sn 189.927†	22.8	11.237 µg/L	0.4252	11.237 ppb	0.4252	3.78%
QC value within limits for Sn 189.927 Recovery = 112.37%						
Sr 421.552†	1229.5	5.1138 µg/L	0.10883	5.1138 ppb	0.10883	2.13%
QC value within limits for Sr 421.552 Recovery = 102.28%						
Ti 334.940†	1808.5	5.0665 µg/L	0.19870	5.0665 ppb	0.19870	3.92%
QC value within limits for Ti 334.940 Recovery = 101.33%						
Tl 190.801†	17.5	21.449 µg/L	1.4590	21.449 ppb	1.4590	6.80%
QC value within limits for Tl 190.801 Recovery = 107.24%						
U 409.014†	572.2	59.472 µg/L	5.4800	59.472 ppb	5.4800	9.21%
QC value within limits for U 409.014 Recovery = 118.94%						
V 292.402†	367.4	5.0428 µg/L	0.66339	5.0428 ppb	0.66339	13.16%
QC value within limits for V 292.402 Recovery = 100.86%						
Zn 213.857†	322.9	9.0173 µg/L	0.89854	9.0173 ppb	0.89854	9.96%
QC value within limits for Zn 213.857 Recovery = 90.17%						
All analyte(s) passed QC.						

Sequence No.: 9
 Sample ID: IC5A
 Analyst:
 Logged In Analyst (Original) : optima
 Initial Sample Wt:
 Dilution:

Autosampler Location: 103
 Date Collected: 2/26/2010 02:19:31
 Data Type: Reprocessed on 2/26/2010 03:31:25
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: IC5A

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Sc 361.383	1528130.1	1528130.1	91.969 %			02:20:46
1	Sc RADIAL	106034.4	106034.4	95.9 %			02:20:13
1	Y 371.029	862043.3	862043.3	91.977 %			02:20:46
1	Ag 328.068†	-2865.0	-2597.9	0.2000 µg/L		0.2000 ppb	02:20:51
1	Al 396.153Radial†	947937.4	988914.3	523500 µg/L		523500 ppb	02:20:07
1	As 188.979†	15.5	24.5	32.464 µg/L		32.464 ppb	02:21:12
1	B 249.677†	1442.0	1401.1	-21.547 µg/L		-21.547 ppb	02:20:51
1	Ba 233.527†	246.2	277.8	7.5017 µg/L		7.5017 ppb	02:21:12
1	Be 313.107†	-2147.8	-667.3	-0.5072 µg/L		-0.5072 ppb	02:20:51
1	Ca 317.933Radial†	1383149.4	1442347.2	492380 µg/L		492380 ppb	02:20:07
1	Cd 226.502†	696.9	898.4	5.7771 µg/L		5.7771 ppb	02:21:12
1	Co 228.616†	80.6	60.7	3.2548 µg/L		3.2548 ppb	02:21:12
1	Cr 267.716†	-39.9	-112.5	-3.0136 µg/L		-3.0136 ppb	02:21:12
1	Cu 324.752†	-1888.6	-4684.0	0.2250 µg/L		0.2250 ppb	02:20:51
1	Fe 238.204 Radial†	26314.3	27416.4	189800 µg/L		189800 ppb	02:20:13
1	K 766.490 Radial†	148.7	-94.1	-55.907 µg/L		-55.907 ppb	02:20:13
1	Mg 279.077 IEC†	48999.6	51100.7	505060 µg/L		505060 ppb	02:20:13
1	Mn 257.610†	4969.6	5979.7	-0.2037 µg/L		-0.2037 ppb	02:20:51
1	Mo 202.031†	-58.6	-66.1	-0.7682 µg/L		-0.7682 ppb	02:21:12
1	Na 589.592 Radial†	271.3	-35.3	-10.892 µg/L		-10.892 ppb	02:20:13
1	Ni 231.604†	246.2	-27.6	0.4447 µg/L		0.4447 ppb	02:21:12
1	P 214.914†	230.0	8.8	19.435 µg/L		19.435 ppb	02:21:12
1	Pb 220.353†	-71.1	-112.1	-15.786 µg/L		-15.786 ppb	02:21:12
1	S 181.975 Axial†	-34.3	-57.9	-240.34 µg/L		-240.34 ppb	02:21:12
1	Sb 206.836†	27.0	10.2	4.1424 µg/L		4.1424 ppb	02:21:12
1	Se 196.026†	-160.6	-188.9	3.7779 µg/L		3.7779 ppb	02:21:12
1	SiO2†	1159.0	-144.3	-33.017 µg/L		-33.017 ppb	02:21:12
1	Si 251.611†	370.7	19.0	1.6289 µg/L		1.6289 ppb	02:21:12
1	Sn 189.927†	-110.9	-121.6	-1.3167 µg/L		-1.3167 ppb	02:21:12
1	Sr 421.552†	968.6	866.6	3.6045 µg/L		3.6045 ppb	02:20:13
1	Ti 334.940†	7434.4	8089.1	-9.2826 µg/L		-9.2826 ppb	02:20:51
1	Tl 190.801†	13.8	41.6	-17.764 µg/L		-17.764 ppb	02:21:12
1	U 409.014†	685.9	601.6	6.1331 µg/L		6.1331 ppb	02:20:51
1	V 292.402†	-641.0	-552.6	-0.3821 µg/L		-0.3821 ppb	02:21:12
1	Zn 213.857†	1789.9	1335.4	-0.0426 µg/L		-0.0426 ppb	02:21:12
2	Sc 361.383	1533580.5	1533580.5	92.297 %			02:21:18
2	Sc RADIAL	104575.7	104575.7	94.5 %			02:20:24
2	Y 371.029	864294.6	864294.6	92.217 %			02:21:18
2	Ag 328.068†	-2939.7	-2667.8	-0.3858 µg/L		-0.3858 ppb	02:21:24
2	Al 396.153Radial†	944217.5	998772.7	528720 µg/L		528720 ppb	02:20:18
2	As 188.979†	27.6	37.6	57.426 µg/L		57.426 ppb	02:21:44
2	B 249.677†	1391.3	1340.6	-25.154 µg/L		-25.154 ppb	02:21:24
2	Ba 233.527†	242.3	272.6	7.3620 µg/L		7.3620 ppb	02:21:44
2	Be 313.107†	-2156.7	-668.7	-0.5081 µg/L		-0.5081 ppb	02:21:24
2	Ca 317.933Radial†	1374971.4	1453822.8	496300 µg/L		496300 ppb	02:20:18
2	Cd 226.502†	714.7	914.9	6.2240 µg/L		6.2240 ppb	02:21:44
2	Co 228.616†	74.5	53.9	2.8804 µg/L		2.8804 ppb	02:21:44
2	Cr 267.716†	-25.7	-96.9	-2.5956 µg/L		-2.5956 ppb	02:21:44
2	Cu 324.752†	-1899.4	-4688.3	0.2860 µg/L		0.2860 ppb	02:21:24
2	Fe 238.204 Radial†	26020.5	27488.6	190300 µg/L		190300 ppb	02:20:24
2	K 766.490 Radial†	94.6	-149.1	-88.576 µg/L		-88.576 ppb	02:20:24
2	Mg 279.077 IEC†	48331.0	51106.5	505110 µg/L		505110 ppb	02:20:24
2	Mn 257.610†	4959.7	5949.7	-0.2914 µg/L		-0.2914 ppb	02:21:24
2	Mo 202.031†	-60.3	-67.7	-0.9382 µg/L		-0.9382 ppb	02:21:44
2	Na 589.592 Radial†	328.3	28.9	8.9078 µg/L		8.9078 ppb	02:20:24
2	Ni 231.604†	270.8	-1.9	2.3286 µg/L		2.3286 ppb	02:21:44
2	P 214.914†	231.0	9.0	21.028 µg/L		21.028 ppb	02:21:44
2	Pb 220.353†	-81.5	-123.1	-19.155 µg/L		-19.155 ppb	02:21:44

2	S 181.975 Axial†	-18.1	-40.2	-166.87 µg/L	-166.87 ppb	02:21:44
2	Sb 206.836†	27.9	11.1	5.0379 µg/L	5.0379 ppb	02:21:44
2	Se 196.026†	-158.1	-185.7	9.3574 µg/L	9.3574 ppb	02:21:44
2	SiO2†	1143.9	-165.1	-37.770 µg/L	-37.770 ppb	02:21:44
2	Si 251.611†	392.5	41.2	3.5299 µg/L	3.5299 ppb	02:21:44
2	Sn 189.927†	-111.4	-121.8	-1.4036 µg/L	-1.4036 ppb	02:21:44
2	Sr 421.552†	881.0	788.1	3.2778 µg/L	3.2778 ppb	02:20:24
2	Ti 334.940†	7365.0	7985.2	-9.5167 µg/L	-9.5167 ppb	02:21:24
2	Tl 190.801†	16.7	44.6	-14.761 µg/L	-14.761 ppb	02:21:44
2	U 409.014†	605.5	511.8	-3.5078 µg/L	-3.5078 ppb	02:21:24
2	V 292.402†	-611.8	-518.5	0.0793 µg/L	0.0793 ppb	02:21:44
2	Zn 213.857†	1780.7	1318.5	-0.5545 µg/L	-0.5545 ppb	02:21:44
3	Sc 361.383	1542416.7	1542416.7	92.829 %		02:21:50
3	Sc RADIAL	105620.8	105620.8	95.5 %		02:20:35
3	Y 371.029	864590.0	864590.0	92.248 %		02:21:50
3	Ag 328.068†	-2846.6	-2549.2	0.8352 µg/L	0.8352 ppb	02:21:56
3	Al 396.153Radial†	942640.1	987238.1	522610 µg/L	522610 ppb	02:20:30
3	As 188.979†	19.4	28.5	40.336 µg/L	40.336 ppb	02:22:17
3	B 249.677†	1386.9	1327.1	-26.341 µg/L	-26.341 ppb	02:21:56
3	Ba 233.527†	242.0	270.7	7.3125 µg/L	7.3125 ppb	02:22:17
3	Be 313.107†	-2106.6	-601.3	-0.4579 µg/L	-0.4579 ppb	02:21:56
3	Ca 317.933Radial†	1373627.0	1438023.8	490910 µg/L	490910 ppb	02:20:30
3	Cd 226.502†	709.4	904.8	5.8197 µg/L	5.8197 ppb	02:22:17
3	Co 228.616†	65.3	43.5	2.3156 µg/L	2.3156 ppb	02:22:17
3	Cr 267.716†	2.0	-66.9	-1.7938 µg/L	-1.7938 ppb	02:22:17
3	Cu 324.752†	-1886.4	-4662.6	0.6412 µg/L	0.6412 ppb	02:21:56
3	Fe 238.204 Radial†	26398.3	27611.9	191150 µg/L	191150 ppb	02:20:35
3	K 766.490 Radial†	184.0	-56.5	-33.592 µg/L	-33.592 ppb	02:20:35
3	Mg 279.077 IEC†	49084.2	51389.4	507910 µg/L	507910 ppb	02:20:35
3	Mn 257.610†	4945.4	5903.6	-0.6038 µg/L	-0.6038 ppb	02:21:56
3	Mo 202.031†	-56.5	-63.3	-0.3753 µg/L	-0.3753 ppb	02:22:17
3	Na 589.592 Radial†	313.0	9.4	2.8997 µg/L	2.8997 ppb	02:20:35
3	Ni 231.604†	246.1	-30.1	0.2796 µg/L	0.2796 ppb	02:22:17
3	P 214.914†	258.6	37.2	82.706 µg/L	82.706 ppb	02:22:17
3	Pb 220.353†	-66.5	-106.4	-13.977 µg/L	-13.977 ppb	02:22:17
3	S 181.975 Axial†	-18.2	-40.2	-166.92 µg/L	-166.92 ppb	02:22:17
3	Sb 206.836†	16.4	-1.5	-9.1151 µg/L	-9.1151 ppb	02:22:17
3	Se 196.026†	-156.5	-183.0	14.088 µg/L	14.088 ppb	02:22:17
3	SiO2†	1163.3	-151.3	-34.616 µg/L	-34.616 ppb	02:22:17
3	Si 251.611†	410.0	57.7	4.9457 µg/L	4.9457 ppb	02:22:17
3	Sn 189.927†	-113.1	-122.8	-1.6599 µg/L	-1.6599 ppb	02:22:17
3	Sr 421.552†	941.6	842.3	3.5032 µg/L	3.5032 ppb	02:20:35
3	Ti 334.940†	7544.1	8132.5	-9.4097 µg/L	-9.4097 ppb	02:21:56
3	Tl 190.801†	9.7	37.0	-22.862 µg/L	-22.862 ppb	02:22:17
3	U 409.014†	600.0	502.1	-4.3113 µg/L	-4.3113 ppb	02:21:56
3	V 292.402†	-592.3	-493.7	0.4448 µg/L	0.4448 ppb	02:22:17
3	Zn 213.857†	1787.5	1314.8	-0.8479 µg/L	-0.8479 ppb	02:22:17

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1534709.1	92.365 %	0.4339			0.47%
Sc RADIAL	105410.3	95.3 %	0.68			0.71%
Y 371.029	863642.6	92.147 %	0.1486			0.16%
Ag 328.068†	-2604.9	0.2165 µg/L	0.61069	0.2165 ppb	0.61069	282.12%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	991641.7	524940 µg/L	3299.2	524940 ppb	3299.2	0.63%
QC value within limits for Al 396.153Radial Recovery = 104.99%						
As 188.979†	30.2	43.409 µg/L	12.7618	43.409 ppb	12.7618	29.40%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1356.3	-24.347 µg/L	2.4967	-24.347 ppb	2.4967	10.25%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	273.7	7.3921 µg/L	0.09809	7.3921 ppb	0.09809	1.33%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-645.7	-0.4910 µg/L	0.02871	-0.4910 ppb	0.02871	5.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1444731.2	493200 µg/L	2787.3	493200 ppb	2787.3	0.57%
QC value within limits for Ca 317.933Radial Recovery = 98.64%						
Cd 226.502†	906.0	5.9403 µg/L	0.24664	5.9403 ppb	0.24664	4.15%
QC value within limits for Cd 226.502 Recovery = Not calculated						

Co 228.616†	52.7	2.8169 µg/L	0.47280	2.8169 ppb	0.47280	16.78%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-92.1	-2.4677 µg/L	0.61989	-2.4677 ppb	0.61989	25.12%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-4678.3	0.3841 µg/L	0.22475	0.3841 ppb	0.22475	58.52%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	27505.6	190420 µg/L	684.3	190420 ppb	684.3	0.36%
QC value within limits for Fe 238.204 Radial Recovery = 95.21%						
K 766.490 Radial†	-99.9	-59.358 µg/L	27.6538	-59.358 ppb	27.6538	46.59%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	51198.9	506030 µg/L	1631.3	506030 ppb	1631.3	0.32%
QC value within limits for Mg 279.077 IEC Recovery = 101.21%						
Mn 257.610†	5944.3	-0.3663 µg/L	0.21034	-0.3663 ppb	0.21034	57.42%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-65.7	-0.6939 µg/L	0.28870	-0.6939 ppb	0.28870	41.60%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	1.0	0.3050 µg/L	10.15193	0.3050 ppb	10.15193	>999.9%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-19.9	1.0177 µg/L	1.13830	1.0177 ppb	1.13830	111.85%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	18.3	41.056 µg/L	36.0786	41.056 ppb	36.0786	87.88%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-113.9	-16.306 µg/L	2.6276	-16.306 ppb	2.6276	16.11%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-46.1	-191.38 µg/L	42.403	-191.38 ppb	42.403	22.16%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	6.6	0.0218 µg/L	7.92539	0.0218 ppb	7.92539	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-185.9	9.0746 µg/L	5.16101	9.0746 ppb	5.16101	56.87%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	-153.6	-35.135 µg/L	2.4188	-35.135 ppb	2.4188	6.88%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	39.3	3.3682 µg/L	1.66430	3.3682 ppb	1.66430	49.41%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-122.1	-1.4601 µg/L	0.17840	-1.4601 ppb	0.17840	12.22%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	832.3	3.4618 µg/L	0.16719	3.4618 ppb	0.16719	4.83%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	8069.0	-9.4030 µg/L	0.11721	-9.4030 ppb	0.11721	1.25%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	41.0	-18.462 µg/L	4.0954	-18.462 ppb	4.0954	22.18%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	538.5	-0.5620 µg/L	5.81206	-0.5620 ppb	5.81206	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-521.6	0.0474 µg/L	0.41438	0.0474 ppb	0.41438	874.98%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	1322.9	-0.4817 µg/L	0.40754	-0.4817 ppb	0.40754	84.61%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Logged In Analyst (Original) : optima
 Initial Sample Wt:
 Dilution:

Autosampler Location: 104
 Date Collected: 2/26/2010 02:22:26
 Data Type: Reprocessed on 2/26/2010 03:32:16

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	1524979.2	1524979.2	91.780 %		02:23:42
1	Sc RADIAL	104116.9	104116.9	94.1 %		02:23:06
1	Y 371.029	856716.6	856716.6	91.408 %		02:23:42
1	Ag 328.068†	22955.8	25529.1	266.60 µg/L	266.60 ppb	02:24:03
1	Al 396.153Radial†	950510.3	1009858.8	534580 µg/L	534580 ppb	02:23:00
1	As 188.979†	279.0	311.6	581.98 µg/L	581.98 ppb	02:24:03
1	B 249.677†	10085.6	10822.0	500.49 µg/L	500.49 ppb	02:23:42
1	Ba 233.527†	17160.5	18707.5	507.01 µg/L	507.01 ppb	02:24:03
1	Be 313.107†	302686.2	331464.3	247.41 µg/L	247.41 ppb	02:23:42
1	Ca 317.933Radial†	1386462.8	1472439.4	502660 µg/L	502660 ppb	02:23:00
1	Cd 226.502†	15024.1	16510.4	479.43 µg/L	479.43 ppb	02:24:03
1	Co 228.616†	7694.0	8356.2	454.69 µg/L	454.69 ppb	02:24:03
1	Cr 267.716†	16881.0	18323.8	490.23 µg/L	490.23 ppb	02:24:03
1	Cu 324.752†	65797.7	69060.4	558.40 µg/L	558.40 ppb	02:23:42
1	Fe 238.204 Radial†	25795.6	27371.0	189490 µg/L	189490 ppb	02:23:06
1	K 766.490 Radial†	8654.9	8945.4	5314.2 µg/L	5314.2 ppb	02:23:06
1	Mg 279.077 IEC†	48208.4	51201.5	506060 µg/L	506060 ppb	02:23:06
1	Mn 257.610†	123452.8	135086.0	487.98 µg/L	487.98 ppb	02:23:42
1	Mo 202.031†	3926.7	4276.0	523.15 µg/L	523.15 ppb	02:24:03
1	Na 589.592 Radial†	16004.3	16684.1	5149.8 µg/L	5149.8 ppb	02:23:06
1	Ni 231.604†	6191.6	6450.9	473.34 µg/L	473.34 ppb	02:24:03
1	P 214.914†	1317.2	1193.9	2662.5 µg/L	2662.5 ppb	02:24:03
1	Pb 220.353†	1280.0	1359.9	475.09 µg/L	475.09 ppb	02:24:03
1	S 181.975 Axial†	590.7	623.1	2585.2 µg/L	2585.2 ppb	02:24:03
1	Sb 206.836†	454.0	475.5	535.10 µg/L	535.10 ppb	02:24:03
1	Se 196.026†	1608.0	1737.7	2494.9 µg/L	2494.9 ppb	02:24:03
1	SiO2†	45483.4	48152.6	11015 µg/L	11015 ppb	02:23:42
1	Si 251.611†	55988.8	60619.4	5198.7 µg/L	5198.7 ppb	02:23:42
1	Sn 189.927†	859.4	935.3	519.26 µg/L	519.26 ppb	02:24:03
1	Sr 421.552†	111729.0	118553.2	493.08 µg/L	493.08 ppb	02:23:06
1	Ti 334.940†	176588.8	192410.6	509.30 µg/L	509.30 ppb	02:23:42
1	Tl 190.801†	365.6	424.8	453.46 µg/L	453.46 ppb	02:24:03
1	U 409.014†	4403.9	4654.1	426.92 µg/L	426.92 ppb	02:23:42
1	V 292.402†	35254.0	38555.9	524.96 µg/L	524.96 ppb	02:24:03
1	Zn 213.857†	17533.8	18493.4	479.44 µg/L	479.44 ppb	02:24:03
2	Sc 361.383	1537851.2	1537851.2	92.554 %		02:24:12
2	Sc RADIAL	104026.3	104026.3	94.0 %		02:23:17
2	Y 371.029	867663.6	867663.6	92.576 %		02:24:12
2	Ag 328.068†	23065.8	25438.6	265.63 µg/L	265.63 ppb	02:24:33
2	Al 396.153Radial†	949171.6	1009314.8	534290 µg/L	534290 ppb	02:23:12
2	As 188.979†	275.6	305.4	570.01 µg/L	570.01 ppb	02:24:33
2	B 249.677†	10124.7	10772.3	498.13 µg/L	498.13 ppb	02:24:12
2	Ba 233.527†	17153.6	18543.6	502.57 µg/L	502.57 ppb	02:24:33
2	Be 313.107†	304637.5	330812.1	246.92 µg/L	246.92 ppb	02:24:12
2	Ca 317.933Radial†	1387971.0	1475325.9	503640 µg/L	503640 ppb	02:23:12
2	Cd 226.502†	15079.7	16433.4	477.18 µg/L	477.18 ppb	02:24:33
2	Co 228.616†	7702.4	8295.1	451.36 µg/L	451.36 ppb	02:24:33
2	Cr 267.716†	16935.1	18228.3	487.67 µg/L	487.67 ppb	02:24:33
2	Cu 324.752†	65961.2	68637.1	555.06 µg/L	555.06 ppb	02:24:12
2	Fe 238.204 Radial†	25670.8	27262.1	188740 µg/L	188740 ppb	02:23:17
2	K 766.490 Radial†	8597.1	8892.0	5282.5 µg/L	5282.5 ppb	02:23:17
2	Mg 279.077 IEC†	47998.0	51022.4	504290 µg/L	504290 ppb	02:23:17
2	Mn 257.610†	124120.7	134681.7	486.53 µg/L	486.53 ppb	02:24:12
2	Mo 202.031†	3922.6	4235.8	518.26 µg/L	518.26 ppb	02:24:33
2	Na 589.592 Radial†	16020.2	16715.8	5159.6 µg/L	5159.6 ppb	02:23:17
2	Ni 231.604†	6212.9	6417.4	470.88 µg/L	470.88 ppb	02:24:33
2	P 214.914†	1312.9	1177.2	2625.5 µg/L	2625.5 ppb	02:24:33
2	Pb 220.353†	1293.6	1362.9	476.10 µg/L	476.10 ppb	02:24:33

2	S 181.975 Axial†	603.7	631.7	2620.9 µg/L	2620.9 ppb	02:24:33
2	Sb 206.836†	448.6	465.5	523.72 µg/L	523.72 ppb	02:24:33
2	Se 196.026†	1632.9	1749.9	2509.3 µg/L	2509.3 ppb	02:24:33
2	SiO2†	45877.2	48163.3	11018 µg/L	11018 ppb	02:24:12
2	Si 251.611†	56417.0	60571.4	5194.6 µg/L	5194.6 ppb	02:24:12
2	Sn 189.927†	866.4	935.1	518.98 µg/L	518.98 ppb	02:24:33
2	Sr 421.552†	111412.7	118320.3	492.11 µg/L	492.11 ppb	02:23:17
2	Ti 334.940†	177032.1	191279.1	506.28 µg/L	506.28 ppb	02:24:12
2	Tl 190.801†	367.7	423.8	451.82 µg/L	451.82 ppb	02:24:33
2	U 409.014†	4426.4	4638.3	425.32 µg/L	425.32 ppb	02:24:12
2	V 292.402†	35259.3	38240.1	520.69 µg/L	520.69 ppb	02:24:33
2	Zn 213.857†	17587.0	18391.0	476.71 µg/L	476.71 ppb	02:24:33
3	Sc 361.383	1529704.1	1529704.1	92.064 %		02:24:41
3	Sc RADIAL	104261.1	104261.1	94.3 %		02:23:29
3	Y 371.029	862181.6	862181.6	91.992 %		02:24:41
3	Ag 328.068†	22994.3	25493.6	266.07 µg/L	266.07 ppb	02:25:02
3	Al 396.153Radial†	943912.4	1001462.1	530130 µg/L	530130 ppb	02:23:23
3	As 188.979†	280.5	312.3	583.38 µg/L	583.38 ppb	02:25:02
3	B 249.677†	10148.8	10856.7	503.11 µg/L	503.11 ppb	02:24:41
3	Ba 233.527†	17087.5	18570.5	503.30 µg/L	503.30 ppb	02:25:02
3	Be 313.107†	302966.0	330749.6	246.88 µg/L	246.88 ppb	02:24:41
3	Ca 317.933Radial†	1377362.0	1460746.5	498660 µg/L	498660 ppb	02:23:23
3	Cd 226.502†	15019.2	16454.4	477.89 µg/L	477.89 ppb	02:25:02
3	Co 228.616†	7659.1	8292.4	451.21 µg/L	451.21 ppb	02:25:02
3	Cr 267.716†	16866.6	18251.4	488.29 µg/L	488.29 ppb	02:25:02
3	Cu 324.752†	65903.5	68953.9	557.34 µg/L	557.34 ppb	02:24:41
3	Fe 238.204 Radial†	25647.6	27176.0	188140 µg/L	188140 ppb	02:23:29
3	K 766.490 Radial†	8605.9	8880.7	5275.8 µg/L	5275.8 ppb	02:23:29
3	Mg 279.077 IEC†	48070.3	50984.2	503920 µg/L	503920 ppb	02:23:29
3	Mn 257.610†	123722.0	134962.8	487.58 µg/L	487.58 ppb	02:24:41
3	Mo 202.031†	3904.9	4239.1	518.65 µg/L	518.65 ppb	02:25:02
3	Na 589.592 Radial†	15967.2	16621.1	5130.4 µg/L	5130.4 ppb	02:23:29
3	Ni 231.604†	6203.0	6442.4	472.70 µg/L	472.70 ppb	02:25:02
3	P 214.914†	1301.5	1172.4	2613.7 µg/L	2613.7 ppb	02:25:02
3	Pb 220.353†	1304.6	1382.3	482.33 µg/L	482.33 ppb	02:25:02
3	S 181.975 Axial†	592.9	623.5	2586.9 µg/L	2586.9 ppb	02:25:02
3	Sb 206.836†	458.0	478.3	538.35 µg/L	538.35 ppb	02:25:02
3	Se 196.026†	1619.8	1745.1	2501.8 µg/L	2501.8 ppb	02:25:02
3	SiO2†	45543.6	48065.0	10995 µg/L	10995 ppb	02:24:41
3	Si 251.611†	55955.5	60394.8	5179.5 µg/L	5179.5 ppb	02:24:41
3	Sn 189.927†	872.5	946.7	524.64 µg/L	524.64 ppb	02:25:02
3	Sr 421.552†	111561.7	118211.5	491.66 µg/L	491.66 ppb	02:23:29
3	Ti 334.940†	176528.9	191751.2	507.56 µg/L	507.56 ppb	02:24:41
3	Tl 190.801†	367.0	425.1	454.38 µg/L	454.38 ppb	02:25:02
3	U 409.014†	4392.6	4627.0	424.54 µg/L	424.54 ppb	02:24:41
3	V 292.402†	35102.6	38272.8	521.10 µg/L	521.10 ppb	02:25:02
3	Zn 213.857†	17526.0	18426.0	477.73 µg/L	477.73 ppb	02:25:02

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1530844.8	92.133 %	0.3919			0.43%
Sc RADIAL	104134.8	94.1 %	0.11			0.11%
Y 371.029	862187.3	91.992 %	0.5840			0.63%
Ag 328.068†	25487.1	266.10 µg/L	0.486	266.10 ppb	0.486	0.18%
QC value within limits for Ag 328.068 Recovery = 106.44%						
Al 396.153Radial†	1006878.5	533000 µg/L	2487.3	533000 ppb	2487.3	0.47%
QC value within limits for Al 396.153Radial Recovery = 106.60%						
As 188.979†	309.8	578.46 µg/L	7.349	578.46 ppb	7.349	1.27%
QC value within limits for As 188.979 Recovery = 115.69%						
B 249.677†	10817.0	500.57 µg/L	2.492	500.57 ppb	2.492	0.50%
QC value within limits for B 249.677 Recovery = 100.11%						
Ba 233.527†	18607.2	504.29 µg/L	2.382	504.29 ppb	2.382	0.47%
QC value within limits for Ba 233.527 Recovery = 100.86%						
Be 313.107†	331008.7	247.07 µg/L	0.295	247.07 ppb	0.295	0.12%
QC value within limits for Be 313.107 Recovery = 98.83%						
Ca 317.933Radial†	1469504.0	501650 µg/L	2635.5	501650 ppb	2635.5	0.53%
QC value within limits for Ca 317.933Radial Recovery = 100.33%						
Cd 226.502†	16466.1	478.17 µg/L	1.151	478.17 ppb	1.151	0.24%
QC value within limits for Cd 226.502 Recovery = 95.63%						

Co 228.616†	8314.6	452.42 µg/L	1.967	452.42 ppb	1.967	0.43%
QC value within limits for Co 228.616 Recovery = 90.48%						
Cr 267.716†	18267.8	488.73 µg/L	1.333	488.73 ppb	1.333	0.27%
QC value within limits for Cr 267.716 Recovery = 97.75%						
Cu 324.752†	68883.8	556.93 µg/L	1.710	556.93 ppb	1.710	0.31%
QC value within limits for Cu 324.752 Recovery = 111.39%						
Fe 238.204 Radial†	27269.7	188790 µg/L	676.5	188790 ppb	676.5	0.36%
QC value within limits for Fe 238.204 Radial Recovery = 94.40%						
K 766.490 Radial†	8906.0	5290.8 µg/L	20.54	5290.8 ppb	20.54	0.39%
QC value within limits for K 766.490 Radial Recovery = 105.82%						
Mg 279.077 IEC†	51069.4	504760 µg/L	1146.7	504760 ppb	1146.7	0.23%
QC value within limits for Mg 279.077 IEC Recovery = 100.95%						
Mn 257.610†	134910.2	487.37 µg/L	0.751	487.37 ppb	0.751	0.15%
QC value within limits for Mn 257.610 Recovery = 97.47%						
Mo 202.031†	4250.3	520.02 µg/L	2.718	520.02 ppb	2.718	0.52%
QC value within limits for Mo 202.031 Recovery = 104.00%						
Na 589.592 Radial†	16673.7	5146.6 µg/L	14.87	5146.6 ppb	14.87	0.29%
QC value within limits for Na 589.592 Radial Recovery = 102.93%						
Ni 231.604†	6436.9	472.31 µg/L	1.273	472.31 ppb	1.273	0.27%
QC value within limits for Ni 231.604 Recovery = 94.46%						
P 214.914†	1181.2	2633.9 µg/L	25.48	2633.9 ppb	25.48	0.97%
QC value within limits for P 214.914 Recovery = 105.36%						
Pb 220.353†	1368.4	477.84 µg/L	3.923	477.84 ppb	3.923	0.82%
QC value within limits for Pb 220.353 Recovery = 95.57%						
S 181.975 Axial†	626.1	2597.6 µg/L	20.18	2597.6 ppb	20.18	0.78%
QC value within limits for S 181.975 Axial Recovery = 103.91%						
Sb 206.836†	473.1	532.39 µg/L	7.683	532.39 ppb	7.683	1.44%
QC value within limits for Sb 206.836 Recovery = 106.48%						
Se 196.026†	1744.2	2502.0 µg/L	7.22	2502.0 ppb	7.22	0.29%
QC value within limits for Se 196.026 Recovery = 100.08%						
SiO2†	48126.9	11010 µg/L	12.3	11010 ppb	12.3	0.11%
QC value within limits for SiO2 Recovery = 102.94%						
Si 251.611†	60528.5	5191.0 µg/L	10.14	5191.0 ppb	10.14	0.20%
QC value within limits for Si 251.611 Recovery = 103.82%						
Sn 189.927†	939.1	520.96 µg/L	3.192	520.96 ppb	3.192	0.61%
QC value within limits for Sn 189.927 Recovery = 104.19%						
Sr 421.552†	118361.7	492.28 µg/L	0.726	492.28 ppb	0.726	0.15%
QC value within limits for Sr 421.552 Recovery = 98.46%						
Ti 334.940†	191813.7	507.71 µg/L	1.520	507.71 ppb	1.520	0.30%
QC value within limits for Ti 334.940 Recovery = 101.54%						
Tl 190.801†	424.6	453.22 µg/L	1.297	453.22 ppb	1.297	0.29%
QC value within limits for Tl 190.801 Recovery = 90.64%						
U 409.014†	4639.8	425.59 µg/L	1.213	425.59 ppb	1.213	0.28%
QC value within limits for U 409.014 Recovery = 85.12%						
V 292.402†	38356.2	522.25 µg/L	2.354	522.25 ppb	2.354	0.45%
QC value within limits for V 292.402 Recovery = 104.45%						
Zn 213.857†	18436.8	477.96 µg/L	1.379	477.96 ppb	1.379	0.29%
QC value within limits for Zn 213.857 Recovery = 95.59%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LR1

Analyst:

Logged In Analyst (Original) : optima

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 2/26/2010 02:25:11

Data Type: Reprocessed on 2/26/2010 03:33:07

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	1524543.2	1524543.2	91.754 %			02:26:26
1	Sc RADIAL	106319.8	106319.8	96.1 %			02:25:52
1	Y 371.029	846969.2	846969.2	90.368 %			02:26:26
1	Ag 328.068†	-5670.0	-5662.3	5.0547 µg/L		5.0547 ppb	02:26:47
1	Al 396.153Radial†	923467.6	960802.6	508620 µg/L		508620 ppb	02:25:46
1	As 188.979†	-11.2	-4.6	-7.6952 µg/L		-7.6952 ppb	02:26:47
1	B 249.677†	2927.3	3023.5	-67.654 µg/L		-67.654 ppb	02:26:26
1	Ba 233.527†	558.1	618.3	16.671 µg/L		16.671 ppb	02:26:47
1	Be 313.107†	-7906.1	-6948.7	-5.2079 µg/L		-5.2079 ppb	02:26:26
1	Ca 317.933Radial†	1355180.4	1409376.5	481130 µg/L		481130 ppb	02:25:46
1	Cd 226.502†	1837.3	2143.1	14.076 µg/L		14.076 ppb	02:26:47
1	Co 228.616†	207.0	198.7	10.716 µg/L		10.716 ppb	02:26:47
1	Cr 267.716†	305.4	263.7	7.0299 µg/L		7.0299 ppb	02:26:47
1	Cu 324.752†	-6769.6	-10008.5	8.8687 µg/L		8.8687 ppb	02:26:47
1	Fe 238.204 Radial†	62536.7	65026.8	450170 µg/L		450170 ppb	02:25:52
1	K 766.490 Radial†	191.0	-50.5	-30.021 µg/L		-30.021 ppb	02:25:52
1	Mg 279.077 IEC†	47719.9	49632.1	490260 µg/L		490260 ppb	02:25:52
1	Mn 257.610†	5653.2	6737.3	19.054 µg/L		19.054 ppb	02:26:26
1	Mo 202.031†	-150.3	-166.2	-2.9526 µg/L		-2.9526 ppb	02:26:47
1	Na 589.592 Radial†	1500976.9	1561227.8	481900 µg/L		481900 ppb	02:25:46
1	Ni 231.604†	224.7	-50.4	2.1530 µg/L		2.1530 ppb	02:26:47
1	P 214.914†	368.0	159.8	150.94 µg/L		150.94 ppb	02:26:47
1	Pb 220.353†	-17.7	-54.1	-22.643 µg/L		-22.643 ppb	02:26:47
1	S 181.975 Axial†	-27.6	-50.7	-210.33 µg/L		-210.33 ppb	02:26:47
1	Sb 206.836†	14.2	-3.7	-11.825 µg/L		-11.825 ppb	02:26:47
1	Se 196.026†	-344.1	-389.4	612.19 µg/L		612.19 ppb	02:26:47
1	SiO2†	1216.0	-79.3	-18.133 µg/L		-18.133 ppb	02:26:47
1	Si 251.611†	-92.0	-484.3	-41.535 µg/L		-41.535 ppb	02:26:47
1	Sn 189.927†	-102.4	-112.6	-16.906 µg/L		-16.906 ppb	02:26:47
1	Sr 421.552†	1283.9	1191.9	4.9573 µg/L		4.9573 ppb	02:25:52
1	Ti 334.940†	14558.9	15873.0	13.581 µg/L		13.581 ppb	02:26:26
1	Tl 190.801†	5.2	32.1	28.008 µg/L		28.008 ppb	02:26:47
1	U 409.014†	132272.1	144016.1	14882 µg/L		14882 ppb	02:26:26
1	V 292.402†	-2273.9	-2333.9	0.9246 µg/L		0.9246 ppb	02:26:47
1	Zn 213.857†	3057.6	2721.6	27.468 µg/L		27.468 ppb	02:26:47
2	Sc 361.383	1508073.3	1508073.3	90.762 %			02:26:54
2	Sc RADIAL	106199.5	106199.5	96.0 %			02:26:04
2	Y 371.029	840513.0	840513.0	89.680 %			02:26:54
2	Ag 328.068†	-5688.1	-5749.8	4.6807 µg/L		4.6807 ppb	02:27:14
2	Al 396.153Radial†	935549.1	974473.4	515860 µg/L		515860 ppb	02:25:58
2	As 188.979†	-5.6	1.5	3.7958 µg/L		3.7958 ppb	02:27:14
2	B 249.677†	2892.2	3019.6	-69.699 µg/L		-69.699 ppb	02:26:54
2	Ba 233.527†	571.8	640.1	17.257 µg/L		17.257 ppb	02:27:14
2	Be 313.107†	-7972.4	-7115.8	-5.3310 µg/L		-5.3310 ppb	02:26:54
2	Ca 317.933Radial†	1375996.2	1432652.7	489070 µg/L		489070 ppb	02:25:58
2	Cd 226.502†	1835.8	2163.2	14.292 µg/L		14.292 ppb	02:27:14
2	Co 228.616†	202.8	196.6	10.609 µg/L		10.609 ppb	02:27:14
2	Cr 267.716†	293.5	254.2	6.7757 µg/L		6.7757 ppb	02:27:14
2	Cu 324.752†	-6826.8	-10152.0	8.4416 µg/L		8.4416 ppb	02:27:14
2	Fe 238.204 Radial†	62952.6	65533.7	453680 µg/L		453680 ppb	02:26:04
2	K 766.490 Radial†	209.1	-31.5	-18.688 µg/L		-18.688 ppb	02:26:04
2	Mg 279.077 IEC†	47868.7	49843.3	492340 µg/L		492340 ppb	02:26:04
2	Mn 257.610†	6097.2	7293.8	21.226 µg/L		21.226 ppb	02:26:54
2	Mo 202.031†	-158.7	-177.2	-4.1442 µg/L		-4.1442 ppb	02:27:14
2	Na 589.592 Radial†	1522154.3	1585052.3	489250 µg/L		489250 ppb	02:25:58
2	Ni 231.604†	227.1	-45.1	2.5869 µg/L		2.5869 ppb	02:27:14
2	P 214.914†	375.8	172.8	179.77 µg/L		179.77 ppb	02:27:14
2	Pb 220.353†	-37.3	-75.9	-29.808 µg/L		-29.808 ppb	02:27:14

2	S 181.975 Axial†	-23.0	-45.9	-190.38 µg/L	-190.38 ppb	02:27:14
2	Sb 206.836†	20.3	3.2	-4.1418 µg/L	-4.1418 ppb	02:27:14
2	Se 196.026†	-337.2	-385.9	626.29 µg/L	626.29 ppb	02:27:14
2	SiO2†	1237.2	-41.4	-9.4735 µg/L	-9.4735 ppb	02:27:14
2	Si 251.611†	-75.2	-466.9	-40.039 µg/L	-40.039 ppb	02:27:14
2	Sn 189.927†	-97.2	-108.1	-14.581 µg/L	-14.581 ppb	02:27:14
2	Sr 421.552†	1335.3	1247.0	5.1866 µg/L	5.1866 ppb	02:26:04
2	Ti 334.940†	12911.5	14231.3	8.9247 µg/L	8.9247 ppb	02:26:54
2	Tl 190.801†	8.3	35.7	31.419 µg/L	31.419 ppb	02:27:14
2	U 409.014†	132248.7	145564.6	15043 µg/L	15043 ppb	02:26:54
2	V 292.402†	-2348.0	-2442.7	-0.2360 µg/L	-0.2360 ppb	02:27:14
2	Zn 213.857†	3063.6	2764.6	28.391 µg/L	28.391 ppb	02:27:14
3	Sc 361.383	1515955.4	1515955.4	91.237 %		02:27:21
3	Sc RADIAL	106011.8	106011.8	95.8 %		02:26:16
3	Y 371.029	842161.7	842161.7	89.855 %		02:27:21
3	Ag 328.068†	-5715.6	-5747.3	4.5484 µg/L	4.5484 ppb	02:27:42
3	Al 396.153Radial†	929547.3	969937.0	513450 µg/L	513450 ppb	02:26:10
3	As 188.979†	-9.1	-2.3	-3.5182 µg/L	-3.5182 ppb	02:27:42
3	B 249.677†	2951.5	3068.1	-66.391 µg/L	-66.391 ppb	02:27:21
3	Ba 233.527†	571.6	636.6	17.163 µg/L	17.163 ppb	02:27:42
3	Be 313.107†	-8031.4	-7134.8	-5.3454 µg/L	-5.3454 ppb	02:27:21
3	Ca 317.933Radial†	1370342.9	1429292.3	487930 µg/L	487930 ppb	02:26:10
3	Cd 226.502†	1843.8	2161.5	14.376 µg/L	14.376 ppb	02:27:42
3	Co 228.616†	202.4	194.9	10.517 µg/L	10.517 ppb	02:27:42
3	Cr 267.716†	297.8	257.3	6.8581 µg/L	6.8581 ppb	02:27:42
3	Cu 324.752†	-6850.6	-10139.0	8.3150 µg/L	8.3150 ppb	02:27:42
3	Fe 238.204 Radial†	62675.3	65360.5	452480 µg/L	452480 ppb	02:26:16
3	K 766.490 Radial†	170.7	-71.1	-42.222 µg/L	-42.222 ppb	02:26:16
3	Mg 279.077 IEC†	47822.2	49883.1	492740 µg/L	492740 ppb	02:26:16
3	Mn 257.610†	5803.3	6936.8	19.778 µg/L	19.778 ppb	02:27:21
3	Mo 202.031†	-156.6	-174.0	-3.8048 µg/L	-3.8048 ppb	02:27:42
3	Na 589.592 Radial†	1517257.5	1582750.9	488540 µg/L	488540 ppb	02:26:10
3	Ni 231.604†	230.6	-42.6	2.7573 µg/L	2.7573 ppb	02:27:42
3	P 214.914†	347.1	139.1	103.64 µg/L	103.64 ppb	02:27:42
3	Pb 220.353†	-34.7	-72.8	-29.045 µg/L	-29.045 ppb	02:27:42
3	S 181.975 Axial†	-29.0	-52.4	-217.41 µg/L	-217.41 ppb	02:27:42
3	Sb 206.836†	14.1	-3.7	-11.934 µg/L	-11.934 ppb	02:27:42
3	Se 196.026†	-331.3	-377.5	633.09 µg/L	633.09 ppb	02:27:42
3	SiO2†	1241.1	-44.2	-10.115 µg/L	-10.115 ppb	02:27:42
3	Si 251.611†	-130.6	-527.2	-45.213 µg/L	-45.213 ppb	02:27:42
3	Sn 189.927†	-101.5	-112.3	-16.513 µg/L	-16.513 ppb	02:27:42
3	Sr 421.552†	1328.3	1242.1	5.1662 µg/L	5.1662 ppb	02:26:16
3	Ti 334.940†	13153.0	14422.0	9.4117 µg/L	9.4117 ppb	02:27:21
3	Tl 190.801†	1.7	28.4	22.730 µg/L	22.730 ppb	02:27:42
3	U 409.014†	134435.4	147203.8	15213 µg/L	15213 ppb	02:27:21
3	V 292.402†	-2367.0	-2450.0	-0.1966 µg/L	-0.1966 ppb	02:27:42
3	Zn 213.857†	3078.0	2762.9	28.376 µg/L	28.376 ppb	02:27:42

Mean Data: LRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1516190.7	91.251 %	0.4958			0.54%
Sc RADIAL	106177.0	96.0 %	0.14			0.15%
Y 371.029	843214.6	89.968 %	0.3579			0.40%
Ag 328.068†	-5719.8	4.7613 µg/L	0.26259	4.7613 ppb	0.26259	5.52%
Al 396.153Radial†	968404.3	512640 µg/L	3686.0	512640 ppb	3686.0	0.72%
QC value within limits for Al 396.153Radial Recovery = 102.53%						
As 188.979†	-1.8	-2.4725 µg/L	5.81646	-2.4725 ppb	5.81646	235.24%
B 249.677†	3037.1	-67.915 µg/L	1.6691	-67.915 ppb	1.6691	2.46%
Ba 233.527†	631.7	17.030 µg/L	0.3146	17.030 ppb	0.3146	1.85%
Be 313.107†	-7066.5	-5.2948 µg/L	0.07557	-5.2948 ppb	0.07557	1.43%
Ca 317.933Radial†	1423773.8	486040 µg/L	4294.9	486040 ppb	4294.9	0.88%
QC value within limits for Ca 317.933Radial Recovery = 97.21%						
Cd 226.502†	2155.9	14.248 µg/L	0.1545	14.248 ppb	0.1545	1.08%
Co 228.616†	196.7	10.614 µg/L	0.0993	10.614 ppb	0.0993	0.94%
Cr 267.716†	258.4	6.8879 µg/L	0.12972	6.8879 ppb	0.12972	1.88%
Cu 324.752†	-10099.8	8.5418 µg/L	0.29014	8.5418 ppb	0.29014	3.40%
Fe 238.204 Radial†	65307.0	452110 µg/L	1783.5	452110 ppb	1783.5	0.39%
QC value within limits for Fe 238.204 Radial Recovery = 90.42%						
K 766.490 Radial†	-51.0	-30.310 µg/L	11.7693	-30.310 ppb	11.7693	38.83%

Mg 279.077 IEC†	49786.2	491780 µg/L	1332.0	491780 ppb	1332.0	0.27%
QC value within limits for Mg 279.077 IEC Recovery = 98.36%						
Mn 257.610†	6989.3	20.019 µg/L	1.1057	20.019 ppb	1.1057	5.52%
Mo 202.031†	-172.5	-3.6339 µg/L	0.61392	-3.6339 ppb	0.61392	16.89%
Na 589.592 Radial†	1576343.7	486570 µg/L	4056.3	486570 ppb	4056.3	0.83%
QC value within limits for Na 589.592 Radial Recovery = 97.31%						
Ni 231.604†	-46.1	2.4990 µg/L	0.31155	2.4990 ppb	0.31155	12.47%
P 214.914†	157.2	144.78 µg/L	38.435	144.78 ppb	38.435	26.55%
Pb 220.353†	-67.6	-27.165 µg/L	3.9350	-27.165 ppb	3.9350	14.49%
S 181.975 Axial†	-49.7	-206.04 µg/L	14.019	-206.04 ppb	14.019	6.80%
Sb 206.836†	-1.4	-9.3002 µg/L	4.46762	-9.3002 ppb	4.46762	48.04%
Se 196.026†	-384.2	623.86 µg/L	10.657	623.86 ppb	10.657	1.71%
SiO2†	-55.0	-12.574 µg/L	4.8252	-12.574 ppb	4.8252	38.37%
Si 251.611†	-492.8	-42.263 µg/L	2.6625	-42.263 ppb	2.6625	6.30%
Sn 189.927†	-111.0	-16.000 µg/L	1.2443	-16.000 ppb	1.2443	7.78%
Sr 421.552†	1227.0	5.1034 µg/L	0.12693	5.1034 ppb	0.12693	2.49%
Ti 334.940†	14842.1	10.639 µg/L	2.5592	10.639 ppb	2.5592	24.05%
Tl 190.801†	32.1	27.386 µg/L	4.3779	27.386 ppb	4.3779	15.99%
U 409.014†	145594.8	15046 µg/L	165.4	15046 ppb	165.4	1.10%
QC value within limits for U 409.014 Recovery = 100.31%						
V 292.402†	-2408.9	0.1640 µg/L	0.65900	0.1640 ppb	0.65900	401.76%
Zn 213.857†	2749.7	28.078 µg/L	0.5285	28.078 ppb	0.5285	1.88%

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: LR2

Analyst:

Logged In Analyst (Original) : optima

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 2/26/2010 02:27:52

Data Type: Reprocessed on 2/26/2010 03:33:59

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	1689181.6	1689181.6	101.66	%		02:30:25
1	Sc RADIAL	110699.3	110699.3	100	%		02:28:35
1	Y 371.029	941031.4	941031.4	100.40	%		02:30:25
1	Ag 328.068†	-5961.9	-5347.1	16.797	µg/L	16.797 ppb	02:30:30
1	Al 396.153Radial†	695.1	764.7	197.29	µg/L	197.29 ppb	02:28:35
1	As 188.979†	5223.2	5145.4	9856.5	µg/L	9856.5 ppb	02:30:30
1	B 249.677†	90191.0	88549.5	4936.8	µg/L	4936.8 ppb	02:30:25
1	Ba 233.527†	438270.4	431114.9	11681	µg/L	11681 ppb	02:30:25
1	Be 313.107†	3931211.8	3868605.4	2886.2	µg/L	2886.2 ppb	02:30:25
1	Ca 317.933Radial†	615.8	125.5	42.831	µg/L	42.831 ppb	02:28:55
1	Cd 226.502†	323439.8	318292.2	9656.4	µg/L	9656.4 ppb	02:30:25
1	Co 228.616†	177554.0	174624.2	9504.3	µg/L	9504.3 ppb	02:30:25
1	Cr 267.716†	927471.9	912238.8	24396	µg/L	24396 ppb	02:30:25
1	Cu 324.752†	2753441.4	2705792.9	20483	µg/L	20483 ppb	02:30:25
1	Fe 238.204 Radial†	28.2	-5.3	165.41	µg/L	165.41 ppb	02:28:55
1	K 766.490 Radial†	499186.0	498534.4	296160	µg/L	296160 ppb	02:28:29
1	Mg 279.077 IEC†	5.6	-7.8	92.785	µg/L	92.785 ppb	02:28:55
1	Mn 257.610†	2593648.9	2551819.4	9650.9	µg/L	9650.9 ppb	02:30:25
1	Mo 202.031†	85109.2	83715.3	10101	µg/L	10101 ppb	02:30:25
1	Na 589.592 Radial†	900.0	580.9	179.31	µg/L	179.31 ppb	02:28:35
1	Ni 231.604†	140273.2	137684.5	10050	µg/L	10050 ppb	02:30:25
1	P 214.914†	9065.5	8676.0	17694	µg/L	17694 ppb	02:30:30
1	Pb 220.353†	75021.0	73759.6	24554	µg/L	24554 ppb	02:30:30
1	S 181.975 Axial†	13170.2	12934.3	53665	µg/L	53665 ppb	02:30:30
1	Sb 206.836†	9449.9	9276.2	10419	µg/L	10419 ppb	02:30:30
1	Se 196.026†	7929.8	7785.7	10076	µg/L	10076 ppb	02:30:30
1	SiO2†	447846.1	439119.4	100450	µg/L	100450 ppb	02:30:25
1	Si 251.611†	556908.5	547419.1	46947	µg/L	46947 ppb	02:30:25
1	Sn 189.927†	21833.7	21475.6	10573	µg/L	10573 ppb	02:30:30
1	Sr 421.552†	2237795.7	2235848.0	9299.2	µg/L	9299.2 ppb	02:28:29
1	Ti 334.940†	3563440.6	3505184.8	9860.2	µg/L	9860.2 ppb	02:30:25
1	Tl 190.801†	7868.7	7766.5	9570.6	µg/L	9570.6 ppb	02:30:30
1	U 409.014†	-7594.9	-7615.0	-791.78	µg/L	-791.78 ppb	02:30:25
1	V 292.402†	774358.3	761842.1	10258	µg/L	10258 ppb	02:30:25
1	Zn 213.857†	522795.9	513637.5	14367	µg/L	14367 ppb	02:30:25
2	Sc 361.383	1673837.0	1673837.0	100.74	%		02:30:46
2	Sc RADIAL	111220.5	111220.5	101	%		02:29:07
2	Y 371.029	931694.9	931694.9	99.408	%		02:30:46
2	Ag 328.068†	-5770.8	-5211.2	18.346	µg/L	18.346 ppb	02:30:52
2	Al 396.153Radial†	719.0	785.2	206.75	µg/L	206.75 ppb	02:29:07
2	As 188.979†	5104.9	5075.2	9721.5	µg/L	9721.5 ppb	02:30:52
2	B 249.677†	90180.2	89352.1	4981.4	µg/L	4981.4 ppb	02:30:46
2	Ba 233.527†	436681.5	433489.7	11745	µg/L	11745 ppb	02:30:46
2	Be 313.107†	3914953.6	3887915.8	2900.6	µg/L	2900.6 ppb	02:30:46
2	Ca 317.933Radial†	683.7	190.1	64.898	µg/L	64.898 ppb	02:29:28
2	Cd 226.502†	322919.8	320692.6	9729.2	µg/L	9729.2 ppb	02:30:46
2	Co 228.616†	176774.0	175450.9	9549.2	µg/L	9549.2 ppb	02:30:46
2	Cr 267.716†	925333.3	918479.3	24563	µg/L	24563 ppb	02:30:46
2	Cu 324.752†	2747570.4	2724793.9	20626	µg/L	20626 ppb	02:30:46
2	Fe 238.204 Radial†	31.7	-1.9	190.11	µg/L	190.11 ppb	02:29:28
2	K 766.490 Radial†	507044.0	504011.9	299420	µg/L	299420 ppb	02:29:02
2	Mg 279.077 IEC†	4.6	-8.8	83.930	µg/L	83.930 ppb	02:29:28
2	Mn 257.610†	2586229.9	2567842.8	9711.5	µg/L	9711.5 ppb	02:30:46
2	Mo 202.031†	84901.2	84276.3	10169	µg/L	10169 ppb	02:30:46
2	Na 589.592 Radial†	835.3	512.4	158.17	µg/L	158.17 ppb	02:29:07
2	Ni 231.604†	139402.9	138085.5	10080	µg/L	10080 ppb	02:30:46
2	P 214.914†	8791.0	8485.2	17241	µg/L	17241 ppb	02:30:52
2	Pb 220.353†	73194.4	72622.9	24176	µg/L	24176 ppb	02:30:52

2	S 181.975 Axial†	12833.0	12718.3	52769 µg/L	52769 ppb	02:30:52
2	Sb 206.836†	9176.4	9090.0	10207 µg/L	10207 ppb	02:30:52
2	Se 196.026†	7745.9	7674.7	9932.7 µg/L	9932.7 ppb	02:30:52
2	SiO2†	449049.7	444352.6	101650 µg/L	101650 ppb	02:30:46
2	Si 251.611†	557643.4	553170.6	47440 µg/L	47440 ppb	02:30:46
2	Sn 189.927†	21091.0	20935.4	10307 µg/L	10307 ppb	02:30:52
2	Sr 421.552†	2280912.7	2268250.2	9434.0 µg/L	9434.0 ppb	02:29:02
2	Ti 334.940†	3553236.8	3527188.9	9922.1 µg/L	9922.1 ppb	02:30:46
2	Tl 190.801†	7783.4	7752.9	9554.6 µg/L	9554.6 ppb	02:30:52
2	U 409.014†	-7499.2	-7588.4	-789.03 µg/L	-789.03 ppb	02:30:46
2	V 292.402†	770491.1	764985.9	10301 µg/L	10301 ppb	02:30:46
2	Zn 213.857†	520947.6	516517.1	14448 µg/L	14448 ppb	02:30:46
3	Sc 361.383	1672181.9	1672181.9	100.64 %		02:31:08
3	Sc RADIAL	111617.3	111617.3	101 %		02:29:40
3	Y 371.029	928904.5	928904.5	99.111 %		02:31:08
3	Ag 328.068†	-5113.4	-4563.7	19.257 µg/L	19.257 ppb	02:31:13
3	Al 396.153Radial†	777.2	840.3	251.51 µg/L	251.51 ppb	02:29:40
3	As 188.979†	4651.5	4629.7	8867.8 µg/L	8867.8 ppb	02:31:13
3	B 249.677†	85911.4	85199.0	4748.0 µg/L	4748.0 ppb	02:31:08
3	Ba 233.527†	407274.4	404698.4	10965 µg/L	10965 ppb	02:31:08
3	Be 313.107†	3621614.0	3600285.5	2686.0 µg/L	2686.0 ppb	02:31:08
3	Ca 317.933Radial†	714.9	218.6	74.626 µg/L	74.626 ppb	02:30:00
3	Cd 226.502†	299807.9	298044.8	9042.1 µg/L	9042.1 ppb	02:31:08
3	Co 228.616†	163065.2	162002.9	8817.2 µg/L	8817.2 ppb	02:31:08
3	Cr 267.716†	837323.4	831937.5	22249 µg/L	22249 ppb	02:31:08
3	Cu 324.752†	2543645.2	2524863.2	19113 µg/L	19113 ppb	02:31:08
3	Fe 238.204 Radial†	34.8	1.1	194.99 µg/L	194.99 ppb	02:30:00
3	K 766.490 Radial†	504262.9	499463.4	296720 µg/L	296720 ppb	02:29:35
3	Mg 279.077 IEC†	2.8	-10.6	53.115 µg/L	53.115 ppb	02:30:00
3	Mn 257.610†	2395631.0	2380995.4	9004.8 µg/L	9004.8 ppb	02:31:08
3	Mo 202.031†	78500.3	77999.4	9411.4 µg/L	9411.4 ppb	02:31:08
3	Na 589.592 Radial†	792.8	467.3	144.24 µg/L	144.24 ppb	02:29:40
3	Ni 231.604†	128828.7	127715.4	9322.6 µg/L	9322.6 ppb	02:31:08
3	P 214.914†	7837.8	7546.7	15252 µg/L	15252 ppb	02:31:13
3	Pb 220.353†	66129.2	65674.5	21862 µg/L	21862 ppb	02:31:13
3	S 181.975 Axial†	11810.1	11714.5	48604 µg/L	48604 ppb	02:31:13
3	Sb 206.836†	8314.2	8242.3	9258.2 µg/L	9258.2 ppb	02:31:13
3	Se 196.026†	7062.7	7003.5	9064.0 µg/L	9064.0 ppb	02:31:13
3	SiO2†	425600.3	421493.3	96421 µg/L	96421 ppb	02:31:08
3	Si 251.611†	528907.0	525164.6	45038 µg/L	45038 ppb	02:31:08
3	Sn 189.927†	18526.9	18408.3	9062.6 µg/L	9062.6 ppb	02:31:13
3	Sr 421.552†	2264857.8	2244277.0	9334.3 µg/L	9334.3 ppb	02:29:35
3	Ti 334.940†	3292060.8	3271162.5	9201.9 µg/L	9201.9 ppb	02:31:08
3	Tl 190.801†	7269.8	7250.2	8934.5 µg/L	8934.5 ppb	02:31:13
3	U 409.014†	-6965.5	-7065.5	-734.65 µg/L	-734.65 ppb	02:31:08
3	V 292.402†	710653.3	706285.2	9509.3 µg/L	9509.3 ppb	02:31:08
3	Zn 213.857†	482698.7	479022.9	13399 µg/L	13399 ppb	02:31:08

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1678400.2	101.01 %	0.564			0.56%
Sc RADIAL	111179.0	101 %	0.4			0.41%
Y 371.029	933876.9	99.641 %	0.6776			0.68%
Ag 328.068†	-5040.7	18.133 µg/L	1.2437	18.133 ppb	1.2437	6.86%
Al 396.153Radial†	796.7	218.52 µg/L	28.960	218.52 ppb	28.960	13.25%
As 188.979†	4950.1	9481.9 µg/L	536.09	9481.9 ppb	536.09	5.65%
QC value within limits for As 188.979 Recovery = 94.82%						
B 249.677†	87700.2	4888.8 µg/L	123.91	4888.8 ppb	123.91	2.53%
QC value within limits for B 249.677 Recovery = 97.78%						
Ba 233.527†	423101.0	11464 µg/L	433.1	11464 ppb	433.1	3.78%
QC value less than the lower limit for Ba 233.527 Recovery = 76.43%						
Be 313.107†	3785602.3	2824.3 µg/L	119.96	2824.3 ppb	119.96	4.25%
QC value within limits for Be 313.107 Recovery = 94.14%						
Ca 317.933Radial†	178.1	60.785 µg/L	16.2912	60.785 ppb	16.2912	26.80%
Cd 226.502†	312343.2	9475.9 µg/L	377.47	9475.9 ppb	377.47	3.98%
QC value within limits for Cd 226.502 Recovery = 94.76%						
Co 228.616†	170692.7	9290.3 µg/L	410.25	9290.3 ppb	410.25	4.42%
QC value within limits for Co 228.616 Recovery = 92.90%						
Cr 267.716†	887551.9	23736 µg/L	1290.7	23736 ppb	1290.7	5.44%

QC value within limits for Cr 267.716 Recovery = 94.94%

Cu 324.752†	2651816.6	20074 µg/L	835.4	20074 ppb	835.4	4.16%
QC value within limits for Cu 324.752 Recovery = 100.37%						
Fe 238.204 Radial†	-2.0	183.50 µg/L	15.855	183.50 ppb	15.855	8.64%
K 766.490 Radial†	500669.9	297430 µg/L	1741.4	297430 ppb	1741.4	0.59%
QC value within limits for K 766.490 Radial Recovery = 99.14%						
Mg 279.077 IEC†	-9.1	76.610 µg/L	20.8238	76.610 ppb	20.8238	27.18%
Mn 257.610†	2500219.2	9455.7 µg/L	391.66	9455.7 ppb	391.66	4.14%
QC value within limits for Mn 257.610 Recovery = 94.56%						
Mo 202.031†	81997.0	9893.8 µg/L	419.09	9893.8 ppb	419.09	4.24%
QC value within limits for Mo 202.031 Recovery = 98.94%						
Na 589.592 Radial†	520.2	160.57 µg/L	17.659	160.57 ppb	17.659	11.00%
Ni 231.604†	134495.1	9817.5 µg/L	428.83	9817.5 ppb	428.83	4.37%
QC value within limits for Ni 231.604 Recovery = 98.18%						
P 214.914†	8236.0	16729 µg/L	1299.1	16729 ppb	1299.1	7.77%
QC value greater than the upper limit for P 214.914 Recovery = 111.53%						
Pb 220.353†	70685.7	23531 µg/L	1457.1	23531 ppb	1457.1	6.19%
QC value within limits for Pb 220.353 Recovery = 94.12%						
S 181.975 Axial†	12455.7	51680 µg/L	2700.8	51680 ppb	2700.8	5.23%
QC value within limits for S 181.975 Axial Recovery = 103.36%						
Sb 206.836†	8869.5	9961.2 µg/L	618.01	9961.2 ppb	618.01	6.20%
QC value within limits for Sb 206.836 Recovery = 99.61%						
Se 196.026†	7488.0	9691.0 µg/L	547.70	9691.0 ppb	547.70	5.65%
QC value within limits for Se 196.026 Recovery = 96.91%						
SiO2†	434988.4	99508 µg/L	2739.7	99508 ppb	2739.7	2.75%
QC value within limits for SiO2 Recovery = 93.00%						
Si 251.611†	541918.1	46475 µg/L	1268.5	46475 ppb	1268.5	2.73%
QC value within limits for Si 251.611 Recovery = 92.95%						
Sn 189.927†	20273.1	9980.7 µg/L	806.13	9980.7 ppb	806.13	8.08%
QC value within limits for Sn 189.927 Recovery = 99.81%						
Sr 421.552†	2249458.4	9355.8 µg/L	69.92	9355.8 ppb	69.92	0.75%
QC value within limits for Sr 421.552 Recovery = 93.56%						
Ti 334.940†	3434512.0	9661.4 µg/L	399.14	9661.4 ppb	399.14	4.13%
QC value within limits for Ti 334.940 Recovery = 96.61%						
Tl 190.801†	7589.8	9353.2 µg/L	362.75	9353.2 ppb	362.75	3.88%
QC value within limits for Tl 190.801 Recovery = 93.53%						
U 409.014†	-7422.9	-771.82 µg/L	32.217	-771.82 ppb	32.217	4.17%
V 292.402†	744371.1	10023 µg/L	445.0	10023 ppb	445.0	4.44%
QC value within limits for V 292.402 Recovery = 100.23%						
Zn 213.857†	503059.1	14071 µg/L	583.5	14071 ppb	583.5	4.15%
QC value within limits for Zn 213.857 Recovery = 93.81%						

QC Failed. Continue with analysis.

Sequence No.: 13

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : optima

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 02:31:22

Data Type: Reprocessed on 2/26/2010 03:34:54

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	1678635.6	1678635.6	101.03 %		02:33:24
1	Sc RADIAL	112081.7	112081.7	101 %		02:32:00
1	Y 371.029	942353.3	942353.3	100.55 %		02:33:24
1	Ag 328.068†	55149.6	55106.0	519.42 µg/L	519.42 ppb	02:33:30
1	Al 396.153Radial†	9787.6	9729.3	5139.0 µg/L	5139.0 ppb	02:32:00
1	As 188.979†	280.9	285.7	547.40 µg/L	547.40 ppb	02:33:50
1	B 249.677†	9728.0	9462.2	521.58 µg/L	521.58 ppb	02:33:30
1	Ba 233.527†	19684.2	19494.1	528.32 µg/L	528.32 ppb	02:33:30
1	Be 313.107†	703242.7	697758.7	521.05 µg/L	521.05 ppb	02:33:24
1	Ca 317.933Radial†	15918.7	15219.9	5195.7 µg/L	5195.7 ppb	02:32:00
1	Cd 226.502†	17513.9	17476.4	529.63 µg/L	529.63 ppb	02:33:30
1	Co 228.616†	9882.4	9755.0	530.98 µg/L	530.98 ppb	02:33:30
1	Cr 267.716†	20214.4	19939.7	533.44 µg/L	533.44 ppb	02:33:30
1	Cu 324.752†	72801.8	69431.0	526.54 µg/L	526.54 ppb	02:33:30
1	Fe 238.204 Radial†	774.5	730.9	5071.0 µg/L	5071.0 ppb	02:32:21
1	K 766.490 Radial†	9218.5	8848.3	5256.5 µg/L	5256.5 ppb	02:32:00
1	Mg 279.077 IEC†	545.6	525.0	5194.7 µg/L	5194.7 ppb	02:32:21
1	Mn 257.610†	141603.0	140739.0	532.22 µg/L	532.22 ppb	02:33:24
1	Mo 202.031†	4635.8	4586.3	553.58 µg/L	553.58 ppb	02:33:50
1	Na 589.592 Radial†	32752.1	32003.7	9878.5 µg/L	9878.5 ppb	02:32:00
1	Ni 231.604†	7962.3	7586.0	553.80 µg/L	553.80 ppb	02:33:30
1	P 214.914†	1442.4	1186.4	2643.8 µg/L	2643.8 ppb	02:33:50
1	Pb 220.353†	1702.6	1650.5	549.79 µg/L	549.79 ppb	02:33:50
1	S 181.975 Axial†	281.0	257.6	1068.8 µg/L	1068.8 ppb	02:33:50
1	Sb 206.836†	513.6	489.2	558.27 µg/L	558.27 ppb	02:33:50
1	Se 196.026†	437.8	419.0	554.99 µg/L	554.99 ppb	02:33:50
1	SiO2†	26428.8	24755.5	5663.1 µg/L	5663.1 ppb	02:33:30
1	Si 251.611†	31635.5	30929.7	2652.5 µg/L	2652.5 ppb	02:33:30
1	Sn 189.927†	1130.2	1117.7	550.62 µg/L	550.62 ppb	02:33:50
1	Sr 421.552†	118526.6	116826.6	485.90 µg/L	485.90 ppb	02:32:00
1	Ti 334.940†	188432.0	186521.3	524.36 µg/L	524.36 ppb	02:33:24
1	Tl 190.801†	413.0	435.3	536.51 µg/L	536.51 ppb	02:33:50
1	U 409.014†	5226.5	5029.1	521.89 µg/L	521.89 ppb	02:33:30
1	V 292.402†	39882.4	39621.1	532.77 µg/L	532.77 ppb	02:33:30
1	Zn 213.857†	19964.1	19150.3	534.71 µg/L	534.71 ppb	02:33:30
2	Sc 361.383	1695325.9	1695325.9	102.03 %		02:33:57
2	Sc RADIAL	112213.5	112213.5	101 %		02:32:26
2	Y 371.029	955537.6	955537.6	101.95 %		02:33:57
2	Ag 328.068†	55240.9	54658.1	515.21 µg/L	515.21 ppb	02:34:03
2	Al 396.153Radial†	9832.2	9761.8	5156.4 µg/L	5156.4 ppb	02:32:26
2	As 188.979†	279.8	281.9	540.03 µg/L	540.03 ppb	02:34:23
2	B 249.677†	9724.5	9363.9	516.09 µg/L	516.09 ppb	02:34:03
2	Ba 233.527†	19640.1	19259.1	521.95 µg/L	521.95 ppb	02:34:03
2	Be 313.107†	714282.8	701726.0	524.01 µg/L	524.01 ppb	02:33:57
2	Ca 317.933Radial†	16029.4	15310.6	5226.7 µg/L	5226.7 ppb	02:32:26
2	Cd 226.502†	17533.7	17325.1	525.03 µg/L	525.03 ppb	02:34:03
2	Co 228.616†	9841.5	9618.6	523.54 µg/L	523.54 ppb	02:34:03
2	Cr 267.716†	20270.2	19797.4	529.63 µg/L	529.63 ppb	02:34:03
2	Cu 324.752†	72687.1	68609.1	520.33 µg/L	520.33 ppb	02:34:03
2	Fe 238.204 Radial†	789.1	744.4	5164.3 µg/L	5164.3 ppb	02:32:47
2	K 766.490 Radial†	9220.6	8839.7	5251.4 µg/L	5251.4 ppb	02:32:26
2	Mg 279.077 IEC†	562.7	541.3	5355.6 µg/L	5355.6 ppb	02:32:47
2	Mn 257.610†	144062.8	141769.9	536.11 µg/L	536.11 ppb	02:33:57
2	Mo 202.031†	4612.4	4518.1	545.36 µg/L	545.36 ppb	02:34:23
2	Na 589.592 Radial†	32993.7	32204.0	9940.3 µg/L	9940.3 ppb	02:32:26
2	Ni 231.604†	7950.8	7497.2	547.32 µg/L	547.32 ppb	02:34:03
2	P 214.914†	1447.6	1177.5	2624.1 µg/L	2624.1 ppb	02:34:23
2	Pb 220.353†	1683.9	1615.5	538.17 µg/L	538.17 ppb	02:34:23

2	S 181.975 Axial†	282.8	256.5	1064.4 µg/L	1064.4 ppb	02:34:23
2	Sb 206.836†	508.6	479.3	546.88 µg/L	546.88 ppb	02:34:23
2	Se 196.026†	437.6	414.5	549.47 µg/L	549.47 ppb	02:34:23
2	SiO2†	26364.0	24434.4	5589.6 µg/L	5589.6 ppb	02:34:03
2	Si 251.611†	31617.1	30603.4	2624.6 µg/L	2624.6 ppb	02:34:03
2	Sn 189.927†	1135.0	1111.3	547.53 µg/L	547.53 ppb	02:34:23
2	Sr 421.552†	119320.6	117471.9	488.58 µg/L	488.58 ppb	02:32:26
2	Ti 334.940†	191147.8	187346.8	526.67 µg/L	526.67 ppb	02:33:57
2	Tl 190.801†	419.8	438.0	539.82 µg/L	539.82 ppb	02:34:23
2	U 409.014†	5014.4	4770.3	494.97 µg/L	494.97 ppb	02:34:03
2	V 292.402†	39832.6	39183.7	526.86 µg/L	526.86 ppb	02:34:03
2	Zn 213.857†	19938.1	18930.3	528.55 µg/L	528.55 ppb	02:34:03
3	Sc 361.383	1673040.2	1673040.2	100.69 %		02:34:31
3	Sc RADIAL	112862.2	112862.2	102 %		02:32:52
3	Y 371.029	940482.4	940482.4	100.35 %		02:34:31
3	Ag 328.068†	52928.6	53082.8	500.25 µg/L	500.25 ppb	02:34:36
3	Al 396.153Radial†	9867.5	9740.7	5146.7 µg/L	5146.7 ppb	02:32:52
3	As 188.979†	238.3	244.4	468.12 µg/L	468.12 ppb	02:34:57
3	B 249.677†	9306.2	9075.5	500.10 µg/L	500.10 ppb	02:34:36
3	Ba 233.527†	18565.7	18448.5	499.96 µg/L	499.96 ppb	02:34:36
3	Be 313.107†	668805.1	665885.4	497.25 µg/L	497.25 ppb	02:34:31
3	Ca 317.933Radial†	16138.9	15327.0	5232.3 µg/L	5232.3 ppb	02:32:52
3	Cd 226.502†	16462.9	16490.6	499.71 µg/L	499.71 ppb	02:34:36
3	Co 228.616†	9215.9	9125.8	496.67 µg/L	496.67 ppb	02:34:36
3	Cr 267.716†	18564.1	18367.6	491.38 µg/L	491.38 ppb	02:34:36
3	Cu 324.752†	68166.9	65068.8	493.52 µg/L	493.52 ppb	02:34:36
3	Fe 238.204 Radial†	784.3	735.3	5100.7 µg/L	5100.7 ppb	02:33:13
3	K 766.490 Radial†	9259.1	8825.2	5242.8 µg/L	5242.8 ppb	02:32:52
3	Mg 279.077 IEC†	557.4	532.9	5271.4 µg/L	5271.4 ppb	02:33:13
3	Mn 257.610†	135292.3	134940.3	510.28 µg/L	510.28 ppb	02:34:31
3	Mo 202.031†	3953.5	3924.0	473.67 µg/L	473.67 ppb	02:34:57
3	Na 589.592 Radial†	33149.4	32169.6	9929.7 µg/L	9929.7 ppb	02:32:52
3	Ni 231.604†	7385.3	7039.3	513.89 µg/L	513.89 ppb	02:34:36
3	P 214.914†	1275.8	1025.7	2281.2 µg/L	2281.2 ppb	02:34:57
3	Pb 220.353†	1501.4	1456.3	485.01 µg/L	485.01 ppb	02:34:57
3	S 181.975 Axial†	259.4	237.1	983.66 µg/L	983.66 ppb	02:34:57
3	Sb 206.836†	454.6	432.3	492.86 µg/L	492.86 ppb	02:34:57
3	Se 196.026†	394.6	377.5	501.38 µg/L	501.38 ppb	02:34:57
3	SiO2†	25247.6	23669.9	5414.7 µg/L	5414.7 ppb	02:34:36
3	Si 251.611†	30153.4	29562.6	2535.3 µg/L	2535.3 ppb	02:34:36
3	Sn 189.927†	950.2	942.7	464.50 µg/L	464.50 ppb	02:34:57
3	Sr 421.552†	119843.3	117308.1	487.90 µg/L	487.90 ppb	02:32:52
3	Ti 334.940†	178907.6	177686.0	499.50 µg/L	499.50 ppb	02:34:31
3	Tl 190.801†	385.4	409.3	504.51 µg/L	504.51 ppb	02:34:57
3	U 409.014†	4685.4	4509.1	467.81 µg/L	467.81 ppb	02:34:36
3	V 292.402†	36821.5	36713.2	493.36 µg/L	493.36 ppb	02:34:36
3	Zn 213.857†	18630.7	17892.2	499.56 µg/L	499.56 ppb	02:34:36

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1682333.9	101.25 %	0.698			0.69%
Sc RADIAL	112385.8	102 %	0.4			0.37%
Y 371.029	946124.4	100.95 %	0.875			0.87%
Ag 328.068†	54282.3	511.63 µg/L	10.074	511.63 ppb	10.074	1.97%
QC value within limits for Ag 328.068 Recovery = 102.33%						
Al 396.153Radial†	9744.0	5147.4 µg/L	8.73	5147.4 ppb	8.73	0.17%
QC value within limits for Al 396.153Radial Recovery = 102.95%						
As 188.979†	270.7	518.52 µg/L	43.796	518.52 ppb	43.796	8.45%
QC value within limits for As 188.979 Recovery = 103.70%						
B 249.677†	9300.5	512.59 µg/L	11.156	512.59 ppb	11.156	2.18%
QC value within limits for B 249.677 Recovery = 102.52%						
Ba 233.527†	19067.2	516.74 µg/L	14.878	516.74 ppb	14.878	2.88%
QC value within limits for Ba 233.527 Recovery = 103.35%						
Be 313.107†	688456.7	514.10 µg/L	14.672	514.10 ppb	14.672	2.85%
QC value within limits for Be 313.107 Recovery = 102.82%						
Ca 317.933Radial†	15285.9	5218.2 µg/L	19.69	5218.2 ppb	19.69	0.38%
QC value within limits for Ca 317.933Radial Recovery = 104.36%						
Cd 226.502†	17097.4	518.13 µg/L	16.112	518.13 ppb	16.112	3.11%
QC value within limits for Cd 226.502 Recovery = 103.63%						

Co 228.616†	9499.8	517.06 µg/L	18.046	517.06 ppb	18.046	3.49%
QC value within limits for Co 228.616 Recovery = 103.41%						
Cr 267.716†	19368.3	518.15 µg/L	23.260	518.15 ppb	23.260	4.49%
QC value within limits for Cr 267.716 Recovery = 103.63%						
Cu 324.752†	67703.0	513.46 µg/L	17.547	513.46 ppb	17.547	3.42%
QC value within limits for Cu 324.752 Recovery = 102.69%						
Fe 238.204 Radial†	736.8	5112.0 µg/L	47.65	5112.0 ppb	47.65	0.93%
QC value within limits for Fe 238.204 Radial Recovery = 102.24%						
K 766.490 Radial†	8837.7	5250.2 µg/L	6.94	5250.2 ppb	6.94	0.13%
QC value within limits for K 766.490 Radial Recovery = 105.00%						
Mg 279.077 IEC†	533.1	5273.9 µg/L	80.47	5273.9 ppb	80.47	1.53%
QC value within limits for Mg 279.077 IEC Recovery = 105.48%						
Mn 257.610†	139149.8	526.20 µg/L	13.924	526.20 ppb	13.924	2.65%
QC value within limits for Mn 257.610 Recovery = 105.24%						
Mo 202.031†	4342.8	524.20 µg/L	43.954	524.20 ppb	43.954	8.39%
QC value within limits for Mo 202.031 Recovery = 104.84%						
Na 589.592 Radial†	32125.7	9916.2 µg/L	33.05	9916.2 ppb	33.05	0.33%
QC value within limits for Na 589.592 Radial Recovery = 99.16%						
Ni 231.604†	7374.2	538.34 µg/L	21.419	538.34 ppb	21.419	3.98%
QC value within limits for Ni 231.604 Recovery = 107.67%						
P 214.914†	1129.9	2516.4 µg/L	203.90	2516.4 ppb	203.90	8.10%
QC value within limits for P 214.914 Recovery = 100.66%						
Pb 220.353†	1574.1	524.32 µg/L	34.537	524.32 ppb	34.537	6.59%
QC value within limits for Pb 220.353 Recovery = 104.86%						
S 181.975 Axial†	250.4	1039.0 µg/L	47.95	1039.0 ppb	47.95	4.62%
QC value within limits for S 181.975 Axial Recovery = 103.90%						
Sb 206.836†	466.9	532.67 µg/L	34.942	532.67 ppb	34.942	6.56%
QC value within limits for Sb 206.836 Recovery = 106.53%						
Se 196.026†	403.7	535.28 µg/L	29.490	535.28 ppb	29.490	5.51%
QC value within limits for Se 196.026 Recovery = 107.06%						
SiO2†	24286.6	5555.8 µg/L	127.58	5555.8 ppb	127.58	2.30%
QC value within limits for SiO2 Recovery = 103.90%						
Si 251.611†	30365.2	2604.1 µg/L	61.23	2604.1 ppb	61.23	2.35%
QC value within limits for Si 251.611 Recovery = 104.17%						
Sn 189.927†	1057.2	520.88 µg/L	48.853	520.88 ppb	48.853	9.38%
QC value within limits for Sn 189.927 Recovery = 104.18%						
Sr 421.552†	117202.2	487.46 µg/L	1.395	487.46 ppb	1.395	0.29%
QC value within limits for Sr 421.552 Recovery = 97.49%						
Ti 334.940†	183851.3	516.85 µg/L	15.064	516.85 ppb	15.064	2.91%
QC value within limits for Ti 334.940 Recovery = 103.37%						
Tl 190.801†	427.5	526.95 µg/L	19.500	526.95 ppb	19.500	3.70%
QC value within limits for Tl 190.801 Recovery = 105.39%						
U 409.014†	4769.5	494.89 µg/L	27.037	494.89 ppb	27.037	5.46%
QC value within limits for U 409.014 Recovery = 98.98%						
V 292.402†	38506.0	517.67 µg/L	21.255	517.67 ppb	21.255	4.11%
QC value within limits for V 292.402 Recovery = 103.53%						
Zn 213.857†	18657.6	520.94 µg/L	18.774	520.94 ppb	18.774	3.60%
QC value within limits for Zn 213.857 Recovery = 104.19%						

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : optima

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 02:35:07

Data Type: Reprocessed on 2/26/2010 03:35:42

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	1686355.0	1686355.0	101.49 %			02:37:02
1	Sc RADIAL	111373.8	111373.8	101 %			02:35:39
1	Y 371.029	948939.7	948939.7	101.25 %			02:37:02
1	Ag 328.068†	-441.3	82.5	0.7707 µg/L		0.7707 ppb	02:37:08
1	Al 396.153Radial†	-99.7	-28.9	-15.327 µg/L		-15.327 ppb	02:35:39
1	As 188.979†	-5.4	2.3	4.3865 µg/L		4.3865 ppb	02:37:28
1	B 249.677†	222.3	52.2	2.8859 µg/L		2.8859 ppb	02:37:28
1	Ba 233.527†	-0.2	9.9	0.2685 µg/L		0.2685 ppb	02:37:28
1	Be 313.107†	-1510.8	179.4	0.1338 µg/L		0.1338 ppb	02:37:08
1	Ca 317.933Radial†	437.7	-55.2	-18.834 µg/L		-18.834 ppb	02:36:00
1	Cd 226.502†	-124.9	17.6	0.5333 µg/L		0.5333 ppb	02:37:28
1	Co 228.616†	30.4	3.1	0.1680 µg/L		0.1680 ppb	02:37:28
1	Cr 267.716†	96.1	25.6	0.6842 µg/L		0.6842 ppb	02:37:08
1	Cu 324.752†	2676.7	6.9	0.0530 µg/L		0.0530 ppb	02:37:08
1	Fe 238.204 Radial†	34.1	0.4	3.0549 µg/L		3.0549 ppb	02:36:00
1	K 766.490 Radial†	456.6	204.3	121.35 µg/L		121.35 ppb	02:35:39
1	Mg 279.077 IEC†	12.3	-1.1	-11.281 µg/L		-11.281 ppb	02:36:00
1	Mn 257.610†	-463.0	119.9	0.4542 µg/L		0.4542 ppb	02:37:28
1	Mo 202.031†	21.8	19.1	2.2994 µg/L		2.2994 ppb	02:37:28
1	Na 589.592 Radial†	386.9	65.9	20.352 µg/L		20.352 ppb	02:35:39
1	Ni 231.604†	319.9	19.9	1.4566 µg/L		1.4566 ppb	02:37:28
1	P 214.914†	239.6	-5.2	-11.843 µg/L		-11.843 ppb	02:37:28
1	Pb 220.353†	45.5	10.0	3.3453 µg/L		3.3453 ppb	02:37:28
1	S 181.975 Axial†	18.2	-2.7	-11.130 µg/L		-11.130 ppb	02:37:28
1	Sb 206.836†	24.3	4.8	5.4345 µg/L		5.4345 ppb	02:37:28
1	Se 196.026†	16.5	1.9	2.4339 µg/L		2.4339 ppb	02:37:28
1	SiO2†	1494.1	67.6	15.457 µg/L		15.457 ppb	02:37:08
1	Si 251.611†	492.9	101.6	8.7137 µg/L		8.7137 ppb	02:37:28
1	Sn 189.927†	4.0	2.9	1.4423 µg/L		1.4423 ppb	02:37:28
1	Sr 421.552†	175.1	30.1	0.1252 µg/L		0.1252 ppb	02:35:39
1	Ti 334.940†	167.0	170.2	0.4793 µg/L		0.4793 ppb	02:37:08
1	Tl 190.801†	-24.0	2.9	3.5043 µg/L		3.5043 ppb	02:37:28
1	U 409.014†	70.8	-74.5	-7.7436 µg/L		-7.7436 ppb	02:37:08
1	V 292.402†	-157.3	-10.7	-0.1309 µg/L		-0.1309 ppb	02:37:08
1	Zn 213.857†	661.4	40.9	1.1440 µg/L		1.1440 ppb	02:37:28
2	Sc 361.383	1669861.7	1669861.7	100.50 %			02:37:34
2	Sc RADIAL	110689.1	110689.1	100 %			02:36:05
2	Y 371.029	940305.2	940305.2	100.33 %			02:37:34
2	Ag 328.068†	-495.8	23.9	0.2262 µg/L		0.2262 ppb	02:37:40
2	Al 396.153Radial†	-123.1	-52.8	-28.009 µg/L		-28.009 ppb	02:36:05
2	As 188.979†	-7.2	0.5	1.0147 µg/L		1.0147 ppb	02:38:00
2	B 249.677†	217.8	49.8	2.7552 µg/L		2.7552 ppb	02:38:00
2	Ba 233.527†	5.5	15.6	0.4218 µg/L		0.4218 ppb	02:38:00
2	Be 313.107†	-1444.2	230.9	0.1723 µg/L		0.1723 ppb	02:37:40
2	Ca 317.933Radial†	440.9	-49.3	-16.819 µg/L		-16.819 ppb	02:36:26
2	Cd 226.502†	-128.9	12.3	0.3740 µg/L		0.3740 ppb	02:38:00
2	Co 228.616†	28.4	1.4	0.0739 µg/L		0.0739 ppb	02:38:00
2	Cr 267.716†	104.6	35.0	0.9350 µg/L		0.9350 ppb	02:37:40
2	Cu 324.752†	2702.2	58.4	0.4419 µg/L		0.4419 ppb	02:37:40
2	Fe 238.204 Radial†	33.6	0.1	0.8729 µg/L		0.8729 ppb	02:36:26
2	K 766.490 Radial†	477.9	228.3	135.65 µg/L		135.65 ppb	02:36:05
2	Mg 279.077 IEC†	13.3	-0.1	-1.0946 µg/L		-1.0946 ppb	02:36:26
2	Mn 257.610†	-454.1	124.3	0.4701 µg/L		0.4701 ppb	02:38:00
2	Mo 202.031†	16.9	14.4	1.7400 µg/L		1.7400 ppb	02:38:00
2	Na 589.592 Radial†	355.7	37.1	11.437 µg/L		11.437 ppb	02:36:05
2	Ni 231.604†	298.8	2.0	0.1460 µg/L		0.1460 ppb	02:38:00
2	P 214.914†	247.2	4.7	10.616 µg/L		10.616 ppb	02:38:00
2	Pb 220.353†	27.1	-7.8	-2.5874 µg/L		-2.5874 ppb	02:38:00

2	S 181.975 Axial†	19.8	-0.9	-3.6657 µg/L	-3.6657 ppb	02:38:00
2	Sb 206.836†	23.8	4.6	5.1985 µg/L	5.1985 ppb	02:38:00
2	Se 196.026†	20.6	6.1	7.8875 µg/L	7.8875 ppb	02:38:00
2	SiO2†	1518.8	106.7	24.418 µg/L	24.418 ppb	02:37:40
2	Si 251.611†	503.3	116.8	10.017 µg/L	10.017 ppb	02:38:00
2	Sn 189.927†	5.6	4.5	2.2229 µg/L	2.2229 ppb	02:38:00
2	Sr 421.552†	189.2	45.3	0.1883 µg/L	0.1883 ppb	02:36:05
2	Ti 334.940†	216.2	220.7	0.6208 µg/L	0.6208 ppb	02:37:40
2	Tl 190.801†	-22.5	4.1	5.0440 µg/L	5.0440 ppb	02:38:00
2	U 409.014†	126.6	-18.3	-1.9014 µg/L	-1.9014 ppb	02:37:40
2	V 292.402†	-119.8	25.1	0.3474 µg/L	0.3474 ppb	02:37:40
2	Zn 213.857†	672.6	58.5	1.6446 µg/L	1.6446 ppb	02:38:00
3	Sc 361.383	1662262.3	1662262.3	100.04 %		02:38:06
3	Sc RADIAL	110742.7	110742.7	100 %		02:36:31
3	Y 371.029	935783.5	935783.5	99.845 %		02:38:06
3	Ag 328.068†	-455.9	61.5	0.5743 µg/L	0.5743 ppb	02:38:12
3	Al 396.153Radial†	-107.0	-36.7	-19.455 µg/L	-19.455 ppb	02:36:31
3	As 188.979†	-2.2	5.5	10.468 µg/L	10.468 ppb	02:38:32
3	B 249.677†	219.4	52.5	2.9107 µg/L	2.9107 ppb	02:38:32
3	Ba 233.527†	7.1	17.2	0.4667 µg/L	0.4667 ppb	02:38:32
3	Be 313.107†	-1421.6	247.0	0.1842 µg/L	0.1842 ppb	02:38:12
3	Ca 317.933Radial†	443.1	-47.2	-16.116 µg/L	-16.116 ppb	02:36:52
3	Cd 226.502†	-128.4	12.3	0.3746 µg/L	0.3746 ppb	02:38:32
3	Co 228.616†	43.1	16.2	0.8808 µg/L	0.8808 ppb	02:38:32
3	Cr 267.716†	122.5	53.4	1.4266 µg/L	1.4266 ppb	02:38:12
3	Cu 324.752†	2735.4	103.8	0.7835 µg/L	0.7835 ppb	02:38:12
3	Fe 238.204 Radial†	31.5	-1.9	-13.362 µg/L	-13.362 ppb	02:36:52
3	K 766.490 Radial†	439.8	190.1	112.91 µg/L	112.91 ppb	02:36:31
3	Mg 279.077 IEC†	9.3	-4.1	-40.853 µg/L	-40.853 ppb	02:36:52
3	Mn 257.610†	-462.6	113.7	0.4319 µg/L	0.4319 ppb	02:38:32
3	Mo 202.031†	14.1	11.6	1.4049 µg/L	1.4049 ppb	02:38:32
3	Na 589.592 Radial†	396.3	77.5	23.921 µg/L	23.921 ppb	02:36:31
3	Ni 231.604†	309.0	13.6	0.9907 µg/L	0.9907 ppb	02:38:32
3	P 214.914†	245.3	3.9	8.8474 µg/L	8.8474 ppb	02:38:32
3	Pb 220.353†	38.2	3.4	1.1220 µg/L	1.1220 ppb	02:38:32
3	S 181.975 Axial†	21.3	0.7	2.8203 µg/L	2.8203 ppb	02:38:32
3	Sb 206.836†	25.0	5.8	6.5839 µg/L	6.5839 ppb	02:38:32
3	Se 196.026†	12.8	-1.6	-2.0645 µg/L	-2.0645 ppb	02:38:32
3	SiO2†	1505.0	99.9	22.851 µg/L	22.851 ppb	02:38:12
3	Si 251.611†	508.7	124.5	10.675 µg/L	10.675 ppb	02:38:32
3	Sn 189.927†	11.0	10.0	4.9173 µg/L	4.9173 ppb	02:38:32
3	Sr 421.552†	236.9	92.9	0.3862 µg/L	0.3862 ppb	02:36:31
3	Ti 334.940†	222.6	228.2	0.6448 µg/L	0.6448 ppb	02:38:12
3	Tl 190.801†	-25.8	0.7	0.9053 µg/L	0.9053 ppb	02:38:32
3	U 409.014†	172.7	28.4	2.9596 µg/L	2.9596 ppb	02:38:12
3	V 292.402†	-137.2	7.2	0.1124 µg/L	0.1124 ppb	02:38:12
3	Zn 213.857†	649.0	38.0	1.0651 µg/L	1.0651 ppb	02:38:32

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1672826.3	100.68 %	0.741			0.74%
Sc RADIAL	110935.2	100 %	0.3			0.34%
Y 371.029	941676.1	100.47 %	0.713			0.71%
Ag 328.068†	56.0	0.5237 µg/L	0.27574	0.5237 ppb	0.27574	52.65%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-39.5	-20.931 µg/L	6.4684	-20.931 ppb	6.4684	30.90%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.8	5.2896 µg/L	4.79077	5.2896 ppb	4.79077	90.57%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	51.5	2.8506 µg/L	0.08354	2.8506 ppb	0.08354	2.93%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.2	0.3857 µg/L	0.10390	0.3857 ppb	0.10390	26.94%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	219.1	0.1635 µg/L	0.02634	0.1635 ppb	0.02634	16.12%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-50.5	-17.256 µg/L	1.4107	-17.256 ppb	1.4107	8.17%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	14.1	0.4273 µg/L	0.09179	0.4273 ppb	0.09179	21.48%
QC value within limits for Cd 226.502 Recovery = Not calculated						

Co 228.616†	6.9	0.3742 µg/L	0.44120	0.3742 ppb	0.44120	117.89%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	38.0	1.0152 µg/L	0.37765	1.0152 ppb	0.37765	37.20%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	56.4	0.4262 µg/L	0.36549	0.4262 ppb	0.36549	85.76%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.5	-3.1446 µg/L	8.91524	-3.1446 ppb	8.91524	283.51%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	207.6	123.30 µg/L	11.494	123.30 ppb	11.494	9.32%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.8	-17.743 µg/L	20.6517	-17.743 ppb	20.6517	116.39%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	119.3	0.4521 µg/L	0.01921	0.4521 ppb	0.01921	4.25%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	15.0	1.8147 µg/L	0.45194	1.8147 ppb	0.45194	24.90%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	60.2	18.570 µg/L	6.4298	18.570 ppb	6.4298	34.63%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	11.8	0.8644 µg/L	0.66437	0.8644 ppb	0.66437	76.86%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	1.1	2.5401 µg/L	12.48733	2.5401 ppb	12.48733	491.60%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	1.9	0.6266 µg/L	2.99719	0.6266 ppb	2.99719	478.29%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-1.0	-3.9916 µg/L	6.98063	-3.9916 ppb	6.98063	174.88%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.0	5.7390 µg/L	0.74119	5.7390 ppb	0.74119	12.92%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.1	2.7523 µg/L	4.98361	2.7523 ppb	4.98361	181.07%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	91.4	20.909 µg/L	4.7858	20.909 ppb	4.7858	22.89%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	114.3	9.8017 µg/L	0.99795	9.8017 ppb	0.99795	10.18%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.8	2.8608 µg/L	1.82322	2.8608 ppb	1.82322	63.73%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	56.1	0.2332 µg/L	0.13617	0.2332 ppb	0.13617	58.38%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	206.4	0.5816 µg/L	0.08939	0.5816 ppb	0.08939	15.37%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	2.6	3.1512 µg/L	2.09182	3.1512 ppb	2.09182	66.38%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-21.4	-2.2285 µg/L	5.35913	-2.2285 ppb	5.35913	240.49%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	7.2	0.1096 µg/L	0.23914	0.1096 ppb	0.23914	218.13%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	45.8	1.2846 µg/L	0.31426	1.2846 ppb	0.31426	24.46%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

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Analysis Begun

Start Time: 2/26/2010 03:38:23

Plasma On Time: 2/8/2010 03:37:33

Logged In Analyst: optima

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1030502 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima1\Sample Information\022610.SIF

Batch ID:

Results Data Set: 022610D

Results Library: c:\pe\optima1\Results\Results.mdb

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Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 2/26/2010 01:51:42

IEC File: 011510.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 113

Sample ID: LR2

Date Collected: 2/26/2010 03:38:25

Analyst: JWJ

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	113613.7	113613.7	103 %		03:39:00
1	Al 396.153Radial†	-130.3	-56.7	-30.015 µg/L	-30.015 ppb	03:39:00
1	Ca 317.933Radial†	432.3	-68.9	-23.536 µg/L	-23.536 ppb	03:39:20
1	Fe 238.204 Radial†	29.9	-4.3	-30.386 µg/L	-30.386 ppb	03:39:20

1	K 766.490 Radial†	386.6	127.2	75.562 µg/L	75.562 ppb	03:39:00
1	Mg 279.077 IEC†	13.5	-0.3	-2.6531 µg/L	-2.6531 ppb	03:39:20
1	Na 589.592 Radial†	301.8	-24.5	-7.5724 µg/L	-7.5724 ppb	03:39:00
1	Sr 421.552†	176.2	27.7	0.1154 µg/L	0.1154 ppb	03:39:00
1	Sc 361.383	1706646.3	1706646.3	102.71 %		03:40:23
1	Y 371.029	955965.8	955965.8	102.00 %		03:40:23
1	Ag 328.068†	-515.3	15.6	0.1445 µg/L	0.1445 ppb	03:40:28
1	As 188.979†	-4.0	3.8	7.2708 µg/L	7.2708 ppb	03:40:49
1	B 249.677†	151.5	-19.4	-1.0568 µg/L	-1.0568 ppb	03:40:49
1	Ba 233.527†	391445.4	381115.1	10310 µg/L	10310 ppb	03:40:23
1	Be 313.107†	-1726.9	-13.3	-0.0099 µg/L	-0.0099 ppb	03:40:28
1	Cd 226.502†	-149.4	-4.9	-0.1447 µg/L	-0.1447 ppb	03:40:49
1	Co 228.616†	-240.8	-261.4	-14.242 µg/L	-14.242 ppb	03:40:49
1	Cr 267.716†	98.2	26.5	0.7082 µg/L	0.7082 ppb	03:40:28
1	Cu 324.752†	2676.6	-24.5	-0.1911 µg/L	-0.1911 ppb	03:40:28
1	Mn 257.610†	-573.8	17.4	0.0643 µg/L	0.0643 ppb	03:40:49
1	Mo 202.031†	2.7	0.2	0.0242 µg/L	0.0242 ppb	03:40:49
1	Ni 231.604†	299.8	-3.4	-0.2322 µg/L	-0.2322 ppb	03:40:49
1	P 214.914†	4758.6	4391.6	9971.6 µg/L	9971.6 ppb	03:40:28
1	Pb 220.353†	38.4	2.6	0.8394 µg/L	0.8394 ppb	03:40:49
1	S 181.975 Axial†	20.3	-0.8	-3.4723 µg/L	-3.4723 ppb	03:40:49
1	Sb 206.836†	20.5	0.8	0.9405 µg/L	0.9405 ppb	03:40:49
1	Se 196.026†	11.4	-3.2	-4.2949 µg/L	-4.2949 ppb	03:40:49
1	SiO2†	1444.5	1.9	0.4256 µg/L	0.4256 ppb	03:40:28
1	Si 251.611†	403.5	8.8	0.7553 µg/L	0.7553 ppb	03:40:49
1	Sn 189.927†	-0.7	-1.7	-0.8573 µg/L	-0.8573 ppb	03:40:49
1	Ti 334.940†	2.8	8.3	0.0232 µg/L	0.0232 ppb	03:40:28
1	Tl 190.801†	-24.2	3.0	3.6744 µg/L	3.6744 ppb	03:40:49
1	U 409.014†	259.6	108.5	11.284 µg/L	11.284 ppb	03:40:28
1	V 292.402†	-123.3	24.3	0.3351 µg/L	0.3351 ppb	03:40:28
1	Zn 213.857†	574.6	-51.4	-1.4426 µg/L	-1.4426 ppb	03:40:49
2	Sc RADIAL	112922.5	112922.5	102 %		03:39:25
2	Al 396.153Radial†	-127.5	-54.8	-29.019 µg/L	-29.019 ppb	03:39:25
2	Ca 317.933Radial†	442.8	-56.0	-19.130 µg/L	-19.130 ppb	03:39:46
2	Fe 238.204 Radial†	30.8	-3.2	-22.729 µg/L	-22.729 ppb	03:39:46
2	K 766.490 Radial†	271.7	17.0	10.081 µg/L	10.081 ppb	03:39:25
2	Mg 279.077 IEC†	10.1	-3.5	-34.245 µg/L	-34.245 ppb	03:39:46
2	Na 589.592 Radial†	307.6	-17.0	-5.2560 µg/L	-5.2560 ppb	03:39:25
2	Sr 421.552†	154.5	7.6	0.0315 µg/L	0.0315 ppb	03:39:25
2	Sc 361.383	1719708.7	1719708.7	103.50 %		03:40:55
2	Y 371.029	961198.8	961198.8	102.56 %		03:40:55
2	Ag 328.068†	-543.6	-7.9	-0.0754 µg/L	-0.0754 ppb	03:41:01
2	As 188.979†	1.3	8.9	17.025 µg/L	17.025 ppb	03:41:21
2	B 249.677†	166.0	-6.5	-0.3483 µg/L	-0.3483 ppb	03:41:21
2	Ba 233.527†	396349.2	382958.4	10360 µg/L	10360 ppb	03:40:55
2	Be 313.107†	-1699.9	25.6	0.0191 µg/L	0.0191 ppb	03:41:01
2	Cd 226.502†	-140.6	4.8	0.1464 µg/L	0.1464 ppb	03:41:21
2	Co 228.616†	-234.3	-253.2	-13.798 µg/L	-13.798 ppb	03:41:21
2	Cr 267.716†	81.1	9.3	0.2479 µg/L	0.2479 ppb	03:41:01
2	Cu 324.752†	2714.3	-7.9	-0.0638 µg/L	-0.0638 ppb	03:41:01
2	Mn 257.610†	-563.9	31.2	0.1190 µg/L	0.1190 ppb	03:41:21
2	Mo 202.031†	12.7	9.9	1.1949 µg/L	1.1949 ppb	03:41:21
2	Ni 231.604†	296.1	-9.2	-0.6575 µg/L	-0.6575 ppb	03:41:21
2	P 214.914†	4752.6	4350.7	9878.5 µg/L	9878.5 ppb	03:41:01
2	Pb 220.353†	39.7	3.6	1.2036 µg/L	1.2036 ppb	03:41:21
2	S 181.975 Axial†	23.4	2.1	8.5960 µg/L	8.5960 ppb	03:41:21
2	Sb 206.836†	22.2	2.2	2.5622 µg/L	2.5622 ppb	03:41:21
2	Se 196.026†	14.9	0.0	-0.0015 µg/L	-0.0015 ppb	03:41:21
2	SiO2†	1435.3	-17.8	-4.0719 µg/L	-4.0719 ppb	03:41:01
2	Si 251.611†	421.8	23.5	2.0132 µg/L	2.0132 ppb	03:41:21
2	Sn 189.927†	2.9	1.8	0.8877 µg/L	0.8877 ppb	03:41:21
2	Ti 334.940†	35.2	39.7	0.1140 µg/L	0.1140 ppb	03:41:01
2	Tl 190.801†	-29.9	-2.4	-2.8943 µg/L	-2.8943 ppb	03:41:21
2	U 409.014†	63.1	-83.3	-8.6578 µg/L	-8.6578 ppb	03:41:01
2	V 292.402†	-127.9	20.7	0.2751 µg/L	0.2751 ppb	03:41:01
2	Zn 213.857†	579.0	-51.3	-1.4379 µg/L	-1.4379 ppb	03:41:21
3	Sc RADIAL	111746.1	111746.1	101 %		03:39:51
3	Al 396.153Radial†	-123.9	-52.5	-27.807 µg/L	-27.807 ppb	03:39:51
3	Ca 317.933Radial†	443.5	-50.9	-17.368 µg/L	-17.368 ppb	03:40:12
3	Fe 238.204 Radial†	30.0	-3.7	-26.197 µg/L	-26.197 ppb	03:40:12
3	K 766.490 Radial†	322.2	69.7	41.426 µg/L	41.426 ppb	03:39:51

3	Mg 279.077 IEC†	13.2	-0.4	-3.7340 µg/L	-3.7340 ppb	03:40:12
3	Na 589.592 Radial†	307.0	-14.5	-4.4631 µg/L	-4.4631 ppb	03:39:51
3	Sr 421.552†	177.7	32.1	0.1335 µg/L	0.1335 ppb	03:39:51
3	Sc 361.383	1712143.2	1712143.2	103.04 %		03:41:27
3	Y 371.029	954129.6	954129.6	101.80 %		03:41:27
3	Ag 328.068†	-518.2	14.4	0.1340 µg/L	0.1340 ppb	03:41:33
3	As 188.979†	-6.1	1.7	3.3499 µg/L	3.3499 ppb	03:41:53
3	B 249.677†	175.8	3.8	0.2222 µg/L	0.2222 ppb	03:41:53
3	Ba 233.527†	382869.6	371569.2	10052 µg/L	10052 ppb	03:41:27
3	Be 313.107†	-1806.3	-84.9	-0.0635 µg/L	-0.0635 ppb	03:41:33
3	Cd 226.502†	-140.8	4.0	0.1232 µg/L	0.1232 ppb	03:41:53
3	Co 228.616†	-222.8	-243.1	-13.249 µg/L	-13.249 ppb	03:41:53
3	Cr 267.716†	98.1	26.0	0.6967 µg/L	0.6967 ppb	03:41:33
3	Cu 324.752†	2688.3	-21.5	-0.1679 µg/L	-0.1679 ppb	03:41:33
3	Mn 257.610†	-561.8	30.9	0.1155 µg/L	0.1155 ppb	03:41:53
3	Mo 202.031†	10.2	7.5	0.8996 µg/L	0.8996 ppb	03:41:53
3	Ni 231.604†	308.9	4.5	0.3461 µg/L	0.3461 ppb	03:41:53
3	P 214.914†	4532.8	4157.6	9440.2 µg/L	9440.2 ppb	03:41:33
3	Pb 220.353†	32.1	-3.6	-1.2010 µg/L	-1.2010 ppb	03:41:53
3	S 181.975 Axial†	23.0	1.8	7.3449 µg/L	7.3449 ppb	03:41:53
3	Sb 206.836†	23.2	3.4	3.8175 µg/L	3.8175 ppb	03:41:53
3	Se 196.026†	14.0	-0.8	-1.1176 µg/L	-1.1176 ppb	03:41:53
3	SiO2†	1467.6	19.7	4.5024 µg/L	4.5024 ppb	03:41:33
3	Si 251.611†	434.8	38.0	3.2549 µg/L	3.2549 ppb	03:41:53
3	Sn 189.927†	3.0	1.8	0.9112 µg/L	0.9112 ppb	03:41:53
3	Ti 334.940†	53.2	57.2	0.1609 µg/L	0.1609 ppb	03:41:33
3	Tl 190.801†	-26.2	1.1	1.3912 µg/L	1.3912 ppb	03:41:53
3	U 409.014†	60.9	-85.2	-8.8511 µg/L	-8.8511 ppb	03:41:33
3	V 292.402†	-119.8	28.1	0.3719 µg/L	0.3719 ppb	03:41:33
3	Zn 213.857†	573.7	-54.0	-1.5184 µg/L	-1.5184 ppb	03:41:53

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	1712832.7	103.09 %		0.395			0.38%
Sc RADIAL	112760.8	102 %		0.9			0.84%
Y 371.029	957098.1	102.12 %		0.391			0.38%
Ag 328.068†	7.4	0.0677 µg/L		0.12405	0.0677 ppb	0.12405	183.24%
Al 396.153Radial†	-54.7	-28.947 µg/L		1.1059	-28.947 ppb	1.1059	3.82%
As 188.979†	4.8	9.2154 µg/L		7.04210	9.2154 ppb	7.04210	76.42%
B 249.677†	-7.4	-0.3943 µg/L		0.64075	-0.3943 ppb	0.64075	162.51%
Ba 233.527†	378547.6	10241 µg/L		165.4	10241 ppb	165.4	1.61%
Be 313.107†	-24.2	-0.0181 µg/L		0.04188	-0.0181 ppb	0.04188	231.24%
Ca 317.933Radial†	-58.6	-20.012 µg/L		3.1773	-20.012 ppb	3.1773	15.88%
Cd 226.502†	1.3	0.0416 µg/L		0.16180	0.0416 ppb	0.16180	388.88%
Co 228.616†	-252.6	-13.763 µg/L		0.4975	-13.763 ppb	0.4975	3.61%
Cr 267.716†	20.6	0.5509 µg/L		0.26252	0.5509 ppb	0.26252	47.65%
Cu 324.752†	-18.0	-0.1409 µg/L		0.06780	-0.1409 ppb	0.06780	48.11%
Fe 238.204 Radial†	-3.8	-26.437 µg/L		3.8339	-26.437 ppb	3.8339	14.50%
K 766.490 Radial†	71.3	42.356 µg/L		32.7505	42.356 ppb	32.7505	77.32%
Mg 279.077 IEC†	-1.4	-13.544 µg/L		17.9359	-13.544 ppb	17.9359	132.43%
Mn 257.610†	26.5	0.0996 µg/L		0.03062	0.0996 ppb	0.03062	30.74%
Mo 202.031†	5.9	0.7062 µg/L		0.60883	0.7062 ppb	0.60883	86.21%
Na 589.592 Radial†	-18.7	-5.7638 µg/L		1.61569	-5.7638 ppb	1.61569	28.03%
Ni 231.604†	-2.7	-0.1812 µg/L		0.50376	-0.1812 ppb	0.50376	278.00%
P 214.914†	4300.0	9763.4 µg/L		283.79	9763.4 ppb	283.79	2.91%
Pb 220.353†	0.8	0.2807 µg/L		1.29600	0.2807 ppb	1.29600	461.76%
S 181.975 Axial†	1.0	4.1562 µg/L		6.63599	4.1562 ppb	6.63599	159.66%
Sb 206.836†	2.1	2.4400 µg/L		1.44240	2.4400 ppb	1.44240	59.11%
Se 196.026†	-1.3	-1.8047 µg/L		2.22762	-1.8047 ppb	2.22762	123.44%
SiO2†	1.2	0.2854 µg/L		4.28884	0.2854 ppb	4.28884	>999.9%
Si 251.611†	23.4	2.0078 µg/L		1.24983	2.0078 ppb	1.24983	62.25%
Sn 189.927†	0.6	0.3138 µg/L		1.01431	0.3138 ppb	1.01431	323.20%
Sr 421.552†	22.5	0.0934 µg/L		0.05444	0.0934 ppb	0.05444	58.26%
Ti 334.940†	35.1	0.0994 µg/L		0.07002	0.0994 ppb	0.07002	70.45%
Tl 190.801†	0.6	0.7237 µg/L		3.33484	0.7237 ppb	3.33484	460.78%
U 409.014†	-20.0	-2.0749 µg/L		11.56967	-2.0749 ppb	11.56967	557.59%
V 292.402†	24.4	0.3274 µg/L		0.04887	0.3274 ppb	0.04887	14.93%
Zn 213.857†	-52.3	-1.4663 µg/L		0.04518	-1.4663 ppb	0.04518	3.08%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 03:42:02

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	114562.5	114562.5	104 %		03:42:38
1	Al 396.153Radial†	9666.7	9403.4	4967.0 µg/L	4967.0 ppb	03:42:38
1	Ca 317.933Radial†	16067.3	15023.1	5128.5 µg/L	5128.5 ppb	03:42:38
1	Fe 238.204 Radial†	790.9	730.2	5065.9 µg/L	5065.9 ppb	03:42:58
1	K 766.490 Radial†	8764.8	8213.2	4879.2 µg/L	4879.2 ppb	03:42:38
1	Mg 279.077 IEC†	557.5	524.8	5192.8 µg/L	5192.8 ppb	03:42:58
1	Na 589.592 Radial†	34003.5	32512.0	10035 µg/L	10035 ppb	03:42:38
1	Sr 421.552†	121118.0	116795.7	485.77 µg/L	485.77 ppb	03:42:38
1	Sc 361.383	1704125.9	1704125.9	102.56 %		03:44:02
1	Y 371.029	951376.6	951376.6	101.51 %		03:44:02
1	Ag 328.068†	54516.6	53672.3	505.91 µg/L	505.91 ppb	03:44:07
1	As 188.979†	266.6	267.6	512.70 µg/L	512.70 ppb	03:44:28
1	B 249.677†	9524.6	9119.9	502.61 µg/L	502.61 ppb	03:44:07
1	Ba 233.527†	19486.0	19009.4	515.18 µg/L	515.18 ppb	03:44:07
1	Be 313.107†	687045.4	671553.9	501.48 µg/L	501.48 ppb	03:44:02
1	Cd 226.502†	17248.7	16958.5	513.92 µg/L	513.92 ppb	03:44:07
1	Co 228.616†	9760.1	9489.4	516.53 µg/L	516.53 ppb	03:44:07
1	Cr 267.716†	19771.7	19208.8	513.89 µg/L	513.89 ppb	03:44:07
1	Cu 324.752†	71633.5	67214.0	509.75 µg/L	509.75 ppb	03:44:07
1	Mn 257.610†	138668.5	135781.2	513.47 µg/L	513.47 ppb	03:44:07
1	Mo 202.031†	4510.6	4395.5	530.55 µg/L	530.55 ppb	03:44:28
1	Ni 231.604†	7813.2	7322.7	534.58 µg/L	534.58 ppb	03:44:07
1	P 214.914†	1423.4	1146.6	2554.9 µg/L	2554.9 ppb	03:44:28
1	Pb 220.353†	1656.3	1580.1	526.35 µg/L	526.35 ppb	03:44:28
1	S 181.975 Axial†	278.3	250.7	1040.3 µg/L	1040.3 ppb	03:44:28
1	Sb 206.836†	490.0	458.6	523.36 µg/L	523.36 ppb	03:44:28
1	Se 196.026†	432.2	407.0	539.54 µg/L	539.54 ppb	03:44:28
1	SiO2†	25876.2	23825.3	5450.3 µg/L	5450.3 ppb	03:44:07
1	Si 251.611†	30958.3	29801.0	2555.7 µg/L	2555.7 ppb	03:44:07
1	Sn 189.927†	1118.9	1089.9	536.95 µg/L	536.95 ppb	03:44:28
1	Ti 334.940†	182973.2	178408.9	501.54 µg/L	501.54 ppb	03:44:02
1	Tl 190.801†	412.0	428.2	527.62 µg/L	527.62 ppb	03:44:28
1	U 409.014†	5069.6	4798.8	497.95 µg/L	497.95 ppb	03:44:07
1	V 292.402†	39312.5	38475.0	517.29 µg/L	517.29 ppb	03:44:07
1	Zn 213.857†	19513.8	18415.6	514.16 µg/L	514.16 ppb	03:44:07
2	Sc RADIAL	115024.8	115024.8	104 %		03:43:04
2	Al 396.153Radial†	9658.7	9358.1	4943.1 µg/L	4943.1 ppb	03:43:04
2	Ca 317.933Radial†	15944.9	14843.1	5067.1 µg/L	5067.1 ppb	03:43:04
2	Fe 238.204 Radial†	788.1	724.5	5026.4 µg/L	5026.4 ppb	03:43:24
2	K 766.490 Radial†	8740.7	8156.1	4845.3 µg/L	4845.3 ppb	03:43:04
2	Mg 279.077 IEC†	557.1	522.3	5167.6 µg/L	5167.6 ppb	03:43:24
2	Na 589.592 Radial†	33986.5	32363.7	9989.6 µg/L	9989.6 ppb	03:43:04
2	Sr 421.552†	120832.2	116050.9	482.67 µg/L	482.67 ppb	03:43:04
2	Sc 361.383	1698725.2	1698725.2	102.24 %		03:44:34
2	Y 371.029	946319.0	946319.0	100.97 %		03:44:34
2	Ag 328.068†	54456.2	53782.2	506.95 µg/L	506.95 ppb	03:44:40
2	As 188.979†	270.5	272.3	521.58 µg/L	521.58 ppb	03:45:00
2	B 249.677†	9464.4	9090.5	501.01 µg/L	501.01 ppb	03:44:40
2	Ba 233.527†	19475.4	19059.4	516.53 µg/L	516.53 ppb	03:44:40
2	Be 313.107†	698191.8	684586.2	511.22 µg/L	511.22 ppb	03:44:34
2	Cd 226.502†	17262.0	17025.0	515.94 µg/L	515.94 ppb	03:44:40
2	Co 228.616†	9750.1	9510.0	517.63 µg/L	517.63 ppb	03:44:40
2	Cr 267.716†	19775.5	19273.8	515.63 µg/L	515.63 ppb	03:44:40
2	Cu 324.752†	71372.4	67180.6	509.49 µg/L	509.49 ppb	03:44:40
2	Mn 257.610†	138456.7	136003.9	514.31 µg/L	514.31 ppb	03:44:40
2	Mo 202.031†	4454.9	4355.0	525.67 µg/L	525.67 ppb	03:45:00
2	Ni 231.604†	7825.2	7358.7	537.21 µg/L	537.21 ppb	03:44:40
2	P 214.914†	1420.2	1147.9	2557.9 µg/L	2557.9 ppb	03:45:00
2	Pb 220.353†	1646.8	1576.0	524.95 µg/L	524.95 ppb	03:45:00

2	S 181.975 Axial†	278.0	251.3	1042.9 µg/L	1042.9 ppb	03:45:00
2	Sb 206.836†	489.1	459.2	523.98 µg/L	523.98 ppb	03:45:00
2	Se 196.026†	424.1	400.5	530.97 µg/L	530.97 ppb	03:45:00
2	SiO2†	25856.4	23886.2	5464.2 µg/L	5464.2 ppb	03:44:40
2	Si 251.611†	30964.2	29902.7	2564.5 µg/L	2564.5 ppb	03:44:40
2	Sn 189.927†	1103.7	1078.5	531.36 µg/L	531.36 ppb	03:45:00
2	Ti 334.940†	185856.5	181796.4	511.07 µg/L	511.07 ppb	03:44:34
2	Tl 190.801†	400.6	418.3	515.64 µg/L	515.64 ppb	03:45:00
2	U 409.014†	5109.9	4853.9	503.69 µg/L	503.69 ppb	03:44:40
2	V 292.402†	39315.9	38600.2	518.93 µg/L	518.93 ppb	03:44:40
2	Zn 213.857†	19542.3	18504.0	516.64 µg/L	516.64 ppb	03:44:40
3	Sc RADIAL	115575.0	115575.0	104 %		03:43:30
3	Al 396.153Radial†	9538.3	9198.7	4860.0 µg/L	4860.0 ppb	03:43:30
3	Ca 317.933Radial†	15894.8	14722.2	5025.8 µg/L	5025.8 ppb	03:43:30
3	Fe 238.204 Radial†	792.1	724.7	5027.2 µg/L	5027.2 ppb	03:43:50
3	K 766.490 Radial†	8741.3	8116.5	4821.8 µg/L	4821.8 ppb	03:43:30
3	Mg 279.077 IEC†	554.5	517.3	5117.2 µg/L	5117.2 ppb	03:43:50
3	Na 589.592 Radial†	33791.6	32021.6	9884.0 µg/L	9884.0 ppb	03:43:30
3	Sr 421.552†	119951.1	114654.4	476.87 µg/L	476.87 ppb	03:43:30
3	Sc 361.383	1686132.9	1686132.9	101.48 %		03:45:07
3	Y 371.029	940085.3	940085.3	100.30 %		03:45:07
3	Ag 328.068†	52306.9	52062.0	490.62 µg/L	490.62 ppb	03:45:13
3	As 188.979†	251.8	255.8	490.16 µg/L	490.16 ppb	03:45:34
3	B 249.677†	9063.8	8764.8	482.93 µg/L	482.93 ppb	03:45:13
3	Ba 233.527†	18367.9	18110.4	490.79 µg/L	490.79 ppb	03:45:13
3	Be 313.107†	668426.8	660355.0	493.12 µg/L	493.12 ppb	03:45:07
3	Cd 226.502†	16193.6	16098.2	487.82 µg/L	487.82 ppb	03:45:13
3	Co 228.616†	9076.5	8917.3	485.32 µg/L	485.32 ppb	03:45:13
3	Cr 267.716†	18030.1	17698.3	473.48 µg/L	473.48 ppb	03:45:13
3	Cu 324.752†	66836.8	63232.5	479.61 µg/L	479.61 ppb	03:45:13
3	Mn 257.610†	128914.6	127612.2	482.58 µg/L	482.58 ppb	03:45:13
3	Mo 202.031†	3884.2	3825.2	461.74 µg/L	461.74 ppb	03:45:34
3	Ni 231.604†	7287.0	6885.5	502.66 µg/L	502.66 ppb	03:45:13
3	P 214.914†	1284.1	1024.1	2278.9 µg/L	2278.9 ppb	03:45:34
3	Pb 220.353†	1480.3	1423.9	474.23 µg/L	474.23 ppb	03:45:34
3	S 181.975 Axial†	252.6	228.4	947.51 µg/L	947.51 ppb	03:45:34
3	Sb 206.836†	434.5	409.0	466.40 µg/L	466.40 ppb	03:45:34
3	Se 196.026†	388.2	368.2	489.23 µg/L	489.23 ppb	03:45:34
3	SiO2†	24577.7	22815.1	5219.2 µg/L	5219.2 ppb	03:45:13
3	Si 251.611†	29398.9	28586.5	2451.6 µg/L	2451.6 ppb	03:45:13
3	Sn 189.927†	937.1	922.5	454.52 µg/L	454.52 ppb	03:45:34
3	Ti 334.940†	177115.5	174540.3	490.66 µg/L	490.66 ppb	03:45:07
3	Tl 190.801†	376.8	397.8	490.36 µg/L	490.36 ppb	03:45:34
3	U 409.014†	4665.1	4452.9	462.00 µg/L	462.00 ppb	03:45:13
3	V 292.402†	36280.3	35896.0	482.36 µg/L	482.36 ppb	03:45:13
3	Zn 213.857†	18189.6	17313.8	483.37 µg/L	483.37 ppb	03:45:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1696328.0	102.09 %	0.556			0.54%
Sc RADIAL	115054.1	104 %	0.5			0.44%
Y 371.029	945927.0	100.93 %	0.603			0.60%
Ag 328.068†	53172.2	501.16 µg/L	9.140	501.16 ppb	9.140	1.82%
QC value within limits for Ag 328.068 Recovery = 100.23%						
Al 396.153Radial†	9320.1	4923.4 µg/L	56.14	4923.4 ppb	56.14	1.14%
QC value within limits for Al 396.153Radial Recovery = 98.47%						
As 188.979†	265.2	508.15 µg/L	16.201	508.15 ppb	16.201	3.19%
QC value within limits for As 188.979 Recovery = 101.63%						
B 249.677†	8991.7	495.52 µg/L	10.931	495.52 ppb	10.931	2.21%
QC value within limits for B 249.677 Recovery = 99.10%						
Ba 233.527†	18726.4	507.50 µg/L	14.485	507.50 ppb	14.485	2.85%
QC value within limits for Ba 233.527 Recovery = 101.50%						
Be 313.107†	672165.0	501.94 µg/L	9.056	501.94 ppb	9.056	1.80%
QC value within limits for Be 313.107 Recovery = 100.39%						
Ca 317.933Radial†	14862.8	5073.8 µg/L	51.70	5073.8 ppb	51.70	1.02%
QC value within limits for Ca 317.933Radial Recovery = 101.48%						
Cd 226.502†	16693.9	505.89 µg/L	15.685	505.89 ppb	15.685	3.10%
QC value within limits for Cd 226.502 Recovery = 101.18%						
Co 228.616†	9305.6	506.49 µg/L	18.345	506.49 ppb	18.345	3.62%

Cr	267.716†	18727.0	501.00 µg/L	23.846	501.00 ppb	23.846	4.76%
QC value within limits for Cr 267.716 Recovery = 100.20%							
Cu	324.752†	65875.7	499.62 µg/L	17.330	499.62 ppb	17.330	3.47%
QC value within limits for Cu 324.752 Recovery = 99.92%							
Fe	238.204 Radial†	726.4	5039.8 µg/L	22.55	5039.8 ppb	22.55	0.45%
QC value within limits for Fe 238.204 Radial Recovery = 100.80%							
K	766.490 Radial†	8161.9	4848.8 µg/L	28.88	4848.8 ppb	28.88	0.60%
QC value within limits for K 766.490 Radial Recovery = 96.98%							
Mg	279.077 IEC†	521.5	5159.2 µg/L	38.46	5159.2 ppb	38.46	0.75%
QC value within limits for Mg 279.077 IEC Recovery = 103.18%							
Mn	257.610†	133132.4	503.45 µg/L	18.083	503.45 ppb	18.083	3.59%
QC value within limits for Mn 257.610 Recovery = 100.69%							
Mo	202.031†	4191.9	505.99 µg/L	38.397	505.99 ppb	38.397	7.59%
QC value within limits for Mo 202.031 Recovery = 101.20%							
Na	589.592 Radial†	32299.1	9969.7 µg/L	77.63	9969.7 ppb	77.63	0.78%
QC value within limits for Na 589.592 Radial Recovery = 99.70%							
Ni	231.604†	7189.0	524.82 µg/L	19.229	524.82 ppb	19.229	3.66%
QC value within limits for Ni 231.604 Recovery = 104.96%							
P	214.914†	1106.2	2463.9 µg/L	160.21	2463.9 ppb	160.21	6.50%
QC value within limits for P 214.914 Recovery = 98.56%							
Pb	220.353†	1526.7	508.51 µg/L	29.696	508.51 ppb	29.696	5.84%
QC value within limits for Pb 220.353 Recovery = 101.70%							
S	181.975 Axial†	243.5	1010.2 µg/L	54.33	1010.2 ppb	54.33	5.38%
QC value within limits for S 181.975 Axial Recovery = 101.02%							
Sb	206.836†	442.3	504.58 µg/L	33.067	504.58 ppb	33.067	6.55%
QC value within limits for Sb 206.836 Recovery = 100.92%							
Se	196.026†	391.9	519.91 µg/L	26.915	519.91 ppb	26.915	5.18%
QC value within limits for Se 196.026 Recovery = 103.98%							
SiO2†		23508.9	5377.9 µg/L	137.63	5377.9 ppb	137.63	2.56%
QC value within limits for SiO2 Recovery = 100.57%							
Si	251.611†	29430.1	2523.9 µg/L	62.81	2523.9 ppb	62.81	2.49%
QC value within limits for Si 251.611 Recovery = 100.96%							
Sn	189.927†	1030.3	507.61 µg/L	46.065	507.61 ppb	46.065	9.07%
QC value within limits for Sn 189.927 Recovery = 101.52%							
Sr	421.552†	115833.6	481.77 µg/L	4.521	481.77 ppb	4.521	0.94%
QC value within limits for Sr 421.552 Recovery = 96.35%							
Ti	334.940†	178248.5	501.09 µg/L	10.211	501.09 ppb	10.211	2.04%
QC value within limits for Ti 334.940 Recovery = 100.22%							
Tl	190.801†	414.8	511.21 µg/L	19.020	511.21 ppb	19.020	3.72%
QC value within limits for Tl 190.801 Recovery = 102.24%							
U	409.014†	4701.9	487.88 µg/L	22.595	487.88 ppb	22.595	4.63%
QC value within limits for U 409.014 Recovery = 97.58%							
V	292.402†	37657.0	506.19 µg/L	20.658	506.19 ppb	20.658	4.08%
QC value within limits for V 292.402 Recovery = 101.24%							
Zn	213.857†	18077.8	504.73 µg/L	18.533	504.73 ppb	18.533	3.67%
QC value within limits for Zn 213.857 Recovery = 100.95%							

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 03:45:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	111174.0	111174.0	101 %		03:46:16
1	Al 396.153Radial†	-131.2	-60.4	-32.002 µg/L	-32.002 ppb	03:46:16
1	Ca 317.933Radial†	418.5	-73.4	-25.061 µg/L	-25.061 ppb	03:46:37
1	Fe 238.204 Radial†	34.5	0.9	6.1402 µg/L	6.1402 ppb	03:46:37
1	K 766.490 Radial†	237.4	-13.0	-7.7377 µg/L	-7.7377 ppb	03:46:16
1	Mg 279.077 IEC†	11.7	-1.7	-17.062 µg/L	-17.062 ppb	03:46:37
1	Na 589.592 Radial†	280.9	-38.9	-12.009 µg/L	-12.009 ppb	03:46:16
1	Sr 421.552†	213.8	69.0	0.2869 µg/L	0.2869 ppb	03:46:16
1	Sc 361.383	1705193.0	1705193.0	102.63 %		03:47:39
1	Y 371.029	953742.6	953742.6	101.76 %		03:47:39
1	Ag 328.068†	-505.3	24.9	0.2357 µg/L	0.2357 ppb	03:47:44
1	As 188.979†	-0.4	7.3	13.989 µg/L	13.989 ppb	03:48:05
1	B 249.677†	184.7	13.1	0.7205 µg/L	0.7205 ppb	03:48:05
1	Ba 233.527†	12.7	22.5	0.6097 µg/L	0.6097 ppb	03:48:05
1	Be 313.107†	-1740.0	-27.5	-0.0207 µg/L	-0.0207 ppb	03:47:44
1	Cd 226.502†	-135.0	9.1	0.2757 µg/L	0.2757 ppb	03:48:05
1	Co 228.616†	27.3	-0.3	-0.0172 µg/L	-0.0172 ppb	03:48:05
1	Cr 267.716†	111.1	39.1	1.0460 µg/L	1.0460 ppb	03:47:44
1	Cu 324.752†	2692.5	-6.8	-0.0502 µg/L	-0.0502 ppb	03:47:44
1	Mn 257.610†	-499.1	89.7	0.3409 µg/L	0.3409 ppb	03:48:05
1	Mo 202.031†	11.9	9.2	1.1132 µg/L	1.1132 ppb	03:48:05
1	Ni 231.604†	314.1	10.8	0.7889 µg/L	0.7889 ppb	03:48:05
1	P 214.914†	241.9	-5.6	-12.743 µg/L	-12.743 ppb	03:48:05
1	Pb 220.353†	34.9	-0.8	-0.2743 µg/L	-0.2743 ppb	03:48:05
1	S 181.975 Axial†	21.4	0.2	0.9924 µg/L	0.9924 ppb	03:48:05
1	Sb 206.836†	23.8	4.1	4.6128 µg/L	4.6128 ppb	03:48:05
1	Se 196.026†	17.5	2.7	3.5055 µg/L	3.5055 ppb	03:48:05
1	SiO2†	1458.0	16.2	3.7039 µg/L	3.7039 ppb	03:47:44
1	Si 251.611†	389.3	-4.7	-0.4050 µg/L	-0.4050 ppb	03:48:05
1	Sn 189.927†	2.4	1.3	0.6234 µg/L	0.6234 ppb	03:48:05
1	Ti 334.940†	84.1	87.6	0.2472 µg/L	0.2472 ppb	03:47:44
1	Tl 190.801†	-29.0	-1.8	-2.1626 µg/L	-2.1626 ppb	03:48:05
1	U 409.014†	185.8	36.8	3.8282 µg/L	3.8282 ppb	03:47:44
1	V 292.402†	-129.1	18.5	0.2608 µg/L	0.2608 ppb	03:47:44
1	Zn 213.857†	612.6	-13.9	-0.3929 µg/L	-0.3929 ppb	03:48:05
2	Sc RADIAL	107914.4	107914.4	97.6 %		03:46:42
2	Al 396.153Radial†	-108.7	-41.3	-21.887 µg/L	-21.887 ppb	03:46:42
2	Ca 317.933Radial†	411.8	-67.7	-23.128 µg/L	-23.128 ppb	03:47:03
2	Fe 238.204 Radial†	34.4	1.8	12.434 µg/L	12.434 ppb	03:47:03
2	K 766.490 Radial†	289.0	47.0	27.936 µg/L	27.936 ppb	03:46:42
2	Mg 279.077 IEC†	9.9	-3.3	-32.631 µg/L	-32.631 ppb	03:47:03
2	Na 589.592 Radial†	259.1	-52.8	-16.285 µg/L	-16.285 ppb	03:46:42
2	Sr 421.552†	139.3	-1.0	-0.0042 µg/L	-0.0042 ppb	03:46:42
2	Sc 361.383	1714560.6	1714560.6	103.19 %		03:48:11
2	Y 371.029	963582.0	963582.0	102.81 %		03:48:11
2	Ag 328.068†	-526.5	7.1	0.0678 µg/L	0.0678 ppb	03:48:16
2	As 188.979†	-7.1	0.8	1.4469 µg/L	1.4469 ppb	03:48:37
2	B 249.677†	181.9	9.4	0.5131 µg/L	0.5131 ppb	03:48:37
2	Ba 233.527†	16.3	25.9	0.7002 µg/L	0.7002 ppb	03:48:37
2	Be 313.107†	-1642.3	76.5	0.0571 µg/L	0.0571 ppb	03:48:16
2	Cd 226.502†	-142.5	2.5	0.0751 µg/L	0.0751 ppb	03:48:37
2	Co 228.616†	17.5	-9.9	-0.5396 µg/L	-0.5396 ppb	03:48:37
2	Cr 267.716†	123.6	50.6	1.3531 µg/L	1.3531 ppb	03:48:16
2	Cu 324.752†	2656.0	-56.5	-0.4253 µg/L	-0.4253 ppb	03:48:16
2	Mn 257.610†	-486.5	104.6	0.3986 µg/L	0.3986 ppb	03:48:37
2	Mo 202.031†	18.0	15.0	1.8132 µg/L	1.8132 ppb	03:48:37
2	Ni 231.604†	319.6	14.5	1.0582 µg/L	1.0582 ppb	03:48:37
2	P 214.914†	242.9	-5.9	-13.464 µg/L	-13.464 ppb	03:48:37
2	Pb 220.353†	29.2	-6.5	-2.1366 µg/L	-2.1366 ppb	03:48:37

2	S 181.975 Axial†	24.4	3.1	12.680 µg/L	12.680 ppb	03:48:37
2	Sb 206.836†	21.2	1.4	1.5778 µg/L	1.5778 ppb	03:48:37
2	Se 196.026†	13.8	-1.0	-1.1731 µg/L	-1.1731 ppb	03:48:37
2	SiO2†	1419.0	-29.4	-6.7178 µg/L	-6.7178 ppb	03:48:16
2	Si 251.611†	405.1	8.5	0.7292 µg/L	0.7292 ppb	03:48:37
2	Sn 189.927†	-1.9	-2.8	-1.4060 µg/L	-1.4060 ppb	03:48:37
2	Ti 334.940†	-17.4	-11.3	-0.0294 µg/L	-0.0294 ppb	03:48:16
2	Tl 190.801†	-28.3	-0.9	-1.1233 µg/L	-1.1233 ppb	03:48:37
2	U 409.014†	83.6	-63.2	-6.5683 µg/L	-6.5683 ppb	03:48:16
2	V 292.402†	-147.0	1.9	0.0355 µg/L	0.0355 ppb	03:48:16
2	Zn 213.857†	603.5	-25.9	-0.7313 µg/L	-0.7313 ppb	03:48:37
3	Sc RADIAL	112357.2	112357.2	102 %		03:47:08
3	Al 396.153Radial†	-107.5	-35.7	-18.923 µg/L	-18.923 ppb	03:47:08
3	Ca 317.933Radial†	415.5	-80.8	-27.569 µg/L	-27.569 ppb	03:47:28
3	Fe 238.204 Radial†	33.2	-0.7	-5.1084 µg/L	-5.1084 ppb	03:47:28
3	K 766.490 Radial†	263.4	10.1	5.9835 µg/L	5.9835 ppb	03:47:08
3	Mg 279.077 IEC†	11.3	-2.3	-22.321 µg/L	-22.321 ppb	03:47:28
3	Na 589.592 Radial†	259.2	-63.1	-19.488 µg/L	-19.488 ppb	03:47:08
3	Sr 421.552†	213.8	66.7	0.2775 µg/L	0.2775 ppb	03:47:08
3	Sc 361.383	1712793.1	1712793.1	103.08 %		03:48:43
3	Y 371.029	962629.0	962629.0	102.71 %		03:48:43
3	Ag 328.068†	-541.8	-8.3	-0.0731 µg/L	-0.0731 ppb	03:48:48
3	As 188.979†	1.0	8.6	16.478 µg/L	16.478 ppb	03:49:09
3	B 249.677†	165.0	-6.8	-0.3732 µg/L	-0.3732 ppb	03:49:09
3	Ba 233.527†	18.9	28.4	0.7705 µg/L	0.7705 ppb	03:49:09
3	Be 313.107†	-1556.4	158.1	0.1180 µg/L	0.1180 ppb	03:48:48
3	Cd 226.502†	-138.0	6.7	0.2059 µg/L	0.2059 ppb	03:49:09
3	Co 228.616†	27.5	-0.3	-0.0140 µg/L	-0.0140 ppb	03:49:09
3	Cr 267.716†	85.6	13.9	0.3715 µg/L	0.3715 ppb	03:48:48
3	Cu 324.752†	2646.1	-63.5	-0.4817 µg/L	-0.4817 ppb	03:48:48
3	Mn 257.610†	-492.3	98.5	0.3739 µg/L	0.3739 ppb	03:49:09
3	Mo 202.031†	10.8	8.0	0.9695 µg/L	0.9695 ppb	03:49:09
3	Ni 231.604†	316.7	11.9	0.8694 µg/L	0.8694 ppb	03:49:09
3	P 214.914†	243.1	-5.4	-12.262 µg/L	-12.262 ppb	03:49:09
3	Pb 220.353†	36.3	0.5	0.1437 µg/L	0.1437 ppb	03:49:09
3	S 181.975 Axial†	23.3	2.0	8.4543 µg/L	8.4543 ppb	03:49:09
3	Sb 206.836†	22.7	2.8	3.2095 µg/L	3.2095 ppb	03:49:09
3	Se 196.026†	4.9	-9.6	-12.449 µg/L	-12.449 ppb	03:49:09
3	SiO2†	1448.2	0.4	0.0861 µg/L	0.0861 ppb	03:48:48
3	Si 251.611†	393.3	-2.6	-0.2194 µg/L	-0.2194 ppb	03:49:09
3	Sn 189.927†	3.8	2.7	1.3036 µg/L	1.3036 ppb	03:49:09
3	Ti 334.940†	158.7	159.6	0.4502 µg/L	0.4502 ppb	03:48:48
3	Tl 190.801†	-25.0	2.2	2.7625 µg/L	2.7625 ppb	03:49:09
3	U 409.014†	244.4	92.9	9.6579 µg/L	9.6579 ppb	03:48:48
3	V 292.402†	-91.9	55.1	0.7511 µg/L	0.7511 ppb	03:48:48
3	Zn 213.857†	605.8	-23.1	-0.6517 µg/L	-0.6517 ppb	03:49:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1710848.9	102.97 %	0.300			0.29%
Sc RADIAL	110481.9	99.9 %	2.08			2.08%
Y 371.029	959984.6	102.43 %	0.579			0.57%
Ag 328.068†	7.9	0.0768 µg/L	0.15458	0.0768 ppb	0.15458	201.30%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-45.8	-24.271 µg/L	6.8572	-24.271 ppb	6.8572	28.25%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.5	10.638 µg/L	8.0564	10.638 ppb	8.0564	75.73%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	5.2	0.2868 µg/L	0.58089	0.2868 ppb	0.58089	202.53%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	25.6	0.6934 µg/L	0.08061	0.6934 ppb	0.08061	11.62%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	69.0	0.0515 µg/L	0.06948	0.0515 ppb	0.06948	134.96%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-74.0	-25.253 µg/L	2.2268	-25.253 ppb	2.2268	8.82%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	6.1	0.1856 µg/L	0.10181	0.1856 ppb	0.10181	54.86%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-3.5	-0.1902 µg/L	0.30252	-0.1902 ppb	0.30252	159.02%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated		
	34.5	0.9235 µg/L	0.50214	0.9235 ppb
			0.50214	54.37%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated		
	-42.3	-0.3190 µg/L	0.23456	-0.3190 ppb
			0.23456	73.52%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated		
	0.6	4.4887 µg/L	8.88723	4.4887 ppb
			8.88723	197.99%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
	14.7	8.7273 µg/L	17.99446	8.7273 ppb
			17.99446	206.19%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated		
	-2.4	-24.004 µg/L	7.9201	-24.004 ppb
			7.9201	32.99%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
	97.6	0.3712 µg/L	0.02895	0.3712 ppb
			0.02895	7.80%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated		
	10.8	1.2986 µg/L	0.45138	1.2986 ppb
			0.45138	34.76%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated		
	-51.6	-15.927 µg/L	3.7526	-15.927 ppb
			3.7526	23.56%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
	12.4	0.9055 µg/L	0.13820	0.9055 ppb
			0.13820	15.26%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated		
	-5.7	-12.823 µg/L	0.6047	-12.823 ppb
			0.6047	4.72%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated		
	-2.3	-0.7557 µg/L	1.21403	-0.7557 ppb
			1.21403	160.64%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated		
	1.8	7.3755 µg/L	5.91793	7.3755 ppb
			5.91793	80.24%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated		
	2.8	3.1334 µg/L	1.51891	3.1334 ppb
			1.51891	48.48%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated		
	-2.6	-3.3722 µg/L	8.20142	-3.3722 ppb
			8.20142	243.21%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated		
	-4.3	-0.9759 µg/L	5.29144	-0.9759 ppb
			5.29144	542.20%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated		
	0.4	0.0349 µg/L	0.60835	0.0349 ppb
			0.60835	>999.9%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated		
	0.4	0.1736 µg/L	1.40969	0.1736 ppb
			1.40969	811.82%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated		
	44.9	0.1867 µg/L	0.16543	0.1867 ppb
			0.16543	88.59%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated		
	78.6	0.2227 µg/L	0.24076	0.2227 ppb
			0.24076	108.13%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated		
	-0.2	-0.1745 µg/L	2.59604	-0.1745 ppb
			2.59604	>999.9%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated		
	22.2	2.3059 µg/L	8.21955	2.3059 ppb
			8.21955	356.45%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated		
	25.2	0.3491 µg/L	0.36585	0.3491 ppb
			0.36585	104.78%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated		
	-21.0	-0.5919 µg/L	0.17692	-0.5919 ppb
			0.17692	29.89%
	QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 5

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 03:52:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	115351.2	115351.2	104 %		03:53:35
1	Al 396.153Radial†	9655.0	9328.3	4927.5 µg/L	4927.5 ppb	03:53:35
1	Ca 317.933Radial†	15926.6	14782.2	5046.3 µg/L	5046.3 ppb	03:53:35
1	Fe 238.204 Radial†	768.3	703.3	4879.5 µg/L	4879.5 ppb	03:53:55
1	K 766.490 Radial†	8778.8	8168.7	4852.8 µg/L	4852.8 ppb	03:53:35
1	Mg 279.077 IEC†	537.0	501.5	4962.0 µg/L	4962.0 ppb	03:53:55
1	Na 589.592 Radial†	31979.1	30346.3	9366.9 µg/L	9366.9 ppb	03:53:35
1	Sr 421.552†	116678.8	111739.4	464.74 µg/L	464.74 ppb	03:53:35
1	Sc 361.383	1737578.1	1737578.1	104.57 %		03:54:59
1	Y 371.029	977179.1	977179.1	104.26 %		03:54:59
1	Ag 328.068†	53968.5	52124.8	491.31 µg/L	491.31 ppb	03:55:04
1	As 188.979†	271.6	267.4	512.27 µg/L	512.27 ppb	03:55:25
1	B 249.677†	9385.7	8808.2	485.45 µg/L	485.45 ppb	03:55:04
1	Ba 233.527†	19232.9	18401.6	498.71 µg/L	498.71 ppb	03:55:04
1	Be 313.107†	695972.2	667193.3	498.23 µg/L	498.23 ppb	03:54:59
1	Cd 226.502†	17116.5	16508.3	500.28 µg/L	500.28 ppb	03:55:04
1	Co 228.616†	9684.0	9233.4	502.58 µg/L	502.58 ppb	03:55:04
1	Cr 267.716†	19608.4	18681.5	499.78 µg/L	499.78 ppb	03:55:04
1	Cu 324.752†	70630.5	64910.2	492.28 µg/L	492.28 ppb	03:55:04
1	Mn 257.610†	137325.1	131893.5	498.77 µg/L	498.77 ppb	03:55:04
1	Mo 202.031†	4488.3	4289.6	517.77 µg/L	517.77 ppb	03:55:25
1	Ni 231.604†	7715.5	7082.7	517.05 µg/L	517.05 ppb	03:55:25
1	P 214.914†	1421.9	1118.4	2492.7 µg/L	2492.7 ppb	03:55:25
1	Pb 220.353†	1652.5	1545.5	514.82 µg/L	514.82 ppb	03:55:25
1	S 181.975 Axial†	286.8	253.7	1052.5 µg/L	1052.5 ppb	03:55:25
1	Sb 206.836†	495.1	454.3	518.43 µg/L	518.43 ppb	03:55:25
1	Se 196.026†	432.4	399.1	528.85 µg/L	528.85 ppb	03:55:25
1	SiO2†	25537.4	23015.7	5265.1 µg/L	5265.1 ppb	03:55:04
1	Si 251.611†	30512.8	28793.9	2469.4 µg/L	2469.4 ppb	03:55:04
1	Sn 189.927†	1112.6	1062.9	523.66 µg/L	523.66 ppb	03:55:25
1	Ti 334.940†	184926.3	176841.9	497.15 µg/L	497.15 ppb	03:54:59
1	Tl 190.801†	410.2	418.7	515.98 µg/L	515.98 ppb	03:55:25
1	U 409.014†	4970.8	4609.1	478.26 µg/L	478.26 ppb	03:55:04
1	V 292.402†	38840.1	37285.3	501.33 µg/L	501.33 ppb	03:55:04
1	Zn 213.857†	19301.5	17846.4	498.28 µg/L	498.28 ppb	03:55:04
2	Sc RADIAL	115817.6	115817.6	105 %		03:54:01
2	Al 396.153Radial†	9646.3	9282.7	4903.3 µg/L	4903.3 ppb	03:54:01
2	Ca 317.933Radial†	15911.3	14706.1	5020.3 µg/L	5020.3 ppb	03:54:01
2	Fe 238.204 Radial†	762.2	694.5	4818.9 µg/L	4818.9 ppb	03:54:21
2	K 766.490 Radial†	8804.1	8159.1	4847.1 µg/L	4847.1 ppb	03:54:01
2	Mg 279.077 IEC†	537.6	500.0	4947.4 µg/L	4947.4 ppb	03:54:21
2	Na 589.592 Radial†	31881.8	30130.0	9300.1 µg/L	9300.1 ppb	03:54:01
2	Sr 421.552†	115893.3	110538.6	459.75 µg/L	459.75 ppb	03:54:01
2	Sc 361.383	1713842.0	1713842.0	103.15 %		03:55:31
2	Y 371.029	963799.5	963799.5	102.83 %		03:55:31
2	Ag 328.068†	54239.9	53102.7	500.51 µg/L	500.51 ppb	03:55:37
2	As 188.979†	269.8	269.2	515.72 µg/L	515.72 ppb	03:55:57
2	B 249.677†	9449.5	8994.4	495.80 µg/L	495.80 ppb	03:55:37
2	Ba 233.527†	19375.1	18794.2	509.34 µg/L	509.34 ppb	03:55:37
2	Be 313.107†	700260.6	680568.3	508.22 µg/L	508.22 ppb	03:55:31
2	Cd 226.502†	17278.5	16892.0	511.92 µg/L	511.92 ppb	03:55:37
2	Co 228.616†	9713.0	9389.8	511.09 µg/L	511.09 ppb	03:55:37
2	Cr 267.716†	19785.8	19113.2	511.33 µg/L	511.33 ppb	03:55:37
2	Cu 324.752†	70947.4	66152.8	501.67 µg/L	501.67 ppb	03:55:37
2	Mn 257.610†	138146.1	134508.2	508.66 µg/L	508.66 ppb	03:55:37
2	Mo 202.031†	4467.7	4329.0	522.52 µg/L	522.52 ppb	03:55:57
2	Ni 231.604†	7707.2	7176.8	523.92 µg/L	523.92 ppb	03:55:57
2	P 214.914†	1427.8	1143.0	2547.6 µg/L	2547.6 ppb	03:55:57
2	Pb 220.353†	1653.3	1568.1	522.35 µg/L	522.35 ppb	03:55:57

2	S 181.975 Axial†	281.4	252.3	1046.7 µg/L	1046.7 ppb	03:55:57
2	Sb 206.836†	487.6	453.6	517.54 µg/L	517.54 ppb	03:55:57
2	Se 196.026†	429.5	402.0	532.41 µg/L	532.41 ppb	03:55:57
2	SiO2†	25751.7	23561.6	5390.0 µg/L	5390.0 ppb	03:55:37
2	Si 251.611†	30709.6	29388.8	2520.4 µg/L	2520.4 ppb	03:55:37
2	Sn 189.927†	1105.6	1070.9	527.58 µg/L	527.58 ppb	03:55:57
2	Ti 334.940†	185782.1	180120.7	506.37 µg/L	506.37 ppb	03:55:31
2	Tl 190.801†	410.5	424.5	523.13 µg/L	523.13 ppb	03:55:57
2	U 409.014†	4967.7	4671.9	484.80 µg/L	484.80 ppb	03:55:37
2	V 292.402†	39032.6	37986.3	510.71 µg/L	510.71 ppb	03:55:37
2	Zn 213.857†	19498.8	18293.2	510.81 µg/L	510.81 ppb	03:55:37
3	Sc RADIAL	115610.1	115610.1	105 %		03:54:27
3	Al 396.153Radial†	9518.9	9177.4	4849.0 µg/L	4849.0 ppb	03:54:27
3	Ca 317.933Radial†	15709.8	14540.5	4963.8 µg/L	4963.8 ppb	03:54:27
3	Fe 238.204 Radial†	764.7	698.2	4843.9 µg/L	4843.9 ppb	03:54:47
3	K 766.490 Radial†	8761.8	8133.6	4831.9 µg/L	4831.9 ppb	03:54:27
3	Mg 279.077 IEC†	540.2	503.5	4980.6 µg/L	4980.6 ppb	03:54:47
3	Na 589.592 Radial†	31679.8	29991.3	9257.3 µg/L	9257.3 ppb	03:54:27
3	Sr 421.552†	115267.4	110138.4	458.08 µg/L	458.08 ppb	03:54:27
3	Sc 361.383	1720161.2	1720161.2	103.53 %		03:56:04
3	Y 371.029	966009.5	966009.5	103.07 %		03:56:04
3	Ag 328.068†	52615.0	51340.0	483.81 µg/L	483.81 ppb	03:56:10
3	As 188.979†	243.8	243.1	465.79 µg/L	465.79 ppb	03:56:30
3	B 249.677†	9152.1	8673.5	477.96 µg/L	477.96 ppb	03:56:10
3	Ba 233.527†	18410.0	17793.0	482.19 µg/L	482.19 ppb	03:56:10
3	Be 313.107†	676502.7	655125.6	489.22 µg/L	489.22 ppb	03:56:04
3	Cd 226.502†	16379.4	15962.1	483.66 µg/L	483.66 ppb	03:56:10
3	Co 228.616†	9171.7	8832.4	480.69 µg/L	480.69 ppb	03:56:10
3	Cr 267.716†	18183.3	17494.8	468.04 µg/L	468.04 ppb	03:56:10
3	Cu 324.752†	66877.5	61968.9	470.01 µg/L	470.01 ppb	03:56:10
3	Mn 257.610†	130011.1	126158.4	477.08 µg/L	477.08 ppb	03:56:10
3	Mo 202.031†	3873.9	3739.5	451.40 µg/L	451.40 ppb	03:56:30
3	Ni 231.604†	6715.9	6191.8	451.97 µg/L	451.97 ppb	03:56:30
3	P 214.914†	1282.6	997.6	2219.6 µg/L	2219.6 ppb	03:56:30
3	Pb 220.353†	1480.3	1395.1	464.61 µg/L	464.61 ppb	03:56:30
3	S 181.975 Axial†	258.3	228.9	949.81 µg/L	949.81 ppb	03:56:30
3	Sb 206.836†	436.0	402.0	458.36 µg/L	458.36 ppb	03:56:30
3	Se 196.026†	386.6	359.0	476.83 µg/L	476.83 ppb	03:56:30
3	SiO2†	24716.6	22470.1	5140.3 µg/L	5140.3 ppb	03:56:10
3	Si 251.611†	29539.8	28149.5	2414.1 µg/L	2414.1 ppb	03:56:10
3	Sn 189.927†	933.7	900.9	443.88 µg/L	443.88 ppb	03:56:30
3	Ti 334.940†	178876.5	172788.7	485.75 µg/L	485.75 ppb	03:56:04
3	Tl 190.801†	372.0	385.9	475.74 µg/L	475.74 ppb	03:56:30
3	U 409.014†	4697.7	4393.5	455.85 µg/L	455.85 ppb	03:56:10
3	V 292.402†	36512.2	35412.8	475.83 µg/L	475.83 ppb	03:56:10
3	Zn 213.857†	18327.0	17091.9	477.39 µg/L	477.39 ppb	03:56:10

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1723860.4	103.75 %	0.740			0.71%
Sc RADIAL	115593.0	105 %	0.2			0.20%
Y 371.029	968996.0	103.39 %	0.765			0.74%
Ag 328.068†	52189.2	491.88 µg/L	8.367	491.88 ppb	8.367	1.70%
QC value within limits for Ag 328.068 Recovery = 98.38%						
Al 396.153Radial†	9262.8	4893.2 µg/L	40.22	4893.2 ppb	40.22	0.82%
QC value within limits for Al 396.153Radial Recovery = 97.86%						
As 188.979†	259.9	497.93 µg/L	27.887	497.93 ppb	27.887	5.60%
QC value within limits for As 188.979 Recovery = 99.59%						
B 249.677†	8825.3	486.40 µg/L	8.955	486.40 ppb	8.955	1.84%
QC value within limits for B 249.677 Recovery = 97.28%						
Ba 233.527†	18329.6	496.75 µg/L	13.679	496.75 ppb	13.679	2.75%
QC value within limits for Ba 233.527 Recovery = 99.35%						
Be 313.107†	667629.1	498.55 µg/L	9.504	498.55 ppb	9.504	1.91%
QC value within limits for Be 313.107 Recovery = 99.71%						
Ca 317.933Radial†	14676.3	5010.1 µg/L	42.17	5010.1 ppb	42.17	0.84%
QC value within limits for Ca 317.933Radial Recovery = 100.20%						
Cd 226.502†	16454.1	498.62 µg/L	14.203	498.62 ppb	14.203	2.85%
QC value within limits for Cd 226.502 Recovery = 99.72%						
Co 228.616†	9151.9	498.12 µg/L	15.682	498.12 ppb	15.682	3.15%

Cr	267.716†	18429.8	493.05 µg/L	22.417	493.05 ppb	22.417	4.55%
QC value within limits for Cr 267.716 Recovery = 98.61%							
Cu	324.752†	64344.0	487.99 µg/L	16.264	487.99 ppb	16.264	3.33%
QC value within limits for Cu 324.752 Recovery = 97.60%							
Fe	238.204 Radial†	698.7	4847.4 µg/L	30.45	4847.4 ppb	30.45	0.63%
QC value within limits for Fe 238.204 Radial Recovery = 96.95%							
K	766.490 Radial†	8153.8	4843.9 µg/L	10.78	4843.9 ppb	10.78	0.22%
QC value within limits for K 766.490 Radial Recovery = 96.88%							
Mg	279.077 IEC†	501.7	4963.3 µg/L	16.63	4963.3 ppb	16.63	0.34%
QC value within limits for Mg 279.077 IEC Recovery = 99.27%							
Mn	257.610†	130853.4	494.83 µg/L	16.153	494.83 ppb	16.153	3.26%
QC value within limits for Mn 257.610 Recovery = 98.97%							
Mo	202.031†	4119.4	497.23 µg/L	39.765	497.23 ppb	39.765	8.00%
QC value within limits for Mo 202.031 Recovery = 99.45%							
Na	589.592 Radial†	30155.9	9308.1 µg/L	55.23	9308.1 ppb	55.23	0.59%
QC value within limits for Na 589.592 Radial Recovery = 93.08%							
Ni	231.604†	6817.1	497.65 µg/L	39.703	497.65 ppb	39.703	7.98%
QC value within limits for Ni 231.604 Recovery = 99.53%							
P	214.914†	1086.3	2420.0 µg/L	175.70	2420.0 ppb	175.70	7.26%
QC value within limits for P 214.914 Recovery = 96.80%							
Pb	220.353†	1502.9	500.60 µg/L	31.388	500.60 ppb	31.388	6.27%
QC value within limits for Pb 220.353 Recovery = 100.12%							
S	181.975 Axial†	244.9	1016.3 µg/L	57.67	1016.3 ppb	57.67	5.67%
QC value within limits for S 181.975 Axial Recovery = 101.63%							
Sb	206.836†	436.6	498.11 µg/L	34.427	498.11 ppb	34.427	6.91%
QC value within limits for Sb 206.836 Recovery = 99.62%							
Se	196.026†	386.7	512.70 µg/L	31.111	512.70 ppb	31.111	6.07%
QC value within limits for Se 196.026 Recovery = 102.54%							
SiO2†		23015.8	5265.1 µg/L	124.85	5265.1 ppb	124.85	2.37%
QC value within limits for SiO2 Recovery = 98.46%							
Si	251.611†	28777.4	2468.0 µg/L	53.15	2468.0 ppb	53.15	2.15%
QC value within limits for Si 251.611 Recovery = 98.72%							
Sn	189.927†	1011.6	498.37 µg/L	47.231	498.37 ppb	47.231	9.48%
QC value within limits for Sn 189.927 Recovery = 99.67%							
Sr	421.552†	110805.5	460.86 µg/L	3.465	460.86 ppb	3.465	0.75%
QC value within limits for Sr 421.552 Recovery = 92.17%							
Ti	334.940†	176583.7	496.42 µg/L	10.334	496.42 ppb	10.334	2.08%
QC value within limits for Ti 334.940 Recovery = 99.28%							
Tl	190.801†	409.7	504.95 µg/L	25.550	504.95 ppb	25.550	5.06%
QC value within limits for Tl 190.801 Recovery = 100.99%							
U	409.014†	4558.2	472.97 µg/L	15.183	472.97 ppb	15.183	3.21%
QC value within limits for U 409.014 Recovery = 94.59%							
V	292.402†	36894.8	495.96 µg/L	18.049	495.96 ppb	18.049	3.64%
QC value within limits for V 292.402 Recovery = 99.19%							
Zn	213.857†	17743.8	495.49 µg/L	16.883	495.49 ppb	16.883	3.41%
QC value within limits for Zn 213.857 Recovery = 99.10%							

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 03:56:41

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	112962.5	112962.5	102 %		03:57:13
1	Al 396.153Radial†	-135.1	-62.1	-32.929 µg/L	-32.929 ppb	03:57:13
1	Ca 317.933Radial†	420.6	-78.0	-26.632 µg/L	-26.632 ppb	03:57:34
1	Fe 238.204 Radial†	34.2	0.1	0.5353 µg/L	0.5353 ppb	03:57:34
1	K 766.490 Radial†	297.6	42.2	25.079 µg/L	25.079 ppb	03:57:13
1	Mg 279.077 IEC†	10.4	-3.3	-32.240 µg/L	-32.240 ppb	03:57:34
1	Na 589.592 Radial†	298.8	-25.8	-7.9626 µg/L	-7.9626 ppb	03:57:13
1	Sr 421.552†	155.1	8.1	0.0336 µg/L	0.0336 ppb	03:57:13
1	Sc 361.383	1715288.7	1715288.7	103.23 %		03:58:36
1	Y 371.029	967768.4	967768.4	103.26 %		03:58:36
1	Ag 328.068†	-513.1	20.3	0.1904 µg/L	0.1904 ppb	03:58:41
1	As 188.979†	-3.1	4.6	8.9164 µg/L	8.9164 ppb	03:59:02
1	B 249.677†	196.4	23.3	1.2923 µg/L	1.2923 ppb	03:59:02
1	Ba 233.527†	-4.3	5.9	0.1596 µg/L	0.1596 ppb	03:59:02
1	Be 313.107†	-1695.4	25.7	0.0191 µg/L	0.0191 ppb	03:58:41
1	Cd 226.502†	-152.7	-7.3	-0.2222 µg/L	-0.2222 ppb	03:59:02
1	Co 228.616†	27.1	-0.6	-0.0344 µg/L	-0.0344 ppb	03:59:02
1	Cr 267.716†	102.3	29.9	0.8005 µg/L	0.8005 ppb	03:58:41
1	Cu 324.752†	2686.7	-27.9	-0.2109 µg/L	-0.2109 ppb	03:58:41
1	Mn 257.610†	-553.0	40.4	0.1551 µg/L	0.1551 ppb	03:59:02
1	Mo 202.031†	14.8	11.9	1.4387 µg/L	1.4387 ppb	03:59:02
1	Ni 231.604†	291.1	-13.3	-0.9730 µg/L	-0.9730 ppb	03:59:02
1	P 214.914†	249.3	0.2	0.4525 µg/L	0.4525 ppb	03:59:02
1	Pb 220.353†	39.6	3.6	1.1825 µg/L	1.1825 ppb	03:59:02
1	S 181.975 Axial†	27.3	5.9	24.291 µg/L	24.291 ppb	03:59:02
1	Sb 206.836†	24.8	4.8	5.5081 µg/L	5.5081 ppb	03:59:02
1	Se 196.026†	24.3	9.2	11.890 µg/L	11.890 ppb	03:59:02
1	SiO2†	1450.5	0.5	0.1169 µg/L	0.1169 ppb	03:58:41
1	Si 251.611†	396.1	-0.3	-0.0280 µg/L	-0.0280 ppb	03:59:02
1	Sn 189.927†	1.7	0.6	0.3075 µg/L	0.3075 ppb	03:59:02
1	Ti 334.940†	92.6	95.3	0.2702 µg/L	0.2702 ppb	03:58:41
1	Tl 190.801†	-25.5	1.8	2.1983 µg/L	2.1983 ppb	03:59:02
1	U 409.014†	196.3	45.9	4.7741 µg/L	4.7741 ppb	03:58:41
1	V 292.402†	-144.0	4.9	0.0828 µg/L	0.0828 ppb	03:58:41
1	Zn 213.857†	609.2	-20.7	-0.5757 µg/L	-0.5757 ppb	03:59:02
2	Sc RADIAL	113391.6	113391.6	103 %		03:57:39
2	Al 396.153Radial†	-137.8	-64.3	-34.075 µg/L	-34.075 ppb	03:57:39
2	Ca 317.933Radial†	422.8	-77.4	-26.426 µg/L	-26.426 ppb	03:58:00
2	Fe 238.204 Radial†	35.1	0.8	5.5331 µg/L	5.5331 ppb	03:58:00
2	K 766.490 Radial†	328.4	71.2	42.270 µg/L	42.270 ppb	03:57:39
2	Mg 279.077 IEC†	13.1	-0.6	-6.1413 µg/L	-6.1413 ppb	03:58:00
2	Na 589.592 Radial†	245.5	-78.8	-24.336 µg/L	-24.336 ppb	03:57:39
2	Sr 421.552†	178.8	30.6	0.1273 µg/L	0.1273 ppb	03:57:39
2	Sc 361.383	1707571.8	1707571.8	102.77 %		03:59:08
2	Y 371.029	962740.8	962740.8	102.72 %		03:59:08
2	Ag 328.068†	-555.3	-23.1	-0.2149 µg/L	-0.2149 ppb	03:59:14
2	As 188.979†	-2.0	5.7	10.944 µg/L	10.944 ppb	03:59:34
2	B 249.677†	184.4	12.5	0.6894 µg/L	0.6894 ppb	03:59:34
2	Ba 233.527†	-13.4	-2.9	-0.0783 µg/L	-0.0783 ppb	03:59:34
2	Be 313.107†	-1660.2	52.6	0.0392 µg/L	0.0392 ppb	03:59:14
2	Cd 226.502†	-137.7	6.6	0.2009 µg/L	0.2009 ppb	03:59:34
2	Co 228.616†	21.2	-6.3	-0.3400 µg/L	-0.3400 ppb	03:59:34
2	Cr 267.716†	92.1	20.4	0.5466 µg/L	0.5466 ppb	03:59:14
2	Cu 324.752†	2619.5	-81.5	-0.6159 µg/L	-0.6159 ppb	03:59:14
2	Mn 257.610†	-536.9	53.7	0.2038 µg/L	0.2038 ppb	03:59:34
2	Mo 202.031†	16.0	13.2	1.5919 µg/L	1.5919 ppb	03:59:34
2	Ni 231.604†	322.6	18.6	1.3579 µg/L	1.3579 ppb	03:59:34
2	P 214.914†	243.6	-4.3	-9.6497 µg/L	-9.6497 ppb	03:59:34
2	Pb 220.353†	43.4	7.5	2.4858 µg/L	2.4858 ppb	03:59:34

2	S 181.975 Axial†	17.1	-3.9	-16.279 µg/L	-16.279 ppb	03:59:34
2	Sb 206.836†	21.8	2.1	2.3500 µg/L	2.3500 ppb	03:59:34
2	Se 196.026†	17.0	2.2	2.8512 µg/L	2.8512 ppb	03:59:34
2	SiO2†	1431.1	-12.0	-2.7521 µg/L	-2.7521 ppb	03:59:14
2	Si 251.611†	387.3	-7.2	-0.6173 µg/L	-0.6173 ppb	03:59:34
2	Sn 189.927†	3.2	2.1	1.0236 µg/L	1.0236 ppb	03:59:34
2	Ti 334.940†	80.6	84.0	0.2365 µg/L	0.2365 ppb	03:59:14
2	Tl 190.801†	-23.2	3.9	4.7699 µg/L	4.7699 ppb	03:59:34
2	U 409.014†	187.2	37.9	3.9422 µg/L	3.9422 ppb	03:59:14
2	V 292.402†	-149.4	-1.0	0.0043 µg/L	0.0043 ppb	03:59:14
2	Zn 213.857†	614.0	-13.3	-0.3794 µg/L	-0.3794 ppb	03:59:34
3	Sc RADIAL	113653.2	113653.2	103 %		03:58:05
3	Al 396.153Radial†	-121.1	-47.7	-25.277 µg/L	-25.277 ppb	03:58:05
3	Ca 317.933Radial†	413.8	-87.1	-29.723 µg/L	-29.723 ppb	03:58:26
3	Fe 238.204 Radial†	34.8	0.4	3.0880 µg/L	3.0880 ppb	03:58:26
3	K 766.490 Radial†	239.0	-16.6	-9.8571 µg/L	-9.8571 ppb	03:58:05
3	Mg 279.077 IEC†	10.3	-3.3	-32.950 µg/L	-32.950 ppb	03:58:26
3	Na 589.592 Radial†	249.6	-75.4	-23.277 µg/L	-23.277 ppb	03:58:05
3	Sr 421.552†	179.1	30.5	0.1270 µg/L	0.1270 ppb	03:58:05
3	Sc 361.383	1700079.8	1700079.8	102.32 %		03:59:40
3	Y 371.029	958799.9	958799.9	102.30 %		03:59:40
3	Ag 328.068†	-535.5	-6.0	-0.0538 µg/L	-0.0538 ppb	03:59:46
3	As 188.979†	-1.5	6.2	11.906 µg/L	11.906 ppb	04:00:06
3	B 249.677†	182.8	11.7	0.6484 µg/L	0.6484 ppb	04:00:06
3	Ba 233.527†	-12.5	-2.1	-0.0554 µg/L	-0.0554 ppb	04:00:06
3	Be 313.107†	-1664.7	41.0	0.0305 µg/L	0.0305 ppb	03:59:46
3	Cd 226.502†	-143.9	-0.1	-0.0021 µg/L	-0.0021 ppb	04:00:06
3	Co 228.616†	18.1	-9.2	-0.5013 µg/L	-0.5013 ppb	04:00:06
3	Cr 267.716†	97.5	26.2	0.7004 µg/L	0.7004 ppb	03:59:46
3	Cu 324.752†	2650.2	-40.3	-0.3047 µg/L	-0.3047 ppb	03:59:46
3	Mn 257.610†	-530.3	57.8	0.2211 µg/L	0.2211 ppb	04:00:06
3	Mo 202.031†	9.3	6.7	0.8083 µg/L	0.8083 ppb	04:00:06
3	Ni 231.604†	306.0	3.8	0.2760 µg/L	0.2760 ppb	04:00:06
3	P 214.914†	237.6	-9.1	-20.629 µg/L	-20.629 ppb	04:00:06
3	Pb 220.353†	41.8	6.1	2.0304 µg/L	2.0304 ppb	04:00:06
3	S 181.975 Axial†	20.4	-0.7	-2.7222 µg/L	-2.7222 ppb	04:00:06
3	Sb 206.836†	21.9	2.2	2.5550 µg/L	2.5550 ppb	04:00:06
3	Se 196.026†	10.8	-3.8	-4.8881 µg/L	-4.8881 ppb	04:00:06
3	SiO2†	1442.3	5.1	1.1649 µg/L	1.1649 ppb	03:59:46
3	Si 251.611†	410.3	17.0	1.4558 µg/L	1.4558 ppb	04:00:06
3	Sn 189.927†	1.3	0.2	0.1034 µg/L	0.1034 ppb	04:00:06
3	Ti 334.940†	146.3	148.6	0.4201 µg/L	0.4201 ppb	03:59:46
3	Tl 190.801†	-26.6	0.5	0.6017 µg/L	0.6017 ppb	04:00:06
3	U 409.014†	148.9	1.3	0.1407 µg/L	0.1407 ppb	03:59:46
3	V 292.402†	-120.0	27.0	0.3674 µg/L	0.3674 ppb	03:59:46
3	Zn 213.857†	610.4	-14.2	-0.3980 µg/L	-0.3980 ppb	04:00:06

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1707646.7	102.77 %	0.458			0.45%
Sc RADIAL	113335.8	102 %	0.3			0.31%
Y 371.029	963103.0	102.76 %	0.480			0.47%
Ag 328.068†	-2.9	-0.0261 µg/L	0.20407	-0.0261 ppb	0.20407	781.38%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-58.1	-30.760 µg/L	4.7830	-30.760 ppb	4.7830	15.55%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.5	10.589 µg/L	1.5264	10.589 ppb	1.5264	14.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	15.9	0.8767 µg/L	0.36048	0.8767 ppb	0.36048	41.12%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.3	0.0086 µg/L	0.13125	0.0086 ppb	0.13125	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	39.7	0.0296 µg/L	0.01007	0.0296 ppb	0.01007	34.06%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-80.8	-27.594 µg/L	1.8469	-27.594 ppb	1.8469	6.69%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-0.3	-0.0078 µg/L	0.21162	-0.0078 ppb	0.21162	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-5.4	-0.2919 µg/L	0.23713	-0.2919 ppb	0.23713	81.24%

Cr	267.716†	25.5	0.6825 µg/L	0.12788	0.6825 ppb	0.12788	18.74%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-49.9	-0.3772 µg/L	0.21203	-0.3772 ppb	0.21203	56.22%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	0.4	3.0522 µg/L	2.49911	3.0522 ppb	2.49911	81.88%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	32.3	19.164 µg/L	26.5622	19.164 ppb	26.5622	138.60%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-2.4	-23.777 µg/L	15.2773	-23.777 ppb	15.2773	64.25%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	50.7	0.1934 µg/L	0.03424	0.1934 ppb	0.03424	17.71%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	10.6	1.2796 µg/L	0.41533	1.2796 ppb	0.41533	32.46%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-60.0	-18.525 µg/L	9.1627	-18.525 ppb	9.1627	49.46%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	3.0	0.2203 µg/L	1.16646	0.2203 ppb	1.16646	529.43%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-4.4	-9.9422 µg/L	10.54398	-9.9422 ppb	10.54398	106.05%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	5.7	1.8995 µg/L	0.66143	1.8995 ppb	0.66143	34.82%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	0.4	1.7634 µg/L	20.65369	1.7634 ppb	20.65369	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	3.0	3.4711 µg/L	1.76712	3.4711 ppb	1.76712	50.91%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	2.5	3.2844 µg/L	8.39757	3.2844 ppb	8.39757	255.68%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-2.1	-0.4901 µg/L	2.02781	-0.4901 ppb	2.02781	413.73%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	3.1	0.2701 µg/L	1.06825	0.2701 ppb	1.06825	395.44%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	1.0	0.4782 µg/L	0.48323	0.4782 ppb	0.48323	101.06%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	23.1	0.0960 µg/L	0.05404	0.0960 ppb	0.05404	56.31%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	109.3	0.3089 µg/L	0.09776	0.3089 ppb	0.09776	31.64%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	2.1	2.5233 µg/L	2.10304	2.5233 ppb	2.10304	83.34%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	28.4	2.9523 µg/L	2.47023	2.9523 ppb	2.47023	83.67%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	10.3	0.1515 µg/L	0.19109	0.1515 ppb	0.19109	126.13%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-16.1	-0.4511 µg/L	0.10837	-0.4511 ppb	0.10837	24.03%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 16

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 04:31:02

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	114394.7	114394.7	103 %		04:31:41
1	Al 396.153Radial†	9771.0	9517.9	5027.7 µg/L	5027.7 ppb	04:31:41
1	Ca 317.933Radial†	15812.1	14799.2	5052.1 µg/L	5052.1 ppb	04:31:41
1	Fe 238.204 Radial†	754.4	696.0	4829.2 µg/L	4829.2 ppb	04:32:02
1	K 766.490 Radial†	8879.0	8336.0	4952.2 µg/L	4952.2 ppb	04:31:41
1	Mg 279.077 IEC†	536.7	505.6	5002.7 µg/L	5002.7 ppb	04:32:02
1	Na 589.592 Radial†	31700.1	30333.0	9362.8 µg/L	9362.8 ppb	04:31:41
1	Sr 421.552†	115889.6	111911.7	465.46 µg/L	465.46 ppb	04:31:41
1	Sc 361.383	1709971.6	1709971.6	102.91 %		04:33:05
1	Y 371.029	959827.8	959827.8	102.41 %		04:33:05
1	Ag 328.068†	54192.7	53175.8	501.18 µg/L	501.18 ppb	04:33:11
1	As 188.979†	273.0	272.9	522.79 µg/L	522.79 ppb	04:33:31
1	B 249.677†	9408.7	8975.5	494.74 µg/L	494.74 ppb	04:33:11
1	Ba 233.527†	19155.9	18623.7	504.73 µg/L	504.73 ppb	04:33:11
1	Be 313.107†	690116.9	672248.3	502.00 µg/L	502.00 ppb	04:33:05
1	Cd 226.502†	17033.3	16691.7	505.85 µg/L	505.85 ppb	04:33:11
1	Co 228.616†	9641.6	9341.7	508.48 µg/L	508.48 ppb	04:33:11
1	Cr 267.716†	19609.1	18984.9	507.90 µg/L	507.90 ppb	04:33:11
1	Cu 324.752†	70595.0	65966.1	500.26 µg/L	500.26 ppb	04:33:11
1	Mn 257.610†	136897.0	133597.6	505.21 µg/L	505.21 ppb	04:33:11
1	Mo 202.031†	4483.2	4353.8	525.52 µg/L	525.52 ppb	04:33:31
1	Ni 231.604†	7763.7	7248.6	529.17 µg/L	529.17 ppb	04:33:11
1	P 214.914†	1422.4	1140.8	2543.1 µg/L	2543.1 ppb	04:33:31
1	Pb 220.353†	1655.1	1573.4	524.13 µg/L	524.13 ppb	04:33:31
1	S 181.975 Axial†	290.5	261.7	1085.7 µg/L	1085.7 ppb	04:33:31
1	Sb 206.836†	489.1	456.1	520.54 µg/L	520.54 ppb	04:33:31
1	Se 196.026†	433.9	407.2	539.15 µg/L	539.15 ppb	04:33:31
1	SiO2†	25960.0	23820.6	5449.2 µg/L	5449.2 ppb	04:33:11
1	Si 251.611†	31125.1	29860.0	2560.8 µg/L	2560.8 ppb	04:33:11
1	Sn 189.927†	1111.8	1079.3	531.75 µg/L	531.75 ppb	04:33:31
1	Ti 334.940†	184209.7	179000.5	503.22 µg/L	503.22 ppb	04:33:05
1	Tl 190.801†	408.1	423.1	521.37 µg/L	521.37 ppb	04:33:31
1	U 409.014†	4982.6	4697.3	487.44 µg/L	487.44 ppb	04:33:11
1	V 292.402†	38745.9	37793.4	508.16 µg/L	508.16 ppb	04:33:11
1	Zn 213.857†	19334.7	18176.6	507.50 µg/L	507.50 ppb	04:33:11
2	Sc RADIAL	114688.7	114688.7	104 %		04:32:07
2	Al 396.153Radial†	9631.4	9359.0	4943.5 µg/L	4943.5 ppb	04:32:07
2	Ca 317.933Radial†	15738.6	14689.1	5014.5 µg/L	5014.5 ppb	04:32:07
2	Fe 238.204 Radial†	759.7	699.3	4851.9 µg/L	4851.9 ppb	04:32:28
2	K 766.490 Radial†	8778.6	8217.2	4881.6 µg/L	4881.6 ppb	04:32:07
2	Mg 279.077 IEC†	532.4	500.1	4948.0 µg/L	4948.0 ppb	04:32:28
2	Na 589.592 Radial†	31668.0	30223.5	9329.0 µg/L	9329.0 ppb	04:32:07
2	Sr 421.552†	115661.0	111404.0	463.35 µg/L	463.35 ppb	04:32:07
2	Sc 361.383	1709920.3	1709920.3	102.91 %		04:33:38
2	Y 371.029	960714.1	960714.1	102.50 %		04:33:38
2	Ag 328.068†	54413.5	53392.0	503.23 µg/L	503.23 ppb	04:33:44
2	As 188.979†	273.1	273.0	523.00 µg/L	523.00 ppb	04:34:04
2	B 249.677†	9441.4	9007.5	496.51 µg/L	496.51 ppb	04:33:44
2	Ba 233.527†	19334.8	18798.1	509.45 µg/L	509.45 ppb	04:33:44
2	Be 313.107†	689185.2	671363.1	501.34 µg/L	501.34 ppb	04:33:38
2	Cd 226.502†	17201.4	16855.5	510.82 µg/L	510.82 ppb	04:33:44
2	Co 228.616†	9715.3	9413.7	512.40 µg/L	512.40 ppb	04:33:44
2	Cr 267.716†	19726.5	19099.6	510.97 µg/L	510.97 ppb	04:33:44
2	Cu 324.752†	71089.6	66448.8	503.92 µg/L	503.92 ppb	04:33:44
2	Mn 257.610†	138035.2	134707.6	509.41 µg/L	509.41 ppb	04:33:44
2	Mo 202.031†	4496.3	4366.7	527.07 µg/L	527.07 ppb	04:34:04
2	Ni 231.604†	7806.2	7290.1	532.20 µg/L	532.20 ppb	04:33:44
2	P 214.914†	1427.9	1146.2	2554.8 µg/L	2554.8 ppb	04:34:04
2	Pb 220.353†	1659.1	1577.4	525.43 µg/L	525.43 ppb	04:34:04

2	S 181.975 Axial†	285.1	256.4	1063.9 µg/L	1063.9 ppb	04:34:04
2	Sb 206.836†	490.4	457.4	521.97 µg/L	521.97 ppb	04:34:04
2	Se 196.026†	427.2	400.7	530.86 µg/L	530.86 ppb	04:34:04
2	SiO2†	26317.1	24168.3	5528.7 µg/L	5528.7 ppb	04:33:44
2	Si 251.611†	31433.8	30160.8	2586.6 µg/L	2586.6 ppb	04:33:44
2	Sn 189.927†	1106.3	1074.0	529.13 µg/L	529.13 ppb	04:34:04
2	Ti 334.940†	184296.9	179090.6	503.48 µg/L	503.48 ppb	04:33:38
2	Tl 190.801†	405.0	420.0	517.66 µg/L	517.66 ppb	04:34:04
2	U 409.014†	5057.8	4770.5	495.05 µg/L	495.05 ppb	04:33:44
2	V 292.402†	39043.8	38084.0	512.05 µg/L	512.05 ppb	04:33:44
2	Zn 213.857†	19443.6	18283.0	510.48 µg/L	510.48 ppb	04:33:44
3	Sc RADIAL	114638.6	114638.6	104 %		04:32:33
3	Al 396.153Radial†	9592.2	9325.3	4927.2 µg/L	4927.2 ppb	04:32:33
3	Ca 317.933Radial†	15633.4	14594.2	4982.1 µg/L	4982.1 ppb	04:32:33
3	Fe 238.204 Radial†	753.7	693.8	4813.0 µg/L	4813.0 ppb	04:32:54
3	K 766.490 Radial†	8770.6	8213.2	4879.2 µg/L	4879.2 ppb	04:32:33
3	Mg 279.077 IEC†	536.5	504.3	4988.4 µg/L	4988.4 ppb	04:32:54
3	Na 589.592 Radial†	31335.5	29916.0	9234.1 µg/L	9234.1 ppb	04:32:33
3	Sr 421.552†	114594.1	110423.4	459.27 µg/L	459.27 ppb	04:32:33
3	Sc 361.383	1714696.9	1714696.9	103.20 %		04:34:11
3	Y 371.029	958685.9	958685.9	102.29 %		04:34:11
3	Ag 328.068†	52201.9	51101.7	481.56 µg/L	481.56 ppb	04:34:16
3	As 188.979†	240.7	240.9	461.44 µg/L	461.44 ppb	04:34:37
3	B 249.677†	9114.4	8665.0	477.51 µg/L	477.51 ppb	04:34:16
3	Ba 233.527†	18189.9	17636.3	477.95 µg/L	477.95 ppb	04:34:16
3	Be 313.107†	664115.6	645204.8	481.81 µg/L	481.81 ppb	04:34:11
3	Cd 226.502†	16079.6	15721.9	476.43 µg/L	476.43 ppb	04:34:16
3	Co 228.616†	9045.9	8738.7	475.60 µg/L	475.60 ppb	04:34:16
3	Cr 267.716†	17967.4	17341.6	463.94 µg/L	463.94 ppb	04:34:16
3	Cu 324.752†	66548.5	61855.9	469.14 µg/L	469.14 ppb	04:34:16
3	Mn 257.610†	128408.1	125005.2	472.71 µg/L	472.71 ppb	04:34:16
3	Mo 202.031†	3874.7	3752.3	452.93 µg/L	452.93 ppb	04:34:37
3	Ni 231.604†	7280.7	6759.8	493.49 µg/L	493.49 ppb	04:34:16
3	P 214.914†	1281.5	1000.5	2226.4 µg/L	2226.4 ppb	04:34:37
3	Pb 220.353†	1482.2	1401.5	466.76 µg/L	466.76 ppb	04:34:37
3	S 181.975 Axial†	258.5	229.9	953.96 µg/L	953.96 ppb	04:34:37
3	Sb 206.836†	436.2	403.5	460.10 µg/L	460.10 ppb	04:34:37
3	Se 196.026†	395.2	368.6	489.17 µg/L	489.17 ppb	04:34:37
3	SiO2†	25087.5	22905.6	5239.9 µg/L	5239.9 ppb	04:34:16
3	Si 251.611†	29959.1	28646.7	2456.8 µg/L	2456.8 ppb	04:34:16
3	Sn 189.927†	936.1	906.1	446.46 µg/L	446.46 ppb	04:34:37
3	Ti 334.940†	177194.8	171709.8	482.71 µg/L	482.71 ppb	04:34:11
3	Tl 190.801†	382.8	397.4	489.82 µg/L	489.82 ppb	04:34:37
3	U 409.014†	4686.3	4396.9	456.20 µg/L	456.20 ppb	04:34:16
3	V 292.402†	36182.9	35206.0	473.08 µg/L	473.08 ppb	04:34:16
3	Zn 213.857†	18177.4	17003.3	474.72 µg/L	474.72 ppb	04:34:16

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1711529.6	103.01 %	0.165			0.16%
Sc RADIAL	114574.0	104 %	0.1			0.14%
Y 371.029	959742.6	102.40 %	0.108			0.11%
Ag 328.068†	52556.5	495.32 µg/L	11.966	495.32 ppb	11.966	2.42%
QC value within limits for Ag 328.068 Recovery = 99.06%						
Al 396.153Radial†	9400.7	4966.2 µg/L	53.92	4966.2 ppb	53.92	1.09%
QC value within limits for Al 396.153Radial Recovery = 99.32%						
As 188.979†	262.3	502.41 µg/L	35.483	502.41 ppb	35.483	7.06%
QC value within limits for As 188.979 Recovery = 100.48%						
B 249.677†	8882.7	489.59 µg/L	10.496	489.59 ppb	10.496	2.14%
QC value within limits for B 249.677 Recovery = 97.92%						
Ba 233.527†	18352.7	497.38 µg/L	16.986	497.38 ppb	16.986	3.42%
QC value within limits for Ba 233.527 Recovery = 99.48%						
Be 313.107†	662938.7	495.05 µg/L	11.473	495.05 ppb	11.473	2.32%
QC value within limits for Be 313.107 Recovery = 99.01%						
Ca 317.933Radial†	14694.1	5016.2 µg/L	35.02	5016.2 ppb	35.02	0.70%
QC value within limits for Ca 317.933Radial Recovery = 100.32%						
Cd 226.502†	16423.0	497.70 µg/L	18.588	497.70 ppb	18.588	3.73%
QC value within limits for Cd 226.502 Recovery = 99.54%						
Co 228.616†	9164.7	498.83 µg/L	20.211	498.83 ppb	20.211	4.05%

Cr	267.716†	18475.3	494.27 µg/L	26.309	494.27 ppb	26.309	5.32%
Cu	324.752†	64756.9	491.11 µg/L	19.109	491.11 ppb	19.109	3.89%
Fe	238.204 Radial†	696.4	4831.3 µg/L	19.55	4831.3 ppb	19.55	0.40%
K	766.490 Radial†	8255.5	4904.3 µg/L	41.45	4904.3 ppb	41.45	0.85%
Mg	279.077 IEC†	503.3	4979.7 µg/L	28.35	4979.7 ppb	28.35	0.57%
Mn	257.610†	131103.5	495.78 µg/L	20.085	495.78 ppb	20.085	4.05%
Mo	202.031†	4157.6	501.84 µg/L	42.364	501.84 ppb	42.364	8.44%
Na	589.592 Radial†	30157.5	9308.6 µg/L	66.73	9308.6 ppb	66.73	0.72%
Ni	231.604†	7099.5	518.28 µg/L	21.527	518.28 ppb	21.527	4.15%
P	214.914†	1095.9	2441.4 µg/L	186.27	2441.4 ppb	186.27	7.63%
Pb	220.353†	1517.4	505.44 µg/L	33.507	505.44 ppb	33.507	6.63%
S	181.975 Axial†	249.3	1034.5 µg/L	70.61	1034.5 ppb	70.61	6.83%
Sb	206.836†	439.0	500.87 µg/L	35.314	500.87 ppb	35.314	7.05%
Se	196.026†	392.2	519.73 µg/L	26.784	519.73 ppb	26.784	5.15%
SiO2†		23631.5	5405.9 µg/L	149.22	5405.9 ppb	149.22	2.76%
Si	251.611†	29555.8	2534.7 µg/L	68.74	2534.7 ppb	68.74	2.71%
Sn	189.927†	1019.8	502.45 µg/L	48.506	502.45 ppb	48.506	9.65%
Sr	421.552†	111246.4	462.69 µg/L	3.147	462.69 ppb	3.147	0.68%
Ti	334.940†	176600.3	496.47 µg/L	11.916	496.47 ppb	11.916	2.40%
Tl	190.801†	413.5	509.62 µg/L	17.248	509.62 ppb	17.248	3.38%
U	409.014†	4621.6	479.56 µg/L	20.586	479.56 ppb	20.586	4.29%
V	292.402†	37027.8	497.77 µg/L	21.464	497.77 ppb	21.464	4.31%
Zn	213.857†	17821.0	497.57 µg/L	19.843	497.57 ppb	19.843	3.99%

QC value within limits for Co 228.616 Recovery = 99.77%

QC value within limits for Cr 267.716 Recovery = 98.85%

QC value within limits for Cu 324.752 Recovery = 98.22%

QC value within limits for Fe 238.204 Radial Recovery = 96.63%

QC value within limits for K 766.490 Radial Recovery = 98.09%

QC value within limits for Mg 279.077 IEC Recovery = 99.59%

QC value within limits for Mn 257.610 Recovery = 99.16%

QC value within limits for Mo 202.031 Recovery = 100.37%

QC value within limits for Na 589.592 Radial Recovery = 93.09%

QC value within limits for Ni 231.604 Recovery = 103.66%

QC value within limits for P 214.914 Recovery = 97.66%

QC value within limits for Pb 220.353 Recovery = 101.09%

QC value within limits for S 181.975 Axial Recovery = 103.45%

QC value within limits for Sb 206.836 Recovery = 100.17%

QC value within limits for Se 196.026 Recovery = 103.95%

QC value within limits for SiO2 Recovery = 101.09%

QC value within limits for Si 251.611 Recovery = 101.39%

QC value within limits for Sn 189.927 Recovery = 100.49%

QC value within limits for Sr 421.552 Recovery = 92.54%

QC value within limits for Ti 334.940 Recovery = 99.29%

QC value within limits for Tl 190.801 Recovery = 101.92%

QC value within limits for U 409.014 Recovery = 95.91%

QC value within limits for V 292.402 Recovery = 99.55%

QC value within limits for Zn 213.857 Recovery = 99.51%

All analyte(s) passed QC.

Sequence No.: 17

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 04:34:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110701.4	110701.4	100 %		04:35:19
1	Al 396.153Radial†	-124.0	-53.7	-28.446 µg/L	-28.446 ppb	04:35:19
1	Ca 317.933Radial†	403.2	-86.9	-29.668 µg/L	-29.668 ppb	04:35:39
1	Fe 238.204 Radial†	32.5	-1.0	-6.6694 µg/L	-6.6694 ppb	04:35:39
1	K 766.490 Radial†	304.7	55.2	32.803 µg/L	32.803 ppb	04:35:19
1	Mg 279.077 IEC†	13.2	-0.2	-2.2144 µg/L	-2.2144 ppb	04:35:39
1	Na 589.592 Radial†	319.3	0.7	0.2041 µg/L	0.2041 ppb	04:35:19
1	Sr 421.552†	180.0	36.1	0.1502 µg/L	0.1502 ppb	04:35:19
1	Sc 361.383	1687142.3	1687142.3	101.54 %		04:36:41
1	Y 371.029	950803.4	950803.4	101.45 %		04:36:41
1	Ag 328.068†	-499.7	25.2	0.2347 µg/L	0.2347 ppb	04:36:47
1	As 188.979†	-5.3	2.4	4.6692 µg/L	4.6692 ppb	04:37:07
1	B 249.677†	186.9	17.2	0.9529 µg/L	0.9529 ppb	04:37:07
1	Ba 233.527†	-7.4	2.8	0.0768 µg/L	0.0768 ppb	04:37:07
1	Be 313.107†	-1798.4	-103.1	-0.0772 µg/L	-0.0772 ppb	04:36:47
1	Cd 226.502†	-148.0	-5.2	-0.1548 µg/L	-0.1548 ppb	04:37:07
1	Co 228.616†	25.8	-1.5	-0.0803 µg/L	-0.0803 ppb	04:37:07
1	Cr 267.716†	82.7	12.3	0.3300 µg/L	0.3300 ppb	04:36:47
1	Cu 324.752†	2671.1	0.2	0.0001 µg/L	0.0001 ppb	04:36:47
1	Mn 257.610†	-508.7	75.1	0.2838 µg/L	0.2838 ppb	04:37:07
1	Mo 202.031†	7.5	5.0	0.5976 µg/L	0.5976 ppb	04:37:07
1	Ni 231.604†	308.2	8.3	0.6037 µg/L	0.6037 ppb	04:37:07
1	P 214.914†	243.7	-1.3	-2.9624 µg/L	-2.9624 ppb	04:37:07
1	Pb 220.353†	37.8	2.5	0.8260 µg/L	0.8260 ppb	04:37:07
1	S 181.975 Axial†	21.6	0.7	2.9982 µg/L	2.9982 ppb	04:37:07
1	Sb 206.836†	21.6	2.1	2.3501 µg/L	2.3501 ppb	04:37:07
1	Se 196.026†	24.2	9.5	12.244 µg/L	12.244 ppb	04:37:07
1	SiO2†	1562.6	134.4	30.753 µg/L	30.753 ppb	04:36:47
1	Si 251.611†	557.1	164.6	14.116 µg/L	14.116 ppb	04:37:07
1	Sn 189.927†	5.5	4.4	2.1848 µg/L	2.1848 ppb	04:37:07
1	Ti 334.940†	170.7	173.7	0.4883 µg/L	0.4883 ppb	04:36:47
1	Tl 190.801†	-27.4	-0.5	-0.5757 µg/L	-0.5757 ppb	04:37:07
1	U 409.014†	154.7	8.2	0.8507 µg/L	0.8507 ppb	04:36:47
1	V 292.402†	-148.8	-2.2	-0.0230 µg/L	-0.0230 ppb	04:36:47
1	Zn 213.857†	615.2	-4.9	-0.1397 µg/L	-0.1397 ppb	04:37:07
2	Sc RADIAL	110256.2	110256.2	99.7 %		04:35:45
2	Al 396.153Radial†	-143.4	-73.7	-39.049 µg/L	-39.049 ppb	04:35:45
2	Ca 317.933Radial†	415.4	-73.1	-24.941 µg/L	-24.941 ppb	04:36:05
2	Fe 238.204 Radial†	34.2	0.9	6.2318 µg/L	6.2318 ppb	04:36:05
2	K 766.490 Radial†	306.9	58.7	34.858 µg/L	34.858 ppb	04:35:45
2	Mg 279.077 IEC†	10.8	-2.6	-25.333 µg/L	-25.333 ppb	04:36:05
2	Na 589.592 Radial†	292.5	-24.9	-7.6802 µg/L	-7.6802 ppb	04:35:45
2	Sr 421.552†	145.2	1.9	0.0078 µg/L	0.0078 ppb	04:35:45
2	Sc 361.383	1684664.7	1684664.7	101.39 %		04:37:13
2	Y 371.029	946772.2	946772.2	101.02 %		04:37:13
2	Ag 328.068†	-519.9	4.6	0.0449 µg/L	0.0449 ppb	04:37:19
2	As 188.979†	-4.7	3.1	5.8778 µg/L	5.8778 ppb	04:37:39
2	B 249.677†	179.6	10.3	0.5640 µg/L	0.5640 ppb	04:37:39
2	Ba 233.527†	-4.6	5.6	0.1522 µg/L	0.1522 ppb	04:37:39
2	Be 313.107†	-1629.1	61.2	0.0456 µg/L	0.0456 ppb	04:37:19
2	Cd 226.502†	-144.6	-2.0	-0.0608 µg/L	-0.0608 ppb	04:37:39
2	Co 228.616†	31.0	3.7	0.2028 µg/L	0.2028 ppb	04:37:39
2	Cr 267.716†	75.4	5.2	0.1401 µg/L	0.1401 ppb	04:37:19
2	Cu 324.752†	2703.1	35.6	0.2705 µg/L	0.2705 ppb	04:37:19
2	Mn 257.610†	-498.9	84.0	0.3197 µg/L	0.3197 ppb	04:37:39
2	Mo 202.031†	12.3	9.8	1.1784 µg/L	1.1784 ppb	04:37:39
2	Ni 231.604†	307.5	8.0	0.5839 µg/L	0.5839 ppb	04:37:39
2	P 214.914†	241.6	-3.0	-6.9383 µg/L	-6.9383 ppb	04:37:39
2	Pb 220.353†	45.7	10.3	3.4312 µg/L	3.4312 ppb	04:37:39

2	S 181.975 Axial†	20.8	-0.0	-0.1270 µg/L	-0.1270 ppb	04:37:39
2	Sb 206.836†	22.7	3.2	3.6586 µg/L	3.6586 ppb	04:37:39
2	Se 196.026†	21.7	7.1	9.1811 µg/L	9.1811 ppb	04:37:39
2	SiO2†	1591.3	165.0	37.739 µg/L	37.739 ppb	04:37:19
2	Si 251.611†	591.4	199.3	17.088 µg/L	17.088 ppb	04:37:39
2	Sn 189.927†	1.0	-0.0	-0.0152 µg/L	-0.0152 ppb	04:37:39
2	Ti 334.940†	146.8	150.4	0.4246 µg/L	0.4246 ppb	04:37:19
2	Tl 190.801†	-24.6	2.2	2.6856 µg/L	2.6856 ppb	04:37:39
2	U 409.014†	67.6	-77.5	-8.0617 µg/L	-8.0617 ppb	04:37:19
2	V 292.402†	-129.8	16.3	0.2178 µg/L	0.2178 ppb	04:37:19
2	Zn 213.857†	623.4	4.0	0.1115 µg/L	0.1115 ppb	04:37:39
3	Sc RADIAL	110826.9	110826.9	100 %		04:36:11
3	Al 396.153Radial†	-122.9	-52.5	-27.823 µg/L	-27.823 ppb	04:36:11
3	Ca 317.933Radial†	411.0	-79.6	-27.184 µg/L	-27.184 ppb	04:36:31
3	Fe 238.204 Radial†	33.2	-0.2	-1.6334 µg/L	-1.6334 ppb	04:36:31
3	K 766.490 Radial†	305.3	55.5	32.985 µg/L	32.985 ppb	04:36:11
3	Mg 279.077 IEC†	12.8	-0.6	-5.9383 µg/L	-5.9383 ppb	04:36:31
3	Na 589.592 Radial†	271.2	-47.7	-14.731 µg/L	-14.731 ppb	04:36:11
3	Sr 421.552†	164.8	20.7	0.0861 µg/L	0.0861 ppb	04:36:11
3	Sc 361.383	1677188.8	1677188.8	100.94 %		04:37:45
3	Y 371.029	942465.0	942465.0	100.56 %		04:37:45
3	Ag 328.068†	-492.6	29.3	0.2753 µg/L	0.2753 ppb	04:37:51
3	As 188.979†	-2.2	5.4	10.451 µg/L	10.451 ppb	04:38:11
3	B 249.677†	170.7	2.3	0.1270 µg/L	0.1270 ppb	04:38:11
3	Ba 233.527†	-7.1	3.1	0.0845 µg/L	0.0845 ppb	04:38:11
3	Be 313.107†	-1459.1	222.5	0.1660 µg/L	0.1660 ppb	04:37:51
3	Cd 226.502†	-131.3	10.5	0.3199 µg/L	0.3199 ppb	04:38:11
3	Co 228.616†	21.9	-5.2	-0.2826 µg/L	-0.2826 ppb	04:38:11
3	Cr 267.716†	92.6	22.6	0.6056 µg/L	0.6056 ppb	04:37:51
3	Cu 324.752†	2680.9	25.5	0.1924 µg/L	0.1924 ppb	04:37:51
3	Mn 257.610†	-468.7	111.7	0.4229 µg/L	0.4229 ppb	04:38:11
3	Mo 202.031†	9.0	6.5	0.7803 µg/L	0.7803 ppb	04:38:11
3	Ni 231.604†	310.1	11.9	0.8684 µg/L	0.8684 ppb	04:38:11
3	P 214.914†	250.7	7.1	16.157 µg/L	16.157 ppb	04:38:11
3	Pb 220.353†	39.6	4.4	1.4565 µg/L	1.4565 ppb	04:38:11
3	S 181.975 Axial†	23.6	2.8	11.523 µg/L	11.523 ppb	04:38:11
3	Sb 206.836†	22.4	3.1	3.4949 µg/L	3.4949 ppb	04:38:11
3	Se 196.026†	22.8	8.2	10.628 µg/L	10.628 ppb	04:38:11
3	SiO2†	1595.0	175.7	40.184 µg/L	40.184 ppb	04:37:51
3	Si 251.611†	604.5	214.8	18.420 µg/L	18.420 ppb	04:38:11
3	Sn 189.927†	3.0	1.9	0.9562 µg/L	0.9562 ppb	04:38:11
3	Ti 334.940†	215.7	219.3	0.6170 µg/L	0.6170 ppb	04:37:51
3	Tl 190.801†	-24.5	2.2	2.7121 µg/L	2.7121 ppb	04:38:11
3	U 409.014†	216.8	70.5	7.3372 µg/L	7.3372 ppb	04:37:51
3	V 292.402†	-125.9	19.6	0.2751 µg/L	0.2751 ppb	04:37:51
3	Zn 213.857†	616.1	-0.4	-0.0145 µg/L	-0.0145 ppb	04:38:11

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1682998.6	101.29 %	0.312			0.31%
Sc RADIAL	110594.8	100.0 %	0.27			0.27%
Y 371.029	946680.2	101.01 %	0.445			0.44%
Ag 328.068†	19.7	0.1850 µg/L	0.12298	0.1850 ppb	0.12298	66.48%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-60.0	-31.773 µg/L	6.3089	-31.773 ppb	6.3089	19.86%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.6	6.9992 µg/L	3.04954	6.9992 ppb	3.04954	43.57%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	9.9	0.5480 µg/L	0.41319	0.5480 ppb	0.41319	75.40%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.9	0.1045 µg/L	0.04151	0.1045 ppb	0.04151	39.71%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	60.2	0.0448 µg/L	0.12160	0.0448 ppb	0.12160	271.51%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-79.9	-27.264 µg/L	2.3645	-27.264 ppb	2.3645	8.67%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.1	0.0347 µg/L	0.25134	0.0347 ppb	0.25134	723.42%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.0	-0.0534 µg/L	0.24383	-0.0534 ppb	0.24383	456.67%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	13.4	0.3586 µg/L	0.23409	0.3586 ppb	0.23409 65.28%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	20.4	0.1543 µg/L	0.13915	0.1543 ppb	0.13915 90.16%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	-0.1	-0.6903 µg/L	6.50213	-0.6903 ppb	6.50213 941.88%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	56.5	33.549 µg/L	1.1376	33.549 ppb	1.1376 3.39%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-1.1	-11.162 µg/L	12.4128	-11.162 ppb	12.4128 111.21%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	90.3	0.3422 µg/L	0.07218	0.3422 ppb	0.07218 21.10%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	7.1	0.8521 µg/L	0.29698	0.8521 ppb	0.29698 34.85%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	-24.0	-7.4022 µg/L	7.47126	-7.4022 ppb	7.47126 100.93%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	9.4	0.6853 µg/L	0.15884	0.6853 ppb	0.15884 23.18%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	0.9	2.0855 µg/L	12.34749	2.0855 ppb	12.34749 592.08%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	5.7	1.9046 µg/L	1.35919	1.9046 ppb	1.35919 71.36%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	1.2	4.7980 µg/L	6.02992	4.7980 ppb	6.02992 125.68%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	2.8	3.1679 µg/L	0.71293	3.1679 ppb	0.71293 22.51%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	8.3	10.684 µg/L	1.5320	10.684 ppb	1.5320 14.34%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	158.4	36.225 µg/L	4.8945	36.225 ppb	4.8945 13.51%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	192.9	16.541 µg/L	2.2038	16.541 ppb	2.2038 13.32%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	2.1	1.0419 µg/L	1.10248	1.0419 ppb	1.10248 105.81%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	19.6	0.0814 µg/L	0.07130	0.0814 ppb	0.07130 87.62%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	181.1	0.5100 µg/L	0.09802	0.5100 ppb	0.09802 19.22%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	1.3	1.6073 µg/L	1.89064	1.6073 ppb	1.89064 117.63%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	0.4	0.0421 µg/L	7.73127	0.0421 ppb	7.73127 >999.9%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	11.2	0.1566 µg/L	0.15819	0.1566 ppb	0.15819 101.01%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	-0.4	-0.0143 µg/L	0.12562	-0.0143 ppb	0.12562 881.26%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 27

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/26/2010 05:10:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	111573.6	111573.6	101 %		05:11:28
1	Al 396.153Radial†	9804.6	9790.1	5171.5 µg/L	5171.5 ppb	05:11:28
1	Ca 317.933Radial†	16035.4	15407.1	5259.6 µg/L	5259.6 ppb	05:11:28
1	Fe 238.204 Radial†	763.8	723.8	5022.0 µg/L	5022.0 ppb	05:11:48
1	K 766.490 Radial†	8916.4	8590.2	5103.2 µg/L	5103.2 ppb	05:11:28
1	Mg 279.077 IEC†	546.2	528.1	5225.4 µg/L	5225.4 ppb	05:11:48
1	Na 589.592 Radial†	31325.6	30736.8	9487.4 µg/L	9487.4 ppb	05:11:28
1	Sr 421.552†	115280.1	114140.8	474.73 µg/L	474.73 ppb	05:11:28
1	Sc 361.383	1690180.7	1690180.7	101.72 %		05:12:51
1	Y 371.029	947873.9	947873.9	101.13 %		05:12:51
1	Ag 328.068†	54961.7	54548.5	514.16 µg/L	514.16 ppb	05:12:57
1	As 188.979†	274.6	277.6	531.88 µg/L	531.88 ppb	05:13:17
1	B 249.677†	9556.9	9228.2	508.65 µg/L	508.65 ppb	05:12:57
1	Ba 233.527†	19672.0	19349.0	524.38 µg/L	524.38 ppb	05:12:57
1	Be 313.107†	704420.6	694161.8	518.37 µg/L	518.37 ppb	05:12:51
1	Cd 226.502†	17552.8	17396.3	527.20 µg/L	527.20 ppb	05:12:57
1	Co 228.616†	9893.7	9699.3	527.94 µg/L	527.94 ppb	05:12:57
1	Cr 267.716†	20007.1	19599.2	524.33 µg/L	524.33 ppb	05:12:57
1	Cu 324.752†	71863.9	68016.7	515.82 µg/L	515.82 ppb	05:12:57
1	Mn 257.610†	140734.0	138927.3	525.36 µg/L	525.36 ppb	05:12:57
1	Mo 202.031†	4537.0	4457.8	538.07 µg/L	538.07 ppb	05:13:17
1	Ni 231.604†	7910.1	7480.9	546.12 µg/L	546.12 ppb	05:12:57
1	P 214.914†	1430.8	1165.3	2596.9 µg/L	2596.9 ppb	05:13:17
1	Pb 220.353†	1682.3	1619.0	539.32 µg/L	539.32 ppb	05:13:17
1	S 181.975 Axial†	290.2	264.7	1098.1 µg/L	1098.1 ppb	05:13:17
1	Sb 206.836†	486.9	459.5	524.36 µg/L	524.36 ppb	05:13:17
1	Se 196.026†	434.2	412.5	546.40 µg/L	546.40 ppb	05:13:17
1	SiO2†	26607.6	24752.5	5662.4 µg/L	5662.4 ppb	05:12:57
1	Si 251.611†	31781.6	30859.4	2646.5 µg/L	2646.5 ppb	05:12:57
1	Sn 189.927†	1123.0	1102.9	543.38 µg/L	543.38 ppb	05:13:17
1	Ti 334.940†	188164.5	184984.2	520.04 µg/L	520.04 ppb	05:12:51
1	Tl 190.801†	412.1	431.6	531.90 µg/L	531.90 ppb	05:13:17
1	U 409.014†	5106.8	4876.1	505.98 µg/L	505.98 ppb	05:12:57
1	V 292.402†	39628.4	39101.8	525.71 µg/L	525.71 ppb	05:12:57
1	Zn 213.857†	19815.2	18868.9	526.85 µg/L	526.85 ppb	05:12:57
2	Sc RADIAL	111834.6	111834.6	101 %		05:11:53
2	Al 396.153Radial†	9789.5	9752.4	5151.8 µg/L	5151.8 ppb	05:11:53
2	Ca 317.933Radial†	15890.3	15226.5	5198.0 µg/L	5198.0 ppb	05:11:53
2	Fe 238.204 Radial†	762.5	720.7	5000.2 µg/L	5000.2 ppb	05:12:14
2	K 766.490 Radial†	8886.7	8540.2	5073.5 µg/L	5073.5 ppb	05:11:53
2	Mg 279.077 IEC†	541.0	521.7	5161.7 µg/L	5161.7 ppb	05:12:14
2	Na 589.592 Radial†	31282.5	30621.6	9451.9 µg/L	9451.9 ppb	05:11:53
2	Sr 421.552†	115102.0	113697.9	472.89 µg/L	472.89 ppb	05:11:53
2	Sc 361.383	1708478.5	1708478.5	102.82 %		05:13:24
2	Y 371.029	961661.2	961661.2	102.61 %		05:13:24
2	Ag 328.068†	54644.4	53661.2	505.79 µg/L	505.79 ppb	05:13:30
2	As 188.979†	269.8	270.1	517.34 µg/L	517.34 ppb	05:13:50
2	B 249.677†	9552.2	9123.0	502.83 µg/L	502.83 ppb	05:13:30
2	Ba 233.527†	19562.3	19035.3	515.87 µg/L	515.87 ppb	05:13:30
2	Be 313.107†	704841.5	687154.7	513.13 µg/L	513.13 ppb	05:13:24
2	Cd 226.502†	17497.4	17157.5	519.96 µg/L	519.96 ppb	05:13:30
2	Co 228.616†	9821.4	9524.8	518.44 µg/L	518.44 ppb	05:13:30
2	Cr 267.716†	20029.3	19410.1	519.27 µg/L	519.27 ppb	05:13:30
2	Cu 324.752†	71334.7	66745.4	506.19 µg/L	506.19 ppb	05:13:30
2	Mn 257.610†	139965.4	136698.0	516.93 µg/L	516.93 ppb	05:13:30
2	Mo 202.031†	4509.6	4383.4	529.09 µg/L	529.09 ppb	05:13:50
2	Ni 231.604†	7864.0	7352.7	536.77 µg/L	536.77 ppb	05:13:30
2	P 214.914†	1440.1	1159.2	2584.1 µg/L	2584.1 ppb	05:13:50
2	Pb 220.353†	1667.7	1587.2	528.71 µg/L	528.71 ppb	05:13:50

2	S 181.975 Axial†	285.3	256.8	1065.7 µg/L	1065.7 ppb	05:13:50
2	Sb 206.836†	490.1	457.5	521.99 µg/L	521.99 ppb	05:13:50
2	Se 196.026†	432.5	406.2	538.32 µg/L	538.32 ppb	05:13:50
2	SiO2†	26512.1	24379.5	5577.1 µg/L	5577.1 ppb	05:13:30
2	Si 251.611†	31722.2	30467.0	2612.9 µg/L	2612.9 ppb	05:13:30
2	Sn 189.927†	1119.0	1087.3	535.67 µg/L	535.67 ppb	05:13:50
2	Ti 334.940†	187862.1	182709.1	513.64 µg/L	513.64 ppb	05:13:24
2	Tl 190.801†	409.2	424.5	523.16 µg/L	523.16 ppb	05:13:50
2	U 409.014†	5035.6	4753.1	493.20 µg/L	493.20 ppb	05:13:30
2	V 292.402†	39325.7	38390.1	516.16 µg/L	516.16 ppb	05:13:30
2	Zn 213.857†	19610.3	18461.1	515.44 µg/L	515.44 ppb	05:13:30
3	Sc RADIAL	112165.1	112165.1	101 %		05:12:19
3	Al 396.153Radial†	9800.4	9734.7	5143.8 µg/L	5143.8 ppb	05:12:19
3	Ca 317.933Radial†	16007.3	15295.6	5221.5 µg/L	5221.5 ppb	05:12:19
3	Fe 238.204 Radial†	768.1	724.0	5022.7 µg/L	5022.7 ppb	05:12:40
3	K 766.490 Radial†	8947.3	8574.0	5093.6 µg/L	5093.6 ppb	05:12:19
3	Mg 279.077 IEC†	543.6	522.6	5169.9 µg/L	5169.9 ppb	05:12:40
3	Na 589.592 Radial†	31349.3	30596.4	9444.1 µg/L	9444.1 ppb	05:12:19
3	Sr 421.552†	115684.2	113936.6	473.88 µg/L	473.88 ppb	05:12:19
3	Sc 361.383	1708888.7	1708888.7	102.85 %		05:13:57
3	Y 371.029	960504.0	960504.0	102.48 %		05:13:57
3	Ag 328.068†	52388.4	51454.9	484.92 µg/L	484.92 ppb	05:14:03
3	As 188.979†	254.6	255.2	488.95 µg/L	488.95 ppb	05:14:23
3	B 249.677†	9144.5	8724.4	480.69 µg/L	480.69 ppb	05:14:03
3	Ba 233.527†	18467.5	17966.2	486.89 µg/L	486.89 ppb	05:14:03
3	Be 313.107†	677213.2	660126.9	492.95 µg/L	492.95 ppb	05:13:57
3	Cd 226.502†	16320.6	16009.2	485.12 µg/L	485.12 ppb	05:14:03
3	Co 228.616†	9209.4	8927.4	485.86 µg/L	485.86 ppb	05:14:03
3	Cr 267.716†	18162.3	17590.2	470.59 µg/L	470.59 ppb	05:14:03
3	Cu 324.752†	67043.8	62556.7	474.49 µg/L	474.49 ppb	05:14:03
3	Mn 257.610†	130900.2	127851.3	483.48 µg/L	483.48 ppb	05:14:03
3	Mo 202.031†	3896.3	3786.0	457.01 µg/L	457.01 ppb	05:14:23
3	Ni 231.604†	7357.7	6858.7	500.70 µg/L	500.70 ppb	05:14:03
3	P 214.914†	1297.0	1019.8	2269.6 µg/L	2269.6 ppb	05:14:23
3	Pb 220.353†	1506.2	1429.7	476.17 µg/L	476.17 ppb	05:14:23
3	S 181.975 Axial†	260.9	233.1	967.24 µg/L	967.24 ppb	05:14:23
3	Sb 206.836†	432.3	401.1	457.41 µg/L	457.41 ppb	05:14:23
3	Se 196.026†	394.9	369.6	490.99 µg/L	490.99 ppb	05:14:23
3	SiO2†	25483.6	23373.4	5346.9 µg/L	5346.9 ppb	05:14:03
3	Si 251.611†	30442.4	29215.3	2505.5 µg/L	2505.5 ppb	05:14:03
3	Sn 189.927†	946.8	919.6	453.12 µg/L	453.12 ppb	05:14:23
3	Ti 334.940†	180623.5	175627.1	493.72 µg/L	493.72 ppb	05:13:57
3	Tl 190.801†	380.5	396.5	488.76 µg/L	488.76 ppb	05:14:23
3	U 409.014†	4616.2	4344.1	450.67 µg/L	450.67 ppb	05:14:03
3	V 292.402†	36515.0	35648.1	479.01 µg/L	479.01 ppb	05:14:03
3	Zn 213.857†	18368.1	17248.6	481.56 µg/L	481.56 ppb	05:14:03

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1702516.0	102.46 %	0.643			0.63%
Sc RADIAL	111857.8	101 %	0.3			0.27%
Y 371.029	956679.7	102.07 %	0.816			0.80%
Ag 328.068†	53221.5	501.62 µg/L	15.055	501.62 ppb	15.055	3.00%
QC value within limits for Ag 328.068 Recovery = 100.32%						
Al 396.153Radial†	9759.1	5155.7 µg/L	14.24	5155.7 ppb	14.24	0.28%
QC value within limits for Al 396.153Radial Recovery = 103.11%						
As 188.979†	267.6	512.72 µg/L	21.833	512.72 ppb	21.833	4.26%
QC value within limits for As 188.979 Recovery = 102.54%						
B 249.677†	9025.2	497.39 µg/L	14.750	497.39 ppb	14.750	2.97%
QC value within limits for B 249.677 Recovery = 99.48%						
Ba 233.527†	18783.5	509.05 µg/L	19.656	509.05 ppb	19.656	3.86%
QC value within limits for Ba 233.527 Recovery = 101.81%						
Be 313.107†	680481.1	508.15 µg/L	13.421	508.15 ppb	13.421	2.64%
QC value within limits for Be 313.107 Recovery = 101.63%						
Ca 317.933Radial†	15309.7	5226.4 µg/L	31.12	5226.4 ppb	31.12	0.60%
QC value within limits for Ca 317.933Radial Recovery = 104.53%						
Cd 226.502†	16854.3	510.76 µg/L	22.499	510.76 ppb	22.499	4.41%
QC value within limits for Cd 226.502 Recovery = 102.15%						
Co 228.616†	9383.8	510.75 µg/L	22.068	510.75 ppb	22.068	4.32%

Cr	267.716†	18866.5	504.73 µg/L	29.675	504.73 ppb	29.675	5.88%
	QC value within limits for Co 228.616 Recovery = 102.15%						
Cu	324.752†	65772.9	498.83 µg/L	21.626	498.83 ppb	21.626	4.34%
	QC value within limits for Cu 324.752 Recovery = 99.77%						
Fe	238.204 Radial†	722.8	5014.9 µg/L	12.75	5014.9 ppb	12.75	0.25%
	QC value within limits for Fe 238.204 Radial Recovery = 100.30%						
K	766.490 Radial†	8568.1	5090.1 µg/L	15.15	5090.1 ppb	15.15	0.30%
	QC value within limits for K 766.490 Radial Recovery = 101.80%						
Mg	279.077 IEC†	524.1	5185.6 µg/L	34.63	5185.6 ppb	34.63	0.67%
	QC value within limits for Mg 279.077 IEC Recovery = 103.71%						
Mn	257.610†	134492.2	508.59 µg/L	22.154	508.59 ppb	22.154	4.36%
	QC value within limits for Mn 257.610 Recovery = 101.72%						
Mo	202.031†	4209.1	508.06 µg/L	44.437	508.06 ppb	44.437	8.75%
	QC value within limits for Mo 202.031 Recovery = 101.61%						
Na	589.592 Radial†	30651.6	9461.1 µg/L	23.10	9461.1 ppb	23.10	0.24%
	QC value within limits for Na 589.592 Radial Recovery = 94.61%						
Ni	231.604†	7230.8	527.86 µg/L	23.984	527.86 ppb	23.984	4.54%
	QC value within limits for Ni 231.604 Recovery = 105.57%						
P	214.914†	1114.8	2483.6 µg/L	185.38	2483.6 ppb	185.38	7.46%
	QC value within limits for P 214.914 Recovery = 99.34%						
Pb	220.353†	1545.3	514.73 µg/L	33.813	514.73 ppb	33.813	6.57%
	QC value within limits for Pb 220.353 Recovery = 102.95%						
S	181.975 Axial†	251.5	1043.7 µg/L	68.15	1043.7 ppb	68.15	6.53%
	QC value within limits for S 181.975 Axial Recovery = 104.37%						
Sb	206.836†	439.4	501.26 µg/L	37.988	501.26 ppb	37.988	7.58%
	QC value within limits for Sb 206.836 Recovery = 100.25%						
Se	196.026†	396.1	525.24 µg/L	29.933	525.24 ppb	29.933	5.70%
	QC value within limits for Se 196.026 Recovery = 105.05%						
SiO2†		24168.5	5528.8 µg/L	163.20	5528.8 ppb	163.20	2.95%
	QC value within limits for SiO2 Recovery = 103.39%						
Si	251.611†	30180.6	2588.3 µg/L	73.64	2588.3 ppb	73.64	2.85%
	QC value within limits for Si 251.611 Recovery = 103.53%						
Sn	189.927†	1036.6	510.72 µg/L	50.034	510.72 ppb	50.034	9.80%
	QC value within limits for Sn 189.927 Recovery = 102.14%						
Sr	421.552†	113925.1	473.83 µg/L	0.922	473.83 ppb	0.922	0.19%
	QC value within limits for Sr 421.552 Recovery = 94.77%						
Ti	334.940†	181106.8	509.13 µg/L	13.726	509.13 ppb	13.726	2.70%
	QC value within limits for Ti 334.940 Recovery = 101.83%						
Tl	190.801†	417.5	514.61 µg/L	22.810	514.61 ppb	22.810	4.43%
	QC value within limits for Tl 190.801 Recovery = 102.92%						
U	409.014†	4657.8	483.29 µg/L	28.957	483.29 ppb	28.957	5.99%
	QC value within limits for U 409.014 Recovery = 96.66%						
V	292.402†	37713.3	506.96 µg/L	24.674	506.96 ppb	24.674	4.87%
	QC value within limits for V 292.402 Recovery = 101.39%						
Zn	213.857†	18192.8	507.95 µg/L	23.559	507.95 ppb	23.559	4.64%
	QC value within limits for Zn 213.857 Recovery = 101.59%						

All analyte(s) passed QC.

Sequence No.: 28

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/26/2010 05:14:33

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	111413.6	111413.6	101 %		05:15:07
1	Al 396.153Radial†	-110.3	-39.3	-20.853 µg/L	-20.853 ppb	05:15:07
1	Ca 317.933Radial†	421.9	-70.9	-24.219 µg/L	-24.219 ppb	05:15:28
1	Fe 238.204 Radial†	33.0	-0.6	-4.2711 µg/L	-4.2711 ppb	05:15:28
1	K 766.490 Radial†	359.0	107.2	63.679 µg/L	63.679 ppb	05:15:07
1	Mg 279.077 IEC†	10.1	-3.4	-33.443 µg/L	-33.443 ppb	05:15:28
1	Na 589.592 Radial†	263.2	-57.1	-17.613 µg/L	-17.613 ppb	05:15:07
1	Sr 421.552†	139.8	-5.0	-0.0207 µg/L	-0.0207 ppb	05:15:07
1	Sc 361.383	1702441.3	1702441.3	102.46 %		05:16:29
1	Y 371.029	958639.6	958639.6	102.28 %		05:16:29
1	Ag 328.068†	-606.4	-74.6	-0.6944 µg/L	-0.6944 ppb	05:16:35
1	As 188.979†	-2.5	5.2	10.029 µg/L	10.029 ppb	05:16:56
1	B 249.677†	187.8	16.4	0.9085 µg/L	0.9085 ppb	05:16:56
1	Ba 233.527†	-1.8	8.4	0.2272 µg/L	0.2272 ppb	05:16:56
1	Be 313.107†	-1708.8	0.3	-0.0001 µg/L	-0.0001 ppb	05:16:35
1	Cd 226.502†	-146.3	-2.1	-0.0642 µg/L	-0.0642 ppb	05:16:56
1	Co 228.616†	28.9	1.3	0.0710 µg/L	0.0710 ppb	05:16:56
1	Cr 267.716†	56.0	-14.5	-0.3871 µg/L	-0.3871 ppb	05:16:35
1	Cu 324.752†	2703.3	8.0	0.0596 µg/L	0.0596 ppb	05:16:35
1	Mn 257.610†	-482.3	105.4	0.4006 µg/L	0.4006 ppb	05:16:56
1	Mo 202.031†	13.5	10.8	1.2992 µg/L	1.2992 ppb	05:16:56
1	Ni 231.604†	306.8	4.1	0.3030 µg/L	0.3030 ppb	05:16:56
1	P 214.914†	240.2	-6.9	-15.658 µg/L	-15.658 ppb	05:16:56
1	Pb 220.353†	32.9	-2.7	-0.8964 µg/L	-0.8964 ppb	05:16:56
1	S 181.975 Axial†	23.5	2.3	9.7273 µg/L	9.7273 ppb	05:16:56
1	Sb 206.836†	21.5	1.8	2.1201 µg/L	2.1201 ppb	05:16:56
1	Se 196.026†	12.0	-2.7	-3.4595 µg/L	-3.4595 ppb	05:16:56
1	SiO2†	1583.8	141.2	32.312 µg/L	32.312 ppb	05:16:35
1	Si 251.611†	615.2	216.4	18.559 µg/L	18.559 ppb	05:16:56
1	Sn 189.927†	2.9	1.8	0.8898 µg/L	0.8898 ppb	05:16:56
1	Ti 334.940†	310.7	308.9	0.8712 µg/L	0.8712 ppb	05:16:35
1	Tl 190.801†	-26.8	0.3	0.3897 µg/L	0.3897 ppb	05:16:56
1	U 409.014†	124.5	-22.7	-2.3596 µg/L	-2.3596 ppb	05:16:35
1	V 292.402†	-107.3	39.6	0.5326 µg/L	0.5326 ppb	05:16:35
1	Zn 213.857†	588.3	-36.6	-1.0282 µg/L	-1.0282 ppb	05:16:56
2	Sc RADIAL	112124.7	112124.7	101 %		05:15:33
2	Al 396.153Radial†	-126.2	-54.4	-28.808 µg/L	-28.808 ppb	05:15:33
2	Ca 317.933Radial†	417.7	-77.8	-26.551 µg/L	-26.551 ppb	05:15:54
2	Fe 238.204 Radial†	33.4	-0.5	-3.5522 µg/L	-3.5522 ppb	05:15:54
2	K 766.490 Radial†	264.5	11.8	6.9882 µg/L	6.9882 ppb	05:15:33
2	Mg 279.077 IEC†	11.5	-2.1	-20.317 µg/L	-20.317 ppb	05:15:54
2	Na 589.592 Radial†	290.0	-32.3	-9.9737 µg/L	-9.9737 ppb	05:15:33
2	Sr 421.552†	196.5	50.1	0.2083 µg/L	0.2083 ppb	05:15:33
2	Sc 361.383	1719335.7	1719335.7	103.48 %		05:17:02
2	Y 371.029	969525.1	969525.1	103.44 %		05:17:02
2	Ag 328.068†	-501.0	33.2	0.3065 µg/L	0.3065 ppb	05:17:07
2	As 188.979†	-0.4	7.2	13.858 µg/L	13.858 ppb	05:17:28
2	B 249.677†	176.0	3.2	0.1757 µg/L	0.1757 ppb	05:17:28
2	Ba 233.527†	-7.8	2.5	0.0680 µg/L	0.0680 ppb	05:17:28
2	Be 313.107†	-1737.9	-11.5	-0.0089 µg/L	-0.0089 ppb	05:17:07
2	Cd 226.502†	-151.9	-6.2	-0.1885 µg/L	-0.1885 ppb	05:17:28
2	Co 228.616†	21.7	-5.9	-0.3240 µg/L	-0.3240 ppb	05:17:28
2	Cr 267.716†	49.3	-21.4	-0.5736 µg/L	-0.5736 ppb	05:17:07
2	Cu 324.752†	2656.8	-62.9	-0.4767 µg/L	-0.4767 ppb	05:17:07
2	Mn 257.610†	-483.8	108.6	0.4118 µg/L	0.4118 ppb	05:17:28
2	Mo 202.031†	9.7	6.9	0.8375 µg/L	0.8375 ppb	05:17:28
2	Ni 231.604†	305.6	0.0	0.0017 µg/L	0.0017 ppb	05:17:28
2	P 214.914†	237.1	-12.2	-27.606 µg/L	-27.606 ppb	05:17:28
2	Pb 220.353†	36.4	0.4	0.1282 µg/L	0.1282 ppb	05:17:28

2	S 181.975 Axial†	23.7	2.4	9.7722 µg/L	9.7722 ppb	05:17:28
2	Sb 206.836†	21.1	1.2	1.3575 µg/L	1.3575 ppb	05:17:28
2	Se 196.026†	2.4	-12.0	-15.578 µg/L	-15.578 ppb	05:17:28
2	SiO2†	1655.6	195.4	44.700 µg/L	44.700 ppb	05:17:07
2	Si 251.611†	628.9	223.7	19.188 µg/L	19.188 ppb	05:17:28
2	Sn 189.927†	0.7	-0.4	-0.1817 µg/L	-0.1817 ppb	05:17:28
2	Ti 334.940†	348.3	342.3	0.9640 µg/L	0.9640 ppb	05:17:07
2	Tl 190.801†	-20.4	6.8	8.3082 µg/L	8.3082 ppb	05:17:28
2	U 409.014†	133.9	-14.8	-1.5378 µg/L	-1.5378 ppb	05:17:07
2	V 292.402†	-185.0	-34.5	-0.4549 µg/L	-0.4549 ppb	05:17:07
2	Zn 213.857†	576.9	-53.3	-1.4965 µg/L	-1.4965 ppb	05:17:28
3	Sc RADIAL	111885.1	111885.1	101 %		05:15:59
3	Al 396.153Radial†	-112.0	-40.5	-21.484 µg/L	-21.484 ppb	05:15:59
3	Ca 317.933Radial†	413.5	-81.1	-27.671 µg/L	-27.671 ppb	05:16:19
3	Fe 238.204 Radial†	33.6	-0.2	-1.5802 µg/L	-1.5802 ppb	05:16:19
3	K 766.490 Radial†	239.8	-12.1	-7.2047 µg/L	-7.2047 ppb	05:15:59
3	Mg 279.077 IEC†	9.7	-3.9	-38.095 µg/L	-38.095 ppb	05:16:19
3	Na 589.592 Radial†	301.1	-20.7	-6.3763 µg/L	-6.3763 ppb	05:15:59
3	Sr 421.552†	177.4	31.6	0.1315 µg/L	0.1315 ppb	05:15:59
3	Sc 361.383	1713071.9	1713071.9	103.10 %		05:17:34
3	Y 371.029	969517.1	969517.1	103.44 %		05:17:34
3	Ag 328.068†	-446.9	83.8	0.7795 µg/L	0.7795 ppb	05:17:39
3	As 188.979†	-5.2	2.6	5.0201 µg/L	5.0201 ppb	05:18:00
3	B 249.677†	165.7	-6.1	-0.3378 µg/L	-0.3378 ppb	05:18:00
3	Ba 233.527†	1.1	11.2	0.3008 µg/L	0.3008 ppb	05:18:00
3	Be 313.107†	-1637.6	79.6	0.0592 µg/L	0.0592 ppb	05:17:39
3	Cd 226.502†	-141.0	3.8	0.1154 µg/L	0.1154 ppb	05:18:00
3	Co 228.616†	30.6	2.8	0.1500 µg/L	0.1500 ppb	05:18:00
3	Cr 267.716†	100.0	27.9	0.7456 µg/L	0.7456 ppb	05:17:39
3	Cu 324.752†	2699.7	-11.9	-0.0905 µg/L	-0.0905 ppb	05:17:39
3	Mn 257.610†	-470.6	119.7	0.4550 µg/L	0.4550 ppb	05:18:00
3	Mo 202.031†	10.3	7.6	0.9162 µg/L	0.9162 ppb	05:18:00
3	Ni 231.604†	304.6	0.1	0.0076 µg/L	0.0076 ppb	05:18:00
3	P 214.914†	239.4	-9.1	-20.672 µg/L	-20.672 ppb	05:18:00
3	Pb 220.353†	34.7	-1.1	-0.3856 µg/L	-0.3856 ppb	05:18:00
3	S 181.975 Axial†	18.6	-2.5	-10.344 µg/L	-10.344 ppb	05:18:00
3	Sb 206.836†	19.5	-0.3	-0.3315 µg/L	-0.3315 ppb	05:18:00
3	Se 196.026†	17.2	2.3	2.9601 µg/L	2.9601 ppb	05:18:00
3	SiO2†	1671.6	216.8	49.588 µg/L	49.588 ppb	05:17:39
3	Si 251.611†	664.0	260.0	22.294 µg/L	22.294 ppb	05:18:00
3	Sn 189.927†	3.7	2.6	1.2776 µg/L	1.2776 ppb	05:18:00
3	Ti 334.940†	286.3	283.3	0.7995 µg/L	0.7995 ppb	05:17:39
3	Tl 190.801†	-27.6	-0.3	-0.3086 µg/L	-0.3086 ppb	05:18:00
3	U 409.014†	223.3	72.3	7.5211 µg/L	7.5211 ppb	05:17:39
3	V 292.402†	-198.6	-48.3	-0.6259 µg/L	-0.6259 ppb	05:17:39
3	Zn 213.857†	598.3	-30.5	-0.8551 µg/L	-0.8551 ppb	05:18:00

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1711616.3	103.01 %	0.514			0.50%
Sc RADIAL	111807.8	101 %	0.3			0.32%
Y 371.029	965893.9	103.06 %	0.670			0.65%
Ag 328.068†	14.1	0.1305 µg/L	0.75256	0.1305 ppb	0.75256	576.57%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-44.8	-23.715 µg/L	4.4217	-23.715 ppb	4.4217	18.65%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.0	9.6357 µg/L	4.43217	9.6357 ppb	4.43217	46.00%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	4.5	0.2488 µg/L	0.62634	0.2488 ppb	0.62634	251.76%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.4	0.1987 µg/L	0.11900	0.1987 ppb	0.11900	59.90%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	22.8	0.0167 µg/L	0.03705	0.0167 ppb	0.03705	221.78%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-76.6	-26.147 µg/L	1.7614	-26.147 ppb	1.7614	6.74%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-1.5	-0.0458 µg/L	0.15279	-0.0458 ppb	0.15279	333.67%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.6	-0.0343 µg/L	0.25396	-0.0343 ppb	0.25396	739.90%

Cr	267.716†	-2.7	-0.0717 µg/L	0.71387	-0.0717 ppb	0.71387	995.79%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-22.3	-0.1692 µg/L	0.27670	-0.1692 ppb	0.27670	163.53%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-0.5	-3.1345 µg/L	1.39320	-3.1345 ppb	1.39320	44.45%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	35.6	21.154 µg/L	37.5050	21.154 ppb	37.5050	177.29%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-3.1	-30.618 µg/L	9.2197	-30.618 ppb	9.2197	30.11%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	111.2	0.4225 µg/L	0.02872	0.4225 ppb	0.02872	6.80%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	8.4	1.0176 µg/L	0.24703	1.0176 ppb	0.24703	24.27%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-36.7	-11.321 µg/L	5.7381	-11.321 ppb	5.7381	50.69%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	1.4	0.1041 µg/L	0.17227	0.1041 ppb	0.17227	165.46%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-9.4	-21.312 µg/L	5.9994	-21.312 ppb	5.9994	28.15%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-1.2	-0.3846 µg/L	0.51230	-0.3846 ppb	0.51230	133.19%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	0.7	3.0519 µg/L	11.60111	3.0519 ppb	11.60111	380.13%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	0.9	1.0487 µg/L	1.25464	1.0487 ppb	1.25464	119.63%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-4.2	-5.3591 µg/L	9.41377	-5.3591 ppb	9.41377	175.66%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		184.5	42.200 µg/L	8.9052	42.200 ppb	8.9052	21.10%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	233.4	20.013 µg/L	1.9999	20.013 ppb	1.9999	9.99%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	1.4	0.6619 µg/L	0.75588	0.6619 ppb	0.75588	114.20%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	25.6	0.1064 µg/L	0.11653	0.1064 ppb	0.11653	109.54%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	311.5	0.8782 µg/L	0.08245	0.8782 ppb	0.08245	9.39%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	2.3	2.7965 µg/L	4.78607	2.7965 ppb	4.78607	171.15%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	11.6	1.2079 µg/L	5.48279	1.2079 ppb	5.48279	453.91%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-14.4	-0.1827 µg/L	0.62537	-0.1827 ppb	0.62537	342.21%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-40.1	-1.1266 µg/L	0.33184	-1.1266 ppb	0.33184	29.45%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 37

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/26/2010 05:47:36

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	111313.9	111313.9	101 %		05:48:13
1	Al 396.153Radial†	10092.8	10099.1	5334.9 µg/L	5334.9 ppb	05:48:13
1	Ca 317.933Radial†	16535.2	15940.8	5441.8 µg/L	5441.8 ppb	05:48:13
1	Fe 238.204 Radial†	777.6	739.2	5128.8 µg/L	5128.8 ppb	05:48:34
1	K 766.490 Radial†	9137.3	8830.4	5245.9 µg/L	5245.9 ppb	05:48:13
1	Mg 279.077 IEC†	556.2	539.2	5335.4 µg/L	5335.4 ppb	05:48:34
1	Na 589.592 Radial†	31779.1	31259.8	9648.9 µg/L	9648.9 ppb	05:48:13
1	Sr 421.552†	118206.0	117314.8	487.93 µg/L	487.93 ppb	05:48:13
1	Sc 361.383	1692940.7	1692940.7	101.89 %		05:49:37
1	Y 371.029	951942.1	951942.1	101.57 %		05:49:37
1	Ag 328.068†	55396.8	54887.3	517.37 µg/L	517.37 ppb	05:49:43
1	As 188.979†	283.7	286.0	547.99 µg/L	547.99 ppb	05:50:04
1	B 249.677†	9665.9	9319.9	513.67 µg/L	513.67 ppb	05:49:43
1	Ba 233.527†	19847.5	19489.7	528.19 µg/L	528.19 ppb	05:49:43
1	Be 313.107†	716554.5	704941.9	526.42 µg/L	526.42 ppb	05:49:37
1	Cd 226.502†	17705.9	17518.4	530.90 µg/L	530.90 ppb	05:49:43
1	Co 228.616†	10012.8	9800.3	533.44 µg/L	533.44 ppb	05:49:43
1	Cr 267.716†	20242.4	19798.1	529.65 µg/L	529.65 ppb	05:49:43
1	Cu 324.752†	72299.5	68329.0	518.20 µg/L	518.20 ppb	05:49:43
1	Mn 257.610†	144261.8	142164.2	537.60 µg/L	537.60 ppb	05:49:37
1	Mo 202.031†	4621.9	4533.9	547.25 µg/L	547.25 ppb	05:50:04
1	Ni 231.604†	8032.0	7587.8	553.93 µg/L	553.93 ppb	05:49:43
1	P 214.914†	1468.2	1199.7	2675.1 µg/L	2675.1 ppb	05:50:04
1	Pb 220.353†	1717.1	1650.5	549.83 µg/L	549.83 ppb	05:50:04
1	S 181.975 Axial†	290.2	264.2	1096.4 µg/L	1096.4 ppb	05:50:04
1	Sb 206.836†	495.8	467.5	533.51 µg/L	533.51 ppb	05:50:04
1	Se 196.026†	436.1	413.7	548.23 µg/L	548.23 ppb	05:50:04
1	SiO2†	26731.2	24831.2	5680.4 µg/L	5680.4 ppb	05:49:43
1	Si 251.611†	31937.6	30961.6	2655.3 µg/L	2655.3 ppb	05:49:43
1	Sn 189.927†	1154.0	1131.5	557.48 µg/L	557.48 ppb	05:50:04
1	Ti 334.940†	190188.3	186669.0	524.77 µg/L	524.77 ppb	05:49:37
1	Tl 190.801†	419.2	437.9	539.64 µg/L	539.64 ppb	05:50:04
1	U 409.014†	5062.3	4824.3	500.57 µg/L	500.57 ppb	05:49:43
1	V 292.402†	40037.8	39440.1	530.29 µg/L	530.29 ppb	05:49:43
1	Zn 213.857†	19897.9	18918.3	528.19 µg/L	528.19 ppb	05:49:43
2	Sc RADIAL	112160.1	112160.1	101 %		05:48:39
2	Al 396.153Radial†	10024.8	9956.5	5259.5 µg/L	5259.5 ppb	05:48:39
2	Ca 317.933Radial†	16500.2	15782.3	5387.7 µg/L	5387.7 ppb	05:48:39
2	Fe 238.204 Radial†	776.9	732.7	5083.8 µg/L	5083.8 ppb	05:49:00
2	K 766.490 Radial†	9093.3	8718.4	5179.3 µg/L	5179.3 ppb	05:48:39
2	Mg 279.077 IEC†	552.7	531.7	5260.8 µg/L	5260.8 ppb	05:49:00
2	Na 589.592 Radial†	31767.0	31009.7	9571.7 µg/L	9571.7 ppb	05:48:39
2	Sr 421.552†	117788.1	116016.6	482.53 µg/L	482.53 ppb	05:48:39
2	Sc 361.383	1693221.9	1693221.9	101.91 %		05:50:11
2	Y 371.029	950895.0	950895.0	101.46 %		05:50:11
2	Ag 328.068†	55859.4	55332.3	521.54 µg/L	521.54 ppb	05:50:16
2	As 188.979†	280.1	282.6	541.30 µg/L	541.30 ppb	05:50:37
2	B 249.677†	9739.9	9390.9	517.62 µg/L	517.62 ppb	05:50:16
2	Ba 233.527†	20022.9	19658.7	532.77 µg/L	532.77 ppb	05:50:16
2	Be 313.107†	709383.1	697787.8	521.07 µg/L	521.07 ppb	05:50:11
2	Cd 226.502†	17797.9	17605.8	533.55 µg/L	533.55 ppb	05:50:16
2	Co 228.616†	10051.1	9836.3	535.41 µg/L	535.41 ppb	05:50:16
2	Cr 267.716†	20360.5	19910.7	532.67 µg/L	532.67 ppb	05:50:16
2	Cu 324.752†	72994.7	68999.5	523.27 µg/L	523.27 ppb	05:50:16
2	Mn 257.610†	142983.6	140886.3	532.77 µg/L	532.77 ppb	05:50:11
2	Mo 202.031†	4561.5	4473.9	540.01 µg/L	540.01 ppb	05:50:37
2	Ni 231.604†	8057.3	7611.3	555.65 µg/L	555.65 ppb	05:50:16
2	P 214.914†	1455.3	1186.8	2645.2 µg/L	2645.2 ppb	05:50:37
2	Pb 220.353†	1682.1	1615.9	538.25 µg/L	538.25 ppb	05:50:37

2	S 181.975 Axial†	288.8	262.9	1090.6 µg/L	1090.6 ppb	05:50:37
2	Sb 206.836†	494.1	465.7	531.40 µg/L	531.40 ppb	05:50:37
2	Se 196.026†	436.8	414.3	548.95 µg/L	548.95 ppb	05:50:37
2	SiO2†	27026.3	25116.5	5745.6 µg/L	5745.6 ppb	05:50:16
2	Si 251.611†	32358.3	31369.3	2690.2 µg/L	2690.2 ppb	05:50:16
2	Sn 189.927†	1136.7	1114.5	549.06 µg/L	549.06 ppb	05:50:37
2	Ti 334.940†	188677.7	185155.6	520.52 µg/L	520.52 ppb	05:50:11
2	Tl 190.801†	415.9	434.6	535.64 µg/L	535.64 ppb	05:50:37
2	U 409.014†	5165.5	4924.7	511.02 µg/L	511.02 ppb	05:50:16
2	V 292.402†	40204.3	39596.9	532.33 µg/L	532.33 ppb	05:50:16
2	Zn 213.857†	20088.1	19101.7	533.34 µg/L	533.34 ppb	05:50:16
3	Sc RADIAL	111291.8	111291.8	101 %		05:49:05
3	Al 396.153Radial†	9858.9	9868.6	5214.6 µg/L	5214.6 ppb	05:49:05
3	Ca 317.933Radial†	16136.2	15547.6	5307.6 µg/L	5307.6 ppb	05:49:05
3	Fe 238.204 Radial†	776.9	738.7	5124.7 µg/L	5124.7 ppb	05:49:26
3	K 766.490 Radial†	9016.2	8711.7	5175.4 µg/L	5175.4 ppb	05:49:05
3	Mg 279.077 IEC†	549.9	533.1	5273.3 µg/L	5273.3 ppb	05:49:26
3	Na 589.592 Radial†	31246.2	30736.5	9487.3 µg/L	9487.3 ppb	05:49:05
3	Sr 421.552†	115620.0	114768.0	477.34 µg/L	477.34 ppb	05:49:05
3	Sc 361.383	1689293.3	1689293.3	101.67 %		05:50:44
3	Y 371.029	945291.4	945291.4	100.86 %		05:50:44
3	Ag 328.068†	52996.8	52644.2	496.13 µg/L	496.13 ppb	05:50:50
3	As 188.979†	248.2	251.8	482.40 µg/L	482.40 ppb	05:51:10
3	B 249.677†	9194.6	8876.7	489.08 µg/L	489.08 ppb	05:50:50
3	Ba 233.527†	18621.0	18325.4	496.62 µg/L	496.62 ppb	05:50:50
3	Be 313.107†	675565.9	666144.6	497.44 µg/L	497.44 ppb	05:50:44
3	Cd 226.502†	16574.5	16443.0	498.27 µg/L	498.27 ppb	05:50:50
3	Co 228.616†	9261.4	9082.5	494.31 µg/L	494.31 ppb	05:50:50
3	Cr 267.716†	18395.4	18024.4	482.21 µg/L	482.21 ppb	05:50:50
3	Cu 324.752†	67617.4	63877.1	484.50 µg/L	484.50 ppb	05:50:50
3	Mn 257.610†	136778.9	135109.8	510.93 µg/L	510.93 ppb	05:50:44
3	Mo 202.031†	3915.1	3848.4	464.55 µg/L	464.55 ppb	05:51:10
3	Ni 231.604†	7438.0	7020.6	512.53 µg/L	512.53 ppb	05:50:50
3	P 214.914†	1302.6	1039.9	2314.4 µg/L	2314.4 ppb	05:51:10
3	Pb 220.353†	1492.4	1433.1	477.28 µg/L	477.28 ppb	05:51:10
3	S 181.975 Axial†	259.9	235.0	975.24 µg/L	975.24 ppb	05:51:10
3	Sb 206.836†	442.0	415.6	473.82 µg/L	473.82 ppb	05:51:10
3	Se 196.026†	395.7	374.9	498.07 µg/L	498.07 ppb	05:51:10
3	SiO2†	25650.6	23825.0	5450.2 µg/L	5450.2 ppb	05:50:50
3	Si 251.611†	30547.9	29662.4	2543.9 µg/L	2543.9 ppb	05:50:50
3	Sn 189.927†	960.4	943.6	464.96 µg/L	464.96 ppb	05:51:10
3	Ti 334.940†	179272.7	176335.6	495.71 µg/L	495.71 ppb	05:50:44
3	Tl 190.801†	376.8	397.1	489.60 µg/L	489.60 ppb	05:51:10
3	U 409.014†	4673.8	4452.9	461.96 µg/L	461.96 ppb	05:50:50
3	V 292.402†	36924.6	36462.8	489.94 µg/L	489.94 ppb	05:50:50
3	Zn 213.857†	18581.1	17665.3	493.19 µg/L	493.19 ppb	05:50:50

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1691818.7	101.82 %	0.132			0.13%
Sc RADIAL	111588.6	101 %	0.4			0.44%
Y 371.029	949376.2	101.29 %	0.382			0.38%
Ag 328.068†	54287.9	511.68 µg/L	13.625	511.68 ppb	13.625	2.66%
QC value within limits for Ag 328.068 Recovery = 102.34%						
Al 396.153Radial†	9974.7	5269.7 µg/L	60.79	5269.7 ppb	60.79	1.15%
QC value within limits for Al 396.153Radial Recovery = 105.39%						
As 188.979†	273.5	523.90 µg/L	36.094	523.90 ppb	36.094	6.89%
QC value within limits for As 188.979 Recovery = 104.78%						
B 249.677†	9195.8	506.79 µg/L	15.462	506.79 ppb	15.462	3.05%
QC value within limits for B 249.677 Recovery = 101.36%						
Ba 233.527†	19157.9	519.19 µg/L	19.680	519.19 ppb	19.680	3.79%
QC value within limits for Ba 233.527 Recovery = 103.84%						
Be 313.107†	689624.8	514.98 µg/L	15.418	514.98 ppb	15.418	2.99%
QC value within limits for Be 313.107 Recovery = 103.00%						
Ca 317.933Radial†	15756.9	5379.0 µg/L	67.55	5379.0 ppb	67.55	1.26%
QC value within limits for Ca 317.933Radial Recovery = 107.58%						
Cd 226.502†	17189.0	520.91 µg/L	19.651	520.91 ppb	19.651	3.77%
QC value within limits for Cd 226.502 Recovery = 104.18%						
Co 228.616†	9573.0	521.05 µg/L	23.180	521.05 ppb	23.180	4.45%

QC value within limits for Co 228.616 Recovery = 104.21%						
Cr 267.716†	19244.4	514.84 µg/L	28.303	514.84 ppb	28.303	5.50%
QC value within limits for Cr 267.716 Recovery = 102.97%						
Cu 324.752†	67068.5	508.66 µg/L	21.073	508.66 ppb	21.073	4.14%
QC value within limits for Cu 324.752 Recovery = 101.73%						
Fe 238.204 Radial†	736.9	5112.4 µg/L	24.88	5112.4 ppb	24.88	0.49%
QC value within limits for Fe 238.204 Radial Recovery = 102.25%						
K 766.490 Radial†	8753.5	5200.2 µg/L	39.60	5200.2 ppb	39.60	0.76%
QC value within limits for K 766.490 Radial Recovery = 104.00%						
Mg 279.077 IEC†	534.7	5289.9 µg/L	39.96	5289.9 ppb	39.96	0.76%
QC value within limits for Mg 279.077 IEC Recovery = 105.80%						
Mn 257.610†	139386.8	527.10 µg/L	14.213	527.10 ppb	14.213	2.70%
QC value within limits for Mn 257.610 Recovery = 105.42%						
Mo 202.031†	4285.4	517.27 µg/L	45.804	517.27 ppb	45.804	8.86%
QC value within limits for Mo 202.031 Recovery = 103.45%						
Na 589.592 Radial†	31002.0	9569.3 µg/L	80.79	9569.3 ppb	80.79	0.84%
QC value within limits for Na 589.592 Radial Recovery = 95.69%						
Ni 231.604†	7406.6	540.70 µg/L	24.415	540.70 ppb	24.415	4.52%
QC value within limits for Ni 231.604 Recovery = 108.14%						
P 214.914†	1142.2	2544.9 µg/L	200.20	2544.9 ppb	200.20	7.87%
QC value within limits for P 214.914 Recovery = 101.79%						
Pb 220.353†	1566.5	521.79 µg/L	38.974	521.79 ppb	38.974	7.47%
QC value within limits for Pb 220.353 Recovery = 104.36%						
S 181.975 Axial†	254.0	1054.1 µg/L	68.32	1054.1 ppb	68.32	6.48%
QC value within limits for S 181.975 Axial Recovery = 105.41%						
Sb 206.836†	449.6	512.91 µg/L	33.870	512.91 ppb	33.870	6.60%
QC value within limits for Sb 206.836 Recovery = 102.58%						
Se 196.026†	400.9	531.75 µg/L	29.172	531.75 ppb	29.172	5.49%
QC value within limits for Se 196.026 Recovery = 106.35%						
SiO2†	24590.9	5625.4 µg/L	155.21	5625.4 ppb	155.21	2.76%
QC value within limits for SiO2 Recovery = 105.20%						
Si 251.611†	30664.4	2629.8 µg/L	76.45	2629.8 ppb	76.45	2.91%
QC value within limits for Si 251.611 Recovery = 105.19%						
Sn 189.927†	1063.2	523.83 µg/L	51.157	523.83 ppb	51.157	9.77%
QC value within limits for Sn 189.927 Recovery = 104.77%						
Sr 421.552†	116033.2	482.60 µg/L	5.297	482.60 ppb	5.297	1.10%
QC value within limits for Sr 421.552 Recovery = 96.52%						
Ti 334.940†	182720.1	513.66 µg/L	15.698	513.66 ppb	15.698	3.06%
QC value within limits for Ti 334.940 Recovery = 102.73%						
Tl 190.801†	423.2	521.63 µg/L	27.806	521.63 ppb	27.806	5.33%
QC value within limits for Tl 190.801 Recovery = 104.33%						
U 409.014†	4733.9	491.19 µg/L	25.840	491.19 ppb	25.840	5.26%
QC value within limits for U 409.014 Recovery = 98.24%						
V 292.402†	38499.9	517.52 µg/L	23.911	517.52 ppb	23.911	4.62%
QC value within limits for V 292.402 Recovery = 103.50%						
Zn 213.857†	18561.8	518.24 µg/L	21.844	518.24 ppb	21.844	4.22%
QC value within limits for Zn 213.857 Recovery = 103.65%						

All analyte(s) passed QC.

Sequence No.: 38

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/26/2010 05:51:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	111828.7	111828.7	101 %		05:51:55
1	Al 396.153Radial†	-131.6	-60.0	-31.766 µg/L	-31.766 ppb	05:51:55
1	Ca 317.933Radial†	414.9	-79.5	-27.135 µg/L	-27.135 ppb	05:52:15
1	Fe 238.204 Radial†	32.8	-0.9	-6.5486 µg/L	-6.5486 ppb	05:52:15
1	K 766.490 Radial†	291.4	39.0	23.150 µg/L	23.150 ppb	05:51:55
1	Mg 279.077 IEC†	14.0	0.4	3.9691 µg/L	3.9691 ppb	05:52:15
1	Na 589.592 Radial†	225.1	-95.7	-29.541 µg/L	-29.541 ppb	05:51:55
1	Sr 421.552†	160.9	15.3	0.0638 µg/L	0.0638 ppb	05:51:55
1	Sc 361.383	1700322.7	1700322.7	102.33 %		05:53:17
1	Y 371.029	957500.3	957500.3	102.16 %		05:53:17
1	Ag 328.068†	-473.7	54.4	0.5069 µg/L	0.5069 ppb	05:53:22
1	As 188.979†	-2.3	5.4	10.311 µg/L	10.311 ppb	05:53:43
1	B 249.677†	177.9	7.0	0.3885 µg/L	0.3885 ppb	05:53:43
1	Ba 233.527†	-3.3	6.9	0.1857 µg/L	0.1857 ppb	05:53:43
1	Be 313.107†	-1808.5	-99.2	-0.0743 µg/L	-0.0743 ppb	05:53:22
1	Cd 226.502†	-148.9	-4.9	-0.1463 µg/L	-0.1463 ppb	05:53:43
1	Co 228.616†	35.2	7.5	0.4096 µg/L	0.4096 ppb	05:53:43
1	Cr 267.716†	75.5	4.6	0.1234 µg/L	0.1234 ppb	05:53:22
1	Cu 324.752†	2700.8	8.8	0.0657 µg/L	0.0657 ppb	05:53:22
1	Mn 257.610†	-491.8	95.5	0.3606 µg/L	0.3606 ppb	05:53:43
1	Mo 202.031†	9.1	6.4	0.7777 µg/L	0.7777 ppb	05:53:43
1	Ni 231.604†	302.3	0.2	0.0109 µg/L	0.0109 ppb	05:53:43
1	P 214.914†	241.8	-5.0	-11.290 µg/L	-11.290 ppb	05:53:43
1	Pb 220.353†	33.1	-2.5	-0.8239 µg/L	-0.8239 ppb	05:53:43
1	S 181.975 Axial†	18.5	-2.5	-10.572 µg/L	-10.572 ppb	05:53:43
1	Sb 206.836†	24.1	4.4	4.9917 µg/L	4.9917 ppb	05:53:43
1	Se 196.026†	14.1	-0.6	-0.7604 µg/L	-0.7604 ppb	05:53:43
1	SiO2†	1519.0	79.9	18.275 µg/L	18.275 ppb	05:53:22
1	Si 251.611†	559.9	163.1	13.985 µg/L	13.985 ppb	05:53:43
1	Sn 189.927†	-2.4	-3.4	-1.6673 µg/L	-1.6673 ppb	05:53:43
1	Ti 334.940†	135.5	138.0	0.3875 µg/L	0.3875 ppb	05:53:22
1	Tl 190.801†	-28.0	-0.8	-1.0006 µg/L	-1.0006 ppb	05:53:43
1	U 409.014†	135.3	-12.0	-1.2473 µg/L	-1.2473 ppb	05:53:22
1	V 292.402†	-158.1	-10.2	-0.1302 µg/L	-0.1302 ppb	05:53:22
1	Zn 213.857†	600.9	-23.5	-0.6623 µg/L	-0.6623 ppb	05:53:43
2	Sc RADIAL	111656.6	111656.6	101 %		05:52:20
2	Al 396.153Radial†	-110.1	-38.9	-20.635 µg/L	-20.635 ppb	05:52:20
2	Ca 317.933Radial†	412.7	-81.0	-27.653 µg/L	-27.653 ppb	05:52:41
2	Fe 238.204 Radial†	31.4	-2.3	-16.132 µg/L	-16.132 ppb	05:52:41
2	K 766.490 Radial†	203.2	-47.9	-28.460 µg/L	-28.460 ppb	05:52:20
2	Mg 279.077 IEC†	7.0	-6.5	-63.767 µg/L	-63.767 ppb	05:52:41
2	Na 589.592 Radial†	236.1	-84.4	-26.059 µg/L	-26.059 ppb	05:52:20
2	Sr 421.552†	126.1	-18.8	-0.0782 µg/L	-0.0782 ppb	05:52:20
2	Sc 361.383	1689602.3	1689602.3	101.69 %		05:53:49
2	Y 371.029	954297.3	954297.3	101.82 %		05:53:49
2	Ag 328.068†	-501.8	23.9	0.2227 µg/L	0.2227 ppb	05:53:55
2	As 188.979†	-4.8	2.9	5.5509 µg/L	5.5509 ppb	05:54:15
2	B 249.677†	186.5	16.5	0.9205 µg/L	0.9205 ppb	05:54:15
2	Ba 233.527†	0.5	10.6	0.2866 µg/L	0.2866 ppb	05:54:15
2	Be 313.107†	-1733.7	-36.9	-0.0278 µg/L	-0.0278 ppb	05:53:55
2	Cd 226.502†	-142.1	0.9	0.0281 µg/L	0.0281 ppb	05:54:15
2	Co 228.616†	29.7	2.3	0.1264 µg/L	0.1264 ppb	05:54:15
2	Cr 267.716†	81.5	11.0	0.2951 µg/L	0.2951 ppb	05:53:55
2	Cu 324.752†	2702.4	27.1	0.2022 µg/L	0.2022 ppb	05:53:55
2	Mn 257.610†	-469.0	114.9	0.4379 µg/L	0.4379 ppb	05:54:15
2	Mo 202.031†	17.8	15.1	1.8179 µg/L	1.8179 ppb	05:54:15
2	Ni 231.604†	293.7	-6.5	-0.4753 µg/L	-0.4753 ppb	05:54:15
2	P 214.914†	246.0	0.6	1.4226 µg/L	1.4226 ppb	05:54:15
2	Pb 220.353†	27.5	-7.7	-2.5497 µg/L	-2.5497 ppb	05:54:15

2	S 181.975 Axial†	25.6	4.6	18.951 µg/L	18.951 ppb	05:54:15
2	Sb 206.836†	19.6	0.1	0.1665 µg/L	0.1665 ppb	05:54:15
2	Se 196.026†	12.8	-1.7	-2.2549 µg/L	-2.2549 ppb	05:54:15
2	SiO2†	1582.6	151.8	34.725 µg/L	34.725 ppb	05:53:55
2	Si 251.611†	585.8	192.1	16.472 µg/L	16.472 ppb	05:54:15
2	Sn 189.927†	4.6	3.5	1.7309 µg/L	1.7309 ppb	05:54:15
2	Ti 334.940†	186.6	189.1	0.5365 µg/L	0.5365 ppb	05:53:55
2	Tl 190.801†	-27.4	-0.5	-0.5948 µg/L	-0.5948 ppb	05:54:15
2	U 409.014†	61.7	-83.6	-8.6884 µg/L	-8.6884 ppb	05:53:55
2	V 292.402†	-127.1	19.4	0.2625 µg/L	0.2625 ppb	05:53:55
2	Zn 213.857†	599.6	-21.2	-0.5893 µg/L	-0.5893 ppb	05:54:15
3	Sc RADIAL	111006.1	111006.1	100 %		05:52:46
3	Al 396.153Radial†	-138.1	-67.5	-35.758 µg/L	-35.758 ppb	05:52:46
3	Ca 317.933Radial†	422.1	-69.3	-23.647 µg/L	-23.647 ppb	05:53:07
3	Fe 238.204 Radial†	32.2	-1.3	-9.1086 µg/L	-9.1086 ppb	05:53:07
3	K 766.490 Radial†	340.4	90.0	53.453 µg/L	53.453 ppb	05:52:46
3	Mg 279.077 IEC†	13.1	-0.3	-3.2033 µg/L	-3.2033 ppb	05:53:07
3	Na 589.592 Radial†	270.5	-48.8	-15.076 µg/L	-15.076 ppb	05:52:46
3	Sr 421.552†	157.5	13.2	0.0550 µg/L	0.0550 ppb	05:52:46
3	Sc 361.383	1708669.2	1708669.2	102.84 %		05:54:21
3	Y 371.029	966086.0	966086.0	103.08 %		05:54:21
3	Ag 328.068†	-558.7	-26.0	-0.2405 µg/L	-0.2405 ppb	05:54:27
3	As 188.979†	-2.8	5.0	9.5134 µg/L	9.5134 ppb	05:54:47
3	B 249.677†	167.1	-4.4	-0.2408 µg/L	-0.2408 ppb	05:54:47
3	Ba 233.527†	0.6	10.7	0.2897 µg/L	0.2897 ppb	05:54:47
3	Be 313.107†	-1644.3	69.1	0.0514 µg/L	0.0514 ppb	05:54:27
3	Cd 226.502†	-146.2	-1.6	-0.0476 µg/L	-0.0476 ppb	05:54:47
3	Co 228.616†	27.6	-0.0	-0.0015 µg/L	-0.0015 ppb	05:54:47
3	Cr 267.716†	63.9	-7.0	-0.1875 µg/L	-0.1875 ppb	05:54:27
3	Cu 324.752†	2730.6	24.9	0.1867 µg/L	0.1867 ppb	05:54:27
3	Mn 257.610†	-494.5	95.2	0.3599 µg/L	0.3599 ppb	05:54:47
3	Mo 202.031†	15.5	12.6	1.5231 µg/L	1.5231 ppb	05:54:47
3	Ni 231.604†	306.4	2.7	0.1974 µg/L	0.1974 ppb	05:54:47
3	P 214.914†	245.7	-2.3	-5.2839 µg/L	-5.2839 ppb	05:54:47
3	Pb 220.353†	29.9	-5.7	-1.8787 µg/L	-1.8787 ppb	05:54:47
3	S 181.975 Axial†	25.5	4.3	17.640 µg/L	17.640 ppb	05:54:47
3	Sb 206.836†	23.1	3.3	3.7899 µg/L	3.7899 ppb	05:54:47
3	Se 196.026†	15.7	0.9	1.0790 µg/L	1.0790 ppb	05:54:47
3	SiO2†	1641.6	191.8	43.875 µg/L	43.875 ppb	05:54:27
3	Si 251.611†	597.8	197.3	16.918 µg/L	16.918 ppb	05:54:47
3	Sn 189.927†	4.1	3.0	1.4750 µg/L	1.4750 ppb	05:54:47
3	Ti 334.940†	216.6	216.3	0.6082 µg/L	0.6082 ppb	05:54:27
3	Tl 190.801†	-26.9	0.3	0.3834 µg/L	0.3834 ppb	05:54:47
3	U 409.014†	97.5	-49.4	-5.1333 µg/L	-5.1333 ppb	05:54:27
3	V 292.402†	-107.3	40.0	0.5376 µg/L	0.5376 ppb	05:54:27
3	Zn 213.857†	595.4	-31.8	-0.8942 µg/L	-0.8942 ppb	05:54:47

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1699531.4	102.29 %	0.575			0.56%
Sc RADIAL	111497.2	101 %	0.4			0.39%
Y 371.029	959294.5	102.35 %	0.650			0.64%
Ag 328.068†	17.4	0.1630 µg/L	0.37726	0.1630 ppb	0.37726	231.44%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-55.5	-29.386 µg/L	7.8377	-29.386 ppb	7.8377	26.67%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.4	8.4585 µg/L	2.54940	8.4585 ppb	2.54940	30.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	6.3	0.3561 µg/L	0.58135	0.3561 ppb	0.58135	163.26%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	9.4	0.2540 µg/L	0.05918	0.2540 ppb	0.05918	23.30%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-22.4	-0.0169 µg/L	0.06352	-0.0169 ppb	0.06352	375.84%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-76.6	-26.145 µg/L	2.1785	-26.145 ppb	2.1785	8.33%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-1.9	-0.0553 µg/L	0.08743	-0.0553 ppb	0.08743	158.24%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.3	0.1782 µg/L	0.21039	0.1782 ppb	0.21039	118.09%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	2.9	0.0770 µg/L	0.24464	0.0770 ppb	0.24464 317.84%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	20.3	0.1515 µg/L	0.07474	0.1515 ppb	0.07474 49.32%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	-1.5	-10.597 µg/L	4.9621	-10.597 ppb	4.9621 46.83%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	27.0	16.048 µg/L	41.4163	16.048 ppb	41.4163 258.08%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-2.1	-21.001 µg/L	37.2104	-21.001 ppb	37.2104 177.19%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	101.9	0.3861 µg/L	0.04482	0.3861 ppb	0.04482 11.61%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	11.4	1.3729 µg/L	0.53613	1.3729 ppb	0.53613 39.05%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	-76.3	-23.559 µg/L	7.5496	-23.559 ppb	7.5496 32.05%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-1.2	-0.0890 µg/L	0.34727	-0.0890 ppb	0.34727 390.17%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-2.2	-5.0506 µg/L	6.35976	-5.0506 ppb	6.35976 125.92%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-5.3	-1.7508 µg/L	0.86996	-1.7508 ppb	0.86996 49.69%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	2.1	8.6733 µg/L	16.67970	8.6733 ppb	16.67970 192.31%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	2.6	2.9827 µg/L	2.51180	2.9827 ppb	2.51180 84.21%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	-0.5	-0.6454 µg/L	1.66990	-0.6454 ppb	1.66990 258.73%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	141.2	32.292 µg/L	12.9723	32.292 ppb	12.9723 40.17%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	184.1	15.791 µg/L	1.5806	15.791 ppb	1.5806 10.01%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	1.0	0.5129 µg/L	1.89241	0.5129 ppb	1.89241 368.99%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	3.2	0.0135 µg/L	0.07955	0.0135 ppb	0.07955 588.91%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	181.1	0.5108 µg/L	0.11259	0.5108 ppb	0.11259 22.04%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	-0.3	-0.4040 µg/L	0.71146	-0.4040 ppb	0.71146 176.11%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	-48.3	-5.0230 µg/L	3.72178	-5.0230 ppb	3.72178 74.09%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	16.4	0.2233 µg/L	0.33560	0.2233 ppb	0.33560 150.29%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	-25.5	-0.7153 µg/L	0.15920	-0.7153 ppb	0.15920 22.26%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 48

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 06:27:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	113469.5	113469.5	103 %		06:27:34
1	Al 396.153Radial†	10381.5	10190.0	5383.2 µg/L	5383.2 ppb	06:27:34
1	Ca 317.933Radial†	16737.4	15825.8	5402.5 µg/L	5402.5 ppb	06:27:34
1	Fe 238.204 Radial†	789.1	735.8	5105.0 µg/L	5105.0 ppb	06:27:55
1	K 766.490 Radial†	9431.8	8944.9	5313.9 µg/L	5313.9 ppb	06:27:34
1	Mg 279.077 IEC†	565.2	537.5	5318.6 µg/L	5318.6 ppb	06:27:55
1	Na 589.592 Radial†	32314.8	31182.1	9624.9 µg/L	9624.9 ppb	06:27:34
1	Sr 421.552†	120457.3	117278.1	487.78 µg/L	487.78 ppb	06:27:34
1	Sc 361.383	1717032.9	1717032.9	103.34 %		06:28:58
1	Y 371.029	969738.0	969738.0	103.47 %		06:28:58
1	Ag 328.068†	55915.4	54626.3	514.88 µg/L	514.88 ppb	06:29:04
1	As 188.979†	285.1	283.6	543.28 µg/L	543.28 ppb	06:29:25
1	B 249.677†	9739.8	9258.3	510.26 µg/L	510.26 ppb	06:29:04
1	Ba 233.527†	19929.7	19296.0	522.94 µg/L	522.94 ppb	06:29:04
1	Be 313.107†	717839.0	696317.1	519.97 µg/L	519.97 ppb	06:28:58
1	Cd 226.502†	17676.4	17245.9	522.63 µg/L	522.63 ppb	06:29:04
1	Co 228.616†	9976.2	9627.0	524.00 µg/L	524.00 ppb	06:29:04
1	Cr 267.716†	20250.3	19527.0	522.40 µg/L	522.40 ppb	06:29:04
1	Cu 324.752†	73120.6	68128.0	516.68 µg/L	516.68 ppb	06:29:04
1	Mn 257.610†	145479.1	141355.5	534.54 µg/L	534.54 ppb	06:28:58
1	Mo 202.031†	4633.2	4481.1	540.89 µg/L	540.89 ppb	06:29:25
1	Ni 231.604†	7978.2	7425.1	542.05 µg/L	542.05 ppb	06:29:04
1	P 214.914†	1460.9	1172.5	2613.2 µg/L	2613.2 ppb	06:29:25
1	Pb 220.353†	1691.3	1601.9	533.61 µg/L	533.61 ppb	06:29:25
1	S 181.975 Axial†	289.7	259.8	1077.8 µg/L	1077.8 ppb	06:29:25
1	Sb 206.836†	513.6	477.9	545.29 µg/L	545.29 ppb	06:29:25
1	Se 196.026†	445.1	416.3	551.63 µg/L	551.63 ppb	06:29:25
1	SiO2†	26797.7	24527.5	5610.9 µg/L	5610.9 ppb	06:29:04
1	Si 251.611†	31992.2	30574.6	2622.1 µg/L	2622.1 ppb	06:29:04
1	Sn 189.927†	1144.0	1106.1	544.93 µg/L	544.93 ppb	06:29:25
1	Ti 334.940†	191900.3	185706.6	522.06 µg/L	522.06 ppb	06:28:58
1	Tl 190.801†	419.3	432.2	532.76 µg/L	532.76 ppb	06:29:25
1	U 409.014†	5188.7	4876.8	506.04 µg/L	506.04 ppb	06:29:04
1	V 292.402†	40126.2	38974.3	524.04 µg/L	524.04 ppb	06:29:04
1	Zn 213.857†	19996.4	18739.6	523.22 µg/L	523.22 ppb	06:29:04
2	Sc RADIAL	114327.1	114327.1	103 %		06:28:00
2	Al 396.153Radial†	10238.5	9975.7	5269.9 µg/L	5269.9 ppb	06:28:00
2	Ca 317.933Radial†	16568.5	15540.0	5305.0 µg/L	5305.0 ppb	06:28:00
2	Fe 238.204 Radial†	773.9	715.3	4963.3 µg/L	4963.3 ppb	06:28:21
2	K 766.490 Radial†	9251.5	8701.5	5169.3 µg/L	5169.3 ppb	06:28:00
2	Mg 279.077 IEC†	549.8	518.5	5130.8 µg/L	5130.8 ppb	06:28:21
2	Na 589.592 Radial†	32039.7	30679.7	9469.8 µg/L	9469.8 ppb	06:28:00
2	Sr 421.552†	119160.5	115142.6	478.90 µg/L	478.90 ppb	06:28:00
2	Sc 361.383	1722509.7	1722509.7	103.67 %		06:29:32
2	Y 371.029	971079.0	971079.0	103.61 %		06:29:32
2	Ag 328.068†	55948.8	54486.5	513.54 µg/L	513.54 ppb	06:29:38
2	As 188.979†	279.5	277.3	531.15 µg/L	531.15 ppb	06:29:58
2	B 249.677†	9729.9	9218.8	508.15 µg/L	508.15 ppb	06:29:38
2	Ba 233.527†	19881.2	19187.9	520.01 µg/L	520.01 ppb	06:29:38
2	Be 313.107†	715557.6	691907.7	516.68 µg/L	516.68 ppb	06:29:32
2	Cd 226.502†	17676.0	17191.2	520.99 µg/L	520.99 ppb	06:29:38
2	Co 228.616†	9977.0	9597.1	522.37 µg/L	522.37 ppb	06:29:38
2	Cr 267.716†	20235.3	19450.3	520.35 µg/L	520.35 ppb	06:29:38
2	Cu 324.752†	73076.8	67860.8	514.63 µg/L	514.63 ppb	06:29:38
2	Mn 257.610†	144546.8	140008.5	529.45 µg/L	529.45 ppb	06:29:32
2	Mo 202.031†	4562.1	4398.3	530.88 µg/L	530.88 ppb	06:29:58
2	Ni 231.604†	7996.2	7418.0	541.53 µg/L	541.53 ppb	06:29:38
2	P 214.914†	1449.3	1156.8	2577.7 µg/L	2577.7 ppb	06:29:58
2	Pb 220.353†	1679.2	1585.0	527.99 µg/L	527.99 ppb	06:29:58

2	S 181.975 Axial†	298.6	267.4	1109.6 µg/L	1109.6 ppb	06:29:58
2	Sb 206.836†	501.1	464.2	529.70 µg/L	529.70 ppb	06:29:58
2	Se 196.026†	441.9	411.9	545.52 µg/L	545.52 ppb	06:29:58
2	SiO2†	26895.3	24539.1	5613.6 µg/L	5613.6 ppb	06:29:38
2	Si 251.611†	32133.2	30612.2	2625.3 µg/L	2625.3 ppb	06:29:38
2	Sn 189.927†	1120.4	1079.7	531.95 µg/L	531.95 ppb	06:29:58
2	Ti 334.940†	191109.6	184353.4	518.27 µg/L	518.27 ppb	06:29:32
2	Tl 190.801†	418.4	430.1	530.13 µg/L	530.13 ppb	06:29:58
2	U 409.014†	5164.2	4837.2	501.95 µg/L	501.95 ppb	06:29:38
2	V 292.402†	40062.9	38789.7	521.50 µg/L	521.50 ppb	06:29:38
2	Zn 213.857†	19984.1	18666.2	521.18 µg/L	521.18 ppb	06:29:38
3	Sc RADIAL	114950.1	114950.1	104 %		06:28:26
3	Al 396.153Radial†	10126.6	9814.4	5186.0 µg/L	5186.0 ppb	06:28:26
3	Ca 317.933Radial†	16410.7	15301.3	5223.5 µg/L	5223.5 ppb	06:28:26
3	Fe 238.204 Radial†	781.4	718.5	4984.2 µg/L	4984.2 ppb	06:28:47
3	K 766.490 Radial†	9193.9	8597.5	5107.5 µg/L	5107.5 ppb	06:28:26
3	Mg 279.077 IEC†	548.5	514.4	5088.9 µg/L	5088.9 ppb	06:28:47
3	Na 589.592 Radial†	31647.2	30134.0	9301.4 µg/L	9301.4 ppb	06:28:26
3	Sr 421.552†	117797.4	113206.2	470.84 µg/L	470.84 ppb	06:28:26
3	Sc 361.383	1727979.6	1727979.6	104.00 %		06:30:05
3	Y 371.029	971717.6	971717.6	103.68 %		06:30:05
3	Ag 328.068†	54143.7	52579.9	495.49 µg/L	495.49 ppb	06:30:11
3	As 188.979†	250.3	248.4	475.86 µg/L	475.86 ppb	06:30:31
3	B 249.677†	9402.2	8873.9	489.00 µg/L	489.00 ppb	06:30:11
3	Ba 233.527†	18929.6	18212.2	493.55 µg/L	493.55 ppb	06:30:11
3	Be 313.107†	685232.4	660563.1	493.28 µg/L	493.28 ppb	06:30:05
3	Cd 226.502†	16807.2	16301.8	494.00 µg/L	494.00 ppb	06:30:11
3	Co 228.616†	9425.9	9036.7	491.82 µg/L	491.82 ppb	06:30:11
3	Cr 267.716†	18658.7	17872.4	478.14 µg/L	478.14 ppb	06:30:11
3	Cu 324.752†	69015.8	63732.7	483.38 µg/L	483.38 ppb	06:30:11
3	Mn 257.610†	138757.9	134000.8	506.74 µg/L	506.74 ppb	06:30:05
3	Mo 202.031†	3958.6	3804.1	459.19 µg/L	459.19 ppb	06:30:31
3	Ni 231.604†	7538.7	6953.6	507.63 µg/L	507.63 ppb	06:30:11
3	P 214.914†	1306.1	1014.6	2257.0 µg/L	2257.0 ppb	06:30:31
3	Pb 220.353†	1511.6	1418.7	472.50 µg/L	472.50 ppb	06:30:31
3	S 181.975 Axial†	268.7	237.8	986.60 µg/L	986.60 ppb	06:30:31
3	Sb 206.836†	446.5	410.2	467.62 µg/L	467.62 ppb	06:30:31
3	Se 196.026†	395.2	365.7	485.82 µg/L	485.82 ppb	06:30:31
3	SiO2†	25882.5	23483.1	5372.0 µg/L	5372.0 ppb	06:30:11
3	Si 251.611†	30862.8	29292.6	2512.1 µg/L	2512.1 ppb	06:30:11
3	Sn 189.927†	962.2	924.1	455.35 µg/L	455.35 ppb	06:30:31
3	Ti 334.940†	182450.9	175443.9	493.21 µg/L	493.21 ppb	06:30:05
3	Tl 190.801†	386.8	398.4	491.20 µg/L	491.20 ppb	06:30:31
3	U 409.014†	4816.5	4487.2	465.56 µg/L	465.56 ppb	06:30:11
3	V 292.402†	37498.1	36201.2	486.41 µg/L	486.41 ppb	06:30:11
3	Zn 213.857†	18833.2	17498.5	488.55 µg/L	488.55 ppb	06:30:11

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1722507.4	103.67 %	0.329			0.32%
Sc RADIAL	114248.9	103 %	0.7			0.65%
Y 371.029	970844.9	103.59 %	0.108			0.10%
Ag 328.068†	53897.6	507.97 µg/L	10.831	507.97 ppb	10.831	2.13%
QC value within limits for Ag 328.068 Recovery = 101.59%						
Al 396.153Radial†	9993.4	5279.7 µg/L	98.94	5279.7 ppb	98.94	1.87%
QC value within limits for Al 396.153Radial Recovery = 105.59%						
As 188.979†	269.7	516.76 µg/L	35.939	516.76 ppb	35.939	6.95%
QC value within limits for As 188.979 Recovery = 103.35%						
B 249.677†	9117.0	502.47 µg/L	11.716	502.47 ppb	11.716	2.33%
QC value within limits for B 249.677 Recovery = 100.49%						
Ba 233.527†	18898.7	512.17 µg/L	16.187	512.17 ppb	16.187	3.16%
QC value within limits for Ba 233.527 Recovery = 102.43%						
Be 313.107†	682929.3	509.98 µg/L	14.557	509.98 ppb	14.557	2.85%
QC value within limits for Be 313.107 Recovery = 102.00%						
Ca 317.933Radial†	15555.7	5310.3 µg/L	89.65	5310.3 ppb	89.65	1.69%
QC value within limits for Ca 317.933Radial Recovery = 106.21%						
Cd 226.502†	16913.0	512.54 µg/L	16.078	512.54 ppb	16.078	3.14%
QC value within limits for Cd 226.502 Recovery = 102.51%						
Co 228.616†	9420.3	512.73 µg/L	18.127	512.73 ppb	18.127	3.54%

Cr	267.716†	18949.9	506.96 µg/L	24.983	506.96 ppb	24.983	4.93%
QC value within limits for Cr 267.716 Recovery = 101.39%							
Cu	324.752†	66573.8	504.90 µg/L	18.659	504.90 ppb	18.659	3.70%
QC value within limits for Cu 324.752 Recovery = 100.98%							
Fe	238.204 Radial†	723.2	5017.5 µg/L	76.52	5017.5 ppb	76.52	1.53%
QC value within limits for Fe 238.204 Radial Recovery = 100.35%							
K	766.490 Radial†	8748.0	5196.9 µg/L	105.91	5196.9 ppb	105.91	2.04%
QC value within limits for K 766.490 Radial Recovery = 103.94%							
Mg	279.077 IEC†	523.5	5179.4 µg/L	122.35	5179.4 ppb	122.35	2.36%
QC value within limits for Mg 279.077 IEC Recovery = 103.59%							
Mn	257.610†	138454.9	523.58 µg/L	14.805	523.58 ppb	14.805	2.83%
QC value within limits for Mn 257.610 Recovery = 104.72%							
Mo	202.031†	4227.8	510.32 µg/L	44.563	510.32 ppb	44.563	8.73%
QC value within limits for Mo 202.031 Recovery = 102.06%							
Na	589.592 Radial†	30665.3	9465.4 µg/L	161.80	9465.4 ppb	161.80	1.71%
QC value within limits for Na 589.592 Radial Recovery = 94.65%							
Ni	231.604†	7265.6	530.41 µg/L	19.725	530.41 ppb	19.725	3.72%
QC value within limits for Ni 231.604 Recovery = 106.08%							
P	214.914†	1114.6	2482.6 µg/L	196.21	2482.6 ppb	196.21	7.90%
QC value within limits for P 214.914 Recovery = 99.30%							
Pb	220.353†	1535.2	511.37 µg/L	33.779	511.37 ppb	33.779	6.61%
QC value within limits for Pb 220.353 Recovery = 102.27%							
S	181.975 Axial†	255.0	1058.0 µg/L	63.84	1058.0 ppb	63.84	6.03%
QC value within limits for S 181.975 Axial Recovery = 105.80%							
Sb	206.836†	450.8	514.20 µg/L	41.085	514.20 ppb	41.085	7.99%
QC value within limits for Sb 206.836 Recovery = 102.84%							
Se	196.026†	398.0	527.66 µg/L	36.359	527.66 ppb	36.359	6.89%
QC value within limits for Se 196.026 Recovery = 105.53%							
SiO2†		24183.3	5532.2 µg/L	138.71	5532.2 ppb	138.71	2.51%
QC value within limits for SiO2 Recovery = 103.45%							
Si	251.611†	30159.8	2586.5 µg/L	64.43	2586.5 ppb	64.43	2.49%
QC value within limits for Si 251.611 Recovery = 103.46%							
Sn	189.927†	1036.6	510.74 µg/L	48.407	510.74 ppb	48.407	9.48%
QC value within limits for Sn 189.927 Recovery = 102.15%							
Sr	421.552†	115208.9	479.17 µg/L	8.471	479.17 ppb	8.471	1.77%
QC value within limits for Sr 421.552 Recovery = 95.83%							
Ti	334.940†	181834.6	511.18 µg/L	15.679	511.18 ppb	15.679	3.07%
QC value within limits for Ti 334.940 Recovery = 102.24%							
Tl	190.801†	420.3	518.03 µg/L	23.272	518.03 ppb	23.272	4.49%
QC value within limits for Tl 190.801 Recovery = 103.61%							
U	409.014†	4733.7	491.18 µg/L	22.288	491.18 ppb	22.288	4.54%
QC value within limits for U 409.014 Recovery = 98.24%							
V	292.402†	37988.4	510.65 µg/L	21.031	510.65 ppb	21.031	4.12%
QC value within limits for V 292.402 Recovery = 102.13%							
Zn	213.857†	18301.5	510.98 µg/L	19.459	510.98 ppb	19.459	3.81%
QC value within limits for Zn 213.857 Recovery = 102.20%							

All analyte(s) passed QC.

Sequence No.: 49

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 06:30:40

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	113356.0	113356.0	102 %		06:31:13
1	Al 396.153Radial†	-164.5	-90.4	-47.878 µg/L	-47.878 ppb	06:31:13
1	Ca 317.933Radial†	420.9	-79.1	-27.006 µg/L	-27.006 ppb	06:31:34
1	Fe 238.204 Radial†	33.9	-0.3	-2.2534 µg/L	-2.2534 ppb	06:31:34
1	K 766.490 Radial†	333.8	76.5	45.458 µg/L	45.458 ppb	06:31:13
1	Mg 279.077 IEC†	13.6	-0.2	-1.6281 µg/L	-1.6281 ppb	06:31:34
1	Na 589.592 Radial†	286.6	-38.7	-11.932 µg/L	-11.932 ppb	06:31:13
1	Sr 421.552†	186.8	38.5	0.1602 µg/L	0.1602 ppb	06:31:13
1	Sc 361.383	1704646.9	1704646.9	102.59 %		06:32:35
1	Y 371.029	963856.0	963856.0	102.84 %		06:32:35
1	Ag 328.068†	-443.8	84.7	0.7942 µg/L	0.7942 ppb	06:32:41
1	As 188.979†	-2.8	4.9	9.4969 µg/L	9.4969 ppb	06:33:01
1	B 249.677†	191.2	19.5	1.0782 µg/L	1.0782 ppb	06:33:01
1	Ba 233.527†	-8.3	2.0	0.0541 µg/L	0.0541 ppb	06:33:01
1	Be 313.107†	-1756.3	-43.9	-0.0330 µg/L	-0.0330 ppb	06:32:41
1	Cd 226.502†	-129.1	14.7	0.4478 µg/L	0.4478 ppb	06:33:01
1	Co 228.616†	25.5	-2.0	-0.1083 µg/L	-0.1083 ppb	06:33:01
1	Cr 267.716†	60.2	-10.5	-0.2799 µg/L	-0.2799 ppb	06:32:41
1	Cu 324.752†	2714.3	15.2	0.1149 µg/L	0.1149 ppb	06:32:41
1	Mn 257.610†	-529.5	60.0	0.2267 µg/L	0.2267 ppb	06:33:01
1	Mo 202.031†	17.6	14.8	1.7859 µg/L	1.7859 ppb	06:33:01
1	Ni 231.604†	322.4	19.0	1.3866 µg/L	1.3866 ppb	06:33:01
1	P 214.914†	242.8	-4.6	-10.496 µg/L	-10.496 ppb	06:33:01
1	Pb 220.353†	28.1	-7.4	-2.4581 µg/L	-2.4581 ppb	06:33:01
1	S 181.975 Axial†	23.4	2.3	9.4277 µg/L	9.4277 ppb	06:33:01
1	Sb 206.836†	21.3	1.6	1.8691 µg/L	1.8691 ppb	06:33:01
1	Se 196.026†	10.1	-4.5	-5.8878 µg/L	-5.8878 ppb	06:33:01
1	SiO2†	1562.5	118.4	27.096 µg/L	27.096 ppb	06:32:41
1	Si 251.611†	523.2	125.9	10.796 µg/L	10.796 ppb	06:33:01
1	Sn 189.927†	0.6	-0.5	-0.2340 µg/L	-0.2340 ppb	06:33:01
1	Ti 334.940†	139.7	141.8	0.3987 µg/L	0.3987 ppb	06:32:41
1	Tl 190.801†	-21.5	5.5	6.7774 µg/L	6.7774 ppb	06:33:01
1	U 409.014†	191.9	42.8	4.4558 µg/L	4.4558 ppb	06:32:41
1	V 292.402†	-123.4	24.1	0.3378 µg/L	0.3378 ppb	06:32:41
1	Zn 213.857†	620.9	-5.6	-0.1626 µg/L	-0.1626 ppb	06:33:01
2	Sc RADIAL	113630.4	113630.4	103 %		06:31:39
2	Al 396.153Radial†	-161.9	-87.4	-46.304 µg/L	-46.304 ppb	06:31:39
2	Ca 317.933Radial†	414.4	-86.5	-29.519 µg/L	-29.519 ppb	06:31:59
2	Fe 238.204 Radial†	34.5	0.2	1.3181 µg/L	1.3181 ppb	06:31:59
2	K 766.490 Radial†	260.0	3.8	2.2854 µg/L	2.2854 ppb	06:31:39
2	Mg 279.077 IEC†	11.2	-2.5	-24.989 µg/L	-24.989 ppb	06:31:59
2	Na 589.592 Radial†	245.1	-79.8	-24.631 µg/L	-24.631 ppb	06:31:39
2	Sr 421.552†	192.4	43.5	0.1808 µg/L	0.1808 ppb	06:31:39
2	Sc 361.383	1711395.4	1711395.4	103.00 %		06:33:07
2	Y 371.029	964152.7	964152.7	102.87 %		06:33:07
2	Ag 328.068†	-469.6	61.4	0.5749 µg/L	0.5749 ppb	06:33:13
2	As 188.979†	2.8	10.4	19.987 µg/L	19.987 ppb	06:33:33
2	B 249.677†	186.1	13.8	0.7610 µg/L	0.7610 ppb	06:33:33
2	Ba 233.527†	-3.8	6.4	0.1734 µg/L	0.1734 ppb	06:33:33
2	Be 313.107†	-1786.2	-66.2	-0.0496 µg/L	-0.0496 ppb	06:33:13
2	Cd 226.502†	-139.4	5.3	0.1603 µg/L	0.1603 ppb	06:33:33
2	Co 228.616†	23.4	-4.1	-0.2246 µg/L	-0.2246 ppb	06:33:33
2	Cr 267.716†	46.2	-24.3	-0.6492 µg/L	-0.6492 ppb	06:33:13
2	Cu 324.752†	2743.6	33.3	0.2522 µg/L	0.2522 ppb	06:33:13
2	Mn 257.610†	-515.7	75.4	0.2868 µg/L	0.2868 ppb	06:33:33
2	Mo 202.031†	14.5	11.7	1.4126 µg/L	1.4126 ppb	06:33:33
2	Ni 231.604†	309.9	5.6	0.4104 µg/L	0.4104 ppb	06:33:33
2	P 214.914†	233.9	-14.2	-32.257 µg/L	-32.257 ppb	06:33:33
2	Pb 220.353†	39.5	3.6	1.2012 µg/L	1.2012 ppb	06:33:33

2	S 181.975 Axial†	21.3	0.1	0.4355 µg/L	0.4355 ppb	06:33:33
2	Sb 206.836†	21.9	2.1	2.4631 µg/L	2.4631 ppb	06:33:33
2	Se 196.026†	14.1	-0.7	-0.8254 µg/L	-0.8254 ppb	06:33:33
2	SiO2†	1590.5	139.6	31.942 µg/L	31.942 ppb	06:33:13
2	Si 251.611†	527.1	127.7	10.955 µg/L	10.955 ppb	06:33:33
2	Sn 189.927†	-1.0	-2.0	-0.9858 µg/L	-0.9858 ppb	06:33:33
2	Ti 334.940†	165.1	165.9	0.4681 µg/L	0.4681 ppb	06:33:13
2	Tl 190.801†	-21.1	6.0	7.3121 µg/L	7.3121 ppb	06:33:33
2	U 409.014†	111.4	-36.1	-3.7529 µg/L	-3.7529 ppb	06:33:13
2	V 292.402†	-138.2	10.2	0.1408 µg/L	0.1408 ppb	06:33:13
2	Zn 213.857†	619.3	-9.5	-0.2681 µg/L	-0.2681 ppb	06:33:33
3	Sc RADIAL	113730.2	113730.2	103 %		06:32:05
3	Al 396.153Radial†	-123.3	-49.8	-26.377 µg/L	-26.377 ppb	06:32:05
3	Ca 317.933Radial†	409.4	-91.7	-31.289 µg/L	-31.289 ppb	06:32:25
3	Fe 238.204 Radial†	30.7	-3.5	-24.467 µg/L	-24.467 ppb	06:32:25
3	K 766.490 Radial†	356.9	97.9	58.153 µg/L	58.153 ppb	06:32:05
3	Mg 279.077 IEC†	12.0	-1.7	-17.039 µg/L	-17.039 ppb	06:32:25
3	Na 589.592 Radial†	227.5	-97.1	-29.972 µg/L	-29.972 ppb	06:32:05
3	Sr 421.552†	197.8	48.6	0.2020 µg/L	0.2020 ppb	06:32:05
3	Sc 361.383	1707245.2	1707245.2	102.75 %		06:33:39
3	Y 371.029	968542.0	968542.0	103.34 %		06:33:39
3	Ag 328.068†	-494.4	36.1	0.3365 µg/L	0.3365 ppb	06:33:45
3	As 188.979†	-3.5	4.3	8.1827 µg/L	8.1827 ppb	06:34:05
3	B 249.677†	185.2	13.3	0.7506 µg/L	0.7506 ppb	06:34:05
3	Ba 233.527†	-5.1	5.1	0.1388 µg/L	0.1388 ppb	06:34:05
3	Be 313.107†	-1793.0	-77.0	-0.0577 µg/L	-0.0577 ppb	06:33:45
3	Cd 226.502†	-151.4	-6.7	-0.2004 µg/L	-0.2004 ppb	06:34:05
3	Co 228.616†	34.3	6.5	0.3546 µg/L	0.3546 ppb	06:34:05
3	Cr 267.716†	68.3	-2.7	-0.0714 µg/L	-0.0714 ppb	06:33:45
3	Cu 324.752†	2746.7	42.8	0.3192 µg/L	0.3192 ppb	06:33:45
3	Mn 257.610†	-532.2	58.1	0.2196 µg/L	0.2196 ppb	06:34:05
3	Mo 202.031†	13.4	10.6	1.2836 µg/L	1.2836 ppb	06:34:05
3	Ni 231.604†	307.8	4.3	0.3117 µg/L	0.3117 ppb	06:34:05
3	P 214.914†	244.2	-3.6	-8.1456 µg/L	-8.1456 ppb	06:34:05
3	Pb 220.353†	38.0	2.2	0.7430 µg/L	0.7430 ppb	06:34:05
3	S 181.975 Axial†	16.6	-4.4	-18.171 µg/L	-18.171 ppb	06:34:05
3	Sb 206.836†	25.6	5.7	6.4943 µg/L	6.4943 ppb	06:34:05
3	Se 196.026†	22.5	7.6	9.7335 µg/L	9.7335 ppb	06:34:05
3	SiO2†	1572.8	126.1	28.857 µg/L	28.857 ppb	06:33:45
3	Si 251.611†	536.4	138.0	11.836 µg/L	11.836 ppb	06:34:05
3	Sn 189.927†	6.5	5.3	2.6120 µg/L	2.6120 ppb	06:34:05
3	Ti 334.940†	184.1	184.8	0.5208 µg/L	0.5208 ppb	06:33:45
3	Tl 190.801†	-26.6	0.6	0.7703 µg/L	0.7703 ppb	06:34:05
3	U 409.014†	212.9	62.9	6.5487 µg/L	6.5487 ppb	06:33:45
3	V 292.402†	-123.1	24.5	0.3415 µg/L	0.3415 ppb	06:33:45
3	Zn 213.857†	621.3	-6.1	-0.1724 µg/L	-0.1724 ppb	06:34:05

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1707762.5	102.78 %	0.205			0.20%
Sc RADIAL	113572.2	103 %	0.2			0.17%
Y 371.029	965516.9	103.02 %	0.280			0.27%
Ag 328.068†	60.7	0.5685 µg/L	0.22893	0.5685 ppb	0.22893	40.27%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-75.9	-40.186 µg/L	11.9849	-40.186 ppb	11.9849	29.82%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	6.5	12.556 µg/L	6.4695	12.556 ppb	6.4695	51.53%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	15.5	0.8633 µg/L	0.18618	0.8633 ppb	0.18618	21.57%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.5	0.1221 µg/L	0.06139	0.1221 ppb	0.06139	50.28%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-62.4	-0.0468 µg/L	0.01262	-0.0468 ppb	0.01262	27.00%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-85.7	-29.271 µg/L	2.1522	-29.271 ppb	2.1522	7.35%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	4.4	0.1359 µg/L	0.32480	0.1359 ppb	0.32480	238.96%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.1	0.0072 µg/L	0.30641	0.0072 ppb	0.30641	>999.9%

Cr	267.716†	-12.5	-0.3335 µg/L	0.29260	-0.3335 ppb	0.29260	87.73%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	30.4	0.2288 µg/L	0.10414	0.2288 ppb	0.10414	45.52%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-1.2	-8.4674 µg/L	13.97059	-8.4674 ppb	13.97059	164.99%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	59.4	35.299 µg/L	29.2865	35.299 ppb	29.2865	82.97%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-1.5	-14.552 µg/L	11.8776	-14.552 ppb	11.8776	81.62%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	64.5	0.2444 µg/L	0.03694	0.2444 ppb	0.03694	15.11%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	12.4	1.4941 µg/L	0.26083	1.4941 ppb	0.26083	17.46%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-71.9	-22.178 µg/L	9.2668	-22.178 ppb	9.2668	41.78%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	9.6	0.7029 µg/L	0.59416	0.7029 ppb	0.59416	84.53%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-7.5	-16.967 µg/L	13.2943	-16.967 ppb	13.2943	78.36%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-0.5	-0.1713 µg/L	1.99365	-0.1713 ppb	1.99365	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.7	-2.7692 µg/L	14.07552	-2.7692 ppb	14.07552	508.30%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	3.2	3.6089 µg/L	2.51648	3.6089 ppb	2.51648	69.73%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.8	1.0068 µg/L	7.97020	1.0068 ppb	7.97020	791.67%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		128.1	29.298 µg/L	2.4530	29.298 ppb	2.4530	8.37%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	130.5	11.196 µg/L	0.5604	11.196 ppb	0.5604	5.01%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	0.9	0.4641 µg/L	1.89778	0.4641 ppb	1.89778	408.95%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	43.5	0.1810 µg/L	0.02090	0.1810 ppb	0.02090	11.54%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	164.2	0.4625 µg/L	0.06125	0.4625 ppb	0.06125	13.24%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	4.0	4.9533 µg/L	3.63240	4.9533 ppb	3.63240	73.33%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	23.2	2.4172 µg/L	5.44496	2.4172 ppb	5.44496	225.26%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	19.6	0.2734 µg/L	0.11485	0.2734 ppb	0.11485	42.01%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-7.1	-0.2010 µg/L	0.05828	-0.2010 ppb	0.05828	29.00%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 07:08:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	112642.1	112642.1	102 %		07:09:37
1	Al 396.153Radial†	10209.6	10095.6	5332.9 µg/L	5332.9 ppb	07:09:37
1	Ca 317.933Radial†	16573.8	15785.0	5388.6 µg/L	5388.6 ppb	07:09:37
1	Fe 238.204 Radial†	777.8	730.4	5067.9 µg/L	5067.9 ppb	07:09:57
1	K 766.490 Radial†	9267.1	8850.8	5258.0 µg/L	5258.0 ppb	07:09:37
1	Mg 279.077 IEC†	559.0	535.5	5298.5 µg/L	5298.5 ppb	07:09:57
1	Na 589.592 Radial†	31923.5	31029.2	9577.7 µg/L	9577.7 ppb	07:09:37
1	Sr 421.552†	118979.2	116689.1	485.33 µg/L	485.33 ppb	07:09:37
1	Sc 361.383	1690408.6	1690408.6	101.74 %		07:11:01
1	Y 371.029	955086.9	955086.9	101.90 %		07:11:01
1	Ag 328.068†	56242.9	55800.5	525.93 µg/L	525.93 ppb	07:11:07
1	As 188.979†	282.0	284.8	545.62 µg/L	545.62 ppb	07:11:27
1	B 249.677†	9810.7	9476.4	522.37 µg/L	522.37 ppb	07:11:07
1	Ba 233.527†	20059.7	19727.5	534.64 µg/L	534.64 ppb	07:11:07
1	Be 313.107†	723793.6	713111.0	532.52 µg/L	532.52 ppb	07:11:01
1	Cd 226.502†	17913.6	17748.5	537.89 µg/L	537.89 ppb	07:11:07
1	Co 228.616†	10102.9	9903.7	539.07 µg/L	539.07 ppb	07:11:07
1	Cr 267.716†	20490.8	20072.0	536.98 µg/L	536.98 ppb	07:11:07
1	Cu 324.752†	73487.8	69603.4	527.84 µg/L	527.84 ppb	07:11:07
1	Mn 257.610†	145618.9	143710.2	543.45 µg/L	543.45 ppb	07:11:01
1	Mo 202.031†	4672.0	4589.9	554.01 µg/L	554.01 ppb	07:11:27
1	Ni 231.604†	8101.0	7667.5	559.75 µg/L	559.75 ppb	07:11:07
1	P 214.914†	1475.7	1209.3	2695.9 µg/L	2695.9 ppb	07:11:27
1	Pb 220.353†	1721.0	1656.8	551.94 µg/L	551.94 ppb	07:11:27
1	S 181.975 Axial†	297.7	272.0	1128.6 µg/L	1128.6 ppb	07:11:27
1	Sb 206.836†	510.6	482.7	550.86 µg/L	550.86 ppb	07:11:27
1	Se 196.026†	457.9	435.7	576.61 µg/L	576.61 ppb	07:11:27
1	SiO2†	26714.2	24853.8	5685.6 µg/L	5685.6 ppb	07:11:07
1	Si 251.611†	31839.4	30912.1	2651.0 µg/L	2651.0 ppb	07:11:07
1	Sn 189.927†	1165.4	1144.5	563.86 µg/L	563.86 ppb	07:11:27
1	Ti 334.940†	192159.5	188886.2	531.01 µg/L	531.01 ppb	07:11:01
1	Tl 190.801†	428.9	448.1	552.22 µg/L	552.22 ppb	07:11:27
1	U 409.014†	5144.1	4912.1	509.72 µg/L	509.72 ppb	07:11:07
1	V 292.402†	40392.5	39847.6	535.78 µg/L	535.78 ppb	07:11:07
1	Zn 213.857†	20208.8	19253.2	537.57 µg/L	537.57 ppb	07:11:07
2	Sc RADIAL	111977.7	111977.7	101 %		07:10:03
2	Al 396.153Radial†	10104.5	10051.2	5309.6 µg/L	5309.6 ppb	07:10:03
2	Ca 317.933Radial†	16468.0	15777.1	5385.9 µg/L	5385.9 ppb	07:10:03
2	Fe 238.204 Radial†	776.2	733.3	5088.2 µg/L	5088.2 ppb	07:10:23
2	K 766.490 Radial†	9227.9	8866.0	5267.0 µg/L	5267.0 ppb	07:10:03
2	Mg 279.077 IEC†	555.6	535.4	5298.0 µg/L	5298.0 ppb	07:10:23
2	Na 589.592 Radial†	31737.6	31031.7	9578.4 µg/L	9578.4 ppb	07:10:03
2	Sr 421.552†	118221.3	116633.7	485.10 µg/L	485.10 ppb	07:10:03
2	Sc 361.383	1700038.4	1700038.4	102.32 %		07:11:34
2	Y 371.029	955913.6	955913.6	101.99 %		07:11:34
2	Ag 328.068†	56668.9	55903.7	526.92 µg/L	526.92 ppb	07:11:40
2	As 188.979†	285.9	287.0	549.88 µg/L	549.88 ppb	07:12:00
2	B 249.677†	9921.8	9530.4	525.35 µg/L	525.35 ppb	07:11:40
2	Ba 233.527†	20317.3	19867.6	538.43 µg/L	538.43 ppb	07:11:40
2	Be 313.107†	727123.5	712335.6	531.94 µg/L	531.94 ppb	07:11:34
2	Cd 226.502†	18108.6	17839.4	540.64 µg/L	540.64 ppb	07:11:40
2	Co 228.616†	10187.5	9930.0	540.50 µg/L	540.50 ppb	07:11:40
2	Cr 267.716†	20732.0	20193.7	540.23 µg/L	540.23 ppb	07:11:40
2	Cu 324.752†	74151.1	69842.5	529.65 µg/L	529.65 ppb	07:11:40
2	Mn 257.610†	146499.3	143759.9	543.64 µg/L	543.64 ppb	07:11:34
2	Mo 202.031†	4645.9	4538.3	547.79 µg/L	547.79 ppb	07:12:00
2	Ni 231.604†	8166.0	7685.9	561.09 µg/L	561.09 ppb	07:11:40
2	P 214.914†	1465.9	1191.4	2655.1 µg/L	2655.1 ppb	07:12:00
2	Pb 220.353†	1719.3	1645.6	548.14 µg/L	548.14 ppb	07:12:00

2	S 181.975 Axial†	296.6	269.3	1117.2 µg/L	1117.2 ppb	07:12:00
2	Sb 206.836†	511.0	480.3	547.96 µg/L	547.96 ppb	07:12:00
2	Se 196.026†	444.5	420.0	556.38 µg/L	556.38 ppb	07:12:00
2	SiO2†	26928.1	24914.1	5699.4 µg/L	5699.4 ppb	07:11:40
2	Si 251.611†	32245.9	31132.0	2669.9 µg/L	2669.9 ppb	07:11:40
2	Sn 189.927†	1160.6	1133.3	558.34 µg/L	558.34 ppb	07:12:00
2	Ti 334.940†	193091.2	188726.9	530.56 µg/L	530.56 ppb	07:11:34
2	Tl 190.801†	422.1	439.1	541.18 µg/L	541.18 ppb	07:12:00
2	U 409.014†	5260.0	4996.8	518.52 µg/L	518.52 ppb	07:11:40
2	V 292.402†	40822.8	40043.2	538.35 µg/L	538.35 ppb	07:11:40
2	Zn 213.857†	20393.2	19320.9	539.47 µg/L	539.47 ppb	07:11:40
3	Sc RADIAL	112980.7	112980.7	102 %		07:10:29
3	Al 396.153Radial†	10105.6	9963.7	5264.8 µg/L	5264.8 ppb	07:10:29
3	Ca 317.933Radial†	16553.6	15716.5	5365.2 µg/L	5365.2 ppb	07:10:29
3	Fe 238.204 Radial†	776.3	726.6	5041.0 µg/L	5041.0 ppb	07:10:49
3	K 766.490 Radial†	9311.8	8867.2	5267.7 µg/L	5267.7 ppb	07:10:29
3	Mg 279.077 IEC†	556.4	531.3	5255.8 µg/L	5255.8 ppb	07:10:49
3	Na 589.592 Radial†	31740.3	30756.0	9493.3 µg/L	9493.3 ppb	07:10:29
3	Sr 421.552†	118137.0	115514.4	480.44 µg/L	480.44 ppb	07:10:29
3	Sc 361.383	1703429.9	1703429.9	102.52 %		07:12:07
3	Y 371.029	956971.5	956971.5	102.11 %		07:12:07
3	Ag 328.068†	53907.7	53100.1	500.39 µg/L	500.39 ppb	07:12:13
3	As 188.979†	249.8	251.4	481.57 µg/L	481.57 ppb	07:12:34
3	B 249.677†	9402.4	9004.5	496.20 µg/L	496.20 ppb	07:12:13
3	Ba 233.527†	18928.2	18473.1	500.62 µg/L	500.62 ppb	07:12:13
3	Be 313.107†	690170.7	674876.1	503.97 µg/L	503.97 ppb	07:12:07
3	Cd 226.502†	16793.9	16521.8	500.67 µg/L	500.67 ppb	07:12:13
3	Co 228.616†	9417.9	9159.6	498.51 µg/L	498.51 ppb	07:12:13
3	Cr 267.716†	18648.2	18120.8	484.78 µg/L	484.78 ppb	07:12:13
3	Cu 324.752†	68755.7	64435.4	488.71 µg/L	488.71 ppb	07:12:13
3	Mn 257.610†	139320.3	136472.3	516.08 µg/L	516.08 ppb	07:12:07
3	Mo 202.031†	3979.3	3879.1	468.24 µg/L	468.24 ppb	07:12:34
3	Ni 231.604†	7556.2	7075.2	516.51 µg/L	516.51 ppb	07:12:13
3	P 214.914†	1320.0	1046.2	2328.4 µg/L	2328.4 ppb	07:12:34
3	Pb 220.353†	1536.7	1464.2	487.64 µg/L	487.64 ppb	07:12:34
3	S 181.975 Axial†	270.0	242.8	1007.5 µg/L	1007.5 ppb	07:12:34
3	Sb 206.836†	446.8	416.7	475.08 µg/L	475.08 ppb	07:12:34
3	Se 196.026†	400.0	375.8	498.94 µg/L	498.94 ppb	07:12:34
3	SiO2†	25497.8	23466.6	5368.2 µg/L	5368.2 ppb	07:12:13
3	Si 251.611†	30320.0	29190.7	2503.4 µg/L	2503.4 ppb	07:12:13
3	Sn 189.927†	968.0	943.2	464.75 µg/L	464.75 ppb	07:12:34
3	Ti 334.940†	182538.3	178057.6	500.55 µg/L	500.55 ppb	07:12:07
3	Tl 190.801†	388.7	405.7	500.14 µg/L	500.14 ppb	07:12:34
3	U 409.014†	4765.6	4504.3	467.32 µg/L	467.32 ppb	07:12:13
3	V 292.402†	37373.7	36599.4	491.79 µg/L	491.79 ppb	07:12:13
3	Zn 213.857†	18914.9	17839.2	498.07 µg/L	498.07 ppb	07:12:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1697959.0	102.19 %	0.407			0.40%
Sc RADIAL	112533.5	102 %	0.5			0.45%
Y 371.029	955990.7	102.00 %	0.101			0.10%
Ag 328.068†	54934.8	517.75 µg/L	15.038	517.75 ppb	15.038	2.90%
QC value within limits for Ag 328.068 Recovery = 103.55%						
Al 396.153Radial†	10036.8	5302.4 µg/L	34.59	5302.4 ppb	34.59	0.65%
QC value within limits for Al 396.153Radial Recovery = 106.05%						
As 188.979†	274.4	525.69 µg/L	38.270	525.69 ppb	38.270	7.28%
QC value within limits for As 188.979 Recovery = 105.14%						
B 249.677†	9337.1	514.64 µg/L	16.041	514.64 ppb	16.041	3.12%
QC value within limits for B 249.677 Recovery = 102.93%						
Ba 233.527†	19356.1	524.56 µg/L	20.819	524.56 ppb	20.819	3.97%
QC value within limits for Ba 233.527 Recovery = 104.91%						
Be 313.107†	700107.6	522.81 µg/L	16.319	522.81 ppb	16.319	3.12%
QC value within limits for Be 313.107 Recovery = 104.56%						
Ca 317.933Radial†	15759.5	5379.9 µg/L	12.80	5379.9 ppb	12.80	0.24%
QC value within limits for Ca 317.933Radial Recovery = 107.60%						
Cd 226.502†	17369.9	526.40 µg/L	22.325	526.40 ppb	22.325	4.24%
QC value within limits for Cd 226.502 Recovery = 105.28%						
Co 228.616†	9664.4	526.02 µg/L	23.842	526.02 ppb	23.842	4.53%

Cr	267.716†	19462.1	520.67 µg/L	31.117	520.67 ppb	31.117	5.98%
Cu	324.752†	67960.4	515.40 µg/L	23.131	515.40 ppb	23.131	4.49%
Fe	238.204 Radial†	730.1	5065.7 µg/L	23.67	5065.7 ppb	23.67	0.47%
K	766.490 Radial†	8861.3	5264.2 µg/L	5.44	5264.2 ppb	5.44	0.10%
Mg	279.077 IEC†	534.1	5284.1 µg/L	24.55	5284.1 ppb	24.55	0.46%
Mn	257.610†	141314.1	534.39 µg/L	15.858	534.39 ppb	15.858	2.97%
Mo	202.031†	4335.8	523.35 µg/L	47.825	523.35 ppb	47.825	9.14%
Na	589.592 Radial†	30939.0	9549.8 µg/L	48.92	9549.8 ppb	48.92	0.51%
Ni	231.604†	7476.2	545.78 µg/L	25.361	545.78 ppb	25.361	4.65%
P	214.914†	1149.0	2559.8 µg/L	201.44	2559.8 ppb	201.44	7.87%
Pb	220.353†	1588.9	529.24 µg/L	36.075	529.24 ppb	36.075	6.82%
S	181.975 Axial†	261.4	1084.4 µg/L	66.89	1084.4 ppb	66.89	6.17%
Sb	206.836†	459.9	524.63 µg/L	42.941	524.63 ppb	42.941	8.18%
Se	196.026†	410.5	543.98 µg/L	40.294	543.98 ppb	40.294	7.41%
SiO2†		24411.5	5584.4 µg/L	187.32	5584.4 ppb	187.32	3.35%
Si	251.611†	30411.6	2608.1 µg/L	91.17	2608.1 ppb	91.17	3.50%
Sn	189.927†	1073.7	528.98 µg/L	55.695	528.98 ppb	55.695	10.53%
Sr	421.552†	116279.1	483.62 µg/L	2.757	483.62 ppb	2.757	0.57%
Ti	334.940†	185223.5	520.71 µg/L	17.457	520.71 ppb	17.457	3.35%
Tl	190.801†	431.0	531.18 µg/L	27.442	531.18 ppb	27.442	5.17%
U	409.014†	4804.4	498.52 µg/L	27.376	498.52 ppb	27.376	5.49%
V	292.402†	38830.1	521.97 µg/L	26.173	521.97 ppb	26.173	5.01%
Zn	213.857†	18804.4	525.03 µg/L	23.375	525.03 ppb	23.375	4.45%

QC value within limits for Co 228.616 Recovery = 105.20%

QC value within limits for Cr 267.716 Recovery = 104.13%

QC value within limits for Cu 324.752 Recovery = 103.08%

QC value within limits for Fe 238.204 Radial Recovery = 101.31%

QC value within limits for K 766.490 Radial Recovery = 105.28%

QC value within limits for Mg 279.077 IEC Recovery = 105.68%

QC value within limits for Mn 257.610 Recovery = 106.88%

QC value within limits for Mo 202.031 Recovery = 104.67%

QC value within limits for Na 589.592 Radial Recovery = 95.50%

QC value within limits for Ni 231.604 Recovery = 109.16%

QC value within limits for P 214.914 Recovery = 102.39%

QC value within limits for Pb 220.353 Recovery = 105.85%

QC value within limits for S 181.975 Axial Recovery = 108.44%

QC value within limits for Sb 206.836 Recovery = 104.93%

QC value within limits for Se 196.026 Recovery = 108.80%

QC value within limits for SiO2 Recovery = 104.43%

QC value within limits for Si 251.611 Recovery = 104.32%

QC value within limits for Sn 189.927 Recovery = 105.80%

QC value within limits for Sr 421.552 Recovery = 96.72%

QC value within limits for Ti 334.940 Recovery = 104.14%

QC value within limits for Tl 190.801 Recovery = 106.24%

QC value within limits for U 409.014 Recovery = 99.70%

QC value within limits for V 292.402 Recovery = 104.39%

QC value within limits for Zn 213.857 Recovery = 105.01%

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 07:12:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	111384.2	111384.2	101 %		07:13:16
1	Al 396.153Radial†	-134.1	-63.0	-33.370 µg/L	-33.370 ppb	07:13:16
1	Ca 317.933Radial†	403.2	-89.4	-30.526 µg/L	-30.526 ppb	07:13:37
1	Fe 238.204 Radial†	32.2	-1.5	-10.209 µg/L	-10.209 ppb	07:13:37
1	K 766.490 Radial†	330.7	79.2	47.046 µg/L	47.046 ppb	07:13:16
1	Mg 279.077 IEC†	9.4	-4.1	-40.063 µg/L	-40.063 ppb	07:13:37
1	Na 589.592 Radial†	292.0	-28.4	-8.7711 µg/L	-8.7711 ppb	07:13:16
1	Sr 421.552†	157.4	12.5	0.0521 µg/L	0.0521 ppb	07:13:16
1	Sc 361.383	1703714.6	1703714.6	102.54 %		07:14:38
1	Y 371.029	963767.6	963767.6	102.83 %		07:14:38
1	Ag 328.068†	-528.4	2.0	0.0154 µg/L	0.0154 ppb	07:14:44
1	As 188.979†	-6.6	1.2	2.2873 µg/L	2.2873 ppb	07:15:04
1	B 249.677†	184.9	13.4	0.7468 µg/L	0.7468 ppb	07:15:04
1	Ba 233.527†	-9.6	0.7	0.0185 µg/L	0.0185 ppb	07:15:04
1	Be 313.107†	-1744.3	-33.1	-0.0249 µg/L	-0.0249 ppb	07:14:44
1	Cd 226.502†	-130.4	13.5	0.4089 µg/L	0.4089 ppb	07:15:04
1	Co 228.616†	26.1	-1.5	-0.0794 µg/L	-0.0794 ppb	07:15:04
1	Cr 267.716†	41.2	-28.9	-0.7740 µg/L	-0.7740 ppb	07:14:44
1	Cu 324.752†	2801.2	101.5	0.7661 µg/L	0.7661 ppb	07:14:44
1	Mn 257.610†	-574.9	15.4	0.0603 µg/L	0.0603 ppb	07:15:04
1	Mo 202.031†	14.0	11.2	1.3559 µg/L	1.3559 ppb	07:15:04
1	Ni 231.604†	295.6	-7.0	-0.5104 µg/L	-0.5104 ppb	07:15:04
1	P 214.914†	242.7	-4.6	-10.509 µg/L	-10.509 ppb	07:15:04
1	Pb 220.353†	36.4	0.7	0.2274 µg/L	0.2274 ppb	07:15:04
1	S 181.975 Axial†	22.9	1.8	7.4138 µg/L	7.4138 ppb	07:15:04
1	Sb 206.836†	24.1	4.3	4.9390 µg/L	4.9390 ppb	07:15:04
1	Se 196.026†	12.2	-2.5	-3.1855 µg/L	-3.1855 ppb	07:15:04
1	SiO2†	1479.9	38.7	8.8561 µg/L	8.8561 ppb	07:14:44
1	Si 251.611†	414.4	20.1	1.7258 µg/L	1.7258 ppb	07:15:04
1	Sn 189.927†	2.6	1.5	0.7148 µg/L	0.7148 ppb	07:15:04
1	Ti 334.940†	83.5	87.1	0.2476 µg/L	0.2476 ppb	07:14:44
1	Tl 190.801†	-24.6	2.5	3.1186 µg/L	3.1186 ppb	07:15:04
1	U 409.014†	154.4	6.4	0.6646 µg/L	0.6646 ppb	07:14:44
1	V 292.402†	-166.7	-18.2	-0.2329 µg/L	-0.2329 ppb	07:14:44
1	Zn 213.857†	619.2	-6.9	-0.1907 µg/L	-0.1907 ppb	07:15:04
2	Sc RADIAL	111252.1	111252.1	101 %		07:13:42
2	Al 396.153Radial†	-127.6	-56.7	-30.028 µg/L	-30.028 ppb	07:13:42
2	Ca 317.933Radial†	406.5	-85.6	-29.229 µg/L	-29.229 ppb	07:14:02
2	Fe 238.204 Radial†	31.9	-1.7	-11.777 µg/L	-11.777 ppb	07:14:02
2	K 766.490 Radial†	224.5	-26.0	-15.465 µg/L	-15.465 ppb	07:13:42
2	Mg 279.077 IEC†	8.3	-5.2	-50.974 µg/L	-50.974 ppb	07:14:02
2	Na 589.592 Radial†	232.4	-87.3	-26.949 µg/L	-26.949 ppb	07:13:42
2	Sr 421.552†	149.7	5.1	0.0210 µg/L	0.0210 ppb	07:13:42
2	Sc 361.383	1692048.6	1692048.6	101.83 %		07:15:10
2	Y 371.029	956520.0	956520.0	102.06 %		07:15:10
2	Ag 328.068†	-446.3	79.1	0.7362 µg/L	0.7362 ppb	07:15:16
2	As 188.979†	-6.3	1.5	2.8155 µg/L	2.8155 ppb	07:15:37
2	B 249.677†	181.3	11.1	0.6199 µg/L	0.6199 ppb	07:15:37
2	Ba 233.527†	-0.9	9.3	0.2500 µg/L	0.2500 ppb	07:15:37
2	Be 313.107†	-1782.0	-81.9	-0.0613 µg/L	-0.0613 ppb	07:15:16
2	Cd 226.502†	-141.1	2.1	0.0632 µg/L	0.0632 ppb	07:15:37
2	Co 228.616†	27.3	-0.1	-0.0061 µg/L	-0.0061 ppb	07:15:37
2	Cr 267.716†	46.1	-23.9	-0.6383 µg/L	-0.6383 ppb	07:15:16
2	Cu 324.752†	2759.4	79.3	0.5978 µg/L	0.5978 ppb	07:15:16
2	Mn 257.610†	-561.7	24.5	0.0953 µg/L	0.0953 ppb	07:15:37
2	Mo 202.031†	10.8	8.2	0.9903 µg/L	0.9903 ppb	07:15:37
2	Ni 231.604†	296.7	-4.0	-0.2903 µg/L	-0.2903 ppb	07:15:37
2	P 214.914†	229.9	-15.5	-35.326 µg/L	-35.326 ppb	07:15:37
2	Pb 220.353†	41.4	5.9	1.9555 µg/L	1.9555 ppb	07:15:37

2	S 181.975 Axial†	24.1	3.1	12.810 µg/L	12.810 ppb	07:15:37
2	Sb 206.836†	20.7	1.2	1.3797 µg/L	1.3797 ppb	07:15:37
2	Se 196.026†	18.8	4.1	5.2857 µg/L	5.2857 ppb	07:15:37
2	SiO2†	1457.3	26.5	6.0602 µg/L	6.0602 ppb	07:15:16
2	Si 251.611†	430.5	38.7	3.3188 µg/L	3.3188 ppb	07:15:37
2	Sn 189.927†	0.9	-0.2	-0.0916 µg/L	-0.0916 ppb	07:15:37
2	Ti 334.940†	95.1	99.0	0.2820 µg/L	0.2820 ppb	07:15:16
2	Tl 190.801†	-28.3	-1.3	-1.5365 µg/L	-1.5365 ppb	07:15:37
2	U 409.014†	114.5	-31.8	-3.3011 µg/L	-3.3011 ppb	07:15:16
2	V 292.402†	-167.3	-20.0	-0.2634 µg/L	-0.2634 ppb	07:15:16
2	Zn 213.857†	610.3	-11.5	-0.3199 µg/L	-0.3199 ppb	07:15:37
3	Sc RADIAL	111529.7	111529.7	101 %		07:14:08
3	Al 396.153Radial†	-153.9	-82.5	-43.704 µg/L	-43.704 ppb	07:14:08
3	Ca 317.933Radial†	411.8	-81.4	-27.795 µg/L	-27.795 ppb	07:14:28
3	Fe 238.204 Radial†	32.0	-1.6	-11.378 µg/L	-11.378 ppb	07:14:28
3	K 766.490 Radial†	313.5	61.7	36.673 µg/L	36.673 ppb	07:14:08
3	Mg 279.077 IEC†	6.6	-6.8	-67.298 µg/L	-67.298 ppb	07:14:28
3	Na 589.592 Radial†	260.1	-60.4	-18.655 µg/L	-18.655 ppb	07:14:08
3	Sr 421.552†	133.7	-11.2	-0.0465 µg/L	-0.0465 ppb	07:14:08
3	Sc 361.383	1704338.5	1704338.5	102.57 %		07:15:43
3	Y 371.029	965131.1	965131.1	102.98 %		07:15:43
3	Ag 328.068†	-491.4	38.2	0.3576 µg/L	0.3576 ppb	07:15:48
3	As 188.979†	-3.6	4.2	8.0156 µg/L	8.0156 ppb	07:16:09
3	B 249.677†	175.3	4.0	0.2300 µg/L	0.2300 ppb	07:16:09
3	Ba 233.527†	-13.6	-3.2	-0.0848 µg/L	-0.0848 ppb	07:16:09
3	Be 313.107†	-1681.8	28.4	0.0211 µg/L	0.0211 ppb	07:15:48
3	Cd 226.502†	-145.9	-1.6	-0.0471 µg/L	-0.0471 ppb	07:16:09
3	Co 228.616†	23.1	-4.4	-0.2366 µg/L	-0.2366 ppb	07:16:09
3	Cr 267.716†	72.6	1.6	0.0437 µg/L	0.0437 ppb	07:15:48
3	Cu 324.752†	2779.9	79.7	0.6012 µg/L	0.6012 ppb	07:15:48
3	Mn 257.610†	-569.1	21.3	0.0844 µg/L	0.0844 ppb	07:16:09
3	Mo 202.031†	14.1	11.3	1.3659 µg/L	1.3659 ppb	07:16:09
3	Ni 231.604†	307.7	4.7	0.3428 µg/L	0.3428 ppb	07:16:09
3	P 214.914†	237.7	-9.6	-21.778 µg/L	-21.778 ppb	07:16:09
3	Pb 220.353†	38.9	3.1	1.0524 µg/L	1.0524 ppb	07:16:09
3	S 181.975 Axial†	19.7	-1.3	-5.5272 µg/L	-5.5272 ppb	07:16:09
3	Sb 206.836†	20.2	0.6	0.6590 µg/L	0.6590 ppb	07:16:09
3	Se 196.026†	12.4	-2.3	-2.9821 µg/L	-2.9821 ppb	07:16:09
3	SiO2†	1496.9	54.8	12.535 µg/L	12.535 ppb	07:15:48
3	Si 251.611†	438.0	42.9	3.6801 µg/L	3.6801 ppb	07:16:09
3	Sn 189.927†	0.7	-0.3	-0.1597 µg/L	-0.1597 ppb	07:16:09
3	Ti 334.940†	86.4	89.9	0.2577 µg/L	0.2577 ppb	07:15:48
3	Tl 190.801†	-25.4	1.8	2.1836 µg/L	2.1836 ppb	07:16:09
3	U 409.014†	95.9	-50.8	-5.2770 µg/L	-5.2770 ppb	07:15:48
3	V 292.402†	-129.2	18.4	0.2488 µg/L	0.2488 ppb	07:15:48
3	Zn 213.857†	617.0	-9.2	-0.2578 µg/L	-0.2578 ppb	07:16:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1700033.9	102.32 %		0.417			0.41%
Sc RADIAL	111388.6	101 %		0.1			0.12%
Y 371.029	961806.2	102.62 %		0.494			0.48%
Ag 328.068†	39.8	0.3697 µg/L		0.36053	0.3697 ppb	0.36053	97.51%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-67.4	-35.701 µg/L		7.1294	-35.701 ppb	7.1294	19.97%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	2.3	4.3728 µg/L		3.16578	4.3728 ppb	3.16578	72.40%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	9.5	0.5322 µg/L		0.26931	0.5322 ppb	0.26931	50.60%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	2.3	0.0612 µg/L		0.17144	0.0612 ppb	0.17144	280.05%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-28.9	-0.0217 µg/L		0.04128	-0.0217 ppb	0.04128	190.47%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-85.5	-29.183 µg/L		1.3660	-29.183 ppb	1.3660	4.68%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	4.6	0.1417 µg/L		0.23788	0.1417 ppb	0.23788	167.93%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-2.0	-0.1073 µg/L		0.11778	-0.1073 ppb	0.11778	109.73%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated		
	-17.1	-0.4562 µg/L	0.43819	-0.4562 ppb
			0.43819	96.05%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated		
	86.8	0.6550 µg/L	0.09619	0.6550 ppb
			0.09619	14.68%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated		
	-1.6	-11.121 µg/L	0.8146	-11.121 ppb
			0.8146	7.32%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
	38.3	22.751 µg/L	33.5002	22.751 ppb
			33.5002	147.25%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated		
	-5.3	-52.778 µg/L	13.7068	-52.778 ppb
			13.7068	25.97%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
	20.4	0.0800 µg/L	0.01794	0.0800 ppb
			0.01794	22.43%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated		
	10.3	1.2374 µg/L	0.21401	1.2374 ppb
			0.21401	17.30%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated		
	-58.7	-18.125 µg/L	9.1006	-18.125 ppb
			9.1006	50.21%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
	-2.1	-0.1526 µg/L	0.44298	-0.1526 ppb
			0.44298	290.21%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated		
	-9.9	-22.538 µg/L	12.4260	-22.538 ppb
			12.4260	55.13%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated		
	3.2	1.0784 µg/L	0.86434	1.0784 ppb
			0.86434	80.15%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated		
	1.2	4.8990 µg/L	9.42393	4.8990 ppb
			9.42393	192.36%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated		
	2.0	2.3259 µg/L	2.29151	2.3259 ppb
			2.29151	98.52%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated		
	-0.2	-0.2940 µg/L	4.83323	-0.2940 ppb
			4.83323	>999.9%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated		
	40.0	9.1505 µg/L	3.24741	9.1505 ppb
			3.24741	35.49%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated		
	33.9	2.9082 µg/L	1.03983	2.9082 ppb
			1.03983	35.75%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated		
	0.3	0.1545 µg/L	0.48641	0.1545 ppb
			0.48641	314.85%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated		
	2.1	0.0089 µg/L	0.05041	0.0089 ppb
			0.05041	566.47%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated		
	92.0	0.2624 µg/L	0.01768	0.2624 ppb
			0.01768	6.74%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated		
	1.0	1.2552 µg/L	2.46247	1.2552 ppb
			2.46247	196.18%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated		
	-25.4	-2.6378 µg/L	3.02580	-2.6378 ppb
			3.02580	114.71%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated		
	-6.6	-0.0825 µg/L	0.28734	-0.0825 ppb
			0.28734	348.25%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated		
	-9.2	-0.2561 µg/L	0.06463	-0.2561 ppb
			0.06463	25.23%

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 19
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 2/26/2010 07:48:42
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	113702.1	113702.1	103 %		07:49:20
1	Al 396.153Radial†	10022.0	9819.7	5187.0 µg/L	5187.0 ppb	07:49:20
1	Ca 317.933Radial†	16387.2	15451.7	5274.9 µg/L	5274.9 ppb	07:49:20
1	Fe 238.204 Radial†	771.7	717.3	4977.1 µg/L	4977.1 ppb	07:49:40
1	K 766.490 Radial†	9176.8	8678.1	5155.4 µg/L	5155.4 ppb	07:49:20
1	Mg 279.077 IEC†	554.0	525.6	5200.5 µg/L	5200.5 ppb	07:49:40
1	Na 589.592 Radial†	31727.8	30546.7	9428.8 µg/L	9428.8 ppb	07:49:20
1	Sr 421.552†	118300.4	114939.6	478.05 µg/L	478.05 ppb	07:49:20
1	Sc 361.383	1703123.8	1703123.8	102.50 %		07:50:44
1	Y 371.029	959787.4	959787.4	102.41 %		07:50:44
1	Ag 328.068†	56080.2	55229.0	520.55 µg/L	520.55 ppb	07:50:50
1	As 188.979†	290.8	291.4	558.27 µg/L	558.27 ppb	07:51:10
1	B 249.677†	9774.5	9369.1	516.47 µg/L	516.47 ppb	07:50:50
1	Ba 233.527†	19995.7	19517.8	528.96 µg/L	528.96 ppb	07:50:50
1	Be 313.107†	717976.0	702123.8	524.31 µg/L	524.31 ppb	07:50:44
1	Cd 226.502†	17808.2	17514.2	530.79 µg/L	530.79 ppb	07:50:50
1	Co 228.616†	10081.9	9809.0	533.92 µg/L	533.92 ppb	07:50:50
1	Cr 267.716†	20420.8	19853.3	531.13 µg/L	531.13 ppb	07:50:50
1	Cu 324.752†	73402.9	68981.2	523.11 µg/L	523.11 ppb	07:50:50
1	Mn 257.610†	144725.9	141770.4	536.11 µg/L	536.11 ppb	07:50:44
1	Mo 202.031†	4655.1	4539.1	547.88 µg/L	547.88 ppb	07:51:10
1	Ni 231.604†	8044.4	7552.8	551.37 µg/L	551.37 ppb	07:50:50
1	P 214.914†	1469.1	1191.9	2656.9 µg/L	2656.9 ppb	07:51:10
1	Pb 220.353†	1717.5	1640.8	546.59 µg/L	546.59 ppb	07:51:10
1	S 181.975 Axial†	292.9	265.2	1100.3 µg/L	1100.3 ppb	07:51:10
1	Sb 206.836†	513.7	482.0	550.04 µg/L	550.04 ppb	07:51:10
1	Se 196.026†	455.1	429.6	568.43 µg/L	568.43 ppb	07:51:10
1	SiO2†	26564.9	24512.1	5607.4 µg/L	5607.4 ppb	07:50:50
1	Si 251.611†	31729.5	30571.2	2621.8 µg/L	2621.8 ppb	07:50:50
1	Sn 189.927†	1153.0	1123.8	553.67 µg/L	553.67 ppb	07:51:10
1	Ti 334.940†	191289.8	186627.5	524.66 µg/L	524.66 ppb	07:50:44
1	Tl 190.801†	420.3	436.6	538.06 µg/L	538.06 ppb	07:51:10
1	U 409.014†	5203.9	4932.7	511.87 µg/L	511.87 ppb	07:50:50
1	V 292.402†	40359.7	39519.2	531.36 µg/L	531.36 ppb	07:50:50
1	Zn 213.857†	20070.3	18969.8	529.66 µg/L	529.66 ppb	07:50:50
2	Sc RADIAL	113976.8	113976.8	103 %		07:49:46
2	Al 396.153Radial†	10069.9	9842.6	5199.1 µg/L	5199.1 ppb	07:49:46
2	Ca 317.933Radial†	16424.8	15449.8	5274.2 µg/L	5274.2 ppb	07:49:46
2	Fe 238.204 Radial†	772.3	716.1	4968.9 µg/L	4968.9 ppb	07:50:06
2	K 766.490 Radial†	9163.9	8644.0	5135.1 µg/L	5135.1 ppb	07:49:46
2	Mg 279.077 IEC†	551.5	521.8	5163.2 µg/L	5163.2 ppb	07:50:06
2	Na 589.592 Radial†	31838.8	30580.0	9439.0 µg/L	9439.0 ppb	07:49:46
2	Sr 421.552†	118320.8	114682.1	476.98 µg/L	476.98 ppb	07:49:46
2	Sc 361.383	1696689.1	1696689.1	102.11 %		07:51:17
2	Y 371.029	962040.9	962040.9	102.65 %		07:51:17
2	Ag 328.068†	56440.1	55789.0	525.82 µg/L	525.82 ppb	07:51:23
2	As 188.979†	285.9	287.6	550.95 µg/L	550.95 ppb	07:51:43
2	B 249.677†	9825.7	9455.4	521.26 µg/L	521.26 ppb	07:51:23
2	Ba 233.527†	20104.8	19698.7	533.86 µg/L	533.86 ppb	07:51:23
2	Be 313.107†	715849.8	702698.1	524.74 µg/L	524.74 ppb	07:51:17
2	Cd 226.502†	17974.3	17742.8	537.72 µg/L	537.72 ppb	07:51:23
2	Co 228.616†	10113.0	9876.7	537.61 µg/L	537.61 ppb	07:51:23
2	Cr 267.716†	20528.5	20034.4	535.97 µg/L	535.97 ppb	07:51:23
2	Cu 324.752†	73735.5	69578.6	527.63 µg/L	527.63 ppb	07:51:23
2	Mn 257.610†	144533.7	142117.6	537.43 µg/L	537.43 ppb	07:51:17
2	Mo 202.031†	4634.9	4536.6	547.57 µg/L	547.57 ppb	07:51:43
2	Ni 231.604†	8088.7	7626.0	556.71 µg/L	556.71 ppb	07:51:23
2	P 214.914†	1459.1	1187.6	2646.7 µg/L	2646.7 ppb	07:51:43
2	Pb 220.353†	1699.9	1629.9	542.95 µg/L	542.95 ppb	07:51:43

2	S 181.975 Axial†	294.8	268.2	1112.6 µg/L	1112.6 ppb	07:51:43
2	Sb 206.836†	505.9	476.2	543.42 µg/L	543.42 ppb	07:51:43
2	Se 196.026†	454.3	430.5	569.63 µg/L	569.63 ppb	07:51:43
2	SiO2†	26761.9	24803.4	5674.0 µg/L	5674.0 ppb	07:51:23
2	Si 251.611†	31964.8	30919.0	2651.6 µg/L	2651.6 ppb	07:51:23
2	Sn 189.927†	1146.3	1121.5	552.53 µg/L	552.53 ppb	07:51:43
2	Ti 334.940†	190288.8	186355.0	523.90 µg/L	523.90 ppb	07:51:17
2	Tl 190.801†	418.2	436.0	537.37 µg/L	537.37 ppb	07:51:43
2	U 409.014†	5168.5	4917.3	510.27 µg/L	510.27 ppb	07:51:23
2	V 292.402†	40572.1	39876.5	536.11 µg/L	536.11 ppb	07:51:23
2	Zn 213.857†	20200.1	19171.2	535.29 µg/L	535.29 ppb	07:51:23
3	Sc RADIAL	113971.6	113971.6	103 %		07:50:12
3	Al 396.153Radial†	10085.2	9857.9	5208.9 µg/L	5208.9 ppb	07:50:12
3	Ca 317.933Radial†	16467.1	15491.6	5288.5 µg/L	5288.5 ppb	07:50:12
3	Fe 238.204 Radial†	772.8	716.5	4971.1 µg/L	4971.1 ppb	07:50:32
3	K 766.490 Radial†	9235.8	8714.2	5176.9 µg/L	5176.9 ppb	07:50:12
3	Mg 279.077 IEC†	554.5	524.8	5191.2 µg/L	5191.2 ppb	07:50:32
3	Na 589.592 Radial†	31856.0	30598.1	9444.6 µg/L	9444.6 ppb	07:50:12
3	Sr 421.552†	118589.3	114947.8	478.09 µg/L	478.09 ppb	07:50:12
3	Sc 361.383	1709881.0	1709881.0	102.91 %		07:51:50
3	Y 371.029	966409.9	966409.9	103.11 %		07:51:50
3	Ag 328.068†	54130.6	53118.3	500.55 µg/L	500.55 ppb	07:51:56
3	As 188.979†	255.0	255.5	489.45 µg/L	489.45 ppb	07:52:16
3	B 249.677†	9399.2	8966.7	494.15 µg/L	494.15 ppb	07:51:56
3	Ba 233.527†	18950.7	18425.3	499.33 µg/L	499.33 ppb	07:51:56
3	Be 313.107†	690221.8	672385.8	502.11 µg/L	502.11 ppb	07:51:50
3	Cd 226.502†	16836.7	16501.5	500.06 µg/L	500.06 ppb	07:51:56
3	Co 228.616†	9438.7	9145.1	497.72 µg/L	497.72 ppb	07:51:56
3	Cr 267.716†	18714.1	18116.2	484.66 µg/L	484.66 ppb	07:51:56
3	Cu 324.752†	69095.2	64512.3	489.28 µg/L	489.28 ppb	07:51:56
3	Mn 257.610†	139662.3	136291.9	515.39 µg/L	515.39 ppb	07:51:50
3	Mo 202.031†	3979.1	3864.2	466.45 µg/L	466.45 ppb	07:52:16
3	Ni 231.604†	7578.8	7069.4	516.08 µg/L	516.08 ppb	07:51:56
3	P 214.914†	1320.1	1041.5	2317.5 µg/L	2317.5 ppb	07:52:16
3	Pb 220.353†	1513.2	1435.7	478.16 µg/L	478.16 ppb	07:52:16
3	S 181.975 Axial†	266.0	237.9	987.23 µg/L	987.23 ppb	07:52:16
3	Sb 206.836†	452.1	420.2	479.02 µg/L	479.02 ppb	07:52:16
3	Se 196.026†	404.5	378.7	502.57 µg/L	502.57 ppb	07:52:16
3	SiO2†	25516.9	23391.4	5351.0 µg/L	5351.0 ppb	07:51:56
3	Si 251.611†	30392.6	29149.7	2499.9 µg/L	2499.9 ppb	07:51:56
3	Sn 189.927†	969.8	941.4	463.86 µg/L	463.86 ppb	07:52:16
3	Ti 334.940†	182928.4	177764.9	499.73 µg/L	499.73 ppb	07:51:50
3	Tl 190.801†	381.4	397.1	489.66 µg/L	489.66 ppb	07:52:16
3	U 409.014†	4694.3	4417.5	458.30 µg/L	458.30 ppb	07:51:56
3	V 292.402†	37444.1	36530.4	490.85 µg/L	490.85 ppb	07:51:56
3	Zn 213.857†	18924.3	17778.7	496.37 µg/L	496.37 ppb	07:51:56

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1703231.3	102.51 %	0.397			0.39%
Sc RADIAL	113883.5	103 %	0.1			0.14%
Y 371.029	962746.1	102.72 %	0.359			0.35%
Ag 328.068†	54712.1	515.64 µg/L	13.330	515.64 ppb	13.330	2.59%
QC value within limits for Ag 328.068 Recovery = 103.13%						
Al 396.153Radial†	9840.0	5198.3 µg/L	10.97	5198.3 ppb	10.97	0.21%
QC value within limits for Al 396.153Radial Recovery = 103.97%						
As 188.979†	278.2	532.89 µg/L	37.798	532.89 ppb	37.798	7.09%
QC value within limits for As 188.979 Recovery = 106.58%						
B 249.677†	9263.7	510.63 µg/L	14.471	510.63 ppb	14.471	2.83%
QC value within limits for B 249.677 Recovery = 102.13%						
Ba 233.527†	19214.0	520.71 µg/L	18.681	520.71 ppb	18.681	3.59%
QC value within limits for Ba 233.527 Recovery = 104.14%						
Be 313.107†	692402.6	517.05 µg/L	12.946	517.05 ppb	12.946	2.50%
QC value within limits for Be 313.107 Recovery = 103.41%						
Ca 317.933Radial†	15464.4	5279.2 µg/L	8.05	5279.2 ppb	8.05	0.15%
QC value within limits for Ca 317.933Radial Recovery = 105.58%						
Cd 226.502†	17252.8	522.86 µg/L	20.043	522.86 ppb	20.043	3.83%
QC value within limits for Cd 226.502 Recovery = 104.57%						
Co 228.616†	9610.3	523.08 µg/L	22.043	523.08 ppb	22.043	4.21%

Cr	267.716†	19334.6	517.26 µg/L	28.331	517.26 ppb	28.331	5.48%
QC value within limits for Cr 267.716 Recovery = 103.45%							
Cu	324.752†	67690.7	513.34 µg/L	20.959	513.34 ppb	20.959	4.08%
QC value within limits for Cu 324.752 Recovery = 102.67%							
Fe	238.204 Radial†	716.7	4972.4 µg/L	4.27	4972.4 ppb	4.27	0.09%
QC value within limits for Fe 238.204 Radial Recovery = 99.45%							
K	766.490 Radial†	8678.8	5155.8 µg/L	20.86	5155.8 ppb	20.86	0.40%
QC value within limits for K 766.490 Radial Recovery = 103.12%							
Mg	279.077 IEC†	524.0	5185.0 µg/L	19.41	5185.0 ppb	19.41	0.37%
QC value within limits for Mg 279.077 IEC Recovery = 103.70%							
Mn	257.610†	140060.0	529.65 µg/L	12.359	529.65 ppb	12.359	2.33%
QC value within limits for Mn 257.610 Recovery = 105.93%							
Mo	202.031†	4313.3	520.63 µg/L	46.926	520.63 ppb	46.926	9.01%
QC value within limits for Mo 202.031 Recovery = 104.13%							
Na	589.592 Radial†	30574.9	9437.5 µg/L	8.05	9437.5 ppb	8.05	0.09%
QC value within limits for Na 589.592 Radial Recovery = 94.37%							
Ni	231.604†	7416.1	541.39 µg/L	22.078	541.39 ppb	22.078	4.08%
QC value within limits for Ni 231.604 Recovery = 108.28%							
P	214.914†	1140.4	2540.4 µg/L	193.04	2540.4 ppb	193.04	7.60%
QC value within limits for P 214.914 Recovery = 101.61%							
Pb	220.353†	1568.8	522.56 µg/L	38.496	522.56 ppb	38.496	7.37%
QC value within limits for Pb 220.353 Recovery = 104.51%							
S	181.975 Axial†	257.1	1066.7 µg/L	69.11	1066.7 ppb	69.11	6.48%
QC value within limits for S 181.975 Axial Recovery = 106.67%							
Sb	206.836†	459.5	524.16 µg/L	39.231	524.16 ppb	39.231	7.48%
QC value within limits for Sb 206.836 Recovery = 104.83%							
Se	196.026†	412.9	546.88 µg/L	38.377	546.88 ppb	38.377	7.02%
QC value within limits for Se 196.026 Recovery = 109.38%							
SiO2†		24235.6	5544.1 µg/L	170.54	5544.1 ppb	170.54	3.08%
QC value within limits for SiO2 Recovery = 103.68%							
Si	251.611†	30213.3	2591.1 µg/L	80.39	2591.1 ppb	80.39	3.10%
QC value within limits for Si 251.611 Recovery = 103.64%							
Sn	189.927†	1062.2	523.35 µg/L	51.522	523.35 ppb	51.522	9.84%
QC value within limits for Sn 189.927 Recovery = 104.67%							
Sr	421.552†	114856.5	477.71 µg/L	0.629	477.71 ppb	0.629	0.13%
QC value within limits for Sr 421.552 Recovery = 95.54%							
Ti	334.940†	183582.5	516.10 µg/L	14.178	516.10 ppb	14.178	2.75%
QC value within limits for Ti 334.940 Recovery = 103.22%							
Tl	190.801†	423.2	521.70 µg/L	27.748	521.70 ppb	27.748	5.32%
QC value within limits for Tl 190.801 Recovery = 104.34%							
U	409.014†	4755.8	493.48 µg/L	30.478	493.48 ppb	30.478	6.18%
QC value within limits for U 409.014 Recovery = 98.70%							
V	292.402†	38642.0	519.44 µg/L	24.876	519.44 ppb	24.876	4.79%
QC value within limits for V 292.402 Recovery = 103.89%							
Zn	213.857†	18639.9	520.44 µg/L	21.032	520.44 ppb	21.032	4.04%
QC value within limits for Zn 213.857 Recovery = 104.09%							

All analyte(s) passed QC.

Sequence No.: 20

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 07:52:27

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	110724.8	110724.8	100 %		07:53:00
1	Al 396.153Radial†	-114.2	-44.0	-23.288 µg/L	-23.288 ppb	07:53:00
1	Ca 317.933Radial†	406.4	-83.9	-28.625 µg/L	-28.625 ppb	07:53:20
1	Fe 238.204 Radial†	29.2	-4.2	-29.357 µg/L	-29.357 ppb	07:53:20
1	K 766.490 Radial†	310.7	61.1	36.311 µg/L	36.311 ppb	07:53:00
1	Mg 279.077 IEC†	12.3	-1.1	-10.673 µg/L	-10.673 ppb	07:53:20
1	Na 589.592 Radial†	205.0	-113.5	-35.046 µg/L	-35.046 ppb	07:53:00
1	Sr 421.552†	144.2	0.3	0.0011 µg/L	0.0011 ppb	07:53:00
1	Sc 361.383	1703943.8	1703943.8	102.55 %		07:54:22
1	Y 371.029	964477.3	964477.3	102.91 %		07:54:22
1	Ag 328.068†	-560.1	-28.9	-0.2777 µg/L	-0.2777 ppb	07:54:28
1	As 188.979†	-3.3	4.5	8.5978 µg/L	8.5978 ppb	07:54:48
1	B 249.677†	179.5	8.1	0.4637 µg/L	0.4637 ppb	07:54:48
1	Ba 233.527†	-10.2	0.1	0.0030 µg/L	0.0030 ppb	07:54:48
1	Be 313.107†	-1794.2	-81.6	-0.0610 µg/L	-0.0610 ppb	07:54:28
1	Cd 226.502†	-140.7	3.4	0.1070 µg/L	0.1070 ppb	07:54:48
1	Co 228.616†	34.4	6.6	0.3610 µg/L	0.3610 ppb	07:54:48
1	Cr 267.716†	37.6	-32.5	-0.8684 µg/L	-0.8684 ppb	07:54:28
1	Cu 324.752†	2706.0	8.3	0.0571 µg/L	0.0571 ppb	07:54:28
1	Mn 257.610†	-553.5	36.4	0.1365 µg/L	0.1365 ppb	07:54:48
1	Mo 202.031†	11.0	8.3	1.0045 µg/L	1.0045 ppb	07:54:48
1	Ni 231.604†	297.1	-5.6	-0.4122 µg/L	-0.4122 ppb	07:54:48
1	P 214.914†	234.2	-12.9	-29.252 µg/L	-29.252 ppb	07:54:48
1	Pb 220.353†	33.3	-2.3	-0.7762 µg/L	-0.7762 ppb	07:54:48
1	S 181.975 Axial†	21.9	0.8	3.3155 µg/L	3.3155 ppb	07:54:48
1	Sb 206.836†	20.9	1.2	1.3626 µg/L	1.3626 ppb	07:54:48
1	Se 196.026†	14.5	-0.2	-0.3325 µg/L	-0.3325 ppb	07:54:48
1	SiO2†	1402.5	-36.9	-8.4357 µg/L	-8.4357 ppb	07:54:28
1	Si 251.611†	389.2	-4.5	-0.3870 µg/L	-0.3870 ppb	07:54:48
1	Sn 189.927†	6.1	4.9	2.4136 µg/L	2.4136 ppb	07:54:48
1	Ti 334.940†	48.0	52.4	0.1478 µg/L	0.1478 ppb	07:54:28
1	Tl 190.801†	-26.9	0.3	0.3762 µg/L	0.3762 ppb	07:54:48
1	U 409.014†	209.1	59.7	6.2135 µg/L	6.2135 ppb	07:54:28
1	V 292.402†	-188.6	-39.6	-0.5155 µg/L	-0.5155 ppb	07:54:28
1	Zn 213.857†	603.3	-22.5	-0.6282 µg/L	-0.6282 ppb	07:54:48
2	Sc RADIAL	109859.7	109859.7	99.3 %		07:53:26
2	Al 396.153Radial†	-101.0	-31.6	-16.728 µg/L	-16.728 ppb	07:53:26
2	Ca 317.933Radial†	407.6	-79.5	-27.129 µg/L	-27.129 ppb	07:53:46
2	Fe 238.204 Radial†	31.5	-1.7	-12.034 µg/L	-12.034 ppb	07:53:46
2	K 766.490 Radial†	251.6	4.1	2.4478 µg/L	2.4478 ppb	07:53:26
2	Mg 279.077 IEC†	9.5	-3.8	-37.557 µg/L	-37.557 ppb	07:53:46
2	Na 589.592 Radial†	246.4	-70.3	-21.694 µg/L	-21.694 ppb	07:53:26
2	Sr 421.552†	153.1	10.4	0.0432 µg/L	0.0432 ppb	07:53:26
2	Sc 361.383	1699326.9	1699326.9	102.27 %		07:54:54
2	Y 371.029	961639.9	961639.9	102.60 %		07:54:54
2	Ag 328.068†	-468.7	59.0	0.5483 µg/L	0.5483 ppb	07:55:00
2	As 188.979†	-7.6	0.2	0.3677 µg/L	0.3677 ppb	07:55:20
2	B 249.677†	187.6	16.5	0.9217 µg/L	0.9217 ppb	07:55:20
2	Ba 233.527†	-17.9	-7.4	-0.2003 µg/L	-0.2003 ppb	07:55:20
2	Be 313.107†	-1757.7	-50.7	-0.0379 µg/L	-0.0379 ppb	07:55:00
2	Cd 226.502†	-141.4	2.3	0.0715 µg/L	0.0715 ppb	07:55:20
2	Co 228.616†	23.9	-3.5	-0.1908 µg/L	-0.1908 ppb	07:55:20
2	Cr 267.716†	82.6	11.6	0.3100 µg/L	0.3100 ppb	07:55:00
2	Cu 324.752†	2735.0	43.8	0.3290 µg/L	0.3290 ppb	07:55:00
2	Mn 257.610†	-564.9	23.7	0.0916 µg/L	0.0916 ppb	07:55:20
2	Mo 202.031†	12.0	9.3	1.1259 µg/L	1.1259 ppb	07:55:20
2	Ni 231.604†	303.7	1.6	0.1183 µg/L	0.1183 ppb	07:55:20
2	P 214.914†	239.2	-7.4	-16.863 µg/L	-16.863 ppb	07:55:20
2	Pb 220.353†	31.7	-3.8	-1.2755 µg/L	-1.2755 ppb	07:55:20

2	S 181.975 Axial†	24.0	2.8	11.773 µg/L	11.773 ppb	07:55:20
2	Sb 206.836†	20.5	0.9	1.0550 µg/L	1.0550 ppb	07:55:20
2	Se 196.026†	20.7	5.9	7.5801 µg/L	7.5801 ppb	07:55:20
2	SiO2†	1431.5	-4.8	-1.1025 µg/L	-1.1025 ppb	07:55:00
2	Si 251.611†	405.5	12.4	1.0632 µg/L	1.0632 ppb	07:55:20
2	Sn 189.927†	4.0	2.9	1.4281 µg/L	1.4281 ppb	07:55:20
2	Ti 334.940†	68.5	72.6	0.2067 µg/L	0.2067 ppb	07:55:00
2	Tl 190.801†	-21.2	5.7	7.0154 µg/L	7.0154 ppb	07:55:20
2	U 409.014†	154.8	7.1	0.7425 µg/L	0.7425 ppb	07:55:00
2	V 292.402†	-169.5	-21.4	-0.2753 µg/L	-0.2753 ppb	07:55:00
2	Zn 213.857†	598.4	-25.7	-0.7206 µg/L	-0.7206 ppb	07:55:20
3	Sc RADIAL	110811.0	110811.0	100 %		07:53:52
3	Al 396.153Radial†	-162.7	-92.3	-48.850 µg/L	-48.850 ppb	07:53:52
3	Ca 317.933Radial†	400.2	-90.4	-30.859 µg/L	-30.859 ppb	07:54:12
3	Fe 238.204 Radial†	29.5	-4.0	-27.374 µg/L	-27.374 ppb	07:54:12
3	K 766.490 Radial†	276.9	27.2	16.139 µg/L	16.139 ppb	07:53:52
3	Mg 279.077 IEC†	12.9	-0.5	-5.0596 µg/L	-5.0596 ppb	07:54:12
3	Na 589.592 Radial†	263.0	-55.8	-17.239 µg/L	-17.239 ppb	07:53:52
3	Sr 421.552†	153.9	9.9	0.0411 µg/L	0.0411 ppb	07:53:52
3	Sc 361.383	1684659.0	1684659.0	101.39 %		07:55:26
3	Y 371.029	953675.5	953675.5	101.75 %		07:55:26
3	Ag 328.068†	-490.4	33.7	0.3115 µg/L	0.3115 ppb	07:55:32
3	As 188.979†	-5.2	2.5	4.8731 µg/L	4.8731 ppb	07:55:52
3	B 249.677†	171.8	2.5	0.1571 µg/L	0.1571 ppb	07:55:52
3	Ba 233.527†	-8.0	2.2	0.0591 µg/L	0.0591 ppb	07:55:52
3	Be 313.107†	-1809.5	-116.7	-0.0873 µg/L	-0.0873 ppb	07:55:32
3	Cd 226.502†	-148.4	-5.7	-0.1710 µg/L	-0.1710 ppb	07:55:52
3	Co 228.616†	17.7	-9.5	-0.5158 µg/L	-0.5158 ppb	07:55:52
3	Cr 267.716†	116.0	45.2	1.2097 µg/L	1.2097 ppb	07:55:32
3	Cu 324.752†	2741.5	73.5	0.5513 µg/L	0.5513 ppb	07:55:32
3	Mn 257.610†	-559.5	24.3	0.0906 µg/L	0.0906 ppb	07:55:52
3	Mo 202.031†	7.2	4.7	0.5661 µg/L	0.5661 ppb	07:55:52
3	Ni 231.604†	300.6	1.2	0.0902 µg/L	0.0902 ppb	07:55:52
3	P 214.914†	234.8	-9.7	-21.979 µg/L	-21.979 ppb	07:55:52
3	Pb 220.353†	39.6	4.3	1.4216 µg/L	1.4216 ppb	07:55:52
3	S 181.975 Axial†	21.6	0.7	2.9055 µg/L	2.9055 ppb	07:55:52
3	Sb 206.836†	21.5	2.1	2.3666 µg/L	2.3666 ppb	07:55:52
3	Se 196.026†	20.6	6.0	7.6477 µg/L	7.6477 ppb	07:55:52
3	SiO2†	1440.4	16.1	3.6789 µg/L	3.6789 ppb	07:55:32
3	Si 251.611†	411.4	21.7	1.8618 µg/L	1.8618 ppb	07:55:52
3	Sn 189.927†	8.3	7.2	3.5271 µg/L	3.5271 ppb	07:55:52
3	Ti 334.940†	88.5	92.9	0.2611 µg/L	0.2611 ppb	07:55:32
3	Tl 190.801†	-27.2	-0.3	-0.3973 µg/L	-0.3973 ppb	07:55:52
3	U 409.014†	198.7	51.8	5.3875 µg/L	5.3875 ppb	07:55:32
3	V 292.402†	-142.1	4.2	0.0672 µg/L	0.0672 ppb	07:55:32
3	Zn 213.857†	595.0	-23.9	-0.6716 µg/L	-0.6716 ppb	07:55:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1695976.6	102.07 %	0.606			0.59%
Sc RADIAL	110465.2	99.9 %	0.48			0.48%
Y 371.029	959930.9	102.42 %	0.597			0.58%
Ag 328.068†	21.2	0.1940 µg/L	0.42536	0.1940 ppb	0.42536	219.24%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-55.9	-29.622 µg/L	16.9717	-29.622 ppb	16.9717	57.29%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.4	4.6129 µg/L	4.12123	4.6129 ppb	4.12123	89.34%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	9.1	0.5142 µg/L	0.38481	0.5142 ppb	0.38481	74.84%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.7	-0.0461 µg/L	0.13648	-0.0461 ppb	0.13648	296.08%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-83.0	-0.0621 µg/L	0.02470	-0.0621 ppb	0.02470	39.79%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-84.6	-28.871 µg/L	1.8770	-28.871 ppb	1.8770	6.50%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-0.0	0.0025 µg/L	0.15129	0.0025 ppb	0.15129	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-2.1	-0.1152 µg/L	0.44328	-0.1152 ppb	0.44328	384.83%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	8.1	0.2171 µg/L	1.04216	0.2171 ppb	1.04216 480.04%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	41.8	0.3125 µg/L	0.24751	0.3125 ppb	0.24751 79.21%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	-3.3	-22.922 µg/L	9.4810	-22.922 ppb	9.4810 41.36%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	30.8	18.300 µg/L	17.0349	18.300 ppb	17.0349 93.09%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-1.8	-17.763 µg/L	17.3704	-17.763 ppb	17.3704 97.79%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	28.1	0.1062 µg/L	0.02623	0.1062 ppb	0.02623 24.69%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	7.5	0.8988 µg/L	0.29450	0.8988 ppb	0.29450 32.76%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	-79.9	-24.659 µg/L	9.2666	-24.659 ppb	9.2666 37.58%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-0.9	-0.0679 µg/L	0.29851	-0.0679 ppb	0.29851 439.67%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-10.0	-22.698 µg/L	6.2257	-22.698 ppb	6.2257 27.43%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-0.6	-0.2100 µg/L	1.43493	-0.2100 ppb	1.43493 683.21%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	1.4	5.9979 µg/L	5.00544	5.9979 ppb	5.00544 83.45%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	1.4	1.5947 µg/L	0.68591	1.5947 ppb	0.68591 43.01%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	3.9	4.9651 µg/L	4.58796	4.9651 ppb	4.58796 92.40%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-8.5	-1.9531 µg/L	6.10192	-1.9531 ppb	6.10192 312.42%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	9.9	0.8460 µg/L	1.14002	0.8460 ppb	1.14002 134.75%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	5.0	2.4563 µg/L	1.05015	2.4563 ppb	1.05015 42.75%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	6.8	0.0285 µg/L	0.02374	0.0285 ppb	0.02374 83.37%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	72.6	0.2052 µg/L	0.05668	0.2052 ppb	0.05668 27.62%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	1.9	2.3314 µg/L	4.07480	2.3314 ppb	4.07480 174.78%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	39.5	4.1145 µg/L	2.94929	4.1145 ppb	2.94929 71.68%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-19.0	-0.2412 µg/L	0.29280	-0.2412 ppb	0.29280 121.40%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	-24.0	-0.6735 µg/L	0.04622	-0.6735 ppb	0.04622 6.86%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 08:32:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	115722.8	115722.8	105 %		08:33:16
1	Al 396.153Radial†	10131.7	9754.2	5152.4 µg/L	5152.4 ppb	08:33:16
1	Ca 317.933Radial†	16441.0	15224.8	5197.4 µg/L	5197.4 ppb	08:33:16
1	Fe 238.204 Radial†	780.0	712.1	4940.8 µg/L	4940.8 ppb	08:33:37
1	K 766.490 Radial†	9268.5	8609.8	5114.8 µg/L	5114.8 ppb	08:33:16
1	Mg 279.077 IEC†	551.0	513.2	5078.5 µg/L	5078.5 ppb	08:33:37
1	Na 589.592 Radial†	32007.9	30275.4	9345.0 µg/L	9345.0 ppb	08:33:16
1	Sr 421.552†	118548.6	113167.3	470.68 µg/L	470.68 ppb	08:33:16
1	Sc 361.383	1714422.7	1714422.7	103.18 %		08:34:40
1	Y 371.029	969991.8	969991.8	103.49 %		08:34:40
1	Ag 328.068†	56294.5	55076.1	519.10 µg/L	519.10 ppb	08:34:46
1	As 188.979†	282.8	281.7	539.63 µg/L	539.63 ppb	08:35:06
1	B 249.677†	9782.8	9314.3	513.45 µg/L	513.45 ppb	08:34:46
1	Ba 233.527†	20011.5	19404.6	525.89 µg/L	525.89 ppb	08:34:46
1	Be 313.107†	717282.8	696835.7	520.36 µg/L	520.36 ppb	08:34:40
1	Cd 226.502†	17810.9	17402.4	527.40 µg/L	527.40 ppb	08:34:46
1	Co 228.616†	10048.6	9711.9	528.63 µg/L	528.63 ppb	08:34:46
1	Cr 267.716†	20342.9	19646.5	525.60 µg/L	525.60 ppb	08:34:46
1	Cu 324.752†	73779.7	68874.5	522.30 µg/L	522.30 ppb	08:34:46
1	Mn 257.610†	143514.9	139666.2	528.16 µg/L	528.16 ppb	08:34:46
1	Mo 202.031†	4658.1	4512.1	544.62 µg/L	544.62 ppb	08:35:06
1	Ni 231.604†	8013.6	7471.3	545.42 µg/L	545.42 ppb	08:34:46
1	P 214.914†	1467.5	1181.0	2632.1 µg/L	2632.1 ppb	08:35:06
1	Pb 220.353†	1722.5	1634.6	544.51 µg/L	544.51 ppb	08:35:06
1	S 181.975 Axial†	302.6	272.7	1131.4 µg/L	1131.4 ppb	08:35:06
1	Sb 206.836†	510.4	475.5	542.63 µg/L	542.63 ppb	08:35:06
1	Se 196.026†	445.3	417.2	552.40 µg/L	552.40 ppb	08:35:06
1	SiO2†	26863.4	24630.7	5634.5 µg/L	5634.5 ppb	08:34:46
1	Si 251.611†	32105.0	30731.1	2635.5 µg/L	2635.5 ppb	08:34:46
1	Sn 189.927†	1151.8	1115.3	549.44 µg/L	549.44 ppb	08:35:06
1	Ti 334.940†	191548.8	185648.6	521.92 µg/L	521.92 ppb	08:34:40
1	Tl 190.801†	423.8	437.2	538.84 µg/L	538.84 ppb	08:35:06
1	U 409.014†	5163.4	4859.9	504.32 µg/L	504.32 ppb	08:34:46
1	V 292.402†	40397.0	39295.8	528.34 µg/L	528.34 ppb	08:34:46
1	Zn 213.857†	20064.8	18835.4	525.91 µg/L	525.91 ppb	08:34:46
2	Sc RADIAL	115858.3	115858.3	105 %		08:33:42
2	Al 396.153Radial†	10148.3	9758.8	5154.9 µg/L	5154.9 ppb	08:33:42
2	Ca 317.933Radial†	16512.7	15274.9	5214.5 µg/L	5214.5 ppb	08:33:42
2	Fe 238.204 Radial†	785.1	716.1	4968.7 µg/L	4968.7 ppb	08:34:03
2	K 766.490 Radial†	9380.3	8706.2	5172.1 µg/L	5172.1 ppb	08:33:42
2	Mg 279.077 IEC†	557.0	518.4	5129.3 µg/L	5129.3 ppb	08:34:03
2	Na 589.592 Radial†	32099.1	30326.7	9360.8 µg/L	9360.8 ppb	08:33:42
2	Sr 421.552†	119392.5	113840.4	473.48 µg/L	473.48 ppb	08:33:42
2	Sc 361.383	1711123.8	1711123.8	102.98 %		08:35:13
2	Y 371.029	960062.0	960062.0	102.43 %		08:35:13
2	Ag 328.068†	56224.0	55112.8	519.43 µg/L	519.43 ppb	08:35:19
2	As 188.979†	291.2	290.4	556.37 µg/L	556.37 ppb	08:35:39
2	B 249.677†	9779.0	9328.9	514.24 µg/L	514.24 ppb	08:35:19
2	Ba 233.527†	19950.8	19383.1	525.30 µg/L	525.30 ppb	08:35:19
2	Be 313.107†	711478.8	692540.0	517.15 µg/L	517.15 ppb	08:35:13
2	Cd 226.502†	17700.5	17328.4	525.15 µg/L	525.15 ppb	08:35:19
2	Co 228.616†	10062.7	9744.3	530.40 µg/L	530.40 ppb	08:35:19
2	Cr 267.716†	20316.2	19658.6	525.92 µg/L	525.92 ppb	08:35:19
2	Cu 324.752†	73663.3	68899.3	522.49 µg/L	522.49 ppb	08:35:19
2	Mn 257.610†	143012.7	139446.6	527.33 µg/L	527.33 ppb	08:35:19
2	Mo 202.031†	4603.3	4467.6	539.25 µg/L	539.25 ppb	08:35:39
2	Ni 231.604†	8025.7	7498.0	547.37 µg/L	547.37 ppb	08:35:19
2	P 214.914†	1448.1	1164.9	2595.4 µg/L	2595.4 ppb	08:35:39
2	Pb 220.353†	1705.6	1621.4	540.10 µg/L	540.10 ppb	08:35:39

2	S 181.975 Axial†	295.2	266.0	1103.8 µg/L	1103.8 ppb	08:35:39
2	Sb 206.836†	508.1	474.2	541.07 µg/L	541.07 ppb	08:35:39
2	Se 196.026†	447.6	420.3	556.41 µg/L	556.41 ppb	08:35:39
2	SiO2†	26931.3	24746.7	5661.1 µg/L	5661.1 ppb	08:35:19
2	Si 251.611†	32180.2	30864.1	2646.9 µg/L	2646.9 ppb	08:35:19
2	Sn 189.927†	1136.5	1102.6	543.21 µg/L	543.21 ppb	08:35:39
2	Ti 334.940†	190159.6	184657.6	519.13 µg/L	519.13 ppb	08:35:13
2	Tl 190.801†	420.8	435.2	536.27 µg/L	536.27 ppb	08:35:39
2	U 409.014†	5253.1	4956.7	514.38 µg/L	514.38 ppb	08:35:19
2	V 292.402†	40208.1	39187.9	526.88 µg/L	526.88 ppb	08:35:19
2	Zn 213.857†	20098.2	18905.3	527.87 µg/L	527.87 ppb	08:35:19
3	Sc RADIAL	114640.5	114640.5	104 %		08:34:08
3	Al 396.153Radial†	10168.7	9881.3	5221.3 µg/L	5221.3 ppb	08:34:08
3	Ca 317.933Radial†	16622.4	15548.2	5307.8 µg/L	5307.8 ppb	08:34:08
3	Fe 238.204 Radial†	780.4	719.6	4991.9 µg/L	4991.9 ppb	08:34:29
3	K 766.490 Radial†	9402.8	8823.0	5241.5 µg/L	5241.5 ppb	08:34:08
3	Mg 279.077 IEC†	558.3	525.3	5196.4 µg/L	5196.4 ppb	08:34:29
3	Na 589.592 Radial†	32307.4	30853.2	9523.4 µg/L	9523.4 ppb	08:34:08
3	Sr 421.552†	120096.3	115730.3	481.34 µg/L	481.34 ppb	08:34:08
3	Sc 361.383	1721620.1	1721620.1	103.61 %		08:35:46
3	Y 371.029	970083.6	970083.6	103.50 %		08:35:46
3	Ag 328.068†	53894.1	52531.4	495.02 µg/L	495.02 ppb	08:35:51
3	As 188.979†	254.8	253.5	485.72 µg/L	485.72 ppb	08:36:12
3	B 249.677†	9369.4	8875.7	489.09 µg/L	489.09 ppb	08:35:51
3	Ba 233.527†	18777.5	18132.5	491.40 µg/L	491.40 ppb	08:35:51
3	Be 313.107†	684017.7	661824.7	494.22 µg/L	494.22 ppb	08:35:46
3	Cd 226.502†	16611.3	16172.5	490.08 µg/L	490.08 ppb	08:35:51
3	Co 228.616†	9361.3	9007.8	490.24 µg/L	490.24 ppb	08:35:51
3	Cr 267.716†	18530.9	17815.4	476.61 µg/L	476.61 ppb	08:35:51
3	Cu 324.752†	68980.7	63944.0	484.98 µg/L	484.98 ppb	08:35:51
3	Mn 257.610†	133191.3	129121.2	488.28 µg/L	488.28 ppb	08:35:51
3	Mo 202.031†	3988.6	3847.1	464.38 µg/L	464.38 ppb	08:36:12
3	Ni 231.604†	7487.6	6931.1	505.99 µg/L	505.99 ppb	08:35:51
3	P 214.914†	1316.4	1029.2	2290.0 µg/L	2290.0 ppb	08:36:12
3	Pb 220.353†	1527.7	1439.6	479.46 µg/L	479.46 ppb	08:36:12
3	S 181.975 Axial†	263.5	233.7	969.70 µg/L	969.70 ppb	08:36:12
3	Sb 206.836†	445.3	410.6	468.22 µg/L	468.22 ppb	08:36:12
3	Se 196.026†	397.0	368.8	489.79 µg/L	489.79 ppb	08:36:12
3	SiO2†	25647.4	23348.2	5341.1 µg/L	5341.1 ppb	08:35:51
3	Si 251.611†	30583.6	29132.7	2498.4 µg/L	2498.4 ppb	08:35:51
3	Sn 189.927†	967.5	932.7	459.59 µg/L	459.59 ppb	08:36:12
3	Ti 334.940†	182347.6	175992.3	494.75 µg/L	494.75 ppb	08:35:46
3	Tl 190.801†	380.1	393.4	484.94 µg/L	484.94 ppb	08:36:12
3	U 409.014†	4768.8	4458.2	462.53 µg/L	462.53 ppb	08:35:51
3	V 292.402†	37185.5	36032.7	484.20 µg/L	484.20 ppb	08:35:51
3	Zn 213.857†	18781.7	17515.8	489.03 µg/L	489.03 ppb	08:35:51

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1715722.2	103.26 %	0.323			0.31%
Sc RADIAL	115407.2	104 %	0.6			0.58%
Y 371.029	966712.5	103.14 %	0.615			0.60%
Ag 328.068†	54240.1	511.18 µg/L	13.998	511.18 ppb	13.998	2.74%
QC value within limits for Ag 328.068 Recovery = 102.24%						
Al 396.153Radial†	9798.1	5176.2 µg/L	39.09	5176.2 ppb	39.09	0.76%
QC value within limits for Al 396.153Radial Recovery = 103.52%						
As 188.979†	275.2	527.24 µg/L	36.919	527.24 ppb	36.919	7.00%
QC value within limits for As 188.979 Recovery = 105.45%						
B 249.677†	9172.9	505.59 µg/L	14.301	505.59 ppb	14.301	2.83%
QC value within limits for B 249.677 Recovery = 101.12%						
Ba 233.527†	18973.4	514.19 µg/L	19.747	514.19 ppb	19.747	3.84%
QC value within limits for Ba 233.527 Recovery = 102.84%						
Be 313.107†	683733.5	510.58 µg/L	14.259	510.58 ppb	14.259	2.79%
QC value within limits for Be 313.107 Recovery = 102.12%						
Ca 317.933Radial†	15349.3	5239.9 µg/L	59.41	5239.9 ppb	59.41	1.13%
QC value within limits for Ca 317.933Radial Recovery = 104.80%						
Cd 226.502†	16967.8	514.21 µg/L	20.929	514.21 ppb	20.929	4.07%
QC value within limits for Cd 226.502 Recovery = 102.84%						
Co 228.616†	9488.0	516.42 µg/L	22.689	516.42 ppb	22.689	4.39%

QC value within limits for Co 228.616 Recovery = 103.28%							
Cr 267.716†	19040.2	509.38 µg/L	28.376	509.38 ppb	28.376	5.57%	
QC value within limits for Cr 267.716 Recovery = 101.88%							
Cu 324.752†	67239.3	509.93 µg/L	21.599	509.93 ppb	21.599	4.24%	
QC value within limits for Cu 324.752 Recovery = 101.99%							
Fe 238.204 Radial†	715.9	4967.1 µg/L	25.60	4967.1 ppb	25.60	0.52%	
QC value within limits for Fe 238.204 Radial Recovery = 99.34%							
K 766.490 Radial†	8713.0	5176.1 µg/L	63.43	5176.1 ppb	63.43	1.23%	
QC value within limits for K 766.490 Radial Recovery = 103.52%							
Mg 279.077 IEC†	519.0	5134.7 µg/L	59.18	5134.7 ppb	59.18	1.15%	
QC value within limits for Mg 279.077 IEC Recovery = 102.69%							
Mn 257.610†	136078.0	514.59 µg/L	22.792	514.59 ppb	22.792	4.43%	
QC value within limits for Mn 257.610 Recovery = 102.92%							
Mo 202.031†	4275.6	516.08 µg/L	44.853	516.08 ppb	44.853	8.69%	
QC value within limits for Mo 202.031 Recovery = 103.22%							
Na 589.592 Radial†	30485.1	9409.7 µg/L	98.72	9409.7 ppb	98.72	1.05%	
QC value within limits for Na 589.592 Radial Recovery = 94.10%							
Ni 231.604†	7300.1	532.92 µg/L	23.346	532.92 ppb	23.346	4.38%	
QC value within limits for Ni 231.604 Recovery = 106.58%							
P 214.914†	1125.0	2505.9 µg/L	187.80	2505.9 ppb	187.80	7.49%	
QC value within limits for P 214.914 Recovery = 100.23%							
Pb 220.353†	1565.2	521.36 µg/L	36.353	521.36 ppb	36.353	6.97%	
QC value within limits for Pb 220.353 Recovery = 104.27%							
S 181.975 Axial†	257.5	1068.3 µg/L	86.52	1068.3 ppb	86.52	8.10%	
QC value within limits for S 181.975 Axial Recovery = 106.83%							
Sb 206.836†	453.4	517.31 µg/L	42.514	517.31 ppb	42.514	8.22%	
QC value within limits for Sb 206.836 Recovery = 103.46%							
Se 196.026†	402.1	532.87 µg/L	37.359	532.87 ppb	37.359	7.01%	
QC value within limits for Se 196.026 Recovery = 106.57%							
SiO2†	24241.9	5545.6 µg/L	177.54	5545.6 ppb	177.54	3.20%	
QC value within limits for SiO2 Recovery = 103.70%							
Si 251.611†	30242.6	2593.6 µg/L	82.63	2593.6 ppb	82.63	3.19%	
QC value within limits for Si 251.611 Recovery = 103.74%							
Sn 189.927†	1050.2	517.41 µg/L	50.176	517.41 ppb	50.176	9.70%	
QC value within limits for Sn 189.927 Recovery = 103.48%							
Sr 421.552†	114246.0	475.17 µg/L	5.527	475.17 ppb	5.527	1.16%	
QC value within limits for Sr 421.552 Recovery = 95.03%							
Ti 334.940†	182099.5	511.93 µg/L	14.947	511.93 ppb	14.947	2.92%	
QC value within limits for Ti 334.940 Recovery = 102.39%							
Tl 190.801†	421.9	520.01 µg/L	30.404	520.01 ppb	30.404	5.85%	
QC value within limits for Tl 190.801 Recovery = 104.00%							
U 409.014†	4758.3	493.74 µg/L	27.494	493.74 ppb	27.494	5.57%	
QC value within limits for U 409.014 Recovery = 98.75%							
V 292.402†	38172.1	513.14 µg/L	25.072	513.14 ppb	25.072	4.89%	
QC value within limits for V 292.402 Recovery = 102.63%							
Zn 213.857†	18418.8	514.27 µg/L	21.881	514.27 ppb	21.881	4.25%	
QC value within limits for Zn 213.857 Recovery = 102.85%							

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 08:36:21

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	113572.2	113572.2	103 %		08:36:54
1	Al 396.153Radial†	-138.6	-64.8	-34.316 µg/L	-34.316 ppb	08:36:54
1	Ca 317.933Radial†	424.8	-76.1	-25.992 µg/L	-25.992 ppb	08:37:15
1	Fe 238.204 Radial†	31.9	-2.3	-16.020 µg/L	-16.020 ppb	08:37:15
1	K 766.490 Radial†	325.5	67.8	40.291 µg/L	40.291 ppb	08:36:54
1	Mg 279.077 IEC†	19.3	5.4	53.321 µg/L	53.321 ppb	08:37:15
1	Na 589.592 Radial†	269.4	-56.0	-17.285 µg/L	-17.285 ppb	08:36:54
1	Sr 421.552†	154.7	6.9	0.0289 µg/L	0.0289 ppb	08:36:54
1	Sc 361.383	1712760.3	1712760.3	103.08 %		08:38:17
1	Y 371.029	965911.4	965911.4	103.06 %		08:38:17
1	Ag 328.068†	-534.9	-1.6	-0.0192 µg/L	-0.0192 ppb	08:38:22
1	As 188.979†	-4.0	3.8	7.3143 µg/L	7.3143 ppb	08:38:43
1	B 249.677†	177.3	5.1	0.2922 µg/L	0.2922 ppb	08:38:43
1	Ba 233.527†	-15.9	-5.3	-0.1435 µg/L	-0.1435 ppb	08:38:43
1	Be 313.107†	-1829.1	-106.5	-0.0796 µg/L	-0.0796 ppb	08:38:22
1	Cd 226.502†	-143.1	1.8	0.0552 µg/L	0.0552 ppb	08:38:43
1	Co 228.616†	23.5	-4.1	-0.2258 µg/L	-0.2258 ppb	08:38:43
1	Cr 267.716†	64.6	-6.5	-0.1733 µg/L	-0.1733 ppb	08:38:43
1	Cu 324.752†	2827.1	112.1	0.8458 µg/L	0.8458 ppb	08:38:22
1	Mn 257.610†	-521.6	70.1	0.2606 µg/L	0.2606 ppb	08:38:43
1	Mo 202.031†	4.5	2.0	0.2360 µg/L	0.2360 ppb	08:38:43
1	Ni 231.604†	301.0	-3.3	-0.2380 µg/L	-0.2380 ppb	08:38:43
1	P 214.914†	244.8	-3.8	-8.6808 µg/L	-8.6808 ppb	08:38:43
1	Pb 220.353†	46.0	9.8	3.2774 µg/L	3.2774 ppb	08:38:43
1	S 181.975 Axial†	20.4	-0.8	-3.4007 µg/L	-3.4007 ppb	08:38:43
1	Sb 206.836†	22.2	2.3	2.6475 µg/L	2.6475 ppb	08:38:43
1	Se 196.026†	22.0	7.0	8.9308 µg/L	8.9308 ppb	08:38:43
1	SiO2†	1499.0	49.7	11.372 µg/L	11.372 ppb	08:38:22
1	Si 251.611†	448.1	50.6	4.3404 µg/L	4.3404 ppb	08:38:43
1	Sn 189.927†	2.8	1.7	0.8488 µg/L	0.8488 ppb	08:38:43
1	Ti 334.940†	101.8	104.4	0.2890 µg/L	0.2890 ppb	08:38:22
1	Tl 190.801†	-31.7	-4.2	-5.1460 µg/L	-5.1460 ppb	08:38:43
1	U 409.014†	81.2	-65.4	-6.7986 µg/L	-6.7986 ppb	08:38:22
1	V 292.402†	-169.9	-20.5	-0.2789 µg/L	-0.2789 ppb	08:38:22
1	Zn 213.857†	618.6	-10.6	-0.3013 µg/L	-0.3013 ppb	08:38:43
2	Sc RADIAL	113605.6	113605.6	103 %		08:37:20
2	Al 396.153Radial†	-151.3	-77.2	-40.882 µg/L	-40.882 ppb	08:37:20
2	Ca 317.933Radial†	412.9	-87.8	-29.968 µg/L	-29.968 ppb	08:37:40
2	Fe 238.204 Radial†	29.8	-4.4	-30.446 µg/L	-30.446 ppb	08:37:40
2	K 766.490 Radial†	273.6	17.2	10.213 µg/L	10.213 ppb	08:37:20
2	Mg 279.077 IEC†	6.3	-7.3	-71.653 µg/L	-71.653 ppb	08:37:40
2	Na 589.592 Radial†	211.7	-112.2	-34.629 µg/L	-34.629 ppb	08:37:20
2	Sr 421.552†	174.7	26.3	0.1094 µg/L	0.1094 ppb	08:37:20
2	Sc 361.383	1698891.8	1698891.8	102.25 %		08:38:49
2	Y 371.029	959211.9	959211.9	102.34 %		08:38:49
2	Ag 328.068†	-491.2	36.9	0.3451 µg/L	0.3451 ppb	08:38:54
2	As 188.979†	-4.5	3.2	6.2175 µg/L	6.2175 ppb	08:39:15
2	B 249.677†	179.5	8.7	0.4961 µg/L	0.4961 ppb	08:39:15
2	Ba 233.527†	-8.4	1.9	0.0514 µg/L	0.0514 ppb	08:39:15
2	Be 313.107†	-1731.4	-25.4	-0.0191 µg/L	-0.0191 ppb	08:38:54
2	Cd 226.502†	-141.9	1.8	0.0579 µg/L	0.0579 ppb	08:39:15
2	Co 228.616†	28.2	0.7	0.0382 µg/L	0.0382 ppb	08:39:15
2	Cr 267.716†	63.8	-6.8	-0.1805 µg/L	-0.1805 ppb	08:39:15
2	Cu 324.752†	2799.8	107.8	0.8105 µg/L	0.8105 ppb	08:38:54
2	Mn 257.610†	-542.3	45.7	0.1757 µg/L	0.1757 ppb	08:39:15
2	Mo 202.031†	17.2	14.4	1.7382 µg/L	1.7382 ppb	08:39:15
2	Ni 231.604†	301.0	-0.9	-0.0659 µg/L	-0.0659 ppb	08:39:15
2	P 214.914†	239.4	-7.1	-16.233 µg/L	-16.233 ppb	08:39:15
2	Pb 220.353†	43.6	7.9	2.6364 µg/L	2.6364 ppb	08:39:15

2	S 181.975 Axial†	23.0	1.9	7.9448 µg/L	7.9448 ppb	08:39:15
2	Sb 206.836†	21.4	1.8	2.0390 µg/L	2.0390 ppb	08:39:15
2	Se 196.026†	15.1	0.4	0.4705 µg/L	0.4705 ppb	08:39:15
2	SiO2†	1492.2	54.9	12.555 µg/L	12.555 ppb	08:38:54
2	Si 251.611†	452.5	58.6	5.0217 µg/L	5.0217 ppb	08:39:15
2	Sn 189.927†	-0.7	-1.7	-0.8514 µg/L	-0.8514 ppb	08:39:15
2	Ti 334.940†	133.6	136.3	0.3887 µg/L	0.3887 ppb	08:38:54
2	Tl 190.801†	-26.1	1.0	1.2059 µg/L	1.2059 ppb	08:39:15
2	U 409.014†	92.8	-53.4	-5.5504 µg/L	-5.5504 ppb	08:38:54
2	V 292.402†	-99.6	46.9	0.6299 µg/L	0.6299 ppb	08:38:54
2	Zn 213.857†	619.9	-4.5	-0.1226 µg/L	-0.1226 ppb	08:39:15
3	Sc RADIAL	113412.4	113412.4	103 %		08:37:46
3	Al 396.153Radial†	-134.6	-61.1	-32.389 µg/L	-32.389 ppb	08:37:46
3	Ca 317.933Radial†	409.6	-90.3	-30.841 µg/L	-30.841 ppb	08:38:06
3	Fe 238.204 Radial†	32.1	-2.1	-14.851 µg/L	-14.851 ppb	08:38:06
3	K 766.490 Radial†	258.2	2.6	1.5638 µg/L	1.5638 ppb	08:37:46
3	Mg 279.077 IEC†	8.4	-5.2	-51.134 µg/L	-51.134 ppb	08:38:06
3	Na 589.592 Radial†	265.6	-59.3	-18.307 µg/L	-18.307 ppb	08:37:46
3	Sr 421.552†	179.4	31.2	0.1299 µg/L	0.1299 ppb	08:37:46
3	Sc 361.383	1709004.8	1709004.8	102.86 %		08:39:21
3	Y 371.029	967243.9	967243.9	103.20 %		08:39:21
3	Ag 328.068†	-439.7	89.8	0.8407 µg/L	0.8407 ppb	08:39:26
3	As 188.979†	-9.3	-1.4	-2.6758 µg/L	-2.6758 ppb	08:39:47
3	B 249.677†	170.5	-1.1	-0.0524 µg/L	-0.0524 ppb	08:39:47
3	Ba 233.527†	-22.4	-11.7	-0.3144 µg/L	-0.3144 ppb	08:39:47
3	Be 313.107†	-1794.8	-77.0	-0.0577 µg/L	-0.0577 ppb	08:39:26
3	Cd 226.502†	-137.9	6.5	0.1980 µg/L	0.1980 ppb	08:39:47
3	Co 228.616†	32.8	5.0	0.2749 µg/L	0.2749 ppb	08:39:47
3	Cr 267.716†	61.2	-9.6	-0.2560 µg/L	-0.2560 ppb	08:39:47
3	Cu 324.752†	2726.2	20.1	0.1490 µg/L	0.1490 ppb	08:39:26
3	Mn 257.610†	-533.7	57.2	0.2190 µg/L	0.2190 ppb	08:39:47
3	Mo 202.031†	11.1	8.4	1.0074 µg/L	1.0074 ppb	08:39:47
3	Ni 231.604†	299.6	-4.0	-0.2919 µg/L	-0.2919 ppb	08:39:47
3	P 214.914†	239.9	-8.1	-18.297 µg/L	-18.297 ppb	08:39:47
3	Pb 220.353†	39.1	3.2	1.0721 µg/L	1.0721 ppb	08:39:47
3	S 181.975 Axial†	23.9	2.7	11.177 µg/L	11.177 ppb	08:39:47
3	Sb 206.836†	21.2	1.4	1.6092 µg/L	1.6092 ppb	08:39:47
3	Se 196.026†	10.9	-3.8	-4.8728 µg/L	-4.8728 ppb	08:39:47
3	SiO2†	1525.2	78.3	17.920 µg/L	17.920 ppb	08:39:26
3	Si 251.611†	467.7	70.7	6.0590 µg/L	6.0590 ppb	08:39:47
3	Sn 189.927†	8.4	7.2	3.5296 µg/L	3.5296 ppb	08:39:47
3	Ti 334.940†	158.3	159.5	0.4522 µg/L	0.4522 ppb	08:39:26
3	Tl 190.801†	-27.1	0.2	0.1962 µg/L	0.1962 ppb	08:39:47
3	U 409.014†	141.7	-6.4	-0.6644 µg/L	-0.6644 ppb	08:39:26
3	V 292.402†	-109.8	37.5	0.5049 µg/L	0.5049 ppb	08:39:26
3	Zn 213.857†	597.5	-29.9	-0.8360 µg/L	-0.8360 ppb	08:39:47

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1706885.7	102.73 %	0.432			0.42%
Sc RADIAL	113530.0	103 %	0.1			0.09%
Y 371.029	964122.4	102.87 %	0.459			0.45%
Ag 328.068†	41.7	0.3889 µg/L	0.43157	0.3889 ppb	0.43157	110.98%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-67.7	-35.862 µg/L	4.4525	-35.862 ppb	4.4525	12.42%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.9	3.6186 µg/L	5.47869	3.6186 ppb	5.47869	151.40%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	4.2	0.2453 µg/L	0.27727	0.2453 ppb	0.27727	113.03%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.0	-0.1355 µg/L	0.18306	-0.1355 ppb	0.18306	135.12%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-69.6	-0.0521 µg/L	0.03064	-0.0521 ppb	0.03064	58.76%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-84.8	-28.933 µg/L	2.5848	-28.933 ppb	2.5848	8.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	3.4	0.1037 µg/L	0.08169	0.1037 ppb	0.08169	78.76%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.5	0.0291 µg/L	0.25046	0.0291 ppb	0.25046	861.59%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated		
	-7.6	-0.2033 µg/L	0.04581	-0.2033 ppb
			0.04581	22.53%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated		
	80.0	0.6018 µg/L	0.39250	0.6018 ppb
			0.39250	65.22%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated		
	-3.0	-20.439 µg/L	8.6861	-20.439 ppb
			8.6861	42.50%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
	29.2	17.356 µg/L	20.3275	17.356 ppb
			20.3275	117.12%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated		
	-2.3	-23.155 µg/L	67.0202	-23.155 ppb
			67.0202	289.44%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
	57.7	0.2184 µg/L	0.04243	0.2184 ppb
			0.04243	19.42%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated		
	8.2	0.9939 µg/L	0.75117	0.9939 ppb
			0.75117	75.58%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated		
	-75.8	-23.407 µg/L	9.7321	-23.407 ppb
			9.7321	41.58%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
	-2.7	-0.1986 µg/L	0.11802	-0.1986 ppb
			0.11802	59.42%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated		
	-6.3	-14.404 µg/L	5.0625	-14.404 ppb
			5.0625	35.15%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated		
	7.0	2.3287 µg/L	1.13443	2.3287 ppb
			1.13443	48.72%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated		
	1.3	5.2402 µg/L	7.65575	5.2402 ppb
			7.65575	146.10%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated		
	1.8	2.0986 µg/L	0.52173	2.0986 ppb
			0.52173	24.86%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated		
	1.2	1.5095 µg/L	6.96019	1.5095 ppb
			6.96019	461.10%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated		
	61.0	13.949 µg/L	3.4894	13.949 ppb
			3.4894	25.02%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated		
	59.9	5.1404 µg/L	0.86542	5.1404 ppb
			0.86542	16.84%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated		
	2.4	1.1757 µg/L	2.20871	1.1757 ppb
			2.20871	187.87%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated		
	21.5	0.0894 µg/L	0.05343	0.0894 ppb
			0.05343	59.76%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated		
	133.4	0.3766 µg/L	0.08225	0.3766 ppb
			0.08225	21.84%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated		
	-1.0	-1.2480 µg/L	3.41337	-1.2480 ppb
			3.41337	273.51%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated		
	-41.8	-4.3378 µg/L	3.24186	-4.3378 ppb
			3.24186	74.74%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated		
	21.3	0.2853 µg/L	0.49255	0.2853 ppb
			0.49255	172.65%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated		
	-15.0	-0.4200 µg/L	0.37119	-0.4200 ppb
			0.37119	88.38%
	QC value within limits for Zn 213.857 Recovery = Not calculated			
All analyte(s) passed QC.				

Sequence No.: 20

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 09:12:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	112286.0	112286.0	102 %		09:12:42
1	Al 396.153Radial†	10074.0	9993.7	5279.4 µg/L	5279.4 ppb	09:12:42
1	Ca 317.933Radial†	16051.1	15321.7	5230.5 µg/L	5230.5 ppb	09:12:42
1	Fe 238.204 Radial†	730.4	686.1	4761.0 µg/L	4761.0 ppb	09:13:03
1	K 766.490 Radial†	9175.8	8789.7	5221.7 µg/L	5221.7 ppb	09:12:42
1	Mg 279.077 IEC†	524.4	503.2	4979.5 µg/L	4979.5 ppb	09:13:03
1	Na 589.592 Radial†	29617.3	28856.9	8907.2 µg/L	8907.2 ppb	09:12:42
1	Sr 421.552†	113254.3	111420.1	463.41 µg/L	463.41 ppb	09:12:42
1	Sc 361.383	1713892.4	1713892.4	103.15 %		09:14:06
1	Y 371.029	963884.8	963884.8	102.84 %		09:14:06
1	Ag 328.068†	55538.4	54360.0	512.32 µg/L	512.32 ppb	09:14:12
1	As 188.979†	283.7	282.7	541.51 µg/L	541.51 ppb	09:14:32
1	B 249.677†	9635.5	9174.5	505.80 µg/L	505.80 ppb	09:14:12
1	Ba 233.527†	19744.2	19151.5	519.02 µg/L	519.02 ppb	09:14:12
1	Be 313.107†	709594.1	689596.8	514.96 µg/L	514.96 ppb	09:14:06
1	Cd 226.502†	17499.2	17105.5	518.41 µg/L	518.41 ppb	09:14:12
1	Co 228.616†	9881.4	9552.9	519.96 µg/L	519.96 ppb	09:14:12
1	Cr 267.716†	19996.9	19317.2	516.79 µg/L	516.79 ppb	09:14:12
1	Cu 324.752†	72659.4	67810.5	514.21 µg/L	514.21 ppb	09:14:12
1	Mn 257.610†	141070.4	137339.3	519.36 µg/L	519.36 ppb	09:14:12
1	Mo 202.031†	4579.4	4437.2	535.57 µg/L	535.57 ppb	09:14:32
1	Ni 231.604†	7924.9	7387.6	539.31 µg/L	539.31 ppb	09:14:12
1	P 214.914†	1442.6	1157.2	2579.0 µg/L	2579.0 ppb	09:14:32
1	Pb 220.353†	1688.4	1602.1	533.69 µg/L	533.69 ppb	09:14:32
1	S 181.975 Axial†	292.3	262.8	1090.3 µg/L	1090.3 ppb	09:14:32
1	Sb 206.836†	502.0	467.5	533.52 µg/L	533.52 ppb	09:14:32
1	Se 196.026†	438.4	410.7	543.40 µg/L	543.40 ppb	09:14:32
1	SiO2†	26349.6	24140.5	5522.4 µg/L	5522.4 ppb	09:14:12
1	Si 251.611†	31525.6	30179.0	2588.2 µg/L	2588.2 ppb	09:14:12
1	Sn 189.927†	1124.3	1088.9	536.48 µg/L	536.48 ppb	09:14:32
1	Ti 334.940†	189906.5	184113.9	517.61 µg/L	517.61 ppb	09:14:06
1	Tl 190.801†	408.1	422.2	520.35 µg/L	520.35 ppb	09:14:32
1	U 409.014†	5119.9	4819.4	500.12 µg/L	500.12 ppb	09:14:12
1	V 292.402†	39728.1	38659.5	519.78 µg/L	519.78 ppb	09:14:12
1	Zn 213.857†	19792.4	18577.3	518.71 µg/L	518.71 ppb	09:14:12
2	Sc RADIAL	113021.6	113021.6	102 %		09:13:08
2	Al 396.153Radial†	10038.0	9894.0	5226.6 µg/L	5226.6 ppb	09:13:08
2	Ca 317.933Radial†	16051.5	15219.2	5195.5 µg/L	5195.5 ppb	09:13:08
2	Fe 238.204 Radial†	733.0	684.0	4746.1 µg/L	4746.1 ppb	09:13:29
2	K 766.490 Radial†	9204.0	8758.4	5203.1 µg/L	5203.1 ppb	09:13:08
2	Mg 279.077 IEC†	527.8	503.1	4978.4 µg/L	4978.4 ppb	09:13:29
2	Na 589.592 Radial†	29584.4	28634.8	8838.6 µg/L	8838.6 ppb	09:13:08
2	Sr 421.552†	113092.8	110535.9	459.74 µg/L	459.74 ppb	09:13:08
2	Sc 361.383	1708820.6	1708820.6	102.84 %		09:14:39
2	Y 371.029	956043.7	956043.7	102.01 %		09:14:39
2	Ag 328.068†	55686.4	54663.8	515.17 µg/L	515.17 ppb	09:14:45
2	As 188.979†	280.4	280.3	537.06 µg/L	537.06 ppb	09:15:05
2	B 249.677†	9678.9	9244.4	509.68 µg/L	509.68 ppb	09:14:45
2	Ba 233.527†	19742.0	19206.2	520.51 µg/L	520.51 ppb	09:14:45
2	Be 313.107†	703604.3	685814.4	512.13 µg/L	512.13 ppb	09:14:39
2	Cd 226.502†	17552.4	17207.6	521.51 µg/L	521.51 ppb	09:14:45
2	Co 228.616†	9947.0	9645.0	524.99 µg/L	524.99 ppb	09:14:45
2	Cr 267.716†	20074.6	19450.3	520.35 µg/L	520.35 ppb	09:14:45
2	Cu 324.752†	72706.4	68065.3	516.14 µg/L	516.14 ppb	09:14:45
2	Mn 257.610†	141515.8	138178.3	522.53 µg/L	522.53 ppb	09:14:45
2	Mo 202.031†	4554.5	4426.2	534.25 µg/L	534.25 ppb	09:15:05
2	Ni 231.604†	7945.8	7430.7	542.46 µg/L	542.46 ppb	09:14:45
2	P 214.914†	1443.8	1162.6	2590.9 µg/L	2590.9 ppb	09:15:05
2	Pb 220.353†	1691.3	1609.8	536.24 µg/L	536.24 ppb	09:15:05

2	S 181.975 Axial†	289.0	260.4	1080.4 µg/L	1080.4 ppb	09:15:05
2	Sb 206.836†	502.4	469.3	535.51 µg/L	535.51 ppb	09:15:05
2	Se 196.026†	435.8	409.4	541.71 µg/L	541.71 ppb	09:15:05
2	SiO2†	26522.6	24384.6	5578.2 µg/L	5578.2 ppb	09:14:45
2	Si 251.611†	31717.6	30456.4	2612.0 µg/L	2612.0 ppb	09:14:45
2	Sn 189.927†	1124.4	1092.3	538.14 µg/L	538.14 ppb	09:15:05
2	Ti 334.940†	188769.2	183554.5	516.03 µg/L	516.03 ppb	09:14:39
2	Tl 190.801†	414.2	429.3	529.04 µg/L	529.04 ppb	09:15:05
2	U 409.014†	5136.0	4849.7	503.28 µg/L	503.28 ppb	09:14:45
2	V 292.402†	39762.4	38807.1	521.75 µg/L	521.75 ppb	09:14:45
2	Zn 213.857†	19864.2	18704.1	522.26 µg/L	522.26 ppb	09:14:45
3	Sc RADIAL	111594.9	111594.9	101 %		09:13:34
3	Al 396.153Radial†	9900.5	9883.3	5222.4 µg/L	5222.4 ppb	09:13:34
3	Ca 317.933Radial†	15896.6	15266.5	5211.6 µg/L	5211.6 ppb	09:13:34
3	Fe 238.204 Radial†	726.9	687.1	4766.8 µg/L	4766.8 ppb	09:13:55
3	K 766.490 Radial†	9171.9	8841.8	5252.6 µg/L	5252.6 ppb	09:13:34
3	Mg 279.077 IEC†	529.8	511.7	5062.2 µg/L	5062.2 ppb	09:13:55
3	Na 589.592 Radial†	29457.8	28879.5	8914.1 µg/L	8914.1 ppb	09:13:34
3	Sr 421.552†	112438.4	111302.3	462.92 µg/L	462.92 ppb	09:13:34
3	Sc 361.383	1709272.0	1709272.0	102.87 %		09:15:12
3	Y 371.029	960730.8	960730.8	102.51 %		09:15:12
3	Ag 328.068†	53440.3	52466.0	494.38 µg/L	494.38 ppb	09:15:18
3	As 188.979†	246.6	247.3	473.82 µg/L	473.82 ppb	09:15:38
3	B 249.677†	9256.0	8830.7	486.72 µg/L	486.72 ppb	09:15:18
3	Ba 233.527†	18620.9	18111.2	490.82 µg/L	490.82 ppb	09:15:18
3	Be 313.107†	677103.7	659872.8	492.76 µg/L	492.76 ppb	09:15:12
3	Cd 226.502†	16425.8	16107.9	488.14 µg/L	488.14 ppb	09:15:18
3	Co 228.616†	9268.3	8982.8	488.88 µg/L	488.88 ppb	09:15:18
3	Cr 267.716†	18350.7	17769.4	475.38 µg/L	475.38 ppb	09:15:18
3	Cu 324.752†	68329.2	63791.6	483.79 µg/L	483.79 ppb	09:15:18
3	Mn 257.610†	131703.2	128603.2	486.31 µg/L	486.31 ppb	09:15:18
3	Mo 202.031†	3954.8	3842.0	463.76 µg/L	463.76 ppb	09:15:38
3	Ni 231.604†	7395.1	6893.4	503.23 µg/L	503.23 ppb	09:15:18
3	P 214.914†	1299.1	1021.5	2272.9 µg/L	2272.9 ppb	09:15:38
3	Pb 220.353†	1519.0	1441.8	480.20 µg/L	480.20 ppb	09:15:38
3	S 181.975 Axial†	264.3	236.3	980.52 µg/L	980.52 ppb	09:15:38
3	Sb 206.836†	447.7	416.1	474.44 µg/L	474.44 ppb	09:15:38
3	Se 196.026†	408.4	382.6	507.04 µg/L	507.04 ppb	09:15:38
3	SiO2†	25290.4	23180.0	5302.6 µg/L	5302.6 ppb	09:15:18
3	Si 251.611†	30117.4	28892.7	2477.9 µg/L	2477.9 ppb	09:15:18
3	Sn 189.927†	961.8	934.0	460.20 µg/L	460.20 ppb	09:15:38
3	Ti 334.940†	180561.7	175527.6	493.45 µg/L	493.45 ppb	09:15:12
3	Tl 190.801†	384.1	399.9	492.90 µg/L	492.90 ppb	09:15:38
3	U 409.014†	4825.3	4546.4	471.74 µg/L	471.74 ppb	09:15:18
3	V 292.402†	36862.3	35977.7	483.47 µg/L	483.47 ppb	09:15:18
3	Zn 213.857†	18625.0	17494.3	488.46 µg/L	488.46 ppb	09:15:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1710661.7	102.95 %	0.169			0.16%
Sc RADIAL	112300.9	102 %	0.6			0.64%
Y 371.029	960219.8	102.45 %	0.421			0.41%
Ag 328.068†	53829.9	507.29 µg/L	11.274	507.29 ppb	11.274	2.22%
QC value within limits for Ag 328.068 Recovery = 101.46%						
Al 396.153Radial†	9923.7	5242.8 µg/L	31.77	5242.8 ppb	31.77	0.61%
QC value within limits for Al 396.153Radial Recovery = 104.86%						
As 188.979†	270.1	517.46 µg/L	37.864	517.46 ppb	37.864	7.32%
QC value within limits for As 188.979 Recovery = 103.49%						
B 249.677†	9083.2	500.73 µg/L	12.291	500.73 ppb	12.291	2.45%
QC value within limits for B 249.677 Recovery = 100.15%						
Ba 233.527†	18823.0	510.12 µg/L	16.729	510.12 ppb	16.729	3.28%
QC value within limits for Ba 233.527 Recovery = 102.02%						
Be 313.107†	678428.0	506.62 µg/L	12.082	506.62 ppb	12.082	2.38%
QC value within limits for Be 313.107 Recovery = 101.32%						
Ca 317.933Radial†	15269.1	5212.5 µg/L	17.52	5212.5 ppb	17.52	0.34%
QC value within limits for Ca 317.933Radial Recovery = 104.25%						
Cd 226.502†	16807.0	509.36 µg/L	18.437	509.36 ppb	18.437	3.62%
QC value within limits for Cd 226.502 Recovery = 101.87%						
Co 228.616†	9393.5	511.28 µg/L	19.557	511.28 ppb	19.557	3.83%

Cr	267.716†	18845.7	504.17 µg/L	24.997	504.17 ppb	24.997	4.96%
	QC value within limits for Cr 267.716 Recovery = 100.83%						
Cu	324.752†	66555.8	504.71 µg/L	18.145	504.71 ppb	18.145	3.60%
	QC value within limits for Cu 324.752 Recovery = 100.94%						
Fe	238.204 Radial†	685.7	4758.0 µg/L	10.69	4758.0 ppb	10.69	0.22%
	QC value within limits for Fe 238.204 Radial Recovery = 95.16%						
K	766.490 Radial†	8796.6	5225.8 µg/L	25.01	5225.8 ppb	25.01	0.48%
	QC value within limits for K 766.490 Radial Recovery = 104.52%						
Mg	279.077 IEC†	506.0	5006.7 µg/L	48.07	5006.7 ppb	48.07	0.96%
	QC value within limits for Mg 279.077 IEC Recovery = 100.13%						
Mn	257.610†	134707.0	509.40 µg/L	20.057	509.40 ppb	20.057	3.94%
	QC value within limits for Mn 257.610 Recovery = 101.88%						
Mo	202.031†	4235.1	511.19 µg/L	41.085	511.19 ppb	41.085	8.04%
	QC value within limits for Mo 202.031 Recovery = 102.24%						
Na	589.592 Radial†	28790.4	8886.6 µg/L	41.73	8886.6 ppb	41.73	0.47%
	QC value less than the lower limit for Na 589.592 Radial Recovery = 88.87%						
Ni	231.604†	7237.3	528.33 µg/L	21.795	528.33 ppb	21.795	4.13%
	QC value within limits for Ni 231.604 Recovery = 105.67%						
P	214.914†	1113.8	2480.9 µg/L	180.25	2480.9 ppb	180.25	7.27%
	QC value within limits for P 214.914 Recovery = 99.24%						
Pb	220.353†	1551.2	516.71 µg/L	31.644	516.71 ppb	31.644	6.12%
	QC value within limits for Pb 220.353 Recovery = 103.34%						
S	181.975 Axial†	253.2	1050.4 µg/L	60.70	1050.4 ppb	60.70	5.78%
	QC value within limits for S 181.975 Axial Recovery = 105.04%						
Sb	206.836†	451.0	514.49 µg/L	34.699	514.49 ppb	34.699	6.74%
	QC value within limits for Sb 206.836 Recovery = 102.90%						
Se	196.026†	400.9	530.72 µg/L	20.522	530.72 ppb	20.522	3.87%
	QC value within limits for Se 196.026 Recovery = 106.14%						
SiO2†		23901.7	5467.8 µg/L	145.69	5467.8 ppb	145.69	2.66%
	QC value within limits for SiO2 Recovery = 102.25%						
Si	251.611†	29842.7	2559.3 µg/L	71.55	2559.3 ppb	71.55	2.80%
	QC value within limits for Si 251.611 Recovery = 102.37%						
Sn	189.927†	1038.4	511.60 µg/L	44.529	511.60 ppb	44.529	8.70%
	QC value within limits for Sn 189.927 Recovery = 102.32%						
Sr	421.552†	111086.1	462.02 µg/L	1.997	462.02 ppb	1.997	0.43%
	QC value within limits for Sr 421.552 Recovery = 92.40%						
Ti	334.940†	181065.3	509.03 µg/L	13.518	509.03 ppb	13.518	2.66%
	QC value within limits for Ti 334.940 Recovery = 101.81%						
Tl	190.801†	417.1	514.10 µg/L	18.863	514.10 ppb	18.863	3.67%
	QC value within limits for Tl 190.801 Recovery = 102.82%						
U	409.014†	4738.5	491.72 µg/L	17.370	491.72 ppb	17.370	3.53%
	QC value within limits for U 409.014 Recovery = 98.34%						
V	292.402†	37814.8	508.33 µg/L	21.557	508.33 ppb	21.557	4.24%
	QC value within limits for V 292.402 Recovery = 101.67%						
Zn	213.857†	18258.6	509.81 µg/L	18.575	509.81 ppb	18.575	3.64%
	QC value within limits for Zn 213.857 Recovery = 101.96%						
QC Failed. Continue with analysis.							

Sequence No.: 21

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 09:15:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110581.0	110581.0	100.0	%		09:16:20
1	Al 396.153Radial†	-159.4	-89.3	-47.317	µg/L	-47.317 ppb	09:16:20
1	Ca 317.933Radial†	400.9	-88.8	-30.324	µg/L	-30.324 ppb	09:16:40
1	Fe 238.204 Radial†	32.7	-0.7	-4.8851	µg/L	-4.8851 ppb	09:16:40
1	K 766.490 Radial†	227.5	-21.6	-12.840	µg/L	-12.840 ppb	09:16:20
1	Mg 279.077 IEC†	11.1	-2.3	-22.647	µg/L	-22.647 ppb	09:16:40
1	Na 589.592 Radial†	249.7	-68.5	-21.159	µg/L	-21.159 ppb	09:16:20
1	Sr 421.552†	130.3	-13.5	-0.0559	µg/L	-0.0559 ppb	09:16:20
1	Sc 361.383	1699462.5	1699462.5	102.28	%		09:17:42
1	Y 371.029	957601.2	957601.2	102.17	%		09:17:42
1	Ag 328.068†	-526.5	2.5	0.0191	µg/L	0.0191 ppb	09:17:48
1	As 188.979†	-11.0	-3.1	-6.0005	µg/L	-6.0005 ppb	09:18:09
1	B 249.677†	187.4	16.4	0.9072	µg/L	0.9072 ppb	09:18:09
1	Ba 233.527†	-11.5	-1.1	-0.0305	µg/L	-0.0305 ppb	09:18:09
1	Be 313.107†	-1806.9	-98.6	-0.0738	µg/L	-0.0738 ppb	09:17:48
1	Cd 226.502†	-140.9	2.8	0.0863	µg/L	0.0863 ppb	09:18:09
1	Co 228.616†	33.4	5.7	0.3139	µg/L	0.3139 ppb	09:18:09
1	Cr 267.716†	55.8	-14.6	-0.3894	µg/L	-0.3894 ppb	09:17:48
1	Cu 324.752†	2743.1	51.5	0.3886	µg/L	0.3886 ppb	09:17:48
1	Mn 257.610†	-499.6	87.6	0.3325	µg/L	0.3325 ppb	09:18:09
1	Mo 202.031†	14.4	11.6	1.4050	µg/L	1.4050 ppb	09:18:09
1	Ni 231.604†	301.1	-0.9	-0.0655	µg/L	-0.0655 ppb	09:18:09
1	P 214.914†	249.8	2.9	6.6278	µg/L	6.6278 ppb	09:18:09
1	Pb 220.353†	36.7	1.1	0.3649	µg/L	0.3649 ppb	09:18:09
1	S 181.975 Axial†	14.6	-6.3	-26.134	µg/L	-26.134 ppb	09:18:09
1	Sb 206.836†	25.1	5.3	6.0864	µg/L	6.0864 ppb	09:18:09
1	Se 196.026†	9.3	-5.3	-6.8644	µg/L	-6.8644 ppb	09:18:09
1	SiO2†	1492.6	54.8	12.542	µg/L	12.542 ppb	09:17:48
1	Si 251.611†	480.9	86.1	7.3848	µg/L	7.3848 ppb	09:18:09
1	Sn 189.927†	6.9	5.7	2.8214	µg/L	2.8214 ppb	09:18:09
1	Ti 334.940†	112.4	115.5	0.3263	µg/L	0.3263 ppb	09:17:48
1	Tl 190.801†	-30.4	-3.3	-3.9749	µg/L	-3.9749 ppb	09:18:09
1	U 409.014†	91.7	-54.6	-5.6747	µg/L	-5.6747 ppb	09:17:48
1	V 292.402†	-189.4	-40.8	-0.5385	µg/L	-0.5385 ppb	09:17:48
1	Zn 213.857†	617.1	-7.4	-0.2083	µg/L	-0.2083 ppb	09:18:09
2	Sc RADIAL	111000.9	111000.9	100	%		09:16:46
2	Al 396.153Radial†	-151.2	-80.5	-42.634	µg/L	-42.634 ppb	09:16:46
2	Ca 317.933Radial†	407.0	-84.3	-28.774	µg/L	-28.774 ppb	09:17:06
2	Fe 238.204 Radial†	30.9	-2.6	-18.155	µg/L	-18.155 ppb	09:17:06
2	K 766.490 Radial†	287.4	37.1	22.065	µg/L	22.065 ppb	09:16:46
2	Mg 279.077 IEC†	10.5	-2.9	-29.110	µg/L	-29.110 ppb	09:17:06
2	Na 589.592 Radial†	229.5	-89.7	-27.677	µg/L	-27.677 ppb	09:16:46
2	Sr 421.552†	167.0	22.6	0.0942	µg/L	0.0942 ppb	09:16:46
2	Sc 361.383	1688299.7	1688299.7	101.61	%		09:18:15
2	Y 371.029	953698.4	953698.4	101.76	%		09:18:15
2	Ag 328.068†	-400.2	123.4	1.1516	µg/L	1.1516 ppb	09:18:20
2	As 188.979†	-8.1	-0.4	-0.6882	µg/L	-0.6882 ppb	09:18:41
2	B 249.677†	188.7	18.8	1.0507	µg/L	1.0507 ppb	09:18:41
2	Ba 233.527†	-9.0	1.3	0.0350	µg/L	0.0350 ppb	09:18:41
2	Be 313.107†	-1703.6	-8.6	-0.0067	µg/L	-0.0067 ppb	09:18:20
2	Cd 226.502†	-146.2	-3.3	-0.0971	µg/L	-0.0971 ppb	09:18:41
2	Co 228.616†	27.6	0.2	0.0125	µg/L	0.0125 ppb	09:18:41
2	Cr 267.716†	58.2	-11.8	-0.3165	µg/L	-0.3165 ppb	09:18:20
2	Cu 324.752†	2722.8	49.2	0.3692	µg/L	0.3692 ppb	09:18:20
2	Mn 257.610†	-477.9	105.8	0.4010	µg/L	0.4010 ppb	09:18:41
2	Mo 202.031†	10.1	7.6	0.9119	µg/L	0.9119 ppb	09:18:41
2	Ni 231.604†	299.5	-0.6	-0.0422	µg/L	-0.0422 ppb	09:18:41
2	P 214.914†	237.4	-7.6	-17.315	µg/L	-17.315 ppb	09:18:41
2	Pb 220.353†	34.9	-0.4	-0.1358	µg/L	-0.1358 ppb	09:18:41

2	S 181.975 Axial†	27.4	6.3	26.298 µg/L	26.298 ppb	09:18:41
2	Sb 206.836†	15.7	-3.7	-4.2118 µg/L	-4.2118 ppb	09:18:41
2	Se 196.026†	15.3	0.7	0.8515 µg/L	0.8515 ppb	09:18:41
2	SiO2†	1527.5	98.8	22.591 µg/L	22.591 ppb	09:18:20
2	Si 251.611†	515.0	122.8	10.532 µg/L	10.532 ppb	09:18:41
2	Sn 189.927†	2.8	1.8	0.8615 µg/L	0.8615 ppb	09:18:41
2	Ti 334.940†	185.4	188.1	0.5309 µg/L	0.5309 ppb	09:18:20
2	Tl 190.801†	-25.6	1.3	1.6491 µg/L	1.6491 ppb	09:18:41
2	U 409.014†	102.2	-43.7	-4.5367 µg/L	-4.5367 ppb	09:18:20
2	V 292.402†	-147.7	-1.1	-0.0134 µg/L	-0.0134 ppb	09:18:20
2	Zn 213.857†	603.9	-16.5	-0.4617 µg/L	-0.4617 ppb	09:18:41
3	Sc RADIAL	109938.0	109938.0	99.4 %		09:17:12
3	Al 396.153Radial†	-131.6	-62.2	-32.972 µg/L	-32.972 ppb	09:17:12
3	Ca 317.933Radial†	414.8	-72.5	-24.754 µg/L	-24.754 ppb	09:17:32
3	Fe 238.204 Radial†	30.3	-2.9	-20.337 µg/L	-20.337 ppb	09:17:32
3	K 766.490 Radial†	259.4	11.8	6.9926 µg/L	6.9926 ppb	09:17:12
3	Mg 279.077 IEC†	7.3	-6.1	-59.976 µg/L	-59.976 ppb	09:17:32
3	Na 589.592 Radial†	259.5	-57.3	-17.675 µg/L	-17.675 ppb	09:17:12
3	Sr 421.552†	117.0	-26.1	-0.1085 µg/L	-0.1085 ppb	09:17:12
3	Sc 361.383	1705030.7	1705030.7	102.62 %		09:18:47
3	Y 371.029	961707.2	961707.2	102.61 %		09:18:47
3	Ag 328.068†	-504.7	25.4	0.2339 µg/L	0.2339 ppb	09:18:52
3	As 188.979†	-6.4	1.4	2.7548 µg/L	2.7548 ppb	09:19:13
3	B 249.677†	181.7	10.2	0.5742 µg/L	0.5742 ppb	09:19:13
3	Ba 233.527†	-11.8	-1.4	-0.0389 µg/L	-0.0389 ppb	09:19:13
3	Be 313.107†	-1689.5	21.6	0.0159 µg/L	0.0159 ppb	09:18:52
3	Cd 226.502†	-145.2	-0.9	-0.0258 µg/L	-0.0258 ppb	09:19:13
3	Co 228.616†	20.6	-6.8	-0.3688 µg/L	-0.3688 ppb	09:19:13
3	Cr 267.716†	57.0	-13.6	-0.3643 µg/L	-0.3643 ppb	09:18:52
3	Cu 324.752†	2754.6	54.0	0.4047 µg/L	0.4047 ppb	09:18:52
3	Mn 257.610†	-464.9	123.1	0.4683 µg/L	0.4683 ppb	09:19:13
3	Mo 202.031†	15.8	13.0	1.5689 µg/L	1.5689 ppb	09:19:13
3	Ni 231.604†	302.3	-0.7	-0.0486 µg/L	-0.0486 ppb	09:19:13
3	P 214.914†	239.6	-7.8	-17.601 µg/L	-17.601 ppb	09:19:13
3	Pb 220.353†	41.5	5.7	1.8976 µg/L	1.8976 ppb	09:19:13
3	S 181.975 Axial†	19.6	-1.4	-6.0090 µg/L	-6.0090 ppb	09:19:13
3	Sb 206.836†	22.1	2.3	2.6901 µg/L	2.6901 ppb	09:19:13
3	Se 196.026†	17.1	2.3	2.9197 µg/L	2.9197 ppb	09:19:13
3	SiO2†	1529.6	86.1	19.688 µg/L	19.688 ppb	09:18:52
3	Si 251.611†	522.1	124.7	10.699 µg/L	10.699 ppb	09:19:13
3	Sn 189.927†	8.6	7.4	3.6177 µg/L	3.6177 ppb	09:19:13
3	Ti 334.940†	214.9	215.1	0.6093 µg/L	0.6093 ppb	09:18:52
3	Tl 190.801†	-29.0	-1.8	-2.1691 µg/L	-2.1691 ppb	09:19:13
3	U 409.014†	163.1	14.8	1.5385 µg/L	1.5385 ppb	09:18:52
3	V 292.402†	-164.2	-15.7	-0.1969 µg/L	-0.1969 ppb	09:18:52
3	Zn 213.857†	605.5	-20.7	-0.5791 µg/L	-0.5791 ppb	09:19:13

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1697597.6	102.17 %		0.513			0.50%
Sc RADIAL	110506.6	99.9 %		0.48			0.48%
Y 371.029	957668.9	102.18 %		0.427			0.42%
Ag 328.068†	50.4	0.4682 µg/L		0.60152	0.4682 ppb	0.60152	128.48%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-77.4	-40.975 µg/L		7.3155	-40.975 ppb	7.3155	17.85%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-0.7	-1.3113 µg/L		4.41079	-1.3113 ppb	4.41079	336.37%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	15.1	0.8440 µg/L		0.24445	0.8440 ppb	0.24445	28.96%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-0.4	-0.0115 µg/L		0.04048	-0.0115 ppb	0.04048	352.67%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-28.5	-0.0215 µg/L		0.04664	-0.0215 ppb	0.04664	216.85%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-81.9	-27.951 µg/L		2.8746	-27.951 ppb	2.8746	10.28%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	-0.5	-0.0122 µg/L		0.09245	-0.0122 ppb	0.09245	759.58%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-0.3	-0.0142 µg/L		0.34213	-0.0142 ppb	0.34213	>999.9%

Cr	267.716†	-13.3	-0.3567 µg/L	0.03702	-0.3567 ppb	0.03702	10.38%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	51.6	0.3875 µg/L	0.01777	0.3875 ppb	0.01777	4.59%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-2.1	-14.459 µg/L	8.3627	-14.459 ppb	8.3627	57.84%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	9.1	5.4057 µg/L	17.50681	5.4057 ppb	17.50681	323.86%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-3.8	-37.244 µg/L	19.9500	-37.244 ppb	19.9500	53.57%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	105.5	0.4006 µg/L	0.06786	0.4006 ppb	0.06786	16.94%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	10.7	1.2953 µg/L	0.34196	1.2953 ppb	0.34196	26.40%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-71.8	-22.171 µg/L	5.0772	-22.171 ppb	5.0772	22.90%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-0.7	-0.0521 µg/L	0.01201	-0.0521 ppb	0.01201	23.05%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-4.2	-9.4294 µg/L	13.90663	-9.4294 ppb	13.90663	147.48%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	2.1	0.7089 µg/L	1.05944	0.7089 ppb	1.05944	149.44%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.5	-1.9482 µg/L	26.45098	-1.9482 ppb	26.45098	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	1.3	1.5215 µg/L	5.24763	1.5215 ppb	5.24763	344.89%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-0.8	-1.0310 µg/L	5.15659	-1.0310 ppb	5.15659	500.14%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		79.9	18.274 µg/L	5.1714	18.274 ppb	5.1714	28.30%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	111.2	9.5385 µg/L	1.86704	9.5385 ppb	1.86704	19.57%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	5.0	2.4335 µg/L	1.41843	2.4335 ppb	1.41843	58.29%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-5.6	-0.0234 µg/L	0.10517	-0.0234 ppb	0.10517	448.79%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	172.9	0.4888 µg/L	0.14614	0.4888 ppb	0.14614	29.90%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-1.2	-1.4983 µg/L	2.87138	-1.4983 ppb	2.87138	191.64%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-27.8	-2.8910 µg/L	3.87798	-2.8910 ppb	3.87798	134.14%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-19.2	-0.2496 µg/L	0.26649	-0.2496 ppb	0.26649	106.78%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-14.9	-0.4164 µg/L	0.18953	-0.4164 ppb	0.18953	45.52%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 30

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 09:48:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	113225.6	113225.6	102 %		09:49:26
1	Al 396.153Radial†	9823.6	9666.8	5106.5 µg/L	5106.5 ppb	09:49:26
1	Ca 317.933Radial†	15862.5	15006.2	5122.8 µg/L	5122.8 ppb	09:49:26
1	Fe 238.204 Radial†	732.7	682.4	4734.7 µg/L	4734.7 ppb	09:49:46
1	K 766.490 Radial†	9035.4	8577.5	5095.6 µg/L	5095.6 ppb	09:49:26
1	Mg 279.077 IEC†	523.3	497.8	4925.6 µg/L	4925.6 ppb	09:49:46
1	Na 589.592 Radial†	30662.8	29636.1	9147.7 µg/L	9147.7 ppb	09:49:26
1	Sr 421.552†	114492.9	111704.4	464.60 µg/L	464.60 ppb	09:49:26
1	Sc 361.383	1706498.8	1706498.8	102.70 %		09:50:50
1	Y 371.029	964395.6	964395.6	102.90 %		09:50:50
1	Ag 328.068†	54219.6	53309.2	502.43 µg/L	502.43 ppb	09:50:55
1	As 188.979†	273.0	273.5	523.87 µg/L	523.87 ppb	09:51:16
1	B 249.677†	9417.1	9002.3	496.27 µg/L	496.27 ppb	09:50:55
1	Ba 233.527†	19192.2	18697.0	506.71 µg/L	506.71 ppb	09:50:55
1	Be 313.107†	692477.5	675911.5	504.74 µg/L	504.74 ppb	09:50:50
1	Cd 226.502†	17002.5	16695.4	505.98 µg/L	505.98 ppb	09:50:55
1	Co 228.616†	9645.9	9365.0	509.74 µg/L	509.74 ppb	09:50:55
1	Cr 267.716†	19510.6	18927.7	506.37 µg/L	506.37 ppb	09:50:55
1	Cu 324.752†	70998.9	66499.0	504.28 µg/L	504.28 ppb	09:50:55
1	Mn 257.610†	137619.9	134572.2	508.89 µg/L	508.89 ppb	09:50:55
1	Mo 202.031†	4494.1	4373.3	527.87 µg/L	527.87 ppb	09:51:16
1	Ni 231.604†	7767.8	7267.9	530.58 µg/L	530.58 ppb	09:50:55
1	P 214.914†	1420.8	1142.1	2545.7 µg/L	2545.7 ppb	09:51:16
1	Pb 220.353†	1653.8	1575.5	524.83 µg/L	524.83 ppb	09:51:16
1	S 181.975 Axial†	288.3	260.1	1079.3 µg/L	1079.3 ppb	09:51:16
1	Sb 206.836†	487.5	455.5	519.92 µg/L	519.92 ppb	09:51:16
1	Se 196.026†	435.0	409.2	541.46 µg/L	541.46 ppb	09:51:16
1	SiO2†	25770.8	23687.6	5418.8 µg/L	5418.8 ppb	09:50:55
1	Si 251.611†	30809.1	29613.8	2539.7 µg/L	2539.7 ppb	09:50:55
1	Sn 189.927†	1112.6	1082.3	533.22 µg/L	533.22 ppb	09:51:16
1	Ti 334.940†	185099.7	180231.3	506.69 µg/L	506.69 ppb	09:50:50
1	Tl 190.801†	410.1	425.8	524.74 µg/L	524.74 ppb	09:51:16
1	U 409.014†	5052.4	4775.1	495.54 µg/L	495.54 ppb	09:50:55
1	V 292.402†	38814.5	37936.8	510.09 µg/L	510.09 ppb	09:50:55
1	Zn 213.857†	19346.4	18226.2	508.89 µg/L	508.89 ppb	09:50:55
2	Sc RADIAL	112166.5	112166.5	101 %		09:49:51
2	Al 396.153Radial†	9678.4	9614.3	5078.7 µg/L	5078.7 ppb	09:49:51
2	Ca 317.933Radial†	15604.7	14898.3	5085.9 µg/L	5085.9 ppb	09:49:51
2	Fe 238.204 Radial†	737.0	693.4	4811.1 µg/L	4811.1 ppb	09:50:12
2	K 766.490 Radial†	8806.9	8435.4	5011.3 µg/L	5011.3 ppb	09:49:51
2	Mg 279.077 IEC†	522.1	501.4	4961.6 µg/L	4961.6 ppb	09:50:12
2	Na 589.592 Radial†	30427.5	29687.0	9163.4 µg/L	9163.4 ppb	09:49:51
2	Sr 421.552†	113227.9	111512.9	463.80 µg/L	463.80 ppb	09:49:51
2	Sc 361.383	1710159.3	1710159.3	102.92 %		09:51:22
2	Y 371.029	963488.4	963488.4	102.80 %		09:51:22
2	Ag 328.068†	54265.3	53240.6	501.79 µg/L	501.79 ppb	09:51:28
2	As 188.979†	272.2	272.1	521.31 µg/L	521.31 ppb	09:51:49
2	B 249.677†	9396.0	8962.1	494.01 µg/L	494.01 ppb	09:51:28
2	Ba 233.527†	19199.0	18663.5	505.80 µg/L	505.80 ppb	09:51:28
2	Be 313.107†	690994.9	673027.8	502.58 µg/L	502.58 ppb	09:51:22
2	Cd 226.502†	16992.6	16650.4	504.60 µg/L	504.60 ppb	09:51:28
2	Co 228.616†	9654.7	9353.5	509.11 µg/L	509.11 ppb	09:51:28
2	Cr 267.716†	19471.7	18849.2	504.27 µg/L	504.27 ppb	09:51:28
2	Cu 324.752†	71005.7	66357.6	503.22 µg/L	503.22 ppb	09:51:28
2	Mn 257.610†	137190.0	133867.7	506.23 µg/L	506.23 ppb	09:51:28
2	Mo 202.031†	4465.5	4336.2	523.39 µg/L	523.39 ppb	09:51:49
2	Ni 231.604†	7726.7	7211.9	526.48 µg/L	526.48 ppb	09:51:28
2	P 214.914†	1418.8	1137.2	2534.3 µg/L	2534.3 ppb	09:51:49
2	Pb 220.353†	1641.4	1559.9	519.63 µg/L	519.63 ppb	09:51:49

2	S 181.975 Axial†	278.4	249.9	1036.9 µg/L	1036.9 ppb	09:51:49
2	Sb 206.836†	483.1	450.2	513.86 µg/L	513.86 ppb	09:51:49
2	Se 196.026†	432.1	405.4	536.82 µg/L	536.82 ppb	09:51:49
2	SiO2†	25865.7	23726.2	5427.6 µg/L	5427.6 ppb	09:51:28
2	Si 251.611†	30925.8	29662.9	2543.9 µg/L	2543.9 ppb	09:51:28
2	Sn 189.927†	1097.0	1064.8	524.59 µg/L	524.59 ppb	09:51:49
2	Ti 334.940†	184805.9	179560.2	504.80 µg/L	504.80 ppb	09:51:22
2	Tl 190.801†	400.3	415.4	512.01 µg/L	512.01 ppb	09:51:49
2	U 409.014†	5023.9	4736.9	491.55 µg/L	491.55 ppb	09:51:28
2	V 292.402†	38787.8	37829.9	508.63 µg/L	508.63 ppb	09:51:28
2	Zn 213.857†	19361.0	18200.1	508.17 µg/L	508.17 ppb	09:51:28
3	Sc RADIAL	113297.9	113297.9	102 %		09:50:18
3	Al 396.153Radial†	9759.8	9598.4	5071.8 µg/L	5071.8 ppb	09:50:18
3	Ca 317.933Radial†	15817.5	14952.5	5104.4 µg/L	5104.4 ppb	09:50:18
3	Fe 238.204 Radial†	737.2	686.3	4761.3 µg/L	4761.3 ppb	09:50:38
3	K 766.490 Radial†	8925.4	8464.5	5028.5 µg/L	5028.5 ppb	09:50:18
3	Mg 279.077 IEC†	525.0	499.1	4937.8 µg/L	4937.8 ppb	09:50:38
3	Na 589.592 Radial†	30486.4	29444.8	9088.6 µg/L	9088.6 ppb	09:50:18
3	Sr 421.552†	113896.3	111050.5	461.88 µg/L	461.88 ppb	09:50:18
3	Sc 361.383	1702982.5	1702982.5	102.49 %		09:51:55
3	Y 371.029	957820.3	957820.3	102.20 %		09:51:55
3	Ag 328.068†	52383.5	51626.8	486.48 µg/L	486.48 ppb	09:52:01
3	As 188.979†	241.9	243.7	466.91 µg/L	466.91 ppb	09:52:22
3	B 249.677†	9073.7	8686.1	478.71 µg/L	478.71 ppb	09:52:01
3	Ba 233.527†	18248.9	17815.1	482.80 µg/L	482.80 ppb	09:52:01
3	Be 313.107†	663603.8	649132.2	484.74 µg/L	484.74 ppb	09:51:55
3	Cd 226.502†	16122.6	15871.0	480.96 µg/L	480.96 ppb	09:52:01
3	Co 228.616†	9082.3	8834.5	480.81 µg/L	480.81 ppb	09:52:01
3	Cr 267.716†	18010.6	17503.4	468.27 µg/L	468.27 ppb	09:52:01
3	Cu 324.752†	67046.7	62785.6	476.17 µg/L	476.17 ppb	09:52:01
3	Mn 257.610†	128997.5	126436.2	478.12 µg/L	478.12 ppb	09:52:01
3	Mo 202.031†	3855.0	3758.8	453.72 µg/L	453.72 ppb	09:52:22
3	Ni 231.604†	7274.5	6802.3	496.58 µg/L	496.58 ppb	09:52:01
3	P 214.914†	1270.6	998.4	2221.1 µg/L	2221.1 ppb	09:52:22
3	Pb 220.353†	1468.8	1398.3	465.70 µg/L	465.70 ppb	09:52:22
3	S 181.975 Axial†	257.4	230.5	956.43 µg/L	956.43 ppb	09:52:22
3	Sb 206.836†	436.5	406.7	463.74 µg/L	463.74 ppb	09:52:22
3	Se 196.026†	391.8	367.9	488.08 µg/L	488.08 ppb	09:52:22
3	SiO2†	24887.7	22877.9	5233.5 µg/L	5233.5 ppb	09:52:01
3	Si 251.611†	29647.2	28542.1	2447.8 µg/L	2447.8 ppb	09:52:01
3	Sn 189.927†	942.1	918.2	452.41 µg/L	452.41 ppb	09:52:22
3	Ti 334.940†	177149.0	172846.1	485.91 µg/L	485.91 ppb	09:51:55
3	Tl 190.801†	376.0	393.4	484.89 µg/L	484.89 ppb	09:52:22
3	U 409.014†	4548.7	4293.9	445.49 µg/L	445.49 ppb	09:52:01
3	V 292.402†	36224.5	35487.8	476.83 µg/L	476.83 ppb	09:52:01
3	Zn 213.857†	18199.7	17146.2	478.72 µg/L	478.72 ppb	09:52:01

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1706546.9	102.71 %	0.216			0.21%
Sc RADIAL	112896.7	102 %	0.6			0.56%
Y 371.029	961901.4	102.63 %	0.380			0.37%
Ag 328.068†	52725.5	496.90 µg/L	9.026	496.90 ppb	9.026	1.82%
QC value within limits for Ag 328.068 Recovery = 99.38%						
Al 396.153Radial†	9626.5	5085.7 µg/L	18.35	5085.7 ppb	18.35	0.36%
QC value within limits for Al 396.153Radial Recovery = 101.71%						
As 188.979†	263.1	504.03 µg/L	32.170	504.03 ppb	32.170	6.38%
QC value within limits for As 188.979 Recovery = 100.81%						
B 249.677†	8883.5	489.66 µg/L	9.553	489.66 ppb	9.553	1.95%
QC value within limits for B 249.677 Recovery = 97.93%						
Ba 233.527†	18391.9	498.44 µg/L	13.553	498.44 ppb	13.553	2.72%
QC value within limits for Ba 233.527 Recovery = 99.69%						
Be 313.107†	666023.8	497.35 µg/L	10.977	497.35 ppb	10.977	2.21%
QC value within limits for Be 313.107 Recovery = 99.47%						
Ca 317.933Radial†	14952.3	5104.4 µg/L	18.42	5104.4 ppb	18.42	0.36%
QC value within limits for Ca 317.933Radial Recovery = 102.09%						
Cd 226.502†	16405.6	497.18 µg/L	14.065	497.18 ppb	14.065	2.83%
QC value within limits for Cd 226.502 Recovery = 99.44%						
Co 228.616†	9184.3	499.89 µg/L	16.526	499.89 ppb	16.526	3.31%

QC value within limits for Co 228.616 Recovery = 99.98%					
Cr 267.716†	18426.8	492.97 µg/L	21.416	492.97 ppb	21.416 4.34%
QC value within limits for Cr 267.716 Recovery = 98.59%					
Cu 324.752†	65214.1	494.56 µg/L	15.930	494.56 ppb	15.930 3.22%
QC value within limits for Cu 324.752 Recovery = 98.91%					
Fe 238.204 Radial†	687.4	4769.1 µg/L	38.78	4769.1 ppb	38.78 0.81%
QC value within limits for Fe 238.204 Radial Recovery = 95.38%					
K 766.490 Radial†	8492.5	5045.1 µg/L	44.58	5045.1 ppb	44.58 0.88%
QC value within limits for K 766.490 Radial Recovery = 100.90%					
Mg 279.077 IEC†	499.5	4941.7 µg/L	18.33	4941.7 ppb	18.33 0.37%
QC value within limits for Mg 279.077 IEC Recovery = 98.83%					
Mn 257.610†	131625.4	497.75 µg/L	17.048	497.75 ppb	17.048 3.43%
QC value within limits for Mn 257.610 Recovery = 99.55%					
Mo 202.031†	4156.1	501.66 µg/L	41.575	501.66 ppb	41.575 8.29%
QC value within limits for Mo 202.031 Recovery = 100.33%					
Na 589.592 Radial†	29589.3	9133.2 µg/L	39.41	9133.2 ppb	39.41 0.43%
QC value within limits for Na 589.592 Radial Recovery = 91.33%					
Ni 231.604†	7094.0	517.88 µg/L	18.557	517.88 ppb	18.557 3.58%
QC value within limits for Ni 231.604 Recovery = 103.58%					
P 214.914†	1092.6	2433.7 µg/L	184.23	2433.7 ppb	184.23 7.57%
QC value within limits for P 214.914 Recovery = 97.35%					
Pb 220.353†	1511.2	503.39 µg/L	32.741	503.39 ppb	32.741 6.50%
QC value within limits for Pb 220.353 Recovery = 100.68%					
S 181.975 Axial†	246.9	1024.2 µg/L	62.42	1024.2 ppb	62.42 6.09%
QC value within limits for S 181.975 Axial Recovery = 102.42%					
Sb 206.836†	437.5	499.17 µg/L	30.833	499.17 ppb	30.833 6.18%
QC value within limits for Sb 206.836 Recovery = 99.83%					
Se 196.026†	394.2	522.12 µg/L	29.571	522.12 ppb	29.571 5.66%
QC value within limits for Se 196.026 Recovery = 104.42%					
SiO2†	23430.6	5360.0 µg/L	109.58	5360.0 ppb	109.58 2.04%
QC value within limits for SiO2 Recovery = 100.23%					
Si 251.611†	29272.9	2510.5 µg/L	54.32	2510.5 ppb	54.32 2.16%
QC value within limits for Si 251.611 Recovery = 100.42%					
Sn 189.927†	1021.8	503.40 µg/L	44.375	503.40 ppb	44.375 8.81%
QC value within limits for Sn 189.927 Recovery = 100.68%					
Sr 421.552†	111422.6	463.42 µg/L	1.398	463.42 ppb	1.398 0.30%
QC value within limits for Sr 421.552 Recovery = 92.68%					
Ti 334.940†	177545.9	499.13 µg/L	11.488	499.13 ppb	11.488 2.30%
QC value within limits for Ti 334.940 Recovery = 99.83%					
Tl 190.801†	411.6	507.22 µg/L	20.353	507.22 ppb	20.353 4.01%
QC value within limits for Tl 190.801 Recovery = 101.44%					
U 409.014†	4602.0	477.53 µg/L	27.813	477.53 ppb	27.813 5.82%
QC value within limits for U 409.014 Recovery = 95.51%					
V 292.402†	37084.8	498.52 µg/L	18.793	498.52 ppb	18.793 3.77%
QC value within limits for V 292.402 Recovery = 99.70%					
Zn 213.857†	17857.5	498.60 µg/L	17.218	498.60 ppb	17.218 3.45%
QC value within limits for Zn 213.857 Recovery = 99.72%					
All analyte(s) passed QC.					

Sequence No.: 31

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 09:52:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	109803.6	109803.6	99.3 %		09:53:04
1	Al 396.153Radial†	-154.5	-85.5	-45.261 µg/L	-45.261 ppb	09:53:04
1	Ca 317.933Radial†	390.2	-96.8	-33.028 µg/L	-33.028 ppb	09:53:25
1	Fe 238.204 Radial†	34.2	1.1	7.4515 µg/L	7.4515 ppb	09:53:25
1	K 766.490 Radial†	349.2	102.5	60.906 µg/L	60.906 ppb	09:53:04
1	Mg 279.077 IEC†	7.3	-6.1	-60.232 µg/L	-60.232 ppb	09:53:25
1	Na 589.592 Radial†	200.5	-116.4	-35.931 µg/L	-35.931 ppb	09:53:04
1	Sr 421.552†	176.5	34.0	0.1414 µg/L	0.1414 ppb	09:53:04
1	Sc 361.383	1701237.0	1701237.0	102.39 %		09:54:27
1	Y 371.029	961883.5	961883.5	102.63 %		09:54:27
1	Ag 328.068†	-516.4	13.0	0.1215 µg/L	0.1215 ppb	09:54:32
1	As 188.979†	-5.9	1.9	3.6423 µg/L	3.6423 ppb	09:54:53
1	B 249.677†	192.5	21.1	1.1656 µg/L	1.1656 ppb	09:54:53
1	Ba 233.527†	-7.4	2.8	0.0764 µg/L	0.0764 ppb	09:54:53
1	Be 313.107†	-1797.8	-87.9	-0.0657 µg/L	-0.0657 ppb	09:54:32
1	Cd 226.502†	-140.1	3.7	0.1119 µg/L	0.1119 ppb	09:54:53
1	Co 228.616†	23.8	-3.6	-0.1968 µg/L	-0.1968 ppb	09:54:53
1	Cr 267.716†	64.2	-6.5	-0.1726 µg/L	-0.1726 ppb	09:54:53
1	Cu 324.752†	2617.1	-74.4	-0.5615 µg/L	-0.5615 ppb	09:54:32
1	Mn 257.610†	-566.3	23.0	0.0914 µg/L	0.0914 ppb	09:54:53
1	Mo 202.031†	13.2	10.5	1.2680 µg/L	1.2680 ppb	09:54:53
1	Ni 231.604†	300.1	-2.2	-0.1605 µg/L	-0.1605 ppb	09:54:53
1	P 214.914†	239.9	-7.0	-15.869 µg/L	-15.869 ppb	09:54:53
1	Pb 220.353†	20.7	-14.5	-4.8322 µg/L	-4.8322 ppb	09:54:53
1	S 181.975 Axial†	18.9	-2.1	-8.7271 µg/L	-8.7271 ppb	09:54:53
1	Sb 206.836†	22.4	2.7	3.0983 µg/L	3.0983 ppb	09:54:53
1	Se 196.026†	15.4	0.7	0.9894 µg/L	0.9894 ppb	09:54:53
1	SiO2†	1454.3	15.9	3.6370 µg/L	3.6370 ppb	09:54:32
1	Si 251.611†	443.7	49.3	4.2294 µg/L	4.2294 ppb	09:54:53
1	Sn 189.927†	3.0	1.9	0.9192 µg/L	0.9192 ppb	09:54:53
1	Ti 334.940†	67.2	71.3	0.2047 µg/L	0.2047 ppb	09:54:32
1	Tl 190.801†	-26.5	0.6	0.7720 µg/L	0.7720 ppb	09:54:53
1	U 409.014†	69.4	-76.5	-7.9523 µg/L	-7.9523 ppb	09:54:32
1	V 292.402†	-157.4	-9.4	-0.1234 µg/L	-0.1234 ppb	09:54:32
1	Zn 213.857†	573.0	-51.2	-1.4344 µg/L	-1.4344 ppb	09:54:53
2	Sc RADIAL	110906.9	110906.9	100 %		09:53:30
2	Al 396.153Radial†	-153.8	-83.2	-44.083 µg/L	-44.083 ppb	09:53:30
2	Ca 317.933Radial†	392.0	-98.8	-33.735 µg/L	-33.735 ppb	09:53:50
2	Fe 238.204 Radial†	34.3	0.7	5.1781 µg/L	5.1781 ppb	09:53:50
2	K 766.490 Radial†	272.4	22.4	13.316 µg/L	13.316 ppb	09:53:30
2	Mg 279.077 IEC†	11.6	-1.8	-17.810 µg/L	-17.810 ppb	09:53:50
2	Na 589.592 Radial†	211.9	-107.0	-33.023 µg/L	-33.023 ppb	09:53:30
2	Sr 421.552†	151.1	7.0	0.0289 µg/L	0.0289 ppb	09:53:30
2	Sc 361.383	1700920.9	1700920.9	102.37 %		09:54:59
2	Y 371.029	959556.9	959556.9	102.38 %		09:54:59
2	Ag 328.068†	-475.9	52.4	0.4912 µg/L	0.4912 ppb	09:55:04
2	As 188.979†	-2.3	5.4	10.283 µg/L	10.283 ppb	09:55:25
2	B 249.677†	182.7	11.6	0.6368 µg/L	0.6368 ppb	09:55:25
2	Ba 233.527†	-10.0	0.3	0.0083 µg/L	0.0083 ppb	09:55:25
2	Be 313.107†	-1760.6	-51.9	-0.0388 µg/L	-0.0388 ppb	09:55:04
2	Cd 226.502†	-148.1	-4.1	-0.1241 µg/L	-0.1241 ppb	09:55:25
2	Co 228.616†	19.6	-7.7	-0.4207 µg/L	-0.4207 ppb	09:55:25
2	Cr 267.716†	57.1	-13.4	-0.3571 µg/L	-0.3571 ppb	09:55:25
2	Cu 324.752†	2642.8	-48.8	-0.3686 µg/L	-0.3686 ppb	09:55:04
2	Mn 257.610†	-554.4	34.5	0.1319 µg/L	0.1319 ppb	09:55:25
2	Mo 202.031†	19.1	16.2	1.9593 µg/L	1.9593 ppb	09:55:25
2	Ni 231.604†	298.1	-4.1	-0.2980 µg/L	-0.2980 ppb	09:55:25
2	P 214.914†	235.2	-11.5	-26.042 µg/L	-26.042 ppb	09:55:25
2	Pb 220.353†	33.7	-1.8	-0.6163 µg/L	-0.6163 ppb	09:55:25

2	S 181.975 Axial†	22.5	1.4	5.9241 µg/L	5.9241 ppb	09:55:25
2	Sb 206.836†	20.6	1.0	1.1227 µg/L	1.1227 ppb	09:55:25
2	Se 196.026†	11.4	-3.2	-4.1546 µg/L	-4.1546 ppb	09:55:25
2	SiO2†	1494.9	55.8	12.759 µg/L	12.759 ppb	09:55:04
2	Si 251.611†	467.4	72.5	6.2192 µg/L	6.2192 ppb	09:55:25
2	Sn 189.927†	4.2	3.1	1.5253 µg/L	1.5253 ppb	09:55:25
2	Ti 334.940†	55.1	59.4	0.1680 µg/L	0.1680 ppb	09:55:04
2	Tl 190.801†	-26.8	0.3	0.4439 µg/L	0.4439 ppb	09:55:25
2	U 409.014†	215.4	66.2	6.8857 µg/L	6.8857 ppb	09:55:04
2	V 292.402†	-142.4	5.2	0.0907 µg/L	0.0907 ppb	09:55:04
2	Zn 213.857†	566.9	-57.0	-1.6001 µg/L	-1.6001 ppb	09:55:25
3	Sc RADIAL	110426.9	110426.9	99.8 %		09:53:56
3	Al 396.153Radial†	-170.9	-101.1	-53.519 µg/L	-53.519 ppb	09:53:56
3	Ca 317.933Radial†	388.9	-100.2	-34.218 µg/L	-34.218 ppb	09:54:16
3	Fe 238.204 Radial†	32.7	-0.6	-4.2800 µg/L	-4.2800 ppb	09:54:16
3	K 766.490 Radial†	311.8	63.2	37.520 µg/L	37.520 ppb	09:53:56
3	Mg 279.077 IEC†	11.9	-1.5	-14.766 µg/L	-14.766 ppb	09:54:16
3	Na 589.592 Radial†	236.1	-81.8	-25.264 µg/L	-25.264 ppb	09:53:56
3	Sr 421.552†	197.1	53.7	0.2232 µg/L	0.2232 ppb	09:53:56
3	Sc 361.383	1697873.0	1697873.0	102.19 %		09:55:31
3	Y 371.029	957236.6	957236.6	102.13 %		09:55:31
3	Ag 328.068†	-455.4	71.7	0.6658 µg/L	0.6658 ppb	09:55:36
3	As 188.979†	-6.1	1.7	3.2777 µg/L	3.2777 ppb	09:55:57
3	B 249.677†	167.6	-2.8	-0.1550 µg/L	-0.1550 ppb	09:55:57
3	Ba 233.527†	-6.2	4.0	0.1074 µg/L	0.1074 ppb	09:55:57
3	Be 313.107†	-1687.7	16.4	0.0121 µg/L	0.0121 ppb	09:55:36
3	Cd 226.502†	-151.2	-7.3	-0.2222 µg/L	-0.2222 ppb	09:55:57
3	Co 228.616†	28.7	1.2	0.0674 µg/L	0.0674 ppb	09:55:57
3	Cr 267.716†	79.2	8.4	0.2234 µg/L	0.2234 ppb	09:55:57
3	Cu 324.752†	2596.6	-89.4	-0.6773 µg/L	-0.6773 ppb	09:55:36
3	Mn 257.610†	-562.1	26.0	0.0991 µg/L	0.0991 ppb	09:55:57
3	Mo 202.031†	9.2	6.6	0.7915 µg/L	0.7915 ppb	09:55:57
3	Ni 231.604†	296.4	-5.3	-0.3857 µg/L	-0.3857 ppb	09:55:57
3	P 214.914†	235.9	-10.5	-23.679 µg/L	-23.679 ppb	09:55:57
3	Pb 220.353†	33.2	-2.3	-0.7557 µg/L	-0.7557 ppb	09:55:57
3	S 181.975 Axial†	22.0	0.9	3.7422 µg/L	3.7422 ppb	09:55:57
3	Sb 206.836†	22.5	2.8	3.2074 µg/L	3.2074 ppb	09:55:57
3	Se 196.026†	11.3	-3.3	-4.2595 µg/L	-4.2595 ppb	09:55:57
3	SiO2†	1468.5	32.6	7.4621 µg/L	7.4621 ppb	09:55:36
3	Si 251.611†	475.7	81.5	6.9895 µg/L	6.9895 ppb	09:55:57
3	Sn 189.927†	6.5	5.4	2.6349 µg/L	2.6349 ppb	09:55:57
3	Ti 334.940†	124.9	127.8	0.3601 µg/L	0.3601 ppb	09:55:36
3	Tl 190.801†	-26.3	0.8	0.9855 µg/L	0.9855 ppb	09:55:57
3	U 409.014†	183.8	35.6	3.7063 µg/L	3.7063 ppb	09:55:36
3	V 292.402†	-192.8	-44.4	-0.5792 µg/L	-0.5792 ppb	09:55:36
3	Zn 213.857†	570.0	-53.0	-1.4858 µg/L	-1.4858 ppb	09:55:57

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1700010.3	102.31 %	0.112			0.11%
Sc RADIAL	110379.1	99.8 %	0.50			0.50%
Y 371.029	959559.0	102.38 %	0.248			0.24%
Ag 328.068†	45.7	0.4262 µg/L	0.27793	0.4262 ppb	0.27793	65.22%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-89.9	-47.621 µg/L	5.1415	-47.621 ppb	5.1415	10.80%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.0	5.7342 µg/L	3.94328	5.7342 ppb	3.94328	68.77%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	10.0	0.5491 µg/L	0.66462	0.5491 ppb	0.66462	121.03%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.4	0.0640 µg/L	0.05071	0.0640 ppb	0.05071	79.21%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-41.1	-0.0308 µg/L	0.03952	-0.0308 ppb	0.03952	128.27%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-98.6	-33.660 µg/L	0.5986	-33.660 ppb	0.5986	1.78%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-2.6	-0.0781 µg/L	0.17177	-0.0781 ppb	0.17177	219.83%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-3.4	-0.1834 µg/L	0.24432	-0.1834 ppb	0.24432	133.24%

Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated		
		-3.8	-0.1021 µg/L	0.29658	-0.1021 ppb
				0.29658	290.48%
Cu	324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated		
		-70.9	-0.5358 µg/L	0.15595	-0.5358 ppb
				0.15595	29.11%
Fe	238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated		
		0.4	2.7832 µg/L	6.22165	2.7832 ppb
				6.22165	223.54%
K	766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
		62.7	37.247 µg/L	23.7961	37.247 ppb
				23.7961	63.89%
Mg	279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated		
		-3.1	-30.936 µg/L	25.4169	-30.936 ppb
				25.4169	82.16%
Mn	257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
		27.8	0.1075 µg/L	0.02150	0.1075 ppb
				0.02150	20.00%
Mo	202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated		
		11.1	1.3396 µg/L	0.58718	1.3396 ppb
				0.58718	43.83%
Na	589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated		
		-101.7	-31.406 µg/L	5.5141	-31.406 ppb
				5.5141	17.56%
Ni	231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
		-3.9	-0.2814 µg/L	0.11353	-0.2814 ppb
				0.11353	40.35%
P	214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated		
		-9.7	-21.863 µg/L	5.3240	-21.863 ppb
				5.3240	24.35%
Pb	220.353†	QC value within limits for P 214.914	Recovery = Not calculated		
		-6.2	-2.0681 µg/L	2.39480	-2.0681 ppb
				2.39480	115.80%
S	181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated		
		0.1	0.3131 µg/L	7.90463	0.3131 ppb
				7.90463	>999.9%
Sb	206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated		
		2.2	2.4761 µg/L	1.17340	2.4761 ppb
				1.17340	47.39%
Se	196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated		
		-1.9	-2.4749 µg/L	3.00062	-2.4749 ppb
				3.00062	121.24%
SiO2†		QC value within limits for Se 196.026	Recovery = Not calculated		
		34.8	7.9526 µg/L	4.58049	7.9526 ppb
				4.58049	57.60%
Si	251.611†	QC value within limits for SiO2	Recovery = Not calculated		
		67.8	5.8127 µg/L	1.42422	5.8127 ppb
				1.42422	24.50%
Sn	189.927†	QC value within limits for Si 251.611	Recovery = Not calculated		
		3.4	1.6931 µg/L	0.87004	1.6931 ppb
				0.87004	51.39%
Sr	421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated		
		31.5	0.1312 µg/L	0.09754	0.1312 ppb
				0.09754	74.37%
Ti	334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated		
		86.2	0.2443 µg/L	0.10201	0.2443 ppb
				0.10201	41.76%
Tl	190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated		
		0.6	0.7338 µg/L	0.27279	0.7338 ppb
				0.27279	37.17%
U	409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated		
		8.4	0.8799 µg/L	7.81237	0.8799 ppb
				7.81237	887.90%
V	292.402†	QC value within limits for U 409.014	Recovery = Not calculated		
		-16.2	-0.2039 µg/L	0.34214	-0.2039 ppb
				0.34214	167.77%
Zn	213.857†	QC value within limits for V 292.402	Recovery = Not calculated		
		-53.7	-1.5068 µg/L	0.08484	-1.5068 ppb
				0.08484	5.63%

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 32

Sample ID: 1202042576|952953|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 326

Date Collected: 2/26/2010 09:56:07

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042576|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110446.9	110446.9	99.9 %		09:56:43
1	Al 396.153Radial†	-94.9	-24.9	-13.207 µg/L	-13.207 ppb	09:56:43
1	Ca 317.933Radial†	599.4	110.5	37.719 µg/L	37.719 ppb	09:57:03
1	Fe 238.204 Radial†	51.4	18.0	124.74 µg/L	124.74 ppb	09:57:03
1	K 766.490 Radial†	324.0	75.3	44.726 µg/L	44.726 ppb	09:56:43
1	Mg 279.077 IEC†	14.5	1.2	11.405 µg/L	11.405 ppb	09:57:03
1	Na 589.592 Radial†	351.9	34.1	10.521 µg/L	10.521 ppb	09:56:43
1	Sr 421.552†	248.6	105.2	0.4374 µg/L	0.4374 ppb	09:56:43
1	Sc 361.383	1689260.6	1689260.6	101.67 %		09:58:05
1	Y 371.029	952247.4	952247.4	101.60 %		09:58:05
1	Ag 328.068†	-505.5	20.1	0.2056 µg/L	0.2056 ppb	09:58:10
1	As 188.979†	-6.1	1.6	3.0847 µg/L	3.0847 ppb	09:58:31
1	B 249.677†	193.1	23.0	1.2083 µg/L	1.2083 ppb	09:58:31
1	Ba 233.527†	216.0	222.6	6.0222 µg/L	6.0222 ppb	09:58:31
1	Be 313.107†	-1780.9	-83.7	-0.0631 µg/L	-0.0631 ppb	09:58:10
1	Cd 226.502†	-134.5	8.3	0.2377 µg/L	0.2377 ppb	09:58:31
1	Co 228.616†	21.5	-5.7	-0.3145 µg/L	-0.3145 ppb	09:58:31
1	Cr 267.716†	83.5	13.0	0.3477 µg/L	0.3477 ppb	09:58:31
1	Cu 324.752†	4159.4	1460.7	11.081 µg/L	11.081 ppb	09:58:10
1	Mn 257.610†	-117.5	460.5	1.7482 µg/L	1.7482 ppb	09:58:31
1	Mo 202.031†	7.8	5.3	0.6434 µg/L	0.6434 ppb	09:58:31
1	Ni 231.604†	309.4	9.0	0.6631 µg/L	0.6631 ppb	09:58:31
1	P 214.914†	242.9	-2.3	-6.3393 µg/L	-6.3393 ppb	09:58:31
1	Pb 220.353†	65.1	29.2	9.7058 µg/L	9.7058 ppb	09:58:31
1	S 181.975 Axial†	20.1	-0.8	-3.4853 µg/L	-3.4853 ppb	09:58:31
1	Sb 206.836†	21.0	1.5	1.7038 µg/L	1.7038 ppb	09:58:31
1	Se 196.026†	21.8	7.1	9.6075 µg/L	9.6075 ppb	09:58:31
1	SiO2†	1593.8	163.1	37.318 µg/L	37.318 ppb	09:58:10
1	Si 251.611†	621.6	227.3	19.496 µg/L	19.496 ppb	09:58:31
1	Sn 189.927†	33.4	31.8	15.661 µg/L	15.661 ppb	09:58:31
1	Ti 334.940†	519.7	516.8	1.4534 µg/L	1.4534 ppb	09:58:10
1	Tl 190.801†	-26.4	0.5	0.6952 µg/L	0.6952 ppb	09:58:31
1	U 409.014†	112.9	-33.2	-3.4732 µg/L	-3.4732 ppb	09:58:10
1	V 292.402†	-130.7	15.8	0.2162 µg/L	0.2162 ppb	09:58:10
1	Zn 213.857†	1372.5	739.2	20.761 µg/L	20.761 ppb	09:58:31
2	Sc RADIAL	111663.0	111663.0	101 %		09:57:08
2	Al 396.153Radial†	-112.3	-41.1	-21.770 µg/L	-21.770 ppb	09:57:08
2	Ca 317.933Radial†	604.2	108.7	37.091 µg/L	37.091 ppb	09:57:29
2	Fe 238.204 Radial†	50.1	16.2	112.49 µg/L	112.49 ppb	09:57:29
2	K 766.490 Radial†	219.3	-31.9	-18.978 µg/L	-18.978 ppb	09:57:08
2	Mg 279.077 IEC†	11.4	-2.1	-20.611 µg/L	-20.611 ppb	09:57:29
2	Na 589.592 Radial†	316.4	-4.9	-1.5145 µg/L	-1.5145 ppb	09:57:08
2	Sr 421.552†	253.8	107.6	0.4476 µg/L	0.4476 ppb	09:57:08
2	Sc 361.383	1698822.9	1698822.9	102.24 %		09:58:37
2	Y 371.029	955521.3	955521.3	101.95 %		09:58:37
2	Ag 328.068†	-480.4	47.4	0.4581 µg/L	0.4581 ppb	09:58:43
2	As 188.979†	-9.1	-1.2	-2.3605 µg/L	-2.3605 ppb	09:59:03
2	B 249.677†	190.9	19.9	1.0405 µg/L	1.0405 ppb	09:59:03
2	Ba 233.527†	215.3	220.7	5.9696 µg/L	5.9696 ppb	09:59:03
2	Be 313.107†	-1822.0	-114.0	-0.0858 µg/L	-0.0858 ppb	09:58:43
2	Cd 226.502†	-141.2	2.5	0.0623 µg/L	0.0623 ppb	09:59:03
2	Co 228.616†	24.2	-3.3	-0.1796 µg/L	-0.1796 ppb	09:59:03
2	Cr 267.716†	76.5	5.7	0.1515 µg/L	0.1515 ppb	09:59:03
2	Cu 324.752†	4109.2	1388.6	10.533 µg/L	10.533 ppb	09:58:43
2	Mn 257.610†	-104.5	473.9	1.8002 µg/L	1.8002 ppb	09:59:03
2	Mo 202.031†	9.7	7.1	0.8635 µg/L	0.8635 ppb	09:59:03
2	Ni 231.604†	309.6	7.6	0.5537 µg/L	0.5537 ppb	09:59:03
2	P 214.914†	243.6	-3.1	-7.9409 µg/L	-7.9409 ppb	09:59:03
2	Pb 220.353†	57.2	21.1	7.0171 µg/L	7.0171 ppb	09:59:03

Ni 231.604†	9.3	0.6798 µg/L	0.13534	0.6798 ppb	0.13534	19.91%
P 214.914†	-0.8	-2.7834 µg/L	7.58840	-2.7834 ppb	7.58840	272.63%
Pb 220.353†	29.9	9.9259 µg/L	3.02476	9.9259 ppb	3.02476	30.47%
S 181.975 Axial†	2.1	8.5206 µg/L	11.27098	8.5206 ppb	11.27098	132.28%
Sb 206.836†	0.6	0.6510 µg/L	2.06813	0.6510 ppb	2.06813	317.67%
Se 196.026†	2.1	3.0657 µg/L	11.39365	3.0657 ppb	11.39365	371.65%
SiO2†	187.7	42.930 µg/L	9.1163	42.930 ppb	9.1163	21.24%
Si 251.611†	259.7	22.272 µg/L	2.8695	22.272 ppb	2.8695	12.88%
Sn 189.927†	30.6	15.034 µg/L	0.9182	15.034 ppb	0.9182	6.11%
Sr 421.552†	113.2	0.4707 µg/L	0.04906	0.4707 ppb	0.04906	10.42%
Ti 334.940†	508.7	1.4318 µg/L	0.12359	1.4318 ppb	0.12359	8.63%
Tl 190.801†	-0.6	-0.7336 µg/L	1.72035	-0.7336 ppb	1.72035	234.52%
U 409.014†	3.1	0.3072 µg/L	3.38558	0.3072 ppb	3.38558	>999.9%
V 292.402†	11.3	0.1621 µg/L	0.06951	0.1621 ppb	0.06951	42.88%
Zn 213.857†	716.6	20.126 µg/L	0.6300	20.126 ppb	0.6300	3.13%

Sequence No.: 33
 Sample ID: 1202042581|952953|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 327
 Date Collected: 2/26/2010 09:59:44
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202042581|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	113055.9	113055.9	102 %			10:00:18
1	Al 396.153Radial†	169934.7	166328.5	88038 µg/L		88038 ppb	10:00:18
1	Ca 317.933Radial†	303274.3	296223.6	101120 µg/L		101120 ppb	10:00:18
1	Fe 238.204 Radial†	25306.0	24725.2	171190 µg/L		171190 ppb	10:00:24
1	K 766.490 Radial†	70528.5	68753.5	40844 µg/L		40844 ppb	10:00:18
1	Mg 279.077 IEC†	3823.3	3727.2	36678 µg/L		36678 ppb	10:00:24
1	Na 589.592 Radial†	30223.8	29251.6	9029.0 µg/L		9029.0 ppb	10:00:18
1	Sr 421.552†	530053.6	518442.9	2156.3 µg/L		2156.3 ppb	10:00:18
1	Sc 361.383	1672130.9	1672130.9	100.64 %			10:00:59
1	Y 371.029	964179.8	964179.8	102.87 %			10:00:59
1	Ag 328.068†	31237.0	31556.8	325.59 µg/L		325.59 ppb	10:01:05
1	As 188.979†	580.4	584.4	1125.3 µg/L		1125.3 ppb	10:01:26
1	B 249.677†	29102.6	28751.8	1505.0 µg/L		1505.0 ppb	10:01:05
1	Ba 233.527†	76548.2	76074.6	2060.3 µg/L		2060.3 ppb	10:01:05
1	Be 313.107†	1114464.5	1109089.6	826.33 µg/L		826.33 ppb	10:00:59
1	Cd 226.502†	21498.5	21503.2	633.81 µg/L		633.81 ppb	10:01:05
1	Co 228.616†	18072.1	17931.0	965.55 µg/L		965.55 ppb	10:01:05
1	Cr 267.716†	93856.8	93194.6	2492.5 µg/L		2492.5 ppb	10:01:05
1	Cu 324.752†	259051.2	254783.7	1960.9 µg/L		1960.9 ppb	10:01:05
1	Mn 257.610†	1501666.5	1492752.8	5653.2 µg/L		5653.2 ppb	10:00:59
1	Mo 202.031†	4615.9	4584.4	559.65 µg/L		559.65 ppb	10:01:26
1	Ni 231.604†	20447.5	20023.0	1464.3 µg/L		1464.3 ppb	10:01:05
1	P 214.914†	4118.9	3851.6	8444.8 µg/L		8444.8 ppb	10:01:26
1	Pb 220.353†	2790.3	2737.9	908.48 µg/L		908.48 ppb	10:01:26
1	S 181.975 Axial†	1014.8	987.8	4098.3 µg/L		4098.3 ppb	10:01:26
1	Sb 206.836†	1548.1	1519.2	1703.8 µg/L		1703.8 ppb	10:01:26
1	Se 196.026†	2288.6	2259.8	3456.7 µg/L		3456.7 ppb	10:01:26
1	SiO2†	147761.4	145423.1	33267 µg/L		33267 ppb	10:01:05
1	Si 251.611†	182468.6	180931.5	15517 µg/L		15517 ppb	10:01:05
1	Sn 189.927†	2299.6	2284.1	1118.5 µg/L		1118.5 ppb	10:01:26
1	Ti 334.940†	2067140.3	2054082.7	5776.9 µg/L		5776.9 ppb	10:00:59
1	Tl 190.801†	985.1	1005.4	1300.7 µg/L		1300.7 ppb	10:01:26
1	U 409.014†	-1781.3	-1914.3	-229.01 µg/L		-229.01 ppb	10:01:05
1	V 292.402†	95963.9	95501.8	1285.3 µg/L		1285.3 ppb	10:01:05
1	Zn 213.857†	218548.2	216556.3	6070.2 µg/L		6070.2 ppb	10:01:05
2	Sc RADIAL	112755.3	112755.3	102 %			10:00:30
2	Al 396.153Radial†	169804.6	166644.1	88205 µg/L		88205 ppb	10:00:30
2	Ca 317.933Radial†	302223.1	295983.3	101040 µg/L		101040 ppb	10:00:30
2	Fe 238.204 Radial†	25181.4	24668.9	170800 µg/L		170800 ppb	10:00:35
2	K 766.490 Radial†	70326.8	68739.6	40836 µg/L		40836 ppb	10:00:30
2	Mg 279.077 IEC†	3816.1	3730.1	36708 µg/L		36708 ppb	10:00:35
2	Na 589.592 Radial†	30272.0	29377.7	9067.9 µg/L		9067.9 ppb	10:00:30
2	Sr 421.552†	528937.7	518730.6	2157.5 µg/L		2157.5 ppb	10:00:30
2	Sc 361.383	1683499.0	1683499.0	101.32 %			10:01:33
2	Y 371.029	969225.7	969225.7	103.41 %			10:01:33
2	Ag 328.068†	31393.4	31501.6	324.98 µg/L		324.98 ppb	10:01:38
2	As 188.979†	587.1	587.1	1130.5 µg/L		1130.5 ppb	10:01:59
2	B 249.677†	29151.0	28604.3	1497.0 µg/L		1497.0 ppb	10:01:38
2	Ba 233.527†	76496.6	75510.0	2045.0 µg/L		2045.0 ppb	10:01:38
2	Be 313.107†	1122304.3	1109349.3	826.52 µg/L		826.52 ppb	10:01:33
2	Cd 226.502†	21468.8	21329.7	628.59 µg/L		628.59 ppb	10:01:38
2	Co 228.616†	18037.2	17775.3	957.06 µg/L		957.06 ppb	10:01:38
2	Cr 267.716†	93842.4	92550.5	2475.2 µg/L		2475.2 ppb	10:01:38
2	Cu 324.752†	259062.7	253056.8	1947.7 µg/L		1947.7 ppb	10:01:38
2	Mn 257.610†	1512097.3	1492971.5	5654.0 µg/L		5654.0 ppb	10:01:33
2	Mo 202.031†	4601.1	4538.7	554.14 µg/L		554.14 ppb	10:01:59
2	Ni 231.604†	20414.3	19853.0	1451.9 µg/L		1451.9 ppb	10:01:38
2	P 214.914†	4111.6	3816.7	8367.0 µg/L		8367.0 ppb	10:01:59
2	Pb 220.353†	2777.9	2706.9	898.20 µg/L		898.20 ppb	10:01:59

2	S 181.975 Axial†	1016.2	982.4	4076.1 µg/L	4076.1 ppb	10:01:59
2	Sb 206.836†	1543.5	1504.3	1687.0 µg/L	1687.0 ppb	10:01:59
2	Se 196.026†	2295.6	2251.3	3444.4 µg/L	3444.4 ppb	10:01:59
2	SiO2†	147163.9	143841.9	32905 µg/L	32905 ppb	10:01:38
2	Si 251.611†	181602.0	178851.7	15338 µg/L	15338 ppb	10:01:38
2	Sn 189.927†	2289.5	2258.7	1106.0 µg/L	1106.0 ppb	10:01:59
2	Ti 334.940†	2080718.8	2053613.8	5775.6 µg/L	5775.6 ppb	10:01:33
2	Tl 190.801†	994.0	1007.5	1303.3 µg/L	1303.3 ppb	10:01:59
2	U 409.014†	-1836.1	-1956.4	-233.33 µg/L	-233.33 ppb	10:01:38
2	V 292.402†	96061.5	94954.2	1277.9 µg/L	1277.9 ppb	10:01:38
2	Zn 213.857†	218611.9	215152.7	6030.8 µg/L	6030.8 ppb	10:01:38
3	Sc RADIAL	112467.8	112467.8	102 %		10:00:41
3	Al 396.153Radial†	169520.4	166790.5	88282 µg/L	88282 ppb	10:00:41
3	Ca 317.933Radial†	301812.0	296337.1	101160 µg/L	101160 ppb	10:00:41
3	Fe 238.204 Radial†	25019.9	24573.2	170140 µg/L	170140 ppb	10:00:47
3	K 766.490 Radial†	70211.9	68803.0	40874 µg/L	40874 ppb	10:00:41
3	Mg 279.077 IEC†	3779.9	3704.0	36451 µg/L	36451 ppb	10:00:47
3	Na 589.592 Radial†	30248.9	29430.9	9084.3 µg/L	9084.3 ppb	10:00:41
3	Sr 421.552†	528106.6	519240.0	2159.6 µg/L	2159.6 ppb	10:00:41
3	Sc 361.383	1605372.9	1605372.9	96.618 %		10:02:06
3	Y 371.029	925720.0	925720.0	98.771 %		10:02:06
3	Ag 328.068†	31577.3	33199.9	341.28 µg/L	341.28 ppb	10:02:12
3	As 188.979†	594.9	623.4	1200.1 µg/L	1200.1 ppb	10:02:33
3	B 249.677†	29428.5	30291.6	1590.9 µg/L	1590.9 ppb	10:02:12
3	Ba 233.527†	77392.9	80111.9	2169.6 µg/L	2169.6 ppb	10:02:12
3	Be 313.107†	1139151.7	1180692.1	879.67 µg/L	879.67 ppb	10:02:06
3	Cd 226.502†	21780.8	22683.7	669.79 µg/L	669.79 ppb	10:02:12
3	Co 228.616†	18266.8	18879.2	1016.4 µg/L	1016.4 ppb	10:02:12
3	Cr 267.716†	95508.9	98782.8	2641.9 µg/L	2641.9 ppb	10:02:12
3	Cu 324.752†	261783.4	268315.8	2063.1 µg/L	2063.1 ppb	10:02:12
3	Mn 257.610†	1539661.1	1594128.1	6036.5 µg/L	6036.5 ppb	10:02:06
3	Mo 202.031†	4642.6	4802.7	585.95 µg/L	585.95 ppb	10:02:33
3	Ni 231.604†	20710.5	21140.1	1545.9 µg/L	1545.9 ppb	10:02:12
3	P 214.914†	4132.1	4035.5	8853.2 µg/L	8853.2 ppb	10:02:33
3	Pb 220.353†	2791.1	2854.1	947.14 µg/L	947.14 ppb	10:02:33
3	S 181.975 Axial†	1025.1	1040.4	4316.8 µg/L	4316.8 ppb	10:02:33
3	Sb 206.836†	1561.1	1596.5	1790.4 µg/L	1790.4 ppb	10:02:33
3	Se 196.026†	2288.0	2353.7	3574.9 µg/L	3574.9 ppb	10:02:33
3	SiO2†	148577.6	152373.6	34857 µg/L	34857 ppb	10:02:12
3	Si 251.611†	183430.9	189467.3	16249 µg/L	16249 ppb	10:02:12
3	Sn 189.927†	2322.3	2402.5	1176.8 µg/L	1176.8 ppb	10:02:33
3	Ti 334.940†	2121287.0	2195541.5	6174.8 µg/L	6174.8 ppb	10:02:06
3	Tl 190.801†	994.4	1055.7	1366.9 µg/L	1366.9 ppb	10:02:33
3	U 409.014†	-1912.4	-2123.6	-250.62 µg/L	-250.62 ppb	10:02:12
3	V 292.402†	97237.7	100785.6	1356.0 µg/L	1356.0 ppb	10:02:12
3	Zn 213.857†	221005.7	228130.5	6395.2 µg/L	6395.2 ppb	10:02:12

Mean Data: 1202042581|952953|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	1653667.6	99.525 %		2.5403			2.55%
Sc RADIAL	112759.7	102 %		0.3			0.26%
Y 371.029	953041.8	101.69 %		2.539			2.50%
Ag 328.068†	32086.1	330.62 µg/L		9.242	330.62 ppb	9.242	2.80%
Al 396.153Radial†	166587.7	88175 µg/L		124.8	88175 ppb	124.8	0.14%
As 188.979†	598.3	1152.0 µg/L		41.77	1152.0 ppb	41.77	3.63%
B 249.677†	29215.9	1531.0 µg/L		52.08	1531.0 ppb	52.08	3.40%
Ba 233.527†	77232.2	2091.7 µg/L		67.97	2091.7 ppb	67.97	3.25%
Be 313.107†	1133043.7	844.17 µg/L		30.739	844.17 ppb	30.739	3.64%
Ca 317.933Radial†	296181.3	101110 µg/L		61.7	101110 ppb	61.7	0.06%
Cd 226.502†	21838.9	644.06 µg/L		22.433	644.06 ppb	22.433	3.48%
Co 228.616†	18195.2	979.67 µg/L		32.099	979.67 ppb	32.099	3.28%
Cr 267.716†	94842.6	2536.5 µg/L		91.66	2536.5 ppb	91.66	3.61%
Cu 324.752†	258718.8	1990.6 µg/L		63.17	1990.6 ppb	63.17	3.17%
Fe 238.204 Radial†	24655.7	170710 µg/L		531.3	170710 ppb	531.3	0.31%
K 766.490 Radial†	68765.4	40852 µg/L		19.8	40852 ppb	19.8	0.05%
Mg 279.077 IEC†	3720.4	36612 µg/L		140.4	36612 ppb	140.4	0.38%
Mn 257.610†	1526617.5	5781.2 µg/L		221.10	5781.2 ppb	221.10	3.82%
Mo 202.031†	4641.9	566.58 µg/L		17.003	566.58 ppb	17.003	3.00%
Na 589.592 Radial†	29353.4	9060.4 µg/L		28.42	9060.4 ppb	28.42	0.31%

Ni 231.604†	20338.7	1487.3 µg/L	51.06	1487.3 ppb	51.06	3.43%
P 214.914†	3901.3	8555.0 µg/L	261.14	8555.0 ppb	261.14	3.05%
Pb 220.353†	2766.3	917.94 µg/L	25.807	917.94 ppb	25.807	2.81%
S 181.975 Axial†	1003.5	4163.7 µg/L	133.04	4163.7 ppb	133.04	3.20%
Sb 206.836†	1540.0	1727.1 µg/L	55.47	1727.1 ppb	55.47	3.21%
Se 196.026†	2288.3	3492.0 µg/L	72.06	3492.0 ppb	72.06	2.06%
SiO2†	147212.9	33676 µg/L	1038.3	33676 ppb	1038.3	3.08%
Si 251.611†	183083.5	15701 µg/L	482.4	15701 ppb	482.4	3.07%
Sn 189.927†	2315.1	1133.8 µg/L	37.82	1133.8 ppb	37.82	3.34%
Sr 421.552†	518804.5	2157.8 µg/L	1.68	2157.8 ppb	1.68	0.08%
Ti 334.940†	2101079.3	5909.1 µg/L	230.14	5909.1 ppb	230.14	3.89%
Tl 190.801†	1022.9	1323.6 µg/L	37.45	1323.6 ppb	37.45	2.83%
U 409.014†	-1998.1	-237.65 µg/L	11.437	-237.65 ppb	11.437	4.81%
V 292.402†	97080.5	1306.4 µg/L	43.11	1306.4 ppb	43.11	3.30%
Zn 213.857†	219946.5	6165.4 µg/L	199.99	6165.4 ppb	199.99	3.24%

Sequence No.: 34
 Sample ID: 246872001|952953|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 328
 Date Collected: 2/26/2010 10:02:43
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 246872001|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	109052.0	109052.0	98.6 %		10:03:15
1	Al 396.153Radial†	31763.0	32287.0	17092 µg/L	17092 ppb	10:03:15
1	Ca 317.933Radial†	14214.2	13927.5	4754.5 µg/L	4754.5 ppb	10:03:15
1	Fe 238.204 Radial†	8453.1	8540.5	59125 µg/L	59125 ppb	10:03:15
1	K 766.490 Radial†	5120.1	4944.1	2937.1 µg/L	2937.1 ppb	10:03:15
1	Mg 279.077 IEC†	343.4	334.9	3247.8 µg/L	3247.8 ppb	10:03:35
1	Na 589.592 Radial†	1342.7	1043.5	322.09 µg/L	322.09 ppb	10:03:15
1	Sr 421.552†	7929.6	7899.1	32.854 µg/L	32.854 ppb	10:03:15
1	Sc 361.383	1686286.5	1686286.5	101.49 %		10:04:40
1	Y 371.029	995425.7	995425.7	106.21 %		10:04:40
1	Ag 328.068†	-1216.5	-681.4	1.5960 µg/L	1.5960 ppb	10:04:45
1	As 188.979†	-2.3	5.4	13.441 µg/L	13.441 ppb	10:05:06
1	B 249.677†	672.6	495.8	-3.4009 µg/L	-3.4009 ppb	10:04:45
1	Ba 233.527†	10537.6	10393.3	281.25 µg/L	281.25 ppb	10:04:45
1	Be 313.107†	4194.9	5801.4	3.6691 µg/L	3.6691 ppb	10:04:45
1	Cd 226.502†	149.5	287.9	2.0654 µg/L	2.0654 ppb	10:05:06
1	Co 228.616†	320.6	289.0	12.113 µg/L	12.113 ppb	10:05:06
1	Cr 267.716†	648.6	569.9	15.268 µg/L	15.268 ppb	10:05:06
1	Cu 324.752†	5408.4	2698.7	31.544 µg/L	31.544 ppb	10:04:45
1	Mn 257.610†	616609.3	608145.3	2303.3 µg/L	2303.3 ppb	10:04:40
1	Mo 202.031†	58.6	55.3	8.9243 µg/L	8.9243 ppb	10:05:06
1	Ni 231.604†	597.4	293.3	22.186 µg/L	22.186 ppb	10:05:06
1	P 214.914†	450.1	202.2	413.95 µg/L	413.95 ppb	10:05:06
1	Pb 220.353†	230.9	192.7	63.031 µg/L	63.031 ppb	10:05:06
1	S 181.975 Axial†	59.7	38.2	158.68 µg/L	158.68 ppb	10:05:06
1	Sb 206.836†	16.2	-3.2	-3.7729 µg/L	-3.7729 ppb	10:05:06
1	Se 196.026†	-25.6	-39.6	140.88 µg/L	140.88 ppb	10:05:06
1	SiO2†	80529.3	77944.1	17830 µg/L	17830 ppb	10:04:45
1	Si 251.611†	98751.9	96920.1	8311.9 µg/L	8311.9 ppb	10:04:45
1	Sn 189.927†	8.4	7.2	-0.0371 µg/L	-0.0371 ppb	10:05:06
1	Ti 334.940†	629444.2	620221.6	1744.5 µg/L	1744.5 ppb	10:04:40
1	Tl 190.801†	-46.3	-19.1	8.8398 µg/L	8.8398 ppb	10:05:06
1	U 409.014†	-1664.5	-1784.4	-194.04 µg/L	-194.04 ppb	10:04:40
1	V 292.402†	3586.3	3678.0	50.943 µg/L	50.943 ppb	10:04:45
1	Zn 213.857†	11541.0	10761.0	299.50 µg/L	299.50 ppb	10:04:45
2	Sc RADIAL	109371.3	109371.3	98.9 %		10:03:41
2	Al 396.153Radial†	31592.0	32020.0	16950 µg/L	16950 ppb	10:03:41
2	Ca 317.933Radial†	14169.1	13839.7	4724.6 µg/L	4724.6 ppb	10:03:41
2	Fe 238.204 Radial†	8466.4	8528.9	59044 µg/L	59044 ppb	10:03:41
2	K 766.490 Radial†	5163.5	4972.8	2954.2 µg/L	2954.2 ppb	10:03:41
2	Mg 279.077 IEC†	340.3	330.7	3206.8 µg/L	3206.8 ppb	10:04:01
2	Na 589.592 Radial†	1386.4	1083.8	334.52 µg/L	334.52 ppb	10:03:41
2	Sr 421.552†	7936.3	7882.5	32.784 µg/L	32.784 ppb	10:03:41
2	Sc 361.383	1691617.8	1691617.8	101.81 %		10:05:13
2	Y 371.029	994325.8	994325.8	106.09 %		10:05:13
2	Ag 328.068†	-1199.1	-660.5	1.7782 µg/L	1.7782 ppb	10:05:19
2	As 188.979†	4.4	12.0	26.232 µg/L	26.232 ppb	10:05:39
2	B 249.677†	694.1	514.9	-2.3062 µg/L	-2.3062 ppb	10:05:19
2	Ba 233.527†	10547.6	10370.3	280.63 µg/L	280.63 ppb	10:05:19
2	Be 313.107†	4207.8	5801.0	3.6697 µg/L	3.6697 ppb	10:05:19
2	Cd 226.502†	153.8	291.7	2.1873 µg/L	2.1873 ppb	10:05:39
2	Co 228.616†	323.8	291.2	12.238 µg/L	12.238 ppb	10:05:39
2	Cr 267.716†	648.7	568.0	15.218 µg/L	15.218 ppb	10:05:39
2	Cu 324.752†	5443.8	2716.7	31.665 µg/L	31.665 ppb	10:05:19
2	Mn 257.610†	617416.2	607023.0	2299.0 µg/L	2299.0 ppb	10:05:13
2	Mo 202.031†	61.2	57.7	9.2093 µg/L	9.2093 ppb	10:05:39
2	Ni 231.604†	578.8	273.3	20.717 µg/L	20.717 ppb	10:05:39
2	P 214.914†	443.0	193.8	394.86 µg/L	394.86 ppb	10:05:39
2	Pb 220.353†	235.6	196.6	64.337 µg/L	64.337 ppb	10:05:39

2	S 181.975 Axial†	50.1	28.7	118.90 µg/L	118.90 ppb	10:05:39
2	Sb 206.836†	17.2	-2.3	-2.7151 µg/L	-2.7151 ppb	10:05:39
2	Se 196.026†	-26.5	-40.4	139.60 µg/L	139.60 ppb	10:05:39
2	SiO2†	80062.5	77235.6	17668 µg/L	17668 ppb	10:05:19
2	Si 251.611†	98095.9	95969.0	8230.4 µg/L	8230.4 ppb	10:05:19
2	Sn 189.927†	12.4	11.1	1.8763 µg/L	1.8763 ppb	10:05:39
2	Ti 334.940†	630600.4	619402.6	1742.2 µg/L	1742.2 ppb	10:05:13
2	Tl 190.801†	-46.7	-19.4	8.5012 µg/L	8.5012 ppb	10:05:39
2	U 409.014†	-1761.2	-1874.1	-203.36 µg/L	-203.36 ppb	10:05:13
2	V 292.402†	3573.9	3654.7	50.623 µg/L	50.623 ppb	10:05:19
2	Zn 213.857†	11472.8	10658.2	296.62 µg/L	296.62 ppb	10:05:19
3	Sc RADIAL	108828.5	108828.5	98.4 %		10:04:07
3	Al 396.153Radial†	31371.2	31954.9	16916 µg/L	16916 ppb	10:04:07
3	Ca 317.933Radial†	14012.6	13752.2	4694.7 µg/L	4694.7 ppb	10:04:07
3	Fe 238.204 Radial†	8368.5	8472.1	58651 µg/L	58651 ppb	10:04:07
3	K 766.490 Radial†	5137.7	4972.6	2954.1 µg/L	2954.1 ppb	10:04:07
3	Mg 279.077 IEC†	348.4	340.7	3306.0 µg/L	3306.0 ppb	10:04:27
3	Na 589.592 Radial†	1311.1	1014.2	313.06 µg/L	313.06 ppb	10:04:07
3	Sr 421.552†	7833.6	7818.1	32.517 µg/L	32.517 ppb	10:04:07
3	Sc 361.383	1695665.8	1695665.8	102.05 %		10:05:46
3	Y 371.029	995439.5	995439.5	106.21 %		10:05:46
3	Ag 328.068†	-1161.6	-621.0	2.0826 µg/L	2.0826 ppb	10:05:52
3	As 188.979†	-3.0	4.7	12.132 µg/L	12.132 ppb	10:06:12
3	B 249.677†	658.6	478.5	-4.1149 µg/L	-4.1149 ppb	10:05:52
3	Ba 233.527†	10256.5	10060.3	272.24 µg/L	272.24 ppb	10:05:52
3	Be 313.107†	4084.6	5670.4	3.5870 µg/L	3.5870 ppb	10:05:52
3	Cd 226.502†	141.7	279.5	1.8623 µg/L	1.8623 ppb	10:06:12
3	Co 228.616†	319.2	285.9	12.031 µg/L	12.031 ppb	10:06:12
3	Cr 267.716†	612.5	531.0	14.226 µg/L	14.226 ppb	10:06:12
3	Cu 324.752†	5367.4	2629.0	30.927 µg/L	30.927 ppb	10:05:52
3	Mn 257.610†	606563.2	594940.6	2253.3 µg/L	2253.3 ppb	10:05:46
3	Mo 202.031†	48.5	45.1	7.6702 µg/L	7.6702 ppb	10:06:12
3	Ni 231.604†	575.4	268.5	20.369 µg/L	20.369 ppb	10:06:12
3	P 214.914†	428.8	178.9	361.47 µg/L	361.47 ppb	10:06:12
3	Pb 220.353†	218.0	178.8	58.423 µg/L	58.423 ppb	10:06:12
3	S 181.975 Axial†	50.9	29.3	121.72 µg/L	121.72 ppb	10:06:12
3	Sb 206.836†	15.0	-4.5	-5.2434 µg/L	-5.2434 ppb	10:06:12
3	Se 196.026†	-19.2	-33.2	147.49 µg/L	147.49 ppb	10:06:12
3	SiO2†	78148.1	75171.9	17196 µg/L	17196 ppb	10:05:52
3	Si 251.611†	95794.0	93483.4	8017.2 µg/L	8017.2 ppb	10:05:52
3	Sn 189.927†	9.2	8.0	0.3925 µg/L	0.3925 ppb	10:06:12
3	Ti 334.940†	617973.2	605550.6	1703.2 µg/L	1703.2 ppb	10:05:46
3	Tl 190.801†	-51.6	-24.0	2.2350 µg/L	2.2350 ppb	10:06:12
3	U 409.014†	-1687.0	-1797.3	-195.32 µg/L	-195.32 ppb	10:05:46
3	V 292.402†	3413.3	3489.0	48.401 µg/L	48.401 ppb	10:05:52
3	Zn 213.857†	11205.3	10369.1	288.50 µg/L	288.50 ppb	10:05:52

Mean Data: 246872001|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1691190.1	101.78 %	0.283			0.28%
Sc RADIAL	109083.9	98.6 %	0.25			0.25%
Y 371.029	995063.7	106.17 %	0.068			0.06%
Ag 328.068†	-654.3	1.8189 µg/L	0.24584	1.8189 ppb	0.24584	13.52%
Al 396.153Radial†	32087.3	16986 µg/L	93.1	16986 ppb	93.1	0.55%
As 188.979†	7.3	17.268 µg/L	7.7903	17.268 ppb	7.7903	45.11%
B 249.677†	496.4	-3.2740 µg/L	0.91095	-3.2740 ppb	0.91095	27.82%
Ba 233.527†	10274.6	278.04 µg/L	5.033	278.04 ppb	5.033	1.81%
Be 313.107†	5757.6	3.6420 µg/L	0.04760	3.6420 ppb	0.04760	1.31%
Ca 317.933Radial†	13839.8	4724.6 µg/L	29.92	4724.6 ppb	29.92	0.63%
Cd 226.502†	286.3	2.0383 µg/L	0.16415	2.0383 ppb	0.16415	8.05%
Co 228.616†	288.7	12.127 µg/L	0.1042	12.127 ppb	0.1042	0.86%
Cr 267.716†	556.3	14.904 µg/L	0.5876	14.904 ppb	0.5876	3.94%
Cu 324.752†	2681.4	31.379 µg/L	0.3956	31.379 ppb	0.3956	1.26%
Fe 238.204 Radial†	8513.8	58940 µg/L	253.4	58940 ppb	253.4	0.43%
K 766.490 Radial†	4963.1	2948.5 µg/L	9.81	2948.5 ppb	9.81	0.33%
Mg 279.077 IEC†	335.4	3253.5 µg/L	49.85	3253.5 ppb	49.85	1.53%
Mn 257.610†	603369.6	2285.2 µg/L	27.71	2285.2 ppb	27.71	1.21%
Mo 202.031†	52.7	8.6012 µg/L	0.81883	8.6012 ppb	0.81883	9.52%
Na 589.592 Radial†	1047.2	323.22 µg/L	10.774	323.22 ppb	10.774	3.33%

Ni 231.604†	278.4	21.091 µg/L	0.9647	21.091 ppb	0.9647	4.57%
P 214.914†	191.6	390.10 µg/L	26.562	390.10 ppb	26.562	6.81%
Pb 220.353†	189.4	61.930 µg/L	3.1069	61.930 ppb	3.1069	5.02%
S 181.975 Axial†	32.1	133.10 µg/L	22.200	133.10 ppb	22.200	16.68%
Sb 206.836†	-3.3	-3.9104 µg/L	1.26974	-3.9104 ppb	1.26974	32.47%
Se 196.026†	-37.7	142.66 µg/L	4.237	142.66 ppb	4.237	2.97%
SiO2†	76783.9	17565 µg/L	329.5	17565 ppb	329.5	1.88%
Si 251.611†	95457.5	8186.5 µg/L	152.18	8186.5 ppb	152.18	1.86%
Sn 189.927†	8.8	0.7439 µg/L	1.00395	0.7439 ppb	1.00395	134.96%
Sr 421.552†	7866.6	32.718 µg/L	0.1781	32.718 ppb	0.1781	0.54%
Ti 334.940†	615058.3	1730.0 µg/L	23.19	1730.0 ppb	23.19	1.34%
Tl 190.801†	-20.8	6.5253 µg/L	3.71940	6.5253 ppb	3.71940	57.00%
U 409.014†	-1818.6	-197.57 µg/L	5.053	-197.57 ppb	5.053	2.56%
V 292.402†	3607.3	49.989 µg/L	1.3848	49.989 ppb	1.3848	2.77%
Zn 213.857†	10596.1	294.87 µg/L	5.700	294.87 ppb	5.700	1.93%

Sequence No.: 35

Sample ID: 1202042577|952953|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 329

Date Collected: 2/26/2010 10:06:21

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042577|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110416.9	110416.9	99.8 %		10:06:54
1	Al 396.153Radial†	33975.5	34105.1	18054 µg/L	18054 ppb	10:06:54
1	Ca 317.933Radial†	14852.3	14388.4	4911.9 µg/L	4911.9 ppb	10:06:54
1	Fe 238.204 Radial†	8208.5	8189.4	56694 µg/L	56694 ppb	10:06:54
1	K 766.490 Radial†	5332.3	5092.4	3025.3 µg/L	3025.3 ppb	10:06:54
1	Mg 279.077 IEC†	342.5	329.7	3199.5 µg/L	3199.5 ppb	10:07:14
1	Na 589.592 Radial†	1206.0	889.7	274.63 µg/L	274.63 ppb	10:06:54
1	Sr 421.552†	8820.6	8692.2	36.152 µg/L	36.152 ppb	10:06:54
1	Sc 361.383	1691852.7	1691852.7	101.82 %		10:08:18
1	Y 371.029	986681.1	986681.1	105.28 %		10:08:18
1	Ag 328.068†	-1227.0	-687.8	1.2792 µg/L	1.2792 ppb	10:08:24
1	As 188.979†	-3.2	4.5	11.720 µg/L	11.720 ppb	10:08:44
1	B 249.677†	663.7	484.9	-2.7295 µg/L	-2.7295 ppb	10:08:24
1	Ba 233.527†	9528.2	9367.8	253.53 µg/L	253.53 ppb	10:08:24
1	Be 313.107†	3970.8	5567.7	3.5236 µg/L	3.5236 ppb	10:08:24
1	Cd 226.502†	139.5	277.6	2.0256 µg/L	2.0256 ppb	10:08:24
1	Co 228.616†	312.0	279.5	11.755 µg/L	11.755 ppb	10:08:44
1	Cr 267.716†	800.2	716.8	19.200 µg/L	19.200 ppb	10:08:24
1	Cu 324.752†	5656.8	2925.1	32.801 µg/L	32.801 ppb	10:08:24
1	Mn 257.610†	497851.8	489515.0	1854.5 µg/L	1854.5 ppb	10:08:18
1	Mo 202.031†	39.0	35.9	6.4816 µg/L	6.4816 ppb	10:08:44
1	Ni 231.604†	574.1	268.5	20.340 µg/L	20.340 ppb	10:08:44
1	P 214.914†	446.3	197.1	404.29 µg/L	404.29 ppb	10:08:44
1	Pb 220.353†	217.8	179.2	58.602 µg/L	58.602 ppb	10:08:44
1	S 181.975 Axial†	59.2	37.5	155.79 µg/L	155.79 ppb	10:08:44
1	Sb 206.836†	16.7	-2.8	-3.4059 µg/L	-3.4059 ppb	10:08:44
1	Se 196.026†	-24.8	-38.8	133.93 µg/L	133.93 ppb	10:08:44
1	SiO2†	82321.7	79443.4	18173 µg/L	18173 ppb	10:08:24
1	Si 251.611†	101114.4	98920.1	8483.4 µg/L	8483.4 ppb	10:08:24
1	Sn 189.927†	5.9	4.8	-1.0658 µg/L	-1.0658 ppb	10:08:44
1	Ti 334.940†	603910.6	593104.6	1668.2 µg/L	1668.2 ppb	10:08:18
1	Tl 190.801†	-43.0	-15.7	10.234 µg/L	10.234 ppb	10:08:44
1	U 409.014†	-1124.2	-1248.3	-137.97 µg/L	-137.97 ppb	10:08:24
1	V 292.402†	4265.3	4333.3	59.611 µg/L	59.611 ppb	10:08:24
1	Zn 213.857†	10013.3	9223.2	256.37 µg/L	256.37 ppb	10:08:24
2	Sc RADIAL	110784.0	110784.0	100 %		10:07:20
2	Al 396.153Radial†	33819.1	33836.1	17912 µg/L	17912 ppb	10:07:20
2	Ca 317.933Radial†	14809.2	14296.1	4880.4 µg/L	4880.4 ppb	10:07:20
2	Fe 238.204 Radial†	8208.5	8162.2	56505 µg/L	56505 ppb	10:07:20
2	K 766.490 Radial†	5311.8	5054.3	3002.6 µg/L	3002.6 ppb	10:07:20
2	Mg 279.077 IEC†	345.3	331.4	3215.8 µg/L	3215.8 ppb	10:07:40
2	Na 589.592 Radial†	1189.4	869.2	268.29 µg/L	268.29 ppb	10:07:20
2	Sr 421.552†	8794.1	8636.6	35.921 µg/L	35.921 ppb	10:07:20
2	Sc 361.383	1698314.6	1698314.6	102.21 %		10:08:51
2	Y 371.029	989758.4	989758.4	105.60 %		10:08:51
2	Ag 328.068†	-1148.3	-606.2	2.0182 µg/L	2.0182 ppb	10:08:57
2	As 188.979†	-3.1	4.6	11.791 µg/L	11.791 ppb	10:09:17
2	B 249.677†	638.0	457.3	-4.1580 µg/L	-4.1580 ppb	10:08:57
2	Ba 233.527†	9559.4	9362.7	253.39 µg/L	253.39 ppb	10:08:57
2	Be 313.107†	3992.6	5574.2	3.5269 µg/L	3.5269 ppb	10:08:57
2	Cd 226.502†	141.5	279.0	2.0898 µg/L	2.0898 ppb	10:08:57
2	Co 228.616†	305.1	271.6	11.312 µg/L	11.312 ppb	10:09:17
2	Cr 267.716†	825.6	738.6	19.783 µg/L	19.783 ppb	10:08:57
2	Cu 324.752†	5728.5	2974.1	33.136 µg/L	33.136 ppb	10:08:57
2	Mn 257.610†	501802.5	491519.8	1862.0 µg/L	1862.0 ppb	10:08:51
2	Mo 202.031†	39.8	36.5	6.5562 µg/L	6.5562 ppb	10:09:17
2	Ni 231.604†	571.3	263.7	19.987 µg/L	19.987 ppb	10:09:17
2	P 214.914†	443.1	192.2	393.46 µg/L	393.46 ppb	10:09:17
2	Pb 220.353†	220.8	181.3	59.305 µg/L	59.305 ppb	10:09:17

2	S 181.975 Axialt	58.5	36.7	152.08 µg/L	152.08 ppb	10:09:17
2	Sb 206.836†	13.1	-6.4	-7.4804 µg/L	-7.4804 ppb	10:09:17
2	Se 196.026†	-29.5	-43.2	127.53 µg/L	127.53 ppb	10:09:17
2	SiO2†	83084.4	79882.0	18274 µg/L	18274 ppb	10:08:57
2	Si 251.611†	101964.0	99373.5	8522.3 µg/L	8522.3 ppb	10:08:57
2	Sn 189.927†	6.6	5.4	-0.7455 µg/L	-0.7455 ppb	10:09:17
2	Ti 334.940†	607714.3	594569.2	1672.4 µg/L	1672.4 ppb	10:08:51
2	Tl 190.801†	-48.7	-21.1	3.6608 µg/L	3.6608 ppb	10:09:17
2	U 409.014†	-1145.8	-1265.2	-139.71 µg/L	-139.71 ppb	10:08:57
2	V 292.402†	4288.2	4339.8	59.690 µg/L	59.690 ppb	10:08:57
2	Zn 213.857†	10104.9	9275.4	257.85 µg/L	257.85 ppb	10:08:57
3	Sc RADIAL	111103.8	111103.8	100 %		10:07:46
3	Al 396.153Radial†	34115.2	34033.7	18016 µg/L	18016 ppb	10:07:46
3	Ca 317.933Radial†	14936.3	14380.1	4909.0 µg/L	4909.0 ppb	10:07:46
3	Fe 238.204 Radial†	8256.0	8185.9	56670 µg/L	56670 ppb	10:07:46
3	K 766.490 Radial†	5306.0	5033.2	2990.1 µg/L	2990.1 ppb	10:07:46
3	Mg 279.077 IEC†	342.3	327.4	3176.2 µg/L	3176.2 ppb	10:08:06
3	Na 589.592 Radial†	1203.0	879.3	271.42 µg/L	271.42 ppb	10:07:46
3	Sr 421.552†	8867.7	8684.6	36.120 µg/L	36.120 ppb	10:07:46
3	Sc 361.383	1699857.5	1699857.5	102.30 %		10:09:24
3	Y 371.029	986838.6	986838.6	105.29 %		10:09:24
3	Ag 328.068†	-1147.3	-604.2	2.0428 µg/L	2.0428 ppb	10:09:30
3	As 188.979†	-4.3	3.5	9.7130 µg/L	9.7130 ppb	10:09:50
3	B 249.677†	655.3	473.6	-3.3422 µg/L	-3.3422 ppb	10:09:30
3	Ba 233.527†	9291.6	9092.3	246.07 µg/L	246.07 ppb	10:09:30
3	Be 313.107†	3843.7	5425.1	3.4252 µg/L	3.4252 ppb	10:09:30
3	Cd 226.502†	112.8	250.9	1.2184 µg/L	1.2184 ppb	10:09:30
3	Co 228.616†	288.0	254.6	10.441 µg/L	10.441 ppb	10:09:50
3	Cr 267.716†	795.4	708.3	18.972 µg/L	18.972 ppb	10:09:30
3	Cu 324.752†	5588.2	2831.9	32.091 µg/L	32.091 ppb	10:09:30
3	Mn 257.610†	495237.8	484657.4	1836.1 µg/L	1836.1 ppb	10:09:24
3	Mo 202.031†	41.0	37.6	6.6943 µg/L	6.6943 ppb	10:09:50
3	Ni 231.604†	562.7	254.7	19.336 µg/L	19.336 ppb	10:09:50
3	P 214.914†	429.2	178.3	361.70 µg/L	361.70 ppb	10:09:50
3	Pb 220.353†	205.4	166.0	54.209 µg/L	54.209 ppb	10:09:50
3	S 181.975 Axialt	50.5	28.7	119.23 µg/L	119.23 ppb	10:09:50
3	Sb 206.836†	17.5	-2.1	-2.5846 µg/L	-2.5846 ppb	10:09:50
3	Se 196.026†	-25.2	-39.0	133.56 µg/L	133.56 ppb	10:09:50
3	SiO2†	80667.4	77445.7	17716 µg/L	17716 ppb	10:09:30
3	Si 251.611†	98957.3	96344.0	8262.5 µg/L	8262.5 ppb	10:09:30
3	Sn 189.927†	5.1	3.9	-1.5080 µg/L	-1.5080 ppb	10:09:50
3	Ti 334.940†	598991.3	585503.1	1646.9 µg/L	1646.9 ppb	10:09:24
3	Tl 190.801†	-44.4	-16.9	8.5371 µg/L	8.5371 ppb	10:09:50
3	U 409.014†	-1015.1	-1136.4	-126.34 µg/L	-126.34 ppb	10:09:30
3	V 292.402†	4110.1	4161.8	57.345 µg/L	57.345 ppb	10:09:30
3	Zn 213.857†	9796.9	8965.4	249.13 µg/L	249.13 ppb	10:09:30

Mean Data: 1202042577|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1696674.9	102.11 %	0.256			0.25%
Sc RADIAL	110768.3	100 %	0.3			0.31%
Y 371.029	987759.4	105.39 %	0.185			0.18%
Ag 328.068†	-632.7	1.7801 µg/L	0.43395	1.7801 ppb	0.43395	24.38%
Al 396.153Radial†	33991.6	17994 µg/L	73.7	17994 ppb	73.7	0.41%
As 188.979†	4.2	11.075 µg/L	1.1796	11.075 ppb	1.1796	10.65%
B 249.677†	472.0	-3.4099 µg/L	0.71665	-3.4099 ppb	0.71665	21.02%
Ba 233.527†	9274.3	250.99 µg/L	4.265	250.99 ppb	4.265	1.70%
Be 313.107†	5522.3	3.4919 µg/L	0.05779	3.4919 ppb	0.05779	1.65%
Ca 317.933Radial†	14354.9	4900.4 µg/L	17.43	4900.4 ppb	17.43	0.36%
Cd 226.502†	269.2	1.7779 µg/L	0.48565	1.7779 ppb	0.48565	27.32%
Co 228.616†	268.6	11.169 µg/L	0.6689	11.169 ppb	0.6689	5.99%
Cr 267.716†	721.2	19.318 µg/L	0.4181	19.318 ppb	0.4181	2.16%
Cu 324.752†	2910.3	32.676 µg/L	0.5337	32.676 ppb	0.5337	1.63%
Fe 238.204 Radial†	8179.2	56623 µg/L	102.7	56623 ppb	102.7	0.18%
K 766.490 Radial†	5060.0	3006.0 µg/L	17.84	3006.0 ppb	17.84	0.59%
Mg 279.077 IEC†	329.5	3197.2 µg/L	19.91	3197.2 ppb	19.91	0.62%
Mn 257.610†	488564.1	1850.9 µg/L	13.34	1850.9 ppb	13.34	0.72%
Mo 202.031†	36.7	6.5774 µg/L	0.10793	6.5774 ppb	0.10793	1.64%
Na 589.592 Radial†	879.4	271.45 µg/L	3.172	271.45 ppb	3.172	1.17%

Ni 231.604†	262.3	19.887 µg/L	0.5092	19.887 ppb	0.5092	2.56%
P 214.914†	189.2	386.48 µg/L	22.135	386.48 ppb	22.135	5.73%
Pb 220.353†	175.5	57.372 µg/L	2.7615	57.372 ppb	2.7615	4.81%
S 181.975 Axial†	34.3	142.37 µg/L	20.125	142.37 ppb	20.125	14.14%
Sb 206.836†	-3.8	-4.4903 µg/L	2.62186	-4.4903 ppb	2.62186	58.39%
Se 196.026†	-40.3	131.67 µg/L	3.593	131.67 ppb	3.593	2.73%
SiO2†	78923.7	18055 µg/L	297.1	18055 ppb	297.1	1.65%
Si 251.611†	98212.5	8422.8 µg/L	140.13	8422.8 ppb	140.13	1.66%
Sn 189.927†	4.7	-1.1064 µg/L	0.38284	-1.1064 ppb	0.38284	34.60%
Sr 421.552†	8671.1	36.065 µg/L	0.1255	36.065 ppb	0.1255	0.35%
Ti 334.940†	591059.0	1662.5 µg/L	13.69	1662.5 ppb	13.69	0.82%
Tl 190.801†	-17.9	7.4773 µg/L	3.41227	7.4773 ppb	3.41227	45.64%
U 409.014†	-1216.7	-134.67 µg/L	7.268	-134.67 ppb	7.268	5.40%
V 292.402†	4278.3	58.882 µg/L	1.3318	58.882 ppb	1.3318	2.26%
Zn 213.857†	9154.7	254.45 µg/L	4.667	254.45 ppb	4.667	1.83%

Sequence No.: 36

Sample ID: 1202042579|952953|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 330

Date Collected: 2/26/2010 10:09:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042579|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	111712.5	111712.5	101 %		10:10:32
1	Al 396.153Radial†	72800.0	72151.7	38184 µg/L	38184 ppb	10:10:32
1	Ca 317.933Radial†	33629.3	32807.6	11200 µg/L	11200 ppb	10:10:32
1	Fe 238.204 Radial†	9223.6	9099.1	63002 µg/L	63002 ppb	10:10:52
1	K 766.490 Radial†	15649.3	15245.7	9057.0 µg/L	9057.0 ppb	10:10:32
1	Mg 279.077 IEC†	965.9	943.0	9264.6 µg/L	9264.6 ppb	10:10:52
1	Na 589.592 Radial†	15271.9	14802.9	4569.2 µg/L	4569.2 ppb	10:10:32
1	Sr 421.552†	120995.2	119657.4	497.67 µg/L	497.67 ppb	10:10:32
1	Sc 361.383	1703033.3	1703033.3	102.50 %		10:11:58
1	Y 371.029	992412.8	992412.8	105.89 %		10:11:58
1	Ag 328.068†	52377.3	51619.1	494.45 µg/L	494.45 ppb	10:12:03
1	As 188.979†	271.0	272.0	524.19 µg/L	524.19 ppb	10:12:24
1	B 249.677†	9704.1	9300.9	482.40 µg/L	482.40 ppb	10:12:03
1	Ba 233.527†	31251.1	30500.3	826.10 µg/L	826.10 ppb	10:12:03
1	Be 313.107†	699959.2	684582.9	510.42 µg/L	510.42 ppb	10:11:58
1	Cd 226.502†	16883.2	16612.7	496.90 µg/L	496.90 ppb	10:12:03
1	Co 228.616†	9646.3	9384.5	506.44 µg/L	506.44 ppb	10:12:03
1	Cr 267.716†	19864.8	19312.0	516.67 µg/L	516.67 ppb	10:12:03
1	Cu 324.752†	75150.8	70690.4	546.96 µg/L	546.96 ppb	10:12:03
1	Mn 257.610†	622881.7	608290.4	2303.6 µg/L	2303.6 ppb	10:11:58
1	Mo 202.031†	4282.3	4175.6	506.22 µg/L	506.22 ppb	10:12:24
1	Ni 231.604†	7914.2	7426.2	542.90 µg/L	542.90 ppb	10:12:03
1	P 214.914†	788.2	527.7	1109.0 µg/L	1109.0 ppb	10:12:24
1	Pb 220.353†	1782.0	1703.8	567.18 µg/L	567.18 ppb	10:12:24
1	S 181.975 Axial†	1384.8	1330.5	5520.2 µg/L	5520.2 ppb	10:12:24
1	Sb 206.836†	455.4	425.2	484.86 µg/L	484.86 ppb	10:12:24
1	Se 196.026†	365.1	341.8	642.72 µg/L	642.72 ppb	10:12:24
1	SiO2†	117267.8	113007.8	25852 µg/L	25852 ppb	10:12:03
1	Si 251.611†	147355.5	143383.3	12297 µg/L	12297 ppb	10:11:58
1	Sn 189.927†	1051.1	1024.5	501.38 µg/L	501.38 ppb	10:12:24
1	Ti 334.940†	942203.4	919266.0	2585.4 µg/L	2585.4 ppb	10:11:58
1	Tl 190.801†	377.6	394.9	520.27 µg/L	520.27 ppb	10:12:24
1	U 409.014†	3666.2	3432.7	347.48 µg/L	347.48 ppb	10:11:58
1	V 292.402†	42131.4	41249.8	555.95 µg/L	555.95 ppb	10:12:03
1	Zn 213.857†	29036.8	27718.9	772.73 µg/L	772.73 ppb	10:12:03
2	Sc RADIAL	110767.1	110767.1	100 %		10:10:58
2	Al 396.153Radial†	72652.6	72619.8	38432 µg/L	38432 ppb	10:10:58
2	Ca 317.933Radial†	33437.1	32899.9	11231 µg/L	11231 ppb	10:10:58
2	Fe 238.204 Radial†	9232.3	9185.8	63602 µg/L	63602 ppb	10:11:18
2	K 766.490 Radial†	15472.6	15201.5	9030.7 µg/L	9030.7 ppb	10:10:58
2	Mg 279.077 IEC†	966.6	951.8	9351.2 µg/L	9351.2 ppb	10:11:18
2	Na 589.592 Radial†	15240.8	14900.8	4599.4 µg/L	4599.4 ppb	10:10:58
2	Sr 421.552†	121037.0	120721.7	502.10 µg/L	502.10 ppb	10:10:58
2	Sc 361.383	1711419.8	1711419.8	103.00 %		10:12:32
2	Y 371.029	999807.6	999807.6	106.68 %		10:12:32
2	Ag 328.068†	52586.9	51572.3	494.07 µg/L	494.07 ppb	10:12:37
2	As 188.979†	269.5	269.3	518.99 µg/L	518.99 ppb	10:12:58
2	B 249.677†	9777.1	9325.4	483.44 µg/L	483.44 ppb	10:12:37
2	Ba 233.527†	31341.7	30438.8	824.43 µg/L	824.43 ppb	10:12:37
2	Be 313.107†	705033.2	686162.6	511.60 µg/L	511.60 ppb	10:12:32
2	Cd 226.502†	16984.9	16630.8	497.38 µg/L	497.38 ppb	10:12:37
2	Co 228.616†	9648.3	9340.4	504.04 µg/L	504.04 ppb	10:12:37
2	Cr 267.716†	19948.2	19298.0	516.30 µg/L	516.30 ppb	10:12:37
2	Cu 324.752†	75198.2	70377.2	544.70 µg/L	544.70 ppb	10:12:37
2	Mn 257.610†	626435.1	608762.3	2305.4 µg/L	2305.4 ppb	10:12:32
2	Mo 202.031†	4294.2	4166.7	505.18 µg/L	505.18 ppb	10:12:58
2	Ni 231.604†	7905.0	7379.4	539.49 µg/L	539.49 ppb	10:12:37
2	P 214.914†	773.6	509.8	1068.2 µg/L	1068.2 ppb	10:12:58
2	Pb 220.353†	1787.2	1700.3	566.01 µg/L	566.01 ppb	10:12:58

2	S 181.975 Axial†	1391.0	1329.9	5517.9 µg/L	5517.9 ppb	10:12:58
2	Sb 206.836†	464.2	431.5	492.07 µg/L	492.07 ppb	10:12:58
2	Se 196.026†	373.6	348.3	653.02 µg/L	653.02 ppb	10:12:58
2	SiO2†	116720.1	111915.4	25602 µg/L	25602 ppb	10:12:37
2	Si 251.611†	147112.3	142442.7	12216 µg/L	12216 ppb	10:12:32
2	Sn 189.927†	1065.1	1033.1	505.55 µg/L	505.55 ppb	10:12:58
2	Ti 334.940†	946790.1	919214.4	2585.2 µg/L	2585.2 ppb	10:12:32
2	Tl 190.801†	379.1	394.5	519.84 µg/L	519.84 ppb	10:12:58
2	U 409.014†	3643.0	3392.6	343.23 µg/L	343.23 ppb	10:12:32
2	V 292.402†	42146.2	41062.8	553.47 µg/L	553.47 ppb	10:12:37
2	Zn 213.857†	29090.4	27632.2	770.27 µg/L	770.27 ppb	10:12:37
3	Sc RADIAL	111687.9	111687.9	101 %		10:11:24
3	Al 396.153Radial†	72738.4	72106.6	38161 µg/L	38161 ppb	10:11:24
3	Ca 317.933Radial†	33670.7	32855.9	11216 µg/L	11216 ppb	10:11:24
3	Fe 238.204 Radial†	9267.2	9144.4	63315 µg/L	63315 ppb	10:11:44
3	K 766.490 Radial†	15674.0	15273.5	9073.6 µg/L	9073.6 ppb	10:11:24
3	Mg 279.077 IEC†	966.0	943.3	9266.7 µg/L	9266.7 ppb	10:11:44
3	Na 589.592 Radial†	15239.5	14774.1	4560.3 µg/L	4560.3 ppb	10:11:24
3	Sr 421.552†	120862.7	119552.6	497.24 µg/L	497.24 ppb	10:11:24
3	Sc 361.383	1707958.0	1707958.0	102.79 %		10:13:06
3	Y 371.029	998571.1	998571.1	106.54 %		10:13:06
3	Ag 328.068†	51664.3	50778.2	486.48 µg/L	486.48 ppb	10:13:11
3	As 188.979†	251.9	252.7	487.29 µg/L	487.29 ppb	10:13:32
3	B 249.677†	9498.7	9073.8	469.64 µg/L	469.64 ppb	10:13:11
3	Ba 233.527†	30285.0	29472.5	798.26 µg/L	798.26 ppb	10:13:11
3	Be 313.107†	686807.9	669819.8	499.42 µg/L	499.42 ppb	10:13:06
3	Cd 226.502†	16522.0	16213.8	484.75 µg/L	484.75 ppb	10:13:11
3	Co 228.616†	9262.9	8984.4	484.74 µg/L	484.74 ppb	10:13:11
3	Cr 267.716†	19154.9	18565.4	496.70 µg/L	496.70 ppb	10:13:11
3	Cu 324.752†	72677.1	68072.5	527.20 µg/L	527.20 ppb	10:13:11
3	Mn 257.610†	612051.4	596002.0	2257.2 µg/L	2257.2 ppb	10:13:06
3	Mo 202.031†	3974.2	3863.9	468.62 µg/L	468.62 ppb	10:13:32
3	Ni 231.604†	7612.3	7110.2	519.84 µg/L	519.84 ppb	10:13:11
3	P 214.914†	736.6	475.3	991.21 µg/L	991.21 ppb	10:13:32
3	Pb 220.353†	1677.8	1597.5	531.69 µg/L	531.69 ppb	10:13:32
3	S 181.975 Axial†	1318.1	1261.8	5235.1 µg/L	5235.1 ppb	10:13:32
3	Sb 206.836†	428.3	397.5	453.09 µg/L	453.09 ppb	10:13:32
3	Se 196.026†	345.3	321.6	617.48 µg/L	617.48 ppb	10:13:32
3	SiO2†	108747.3	104388.9	23880 µg/L	23880 ppb	10:13:11
3	Si 251.611†	141282.6	137060.8	11754 µg/L	11754 ppb	10:13:06
3	Sn 189.927†	976.6	949.0	464.18 µg/L	464.18 ppb	10:13:32
3	Ti 334.940†	921678.9	896648.5	2521.7 µg/L	2521.7 ppb	10:13:06
3	Tl 190.801†	351.5	368.5	487.34 µg/L	487.34 ppb	10:13:32
3	U 409.014†	3606.5	3364.3	340.33 µg/L	340.33 ppb	10:13:06
3	V 292.402†	40581.3	39623.3	534.00 µg/L	534.00 ppb	10:13:11
3	Zn 213.857†	28186.9	26810.5	747.30 µg/L	747.30 ppb	10:13:11

Mean Data: 1202042579|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1707470.4	102.76 %	0.254			0.25%
Sc RADIAL	111389.2	101 %	0.5			0.48%
Y 371.029	996930.5	106.37 %	0.423			0.40%
Ag 328.068†	51323.2	491.67 µg/L	4.494	491.67 ppb	4.494	0.91%
Al 396.153Radial†	72292.7	38259 µg/L	150.2	38259 ppb	150.2	0.39%
As 188.979†	264.7	510.16 µg/L	19.972	510.16 ppb	19.972	3.91%
B 249.677†	9233.3	478.49 µg/L	7.684	478.49 ppb	7.684	1.61%
Ba 233.527†	30137.2	816.26 µg/L	15.616	816.26 ppb	15.616	1.91%
Be 313.107†	680188.4	507.15 µg/L	6.720	507.15 ppb	6.720	1.33%
Ca 317.933Radial†	32854.5	11216 µg/L	15.7	11216 ppb	15.7	0.14%
Cd 226.502†	16485.8	493.01 µg/L	7.155	493.01 ppb	7.155	1.45%
Co 228.616†	9236.4	498.41 µg/L	11.897	498.41 ppb	11.897	2.39%
Cr 267.716†	19058.5	509.89 µg/L	11.425	509.89 ppb	11.425	2.24%
Cu 324.752†	69713.4	539.62 µg/L	10.815	539.62 ppb	10.815	2.00%
Fe 238.204 Radial†	9143.1	63307 µg/L	300.1	63307 ppb	300.1	0.47%
K 766.490 Radial†	15240.2	9053.8 µg/L	21.60	9053.8 ppb	21.60	0.24%
Mg 279.077 IEC†	946.0	9294.2 µg/L	49.41	9294.2 ppb	49.41	0.53%
Mn 257.610†	604351.6	2288.7 µg/L	27.36	2288.7 ppb	27.36	1.20%
Mo 202.031†	4068.7	493.34 µg/L	21.413	493.34 ppb	21.413	4.34%
Na 589.592 Radial†	14825.9	4576.3 µg/L	20.51	4576.3 ppb	20.51	0.45%

Ni 231.604†	7305.3	534.08 µg/L	12.446	534.08 ppb	12.446	2.33%
P 214.914†	504.2	1056.1 µg/L	59.81	1056.1 ppb	59.81	5.66%
Pb 220.353†	1667.2	554.96 µg/L	20.158	554.96 ppb	20.158	3.63%
S 181.975 Axial†	1307.4	5424.4 µg/L	163.94	5424.4 ppb	163.94	3.02%
Sb 206.836†	418.1	476.67 µg/L	20.742	476.67 ppb	20.742	4.35%
Se 196.026†	337.2	637.74 µg/L	18.285	637.74 ppb	18.285	2.87%
SiO2†	109770.7	25111 µg/L	1073.5	25111 ppb	1073.5	4.27%
Si 251.611†	140962.3	12089 µg/L	292.6	12089 ppb	292.6	2.42%
Sn 189.927†	1002.2	490.37 µg/L	22.777	490.37 ppb	22.777	4.64%
Sr 421.552†	119977.2	499.00 µg/L	2.690	499.00 ppb	2.690	0.54%
Ti 334.940†	911709.7	2564.1 µg/L	36.69	2564.1 ppb	36.69	1.43%
Tl 190.801†	386.0	509.15 µg/L	18.886	509.15 ppb	18.886	3.71%
U 409.014†	3396.6	343.68 µg/L	3.597	343.68 ppb	3.597	1.05%
V 292.402†	40645.3	547.81 µg/L	12.021	547.81 ppb	12.021	2.19%
Zn 213.857†	27387.2	763.43 µg/L	14.027	763.43 ppb	14.027	1.84%

Sequence No.: 37
 Sample ID: 1202042580|952953|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 331
 Date Collected: 2/26/2010 10:13:42
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202042580|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110232.1	110232.1	99.7 %		10:14:14
1	Al 396.153Radial†	72352.0	72670.3	38458 µg/L	38458 ppb	10:14:14
1	Ca 317.933Radial†	29963.0	29575.9	10097 µg/L	10097 ppb	10:14:14
1	Fe 238.204 Radial†	8773.3	8770.0	60725 µg/L	60725 ppb	10:14:35
1	K 766.490 Radial†	16186.9	15993.2	9501.1 µg/L	9501.1 ppb	10:14:14
1	Mg 279.077 IEC†	947.6	937.4	9212.9 µg/L	9212.9 ppb	10:14:35
1	Na 589.592 Radial†	15390.6	15125.0	4668.6 µg/L	4668.6 ppb	10:14:14
1	Sr 421.552†	120302.7	120571.5	501.48 µg/L	501.48 ppb	10:14:14
1	Sc 361.383	1690709.3	1690709.3	101.75 %		10:15:40
1	Y 371.029	978843.6	978843.6	104.44 %		10:15:40
1	Ag 328.068†	54397.3	53976.8	516.42 µg/L	516.42 ppb	10:15:45
1	As 188.979†	282.9	285.7	550.34 µg/L	550.34 ppb	10:16:06
1	B 249.677†	10159.6	9817.5	512.22 µg/L	512.22 ppb	10:15:45
1	Ba 233.527†	30984.5	30460.4	825.08 µg/L	825.08 ppb	10:15:45
1	Be 313.107†	726706.8	715847.4	533.78 µg/L	533.78 ppb	10:15:40
1	Cd 226.502†	17702.1	17537.5	525.22 µg/L	525.22 ppb	10:15:45
1	Co 228.616†	10335.8	10130.7	547.15 µg/L	547.15 ppb	10:15:45
1	Cr 267.716†	21003.2	20572.0	550.38 µg/L	550.38 ppb	10:15:45
1	Cu 324.752†	77532.9	73565.9	568.30 µg/L	568.30 ppb	10:15:45
1	Mn 257.610†	726625.7	714675.8	2705.8 µg/L	2705.8 ppb	10:15:40
1	Mo 202.031†	4489.9	4410.1	534.43 µg/L	534.43 ppb	10:16:06
1	Ni 231.604†	8281.6	7843.6	573.32 µg/L	573.32 ppb	10:15:45
1	P 214.914†	787.3	532.5	1120.1 µg/L	1120.1 ppb	10:16:06
1	Pb 220.353†	1922.7	1854.8	617.57 µg/L	617.57 ppb	10:16:06
1	S 181.975 Axial†	1436.1	1390.7	5770.3 µg/L	5770.3 ppb	10:16:06
1	Sb 206.836†	477.1	449.7	512.82 µg/L	512.82 ppb	10:16:06
1	Se 196.026†	398.9	377.7	681.67 µg/L	681.67 ppb	10:16:06
1	SiO2†	125390.8	121824.7	27869 µg/L	27869 ppb	10:15:45
1	Si 251.611†	156869.4	153781.1	13188 µg/L	13188 ppb	10:15:40
1	Sn 189.927†	1129.2	1108.7	542.99 µg/L	542.99 ppb	10:16:06
1	Ti 334.940†	931344.7	915295.3	2574.2 µg/L	2574.2 ppb	10:15:40
1	Tl 190.801†	385.0	404.8	533.73 µg/L	533.73 ppb	10:16:06
1	U 409.014†	3834.0	3623.6	367.72 µg/L	367.72 ppb	10:15:45
1	V 292.402†	44353.9	43733.6	589.19 µg/L	589.19 ppb	10:15:45
1	Zn 213.857†	29868.9	28743.2	801.47 µg/L	801.47 ppb	10:15:45
2	Sc RADIAL	110347.1	110347.1	99.8 %		10:14:40
2	Al 396.153Radial†	72319.2	72561.7	38401 µg/L	38401 ppb	10:14:40
2	Ca 317.933Radial†	29955.0	29536.6	10083 µg/L	10083 ppb	10:14:40
2	Fe 238.204 Radial†	8871.0	8858.8	61339 µg/L	61339 ppb	10:15:01
2	K 766.490 Radial†	16181.3	15970.6	9487.7 µg/L	9487.7 ppb	10:14:40
2	Mg 279.077 IEC†	960.8	949.7	9333.0 µg/L	9333.0 ppb	10:15:01
2	Na 589.592 Radial†	15384.9	15103.3	4661.9 µg/L	4661.9 ppb	10:14:40
2	Sr 421.552†	120603.4	120747.0	502.21 µg/L	502.21 ppb	10:14:40
2	Sc 361.383	1686325.3	1686325.3	101.49 %		10:16:13
2	Y 371.029	976941.8	976941.8	104.24 %		10:16:13
2	Ag 328.068†	54322.6	54042.2	517.10 µg/L	517.10 ppb	10:16:19
2	As 188.979†	274.3	277.9	535.38 µg/L	535.38 ppb	10:16:39
2	B 249.677†	10178.7	9862.4	514.38 µg/L	514.38 ppb	10:16:19
2	Ba 233.527†	30994.7	30549.7	827.50 µg/L	827.50 ppb	10:16:19
2	Be 313.107†	724936.1	715959.4	533.87 µg/L	533.87 ppb	10:16:13
2	Cd 226.502†	17685.2	17566.2	526.02 µg/L	526.02 ppb	10:16:19
2	Co 228.616†	10281.9	10104.0	545.70 µg/L	545.70 ppb	10:16:19
2	Cr 267.716†	20937.7	20561.1	550.09 µg/L	550.09 ppb	10:16:19
2	Cu 324.752†	77561.1	73791.8	570.12 µg/L	570.12 ppb	10:16:19
2	Mn 257.610†	726566.0	716473.5	2712.7 µg/L	2712.7 ppb	10:16:13
2	Mo 202.031†	4478.8	4410.7	534.52 µg/L	534.52 ppb	10:16:39
2	Ni 231.604†	8311.6	7894.2	577.04 µg/L	577.04 ppb	10:16:19
2	P 214.914†	784.0	531.2	1116.5 µg/L	1116.5 ppb	10:16:39
2	Pb 220.353†	1911.6	1848.7	615.52 µg/L	615.52 ppb	10:16:39

2	S 181.975 Axial†	1432.0	1390.4	5769.0 µg/L	5769.0 ppb	10:16:39
2	Sb 206.836†	474.5	448.3	511.27 µg/L	511.27 ppb	10:16:39
2	Se 196.026†	390.9	370.8	674.68 µg/L	674.68 ppb	10:16:39
2	SiO2†	124603.3	121369.2	27764 µg/L	27764 ppb	10:16:19
2	Si 251.611†	155917.5	153244.0	13142 µg/L	13142 ppb	10:16:13
2	Sn 189.927†	1127.3	1109.7	543.43 µg/L	543.43 ppb	10:16:39
2	Ti 334.940†	929267.9	915628.5	2575.1 µg/L	2575.1 ppb	10:16:13
2	Tl 190.801†	389.5	410.3	540.50 µg/L	540.50 ppb	10:16:39
2	U 409.014†	3799.9	3599.9	365.17 µg/L	365.17 ppb	10:16:19
2	V 292.402†	44184.4	43679.9	588.50 µg/L	588.50 ppb	10:16:19
2	Zn 213.857†	29833.0	28784.2	802.57 µg/L	802.57 ppb	10:16:19
3	Sc RADIAL	110525.2	110525.2	99.9 %		10:15:06
3	Al 396.153Radial†	72574.5	72700.4	38475 µg/L	38475 ppb	10:15:06
3	Ca 317.933Radial†	30217.4	29750.8	10156 µg/L	10156 ppb	10:15:06
3	Fe 238.204 Radial†	8844.8	8818.2	61058 µg/L	61058 ppb	10:15:27
3	K 766.490 Radial†	16308.3	16071.6	9547.7 µg/L	9547.7 ppb	10:15:06
3	Mg 279.077 IEC†	959.5	946.8	9304.5 µg/L	9304.5 ppb	10:15:27
3	Na 589.592 Radial†	15465.2	15158.8	4679.0 µg/L	4679.0 ppb	10:15:06
3	Sr 421.552†	121066.5	121015.8	503.32 µg/L	503.32 ppb	10:15:06
3	Sc 361.383	1689077.6	1689077.6	101.66 %		10:16:46
3	Y 371.029	979682.6	979682.6	104.53 %		10:16:46
3	Ag 328.068†	53629.0	53272.7	509.73 µg/L	509.73 ppb	10:16:52
3	As 188.979†	264.8	268.1	516.62 µg/L	516.62 ppb	10:17:13
3	B 249.677†	10000.9	9671.1	503.91 µg/L	503.91 ppb	10:16:52
3	Ba 233.527†	30012.9	29534.1	799.98 µg/L	799.98 ppb	10:16:52
3	Be 313.107†	708886.0	699006.8	521.23 µg/L	521.23 ppb	10:16:46
3	Cd 226.502†	17270.6	17129.9	512.81 µg/L	512.81 ppb	10:16:52
3	Co 228.616†	9964.3	9775.1	527.89 µg/L	527.89 ppb	10:16:52
3	Cr 267.716†	20160.2	19762.7	528.73 µg/L	528.73 ppb	10:16:52
3	Cu 324.752†	75181.7	71326.6	551.41 µg/L	551.41 ppb	10:16:52
3	Mn 257.610†	710007.7	699018.3	2646.6 µg/L	2646.6 ppb	10:16:46
3	Mo 202.031†	4212.8	4141.8	502.07 µg/L	502.07 ppb	10:17:13
3	Ni 231.604†	8044.6	7618.3	556.89 µg/L	556.89 ppb	10:16:52
3	P 214.914†	757.6	504.0	1056.5 µg/L	1056.5 ppb	10:17:13
3	Pb 220.353†	1829.9	1765.3	587.71 µg/L	587.71 ppb	10:17:13
3	S 181.975 Axial†	1377.4	1334.4	5536.5 µg/L	5536.5 ppb	10:17:13
3	Sb 206.836†	454.4	427.8	487.70 µg/L	487.70 ppb	10:17:13
3	Se 196.026†	374.1	353.6	651.55 µg/L	651.55 ppb	10:17:13
3	SiO2†	117218.3	113904.4	26057 µg/L	26057 ppb	10:16:52
3	Si 251.611†	150116.0	147286.7	12631 µg/L	12631 ppb	10:16:46
3	Sn 189.927†	1054.6	1036.4	507.35 µg/L	507.35 ppb	10:17:13
3	Ti 334.940†	906072.1	891318.6	2506.7 µg/L	2506.7 ppb	10:16:46
3	Tl 190.801†	370.6	391.1	516.22 µg/L	516.22 ppb	10:17:13
3	U 409.014†	3625.3	3422.1	346.71 µg/L	346.71 ppb	10:16:52
3	V 292.402†	42646.9	42096.6	567.13 µg/L	567.13 ppb	10:16:52
3	Zn 213.857†	28936.9	27854.8	776.57 µg/L	776.57 ppb	10:16:52

Mean Data: 1202042580|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1688704.1	101.63 %	0.133			0.13%
Sc RADIAL	110368.1	99.8 %	0.13			0.13%
Y 371.029	978489.3	104.40 %	0.150			0.14%
Ag 328.068†	53763.9	514.42 µg/L	4.072	514.42 ppb	4.072	0.79%
Al 396.153Radial†	72644.1	38445 µg/L	38.9	38445 ppb	38.9	0.10%
As 188.979†	277.2	534.11 µg/L	16.898	534.11 ppb	16.898	3.16%
B 249.677†	9783.7	510.17 µg/L	5.526	510.17 ppb	5.526	1.08%
Ba 233.527†	30181.4	817.52 µg/L	15.235	817.52 ppb	15.235	1.86%
Be 313.107†	710271.2	529.63 µg/L	7.273	529.63 ppb	7.273	1.37%
Ca 317.933Radial†	29621.1	10112 µg/L	38.9	10112 ppb	38.9	0.38%
Cd 226.502†	17411.2	521.35 µg/L	7.407	521.35 ppb	7.407	1.42%
Co 228.616†	10003.3	540.25 µg/L	10.727	540.25 ppb	10.727	1.99%
Cr 267.716†	20298.6	543.07 µg/L	12.417	543.07 ppb	12.417	2.29%
Cu 324.752†	72894.8	563.28 µg/L	10.318	563.28 ppb	10.318	1.83%
Fe 238.204 Radial†	8815.6	61041 µg/L	307.5	61041 ppb	307.5	0.50%
K 766.490 Radial†	16011.8	9512.1 µg/L	31.49	9512.1 ppb	31.49	0.33%
Mg 279.077 IEC†	944.6	9283.5 µg/L	62.75	9283.5 ppb	62.75	0.68%
Mn 257.610†	710055.9	2688.4 µg/L	36.31	2688.4 ppb	36.31	1.35%
Mo 202.031†	4320.8	523.67 µg/L	18.713	523.67 ppb	18.713	3.57%
Na 589.592 Radial†	15129.0	4669.8 µg/L	8.63	4669.8 ppb	8.63	0.18%

Ni 231.604†	7785.4	569.08 µg/L	10.723	569.08 ppb	10.723	1.88%
P 214.914†	522.6	1097.7 µg/L	35.75	1097.7 ppb	35.75	3.26%
Pb 220.353†	1822.9	606.93 µg/L	16.677	606.93 ppb	16.677	2.75%
S 181.975 Axial†	1371.9	5692.0 µg/L	134.59	5692.0 ppb	134.59	2.36%
Sb 206.836†	442.0	503.93 µg/L	14.075	503.93 ppb	14.075	2.79%
Se 196.026†	367.3	669.30 µg/L	15.766	669.30 ppb	15.766	2.36%
SiO2†	119032.8	27230 µg/L	1017.3	27230 ppb	1017.3	3.74%
Si 251.611†	151437.3	12987 µg/L	309.1	12987 ppb	309.1	2.38%
Sn 189.927†	1084.9	531.26 µg/L	20.703	531.26 ppb	20.703	3.90%
Sr 421.552†	120778.1	502.33 µg/L	0.931	502.33 ppb	0.931	0.19%
Ti 334.940†	907414.1	2552.0 µg/L	39.21	2552.0 ppb	39.21	1.54%
Tl 190.801†	402.1	530.15 µg/L	12.529	530.15 ppb	12.529	2.36%
U 409.014†	3548.5	359.87 µg/L	11.464	359.87 ppb	11.464	3.19%
V 292.402†	43170.0	581.61 µg/L	12.543	581.61 ppb	12.543	2.16%
Zn 213.857†	28460.7	793.54 µg/L	14.706	793.54 ppb	14.706	1.85%

Sequence No.: 38
 Sample ID: 1202042578|952953|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 332
 Date Collected: 2/26/2010 10:17:22
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202042578|952953|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	107183.3	107183.3	96.9 %		10:17:55
1	Al 396.153Radial†	6115.3	6381.0	3377.9 µg/L	3377.9 ppb	10:17:55
1	Ca 317.933Radial†	3051.6	2659.3	907.83 µg/L	907.83 ppb	10:18:16
1	Fe 238.204 Radial†	1677.5	1697.8	11753 µg/L	11753 ppb	10:18:16
1	K 766.490 Radial†	1213.6	1003.2	595.97 µg/L	595.97 ppb	10:17:55
1	Mg 279.077 IEC†	74.7	63.7	617.59 µg/L	617.59 ppb	10:18:16
1	Na 589.592 Radial†	442.4	138.2	42.652 µg/L	42.652 ppb	10:17:55
1	Sr 421.552†	1697.5	1608.0	6.6880 µg/L	6.6880 ppb	10:17:55
1	Sc 361.383	1692173.7	1692173.7	101.84 %		10:19:18
1	Y 371.029	961159.3	961159.3	102.55 %		10:19:18
1	Ag 328.068†	-645.4	-116.4	0.4928 µg/L	0.4928 ppb	10:19:23
1	As 188.979†	-1.7	6.0	12.170 µg/L	12.170 ppb	10:19:44
1	B 249.677†	266.0	94.3	-0.9121 µg/L	-0.9121 ppb	10:19:23
1	Ba 233.527†	2052.0	2024.9	54.797 µg/L	54.797 ppb	10:19:44
1	Be 313.107†	-562.1	1116.0	0.7044 µg/L	0.7044 ppb	10:19:23
1	Cd 226.502†	-81.1	61.0	0.5232 µg/L	0.5232 ppb	10:19:44
1	Co 228.616†	88.4	59.9	2.5551 µg/L	2.5551 ppb	10:19:44
1	Cr 267.716†	188.5	116.0	3.1076 µg/L	3.1076 ppb	10:19:23
1	Cu 324.752†	3162.3	474.7	5.8028 µg/L	5.8028 ppb	10:19:23
1	Mn 257.610†	121879.7	120251.1	455.44 µg/L	455.44 ppb	10:19:23
1	Mo 202.031†	16.8	14.1	2.1497 µg/L	2.1497 ppb	10:19:44
1	Ni 231.604†	342.3	40.8	3.1302 µg/L	3.1302 ppb	10:19:44
1	P 214.914†	275.6	29.3	57.592 µg/L	57.592 ppb	10:19:44
1	Pb 220.353†	70.2	34.2	11.163 µg/L	11.163 ppb	10:19:44
1	S 181.975 Axial†	32.2	11.0	45.642 µg/L	45.642 ppb	10:19:44
1	Sb 206.836†	18.6	-0.9	-1.0183 µg/L	-1.0183 ppb	10:19:44
1	Se 196.026†	11.3	-3.3	33.956 µg/L	33.956 ppb	10:19:44
1	SiO2†	17456.1	15735.8	3599.7 µg/L	3599.7 ppb	10:19:23
1	Si 251.611†	20314.1	19562.6	1677.7 µg/L	1677.7 ppb	10:19:23
1	Sn 189.927†	-1.6	-2.6	-2.0073 µg/L	-2.0073 ppb	10:19:44
1	Ti 334.940†	122919.8	120702.0	339.50 µg/L	339.50 ppb	10:19:23
1	Tl 190.801†	-28.4	-1.4	4.6591 µg/L	4.6591 ppb	10:19:44
1	U 409.014†	-238.6	-378.5	-41.046 µg/L	-41.046 ppb	10:19:23
1	V 292.402†	570.5	704.5	9.7727 µg/L	9.7727 ppb	10:19:23
1	Zn 213.857†	2680.6	2021.4	56.232 µg/L	56.232 ppb	10:19:44
2	Sc RADIAL	107948.5	107948.5	97.6 %		10:18:21
2	Al 396.153Radial†	6136.7	6358.1	3365.8 µg/L	3365.8 ppb	10:18:21
2	Ca 317.933Radial†	3042.9	2628.1	897.16 µg/L	897.16 ppb	10:18:41
2	Fe 238.204 Radial†	1670.1	1677.8	11615 µg/L	11615 ppb	10:18:41
2	K 766.490 Radial†	1238.2	1019.6	605.69 µg/L	605.69 ppb	10:18:21
2	Mg 279.077 IEC†	80.3	68.8	668.15 µg/L	668.15 ppb	10:18:41
2	Na 589.592 Radial†	456.3	149.2	46.053 µg/L	46.053 ppb	10:18:21
2	Sr 421.552†	1653.3	1550.3	6.4478 µg/L	6.4478 ppb	10:18:21
2	Sc 361.383	1701416.8	1701416.8	102.40 %		10:19:50
2	Y 371.029	962470.7	962470.7	102.69 %		10:19:50
2	Ag 328.068†	-628.4	-96.4	0.6633 µg/L	0.6633 ppb	10:19:55
2	As 188.979†	1.7	9.4	18.592 µg/L	18.592 ppb	10:20:16
2	B 249.677†	301.8	127.8	1.0133 µg/L	1.0133 ppb	10:19:55
2	Ba 233.527†	2045.2	2007.4	54.324 µg/L	54.324 ppb	10:20:16
2	Be 313.107†	-576.4	1105.1	0.6976 µg/L	0.6976 ppb	10:19:55
2	Cd 226.502†	-89.8	52.9	0.2952 µg/L	0.2952 ppb	10:20:16
2	Co 228.616†	85.6	56.7	2.3896 µg/L	2.3896 ppb	10:20:16
2	Cr 267.716†	171.4	98.3	2.6333 µg/L	2.6333 ppb	10:19:55
2	Cu 324.752†	3187.3	482.2	5.8339 µg/L	5.8339 ppb	10:19:55
2	Mn 257.610†	120808.7	118555.1	449.01 µg/L	449.01 ppb	10:19:55
2	Mo 202.031†	18.2	15.3	2.2919 µg/L	2.2919 ppb	10:20:16
2	Ni 231.604†	353.4	49.8	3.7896 µg/L	3.7896 ppb	10:20:16
2	P 214.914†	277.5	29.7	58.660 µg/L	58.660 ppb	10:20:16
2	Pb 220.353†	68.4	32.0	10.426 µg/L	10.426 ppb	10:20:16

2	S 181.975 Axial†	26.3	5.1	21.141 µg/L	21.141 ppb	10:20:16
2	Sb 206.836†	22.5	2.8	3.1663 µg/L	3.1663 ppb	10:20:16
2	Se 196.026†	4.2	-10.3	24.393 µg/L	24.393 ppb	10:20:16
2	SiO2†	17346.1	15535.3	3553.8 µg/L	3553.8 ppb	10:19:55
2	Si 251.611†	20262.8	19404.2	1664.1 µg/L	1664.1 ppb	10:19:55
2	Sn 189.927†	4.8	3.7	1.1062 µg/L	1.1062 ppb	10:20:16
2	Ti 334.940†	122248.5	119390.7	335.81 µg/L	335.81 ppb	10:19:55
2	Tl 190.801†	-26.3	0.8	7.2440 µg/L	7.2440 ppb	10:20:16
2	U 409.014†	-149.1	-289.9	-31.811 µg/L	-31.811 ppb	10:19:55
2	V 292.402†	590.3	720.8	9.9950 µg/L	9.9950 ppb	10:19:55
2	Zn 213.857†	2675.2	2001.7	55.680 µg/L	55.680 ppb	10:20:16
3	Sc RADIAL	107557.4	107557.4	97.2 %		10:18:47
3	Al 396.153Radial†	6095.8	6339.0	3355.7 µg/L	3355.7 ppb	10:18:47
3	Ca 317.933Radial†	3019.6	2615.5	892.88 µg/L	892.88 ppb	10:19:07
3	Fe 238.204 Radial†	1664.5	1678.3	11619 µg/L	11619 ppb	10:19:07
3	K 766.490 Radial†	1187.3	971.8	577.32 µg/L	577.32 ppb	10:18:47
3	Mg 279.077 IEC†	75.7	64.4	624.40 µg/L	624.40 ppb	10:19:07
3	Na 589.592 Radial†	447.2	141.5	43.683 µg/L	43.683 ppb	10:18:47
3	Sr 421.552†	1645.8	1548.8	6.4415 µg/L	6.4415 ppb	10:18:47
3	Sc 361.383	1689469.4	1689469.4	101.68 %		10:20:22
3	Y 371.029	952209.6	952209.6	101.60 %		10:20:22
3	Ag 328.068†	-645.7	-117.8	0.4616 µg/L	0.4616 ppb	10:20:28
3	As 188.979†	0.2	7.8	15.690 µg/L	15.690 ppb	10:20:48
3	B 249.677†	296.8	125.0	0.8569 µg/L	0.8569 ppb	10:20:28
3	Ba 233.527†	1833.7	1813.5	49.077 µg/L	49.077 ppb	10:20:48
3	Be 313.107†	-597.8	1080.1	0.6851 µg/L	0.6851 ppb	10:20:28
3	Cd 226.502†	-88.9	53.2	0.3022 µg/L	0.3022 ppb	10:20:48
3	Co 228.616†	75.9	47.7	1.9345 µg/L	1.9345 ppb	10:20:48
3	Cr 267.716†	144.2	72.7	1.9499 µg/L	1.9499 ppb	10:20:28
3	Cu 324.752†	3127.1	445.0	5.5532 µg/L	5.5532 ppb	10:20:28
3	Mn 257.610†	114861.6	113540.4	430.05 µg/L	430.05 ppb	10:20:28
3	Mo 202.031†	7.2	4.6	1.0023 µg/L	1.0023 ppb	10:20:48
3	Ni 231.604†	341.6	40.7	3.1226 µg/L	3.1226 ppb	10:20:48
3	P 214.914†	270.2	24.4	46.656 µg/L	46.656 ppb	10:20:48
3	Pb 220.353†	62.2	26.4	8.5713 µg/L	8.5713 ppb	10:20:48
3	S 181.975 Axial†	27.0	6.0	24.767 µg/L	24.767 ppb	10:20:48
3	Sb 206.836†	19.1	-0.4	-0.4570 µg/L	-0.4570 ppb	10:20:48
3	Se 196.026†	11.7	-2.8	34.100 µg/L	34.100 ppb	10:20:48
3	SiO2†	16812.9	15130.7	3461.3 µg/L	3461.3 ppb	10:20:28
3	Si 251.611†	19574.8	18867.5	1618.1 µg/L	1618.1 ppb	10:20:28
3	Sn 189.927†	1.2	0.2	-0.6127 µg/L	-0.6127 ppb	10:20:48
3	Ti 334.940†	115543.5	113640.7	319.64 µg/L	319.64 ppb	10:20:28
3	Tl 190.801†	-29.9	-2.9	2.4991 µg/L	2.4991 ppb	10:20:48
3	U 409.014†	-184.1	-325.3	-35.493 µg/L	-35.493 ppb	10:20:28
3	V 292.402†	556.7	691.8	9.5938 µg/L	9.5938 ppb	10:20:28
3	Zn 213.857†	2450.6	1799.3	49.994 µg/L	49.994 ppb	10:20:48

Mean Data: 1202042578|952953|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1694353.3	101.97 %	0.377			0.37%
Sc RADIAL	107563.1	97.2 %	0.35			0.36%
Y 371.029	958613.2	102.28 %	0.596			0.58%
Ag 328.068†	-110.2	0.5392 µg/L	0.10857	0.5392 ppb	0.10857	20.13%
Al 396.153Radial†	6359.4	3366.4 µg/L	11.12	3366.4 ppb	11.12	0.33%
As 188.979†	7.7	15.484 µg/L	3.2159	15.484 ppb	3.2159	20.77%
B 249.677†	115.7	0.3194 µg/L	1.06934	0.3194 ppb	1.06934	334.82%
Ba 233.527†	1948.6	52.733 µg/L	3.1744	52.733 ppb	3.1744	6.02%
Be 313.107†	1100.4	0.6957 µg/L	0.00978	0.6957 ppb	0.00978	1.41%
Ca 317.933Radial†	2634.3	899.29 µg/L	7.699	899.29 ppb	7.699	0.86%
Cd 226.502†	55.7	0.3735 µg/L	0.12965	0.3735 ppb	0.12965	34.71%
Co 228.616†	54.8	2.2931 µg/L	0.32139	2.2931 ppb	0.32139	14.02%
Cr 267.716†	95.7	2.5636 µg/L	0.58194	2.5636 ppb	0.58194	22.70%
Cu 324.752†	467.3	5.7300 µg/L	0.15391	5.7300 ppb	0.15391	2.69%
Fe 238.204 Radial†	1684.6	11663 µg/L	78.7	11663 ppb	78.7	0.67%
K 766.490 Radial†	998.2	592.99 µg/L	14.416	592.99 ppb	14.416	2.43%
Mg 279.077 IEC†	65.7	636.71 µg/L	27.434	636.71 ppb	27.434	4.31%
Mn 257.610†	117448.9	444.83 µg/L	13.200	444.83 ppb	13.200	2.97%
Mo 202.031†	11.4	1.8146 µg/L	0.70710	1.8146 ppb	0.70710	38.97%
Na 589.592 Radial†	143.0	44.129 µg/L	1.7438	44.129 ppb	1.7438	3.95%

Ni 231.604†	43.8	3.3474 µg/L	0.38293	3.3474 ppb	0.38293	11.44%
P 214.914†	27.8	54.303 µg/L	6.6438	54.303 ppb	6.6438	12.23%
Pb 220.353†	30.9	10.053 µg/L	1.3353	10.053 ppb	1.3353	13.28%
S 181.975 Axial†	7.4	30.517 µg/L	13.2240	30.517 ppb	13.2240	43.33%
Sb 206.836†	0.5	0.5637 µg/L	2.27133	0.5637 ppb	2.27133	402.96%
Se 196.026†	-5.5	30.816 µg/L	5.5630	30.816 ppb	5.5630	18.05%
SiO2†	15467.2	3538.3 µg/L	70.51	3538.3 ppb	70.51	1.99%
Si 251.611†	19278.1	1653.3 µg/L	31.24	1653.3 ppb	31.24	1.89%
Sn 189.927†	0.4	-0.5046 µg/L	1.55958	-0.5046 ppb	1.55958	309.08%
Sr 421.552†	1569.0	6.5258 µg/L	0.14053	6.5258 ppb	0.14053	2.15%
Ti 334.940†	117911.1	331.65 µg/L	10.565	331.65 ppb	10.565	3.19%
Tl 190.801†	-1.2	4.8007 µg/L	2.37560	4.8007 ppb	2.37560	49.48%
U 409.014†	-331.2	-36.117 µg/L	4.6490	-36.117 ppb	4.6490	12.87%
V 292.402†	705.7	9.7872 µg/L	0.20097	9.7872 ppb	0.20097	2.05%
Zn 213.857†	1940.8	53.968 µg/L	3.4531	53.968 ppb	3.4531	6.40%

Sequence No.: 39

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 10:20:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	112551.0	112551.0	102 %		10:21:36
1	Al 396.153Radial†	9759.3	9661.2	5103.4 µg/L	5103.4 ppb	10:21:36
1	Ca 317.933Radial†	15689.4	14929.0	5096.4 µg/L	5096.4 ppb	10:21:36
1	Fe 238.204 Radial†	733.6	687.5	4770.3 µg/L	4770.3 ppb	10:21:56
1	K 766.490 Radial†	8939.6	8536.3	5071.1 µg/L	5071.1 ppb	10:21:36
1	Mg 279.077 IEC†	523.8	501.3	4960.7 µg/L	4960.7 ppb	10:21:56
1	Na 589.592 Radial†	30453.7	29610.2	9139.7 µg/L	9139.7 ppb	10:21:36
1	Sr 421.552†	113796.8	111690.7	464.54 µg/L	464.54 ppb	10:21:36
1	Sc 361.383	1700491.5	1700491.5	102.34 %		10:23:00
1	Y 371.029	957957.3	957957.3	102.21 %		10:23:00
1	Ag 328.068†	54365.0	53637.7	505.52 µg/L	505.52 ppb	10:23:05
1	As 188.979†	271.2	272.6	522.22 µg/L	522.22 ppb	10:23:26
1	B 249.677†	9448.6	9065.4	499.75 µg/L	499.75 ppb	10:23:05
1	Ba 233.527†	19194.9	18765.6	508.57 µg/L	508.57 ppb	10:23:05
1	Be 313.107†	690179.4	676047.9	504.84 µg/L	504.84 ppb	10:23:00
1	Cd 226.502†	17021.7	16772.6	508.32 µg/L	508.32 ppb	10:23:05
1	Co 228.616†	9667.3	9419.1	512.69 µg/L	512.69 ppb	10:23:05
1	Cr 267.716†	19546.3	19029.7	509.10 µg/L	509.10 ppb	10:23:05
1	Cu 324.752†	71247.8	66986.3	507.97 µg/L	507.97 ppb	10:23:05
1	Mn 257.610†	137618.2	135044.0	510.68 µg/L	510.68 ppb	10:23:05
1	Mo 202.031†	4500.0	4394.6	530.44 µg/L	530.44 ppb	10:23:26
1	Ni 231.604†	7734.4	7262.1	530.15 µg/L	530.15 ppb	10:23:05
1	P 214.914†	1414.4	1140.8	2542.2 µg/L	2542.2 ppb	10:23:26
1	Pb 220.353†	1649.3	1576.7	525.24 µg/L	525.24 ppb	10:23:26
1	S 181.975 Axial†	285.7	258.6	1072.9 µg/L	1072.9 ppb	10:23:26
1	Sb 206.836†	491.3	460.9	526.04 µg/L	526.04 ppb	10:23:26
1	Se 196.026†	432.0	407.7	539.59 µg/L	539.59 ppb	10:23:26
1	SiO2†	25749.8	23755.8	5434.4 µg/L	5434.4 ppb	10:23:05
1	Si 251.611†	30710.6	29623.5	2540.5 µg/L	2540.5 ppb	10:23:05
1	Sn 189.927†	1109.6	1083.1	533.63 µg/L	533.63 ppb	10:23:26
1	Ti 334.940†	184966.2	180737.6	508.11 µg/L	508.11 ppb	10:23:00
1	Tl 190.801†	408.3	425.5	524.31 µg/L	524.31 ppb	10:23:26
1	U 409.014†	5020.7	4761.5	494.12 µg/L	494.12 ppb	10:23:05
1	V 292.402†	38838.0	38093.2	512.19 µg/L	512.19 ppb	10:23:05
1	Zn 213.857†	19358.5	18304.6	511.09 µg/L	511.09 ppb	10:23:05
2	Sc RADIAL	112219.1	112219.1	101 %		10:22:02
2	Al 396.153Radial†	9753.8	9684.1	5115.7 µg/L	5115.7 ppb	10:22:02
2	Ca 317.933Radial†	15631.4	14917.5	5092.5 µg/L	5092.5 ppb	10:22:02
2	Fe 238.204 Radial†	733.4	689.5	4784.0 µg/L	4784.0 ppb	10:22:22
2	K 766.490 Radial†	8786.5	8411.3	4996.9 µg/L	4996.9 ppb	10:22:02
2	Mg 279.077 IEC†	522.1	501.2	4959.7 µg/L	4959.7 ppb	10:22:22
2	Na 589.592 Radial†	30275.6	29523.2	9112.8 µg/L	9112.8 ppb	10:22:02
2	Sr 421.552†	113466.1	111695.4	464.56 µg/L	464.56 ppb	10:22:02
2	Sc 361.383	1701623.0	1701623.0	102.41 %		10:23:32
2	Y 371.029	956930.5	956930.5	102.10 %		10:23:32
2	Ag 328.068†	54313.4	53552.0	504.71 µg/L	504.71 ppb	10:23:38
2	As 188.979†	266.2	267.6	512.58 µg/L	512.58 ppb	10:23:59
2	B 249.677†	9417.7	9029.1	497.73 µg/L	497.73 ppb	10:23:38
2	Ba 233.527†	19229.7	18787.1	509.15 µg/L	509.15 ppb	10:23:38
2	Be 313.107†	688263.4	673728.5	503.11 µg/L	503.11 ppb	10:23:32
2	Cd 226.502†	16944.8	16686.5	505.70 µg/L	505.70 ppb	10:23:38
2	Co 228.616†	9638.1	9384.3	510.79 µg/L	510.79 ppb	10:23:38
2	Cr 267.716†	19484.2	18956.4	507.14 µg/L	507.14 ppb	10:23:38
2	Cu 324.752†	71323.6	67014.1	508.19 µg/L	508.19 ppb	10:23:38
2	Mn 257.610†	137262.5	134607.2	509.03 µg/L	509.03 ppb	10:23:38
2	Mo 202.031†	4434.8	4328.0	522.40 µg/L	522.40 ppb	10:23:59
2	Ni 231.604†	7691.8	7215.5	526.74 µg/L	526.74 ppb	10:23:38
2	P 214.914†	1401.2	1126.9	2510.5 µg/L	2510.5 ppb	10:23:59
2	Pb 220.353†	1623.3	1550.3	516.43 µg/L	516.43 ppb	10:23:59

2	S 181.975 Axial†	283.0	255.8	1061.2 µg/L	1061.2 ppb	10:23:59
2	Sb 206.836†	473.6	443.3	505.92 µg/L	505.92 ppb	10:23:59
2	Se 196.026†	426.3	401.9	532.14 µg/L	532.14 ppb	10:23:59
2	SiO2†	25908.2	23893.7	5465.9 µg/L	5465.9 ppb	10:23:38
2	Si 251.611†	30897.7	29786.2	2554.5 µg/L	2554.5 ppb	10:23:38
2	Sn 189.927†	1092.6	1065.8	525.11 µg/L	525.11 ppb	10:23:59
2	Ti 334.940†	184642.0	180300.8	506.88 µg/L	506.88 ppb	10:23:32
2	Tl 190.801†	400.5	417.6	514.69 µg/L	514.69 ppb	10:23:59
2	U 409.014†	4997.2	4735.3	491.39 µg/L	491.39 ppb	10:23:38
2	V 292.402†	38793.1	38024.2	511.21 µg/L	511.21 ppb	10:23:38
2	Zn 213.857†	19326.5	18260.7	509.87 µg/L	509.87 ppb	10:23:38
3	Sc RADIAL	112022.8	112022.8	101 %		10:22:28
3	Al 396.153Radial†	9618.2	9567.1	5055.1 µg/L	5055.1 ppb	10:22:28
3	Ca 317.933Radial†	15516.6	14831.1	5063.0 µg/L	5063.0 ppb	10:22:28
3	Fe 238.204 Radial†	730.9	688.3	4774.9 µg/L	4774.9 ppb	10:22:48
3	K 766.490 Radial†	8738.5	8379.1	4977.8 µg/L	4977.8 ppb	10:22:28
3	Mg 279.077 IEC†	520.1	500.1	4947.3 µg/L	4947.3 ppb	10:22:48
3	Na 589.592 Radial†	30220.4	29520.9	9112.1 µg/L	9112.1 ppb	10:22:28
3	Sr 421.552†	112950.2	111382.0	463.26 µg/L	463.26 ppb	10:22:28
3	Sc 361.383	1701308.8	1701308.8	102.39 %		10:24:05
3	Y 371.029	954964.3	954964.3	101.89 %		10:24:05
3	Ag 328.068†	52732.6	52018.0	490.18 µg/L	490.18 ppb	10:24:11
3	As 188.979†	243.8	245.7	470.76 µg/L	470.76 ppb	10:24:32
3	B 249.677†	9144.9	8764.4	483.04 µg/L	483.04 ppb	10:24:11
3	Ba 233.527†	18368.6	17949.5	486.44 µg/L	486.44 ppb	10:24:11
3	Be 313.107†	666632.1	652726.7	487.42 µg/L	487.42 ppb	10:24:05
3	Cd 226.502†	16218.1	15979.9	484.26 µg/L	484.26 ppb	10:24:11
3	Co 228.616†	9131.5	8891.3	483.90 µg/L	483.90 ppb	10:24:11
3	Cr 267.716†	18134.6	17641.8	471.97 µg/L	471.97 ppb	10:24:11
3	Cu 324.752†	67551.6	63343.1	480.40 µg/L	480.40 ppb	10:24:11
3	Mn 257.610†	129985.0	127524.5	482.24 µg/L	482.24 ppb	10:24:11
3	Mo 202.031†	3895.0	3801.6	458.88 µg/L	458.88 ppb	10:24:32
3	Ni 231.604†	7305.5	6839.5	499.30 µg/L	499.30 ppb	10:24:11
3	P 214.914†	1277.7	1006.6	2239.1 µg/L	2239.1 ppb	10:24:32
3	Pb 220.353†	1494.8	1425.1	474.61 µg/L	474.61 ppb	10:24:32
3	S 181.975 Axial†	261.9	235.2	976.01 µg/L	976.01 ppb	10:24:32
3	Sb 206.836†	434.0	404.7	461.53 µg/L	461.53 ppb	10:24:32
3	Se 196.026†	391.2	367.7	487.88 µg/L	487.88 ppb	10:24:32
3	SiO2†	24933.3	22946.3	5249.2 µg/L	5249.2 ppb	10:24:11
3	Si 251.611†	29713.2	28635.0	2455.8 µg/L	2455.8 ppb	10:24:11
3	Sn 189.927†	943.4	920.4	453.49 µg/L	453.49 ppb	10:24:32
3	Ti 334.940†	178295.1	174135.5	489.54 µg/L	489.54 ppb	10:24:05
3	Tl 190.801†	376.4	394.2	485.88 µg/L	485.88 ppb	10:24:32
3	U 409.014†	4705.1	4450.9	461.82 µg/L	461.82 ppb	10:24:11
3	V 292.402†	36614.8	35903.8	482.43 µg/L	482.43 ppb	10:24:11
3	Zn 213.857†	18440.7	17399.1	485.81 µg/L	485.81 ppb	10:24:11

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1701141.1	102.38 %	0.035			0.03%
Sc RADIAL	112264.3	101 %	0.2			0.24%
Y 371.029	956617.4	102.07 %	0.162			0.16%
Ag 328.068†	53069.2	500.14 µg/L	8.632	500.14 ppb	8.632	1.73%
QC value within limits for Ag 328.068 Recovery = 100.03%						
Al 396.153Radial†	9637.5	5091.4 µg/L	32.06	5091.4 ppb	32.06	0.63%
QC value within limits for Al 396.153Radial Recovery = 101.83%						
As 188.979†	262.0	501.85 µg/L	27.359	501.85 ppb	27.359	5.45%
QC value within limits for As 188.979 Recovery = 100.37%						
B 249.677†	8953.0	493.50 µg/L	9.121	493.50 ppb	9.121	1.85%
QC value within limits for B 249.677 Recovery = 98.70%						
Ba 233.527†	18500.8	501.39 µg/L	12.947	501.39 ppb	12.947	2.58%
QC value within limits for Ba 233.527 Recovery = 100.28%						
Be 313.107†	667501.0	498.46 µg/L	9.593	498.46 ppb	9.593	1.92%
QC value within limits for Be 313.107 Recovery = 99.69%						
Ca 317.933Radial†	14892.5	5084.0 µg/L	18.27	5084.0 ppb	18.27	0.36%
QC value within limits for Ca 317.933Radial Recovery = 101.68%						
Cd 226.502†	16479.7	499.42 µg/L	13.200	499.42 ppb	13.200	2.64%
QC value within limits for Cd 226.502 Recovery = 99.88%						
Co 228.616†	9231.6	502.46 µg/L	16.099	502.46 ppb	16.099	3.20%

Cr	267.716†	18542.6	496.07 µg/L	20.891	496.07 ppb	20.891	4.21%
Cu	324.752†	65781.2	498.85 µg/L	15.984	498.85 ppb	15.984	3.20%
Fe	238.204 Radial†	688.4	4776.4 µg/L	6.95	4776.4 ppb	6.95	0.15%
K	766.490 Radial†	8442.2	5015.3 µg/L	49.33	5015.3 ppb	49.33	0.98%
Mg	279.077 IEC†	500.9	4955.9 µg/L	7.47	4955.9 ppb	7.47	0.15%
Mn	257.610†	132391.9	500.65 µg/L	15.963	500.65 ppb	15.963	3.19%
Mo	202.031†	4174.8	503.91 µg/L	39.200	503.91 ppb	39.200	7.78%
Na	589.592 Radial†	29551.4	9121.5 µg/L	15.72	9121.5 ppb	15.72	0.17%
Ni	231.604†	7105.7	518.73 µg/L	16.913	518.73 ppb	16.913	3.26%
P	214.914†	1091.4	2430.6 µg/L	166.58	2430.6 ppb	166.58	6.85%
Pb	220.353†	1517.4	505.43 µg/L	27.048	505.43 ppb	27.048	5.35%
S	181.975 Axial†	249.9	1036.7 µg/L	52.87	1036.7 ppb	52.87	5.10%
Sb	206.836†	436.3	497.83 µg/L	33.010	497.83 ppb	33.010	6.63%
Se	196.026†	392.4	519.87 µg/L	27.953	519.87 ppb	27.953	5.38%
SiO2†		23532.0	5383.2 µg/L	117.09	5383.2 ppb	117.09	2.18%
Si	251.611†	29348.3	2516.9 µg/L	53.43	2516.9 ppb	53.43	2.12%
Sn	189.927†	1023.1	504.07 µg/L	44.013	504.07 ppb	44.013	8.73%
Sr	421.552†	111589.4	464.12 µg/L	0.747	464.12 ppb	0.747	0.16%
Ti	334.940†	178391.3	501.51 µg/L	10.386	501.51 ppb	10.386	2.07%
Tl	190.801†	412.4	508.30 µg/L	19.999	508.30 ppb	19.999	3.93%
U	409.014†	4649.3	482.44 µg/L	17.912	482.44 ppb	17.912	3.71%
V	292.402†	37340.4	501.94 µg/L	16.909	501.94 ppb	16.909	3.37%
Zn	213.857†	17988.1	502.26 µg/L	14.258	502.26 ppb	14.258	2.84%

QC value within limits for Co 228.616 Recovery = 100.49%

QC value within limits for Cr 267.716 Recovery = 99.21%

QC value within limits for Cu 324.752 Recovery = 99.77%

QC value within limits for Fe 238.204 Radial Recovery = 95.53%

QC value within limits for K 766.490 Radial Recovery = 100.31%

QC value within limits for Mg 279.077 IEC Recovery = 99.12%

QC value within limits for Mn 257.610 Recovery = 100.13%

QC value within limits for Mo 202.031 Recovery = 100.78%

QC value within limits for Na 589.592 Radial Recovery = 91.22%

QC value within limits for Ni 231.604 Recovery = 103.75%

QC value within limits for P 214.914 Recovery = 97.22%

QC value within limits for Pb 220.353 Recovery = 101.09%

QC value within limits for S 181.975 Axial Recovery = 103.67%

QC value within limits for Sb 206.836 Recovery = 99.57%

QC value within limits for Se 196.026 Recovery = 103.97%

QC value within limits for SiO2 Recovery = 100.67%

QC value within limits for Si 251.611 Recovery = 100.68%

QC value within limits for Sn 189.927 Recovery = 100.81%

QC value within limits for Sr 421.552 Recovery = 92.82%

QC value within limits for Ti 334.940 Recovery = 100.30%

QC value within limits for Tl 190.801 Recovery = 101.66%

QC value within limits for U 409.014 Recovery = 96.49%

QC value within limits for V 292.402 Recovery = 100.39%

QC value within limits for Zn 213.857 Recovery = 100.45%

All analyte(s) passed QC.

Sequence No.: 40

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 10:24:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110466.5	110466.5	99.9 %		10:25:14
1	Al 396.153Radial†	-193.8	-123.9	-65.643 µg/L	-65.643 ppb	10:25:14
1	Ca 317.933Radial†	390.2	-99.1	-33.837 µg/L	-33.837 ppb	10:25:35
1	Fe 238.204 Radial†	32.7	-0.7	-4.5396 µg/L	-4.5396 ppb	10:25:35
1	K 766.490 Radial†	292.2	43.3	25.739 µg/L	25.739 ppb	10:25:14
1	Mg 279.077 IEC†	13.8	0.4	4.1984 µg/L	4.1984 ppb	10:25:35
1	Na 589.592 Radial†	198.4	-119.7	-36.952 µg/L	-36.952 ppb	10:25:14
1	Sr 421.552†	154.9	11.3	0.0470 µg/L	0.0470 ppb	10:25:14
1	Sc 361.383	1706082.9	1706082.9	102.68 %		10:26:37
1	Y 371.029	961909.3	961909.3	102.63 %		10:26:37
1	Ag 328.068†	-494.2	36.0	0.3341 µg/L	0.3341 ppb	10:26:42
1	As 188.979†	-6.0	1.8	3.4113 µg/L	3.4113 ppb	10:27:03
1	B 249.677†	165.8	-5.4	-0.2968 µg/L	-0.2968 ppb	10:27:03
1	Ba 233.527†	-8.9	1.5	0.0395 µg/L	0.0395 ppb	10:27:03
1	Be 313.107†	-1690.4	21.8	0.0162 µg/L	0.0162 ppb	10:26:42
1	Cd 226.502†	-141.9	2.4	0.0734 µg/L	0.0734 ppb	10:27:03
1	Co 228.616†	18.0	-9.4	-0.5090 µg/L	-0.5090 ppb	10:27:03
1	Cr 267.716†	67.0	-3.9	-0.1043 µg/L	-0.1043 ppb	10:27:03
1	Cu 324.752†	2626.7	-72.3	-0.5478 µg/L	-0.5478 ppb	10:26:42
1	Mn 257.610†	-537.7	52.4	0.1977 µg/L	0.1977 ppb	10:27:03
1	Mo 202.031†	15.9	13.1	1.5803 µg/L	1.5803 ppb	10:27:03
1	Ni 231.604†	299.2	-3.9	-0.2855 µg/L	-0.2855 ppb	10:27:03
1	P 214.914†	231.5	-15.9	-35.950 µg/L	-35.950 ppb	10:27:03
1	Pb 220.353†	29.5	-6.0	-2.0065 µg/L	-2.0065 ppb	10:27:03
1	S 181.975 Axial†	24.6	3.3	13.864 µg/L	13.864 ppb	10:27:03
1	Sb 206.836†	22.8	3.1	3.5013 µg/L	3.5013 ppb	10:27:03
1	Se 196.026†	15.9	1.1	1.3989 µg/L	1.3989 ppb	10:27:03
1	SiO2†	1449.2	6.9	1.5699 µg/L	1.5699 ppb	10:26:42
1	Si 251.611†	467.4	71.2	6.1060 µg/L	6.1060 ppb	10:27:03
1	Sn 189.927†	2.2	1.1	0.5529 µg/L	0.5529 ppb	10:27:03
1	Ti 334.940†	69.7	73.5	0.2060 µg/L	0.2060 ppb	10:26:42
1	Tl 190.801†	-25.4	1.8	2.1617 µg/L	2.1617 ppb	10:27:03
1	U 409.014†	128.0	-19.6	-2.0327 µg/L	-2.0327 ppb	10:26:42
1	V 292.402†	-173.1	-24.2	-0.3122 µg/L	-0.3122 ppb	10:26:42
1	Zn 213.857†	569.0	-56.6	-1.5896 µg/L	-1.5896 ppb	10:27:03
2	Sc RADIAL	110291.7	110291.7	99.7 %		10:25:40
2	Al 396.153Radial†	-179.0	-109.3	-57.894 µg/L	-57.894 ppb	10:25:40
2	Ca 317.933Radial†	400.0	-88.7	-30.268 µg/L	-30.268 ppb	10:26:01
2	Fe 238.204 Radial†	32.7	-0.6	-4.4868 µg/L	-4.4868 ppb	10:26:01
2	K 766.490 Radial†	276.8	28.4	16.872 µg/L	16.872 ppb	10:25:40
2	Mg 279.077 IEC†	11.0	-2.3	-23.109 µg/L	-23.109 ppb	10:26:01
2	Na 589.592 Radial†	207.6	-110.1	-34.000 µg/L	-34.000 ppb	10:25:40
2	Sr 421.552†	179.5	36.2	0.1506 µg/L	0.1506 ppb	10:25:40
2	Sc 361.383	1686125.6	1686125.6	101.48 %		10:27:09
2	Y 371.029	954077.8	954077.8	101.80 %		10:27:09
2	Ag 328.068†	-471.6	52.6	0.4875 µg/L	0.4875 ppb	10:27:14
2	As 188.979†	-0.6	7.1	13.569 µg/L	13.569 ppb	10:27:35
2	B 249.677†	190.8	21.1	1.1689 µg/L	1.1689 ppb	10:27:35
2	Ba 233.527†	-13.5	-3.2	-0.0885 µg/L	-0.0885 ppb	10:27:35
2	Be 313.107†	-1707.6	-14.7	-0.0111 µg/L	-0.0111 ppb	10:27:14
2	Cd 226.502†	-132.7	9.9	0.2994 µg/L	0.2994 ppb	10:27:35
2	Co 228.616†	22.2	-5.0	-0.2715 µg/L	-0.2715 ppb	10:27:35
2	Cr 267.716†	66.9	-3.2	-0.0866 µg/L	-0.0866 ppb	10:27:35
2	Cu 324.752†	2666.3	-2.9	-0.0231 µg/L	-0.0231 ppb	10:27:14
2	Mn 257.610†	-547.9	36.2	0.1382 µg/L	0.1382 ppb	10:27:35
2	Mo 202.031†	9.0	6.4	0.7780 µg/L	0.7780 ppb	10:27:35
2	Ni 231.604†	293.7	-5.9	-0.4282 µg/L	-0.4282 ppb	10:27:35
2	P 214.914†	231.1	-13.6	-30.831 µg/L	-30.831 ppb	10:27:35
2	Pb 220.353†	31.4	-3.9	-1.2899 µg/L	-1.2899 ppb	10:27:35

2	S 181.975 Axial†	21.2	0.3	1.1507 µg/L	1.1507 ppb	10:27:35
2	Sb 206.836†	24.6	5.1	5.8238 µg/L	5.8238 ppb	10:27:35
2	Se 196.026†	11.5	-3.1	-3.9822 µg/L	-3.9822 ppb	10:27:35
2	SiO2†	1481.4	55.3	12.657 µg/L	12.657 ppb	10:27:14
2	Si 251.611†	503.5	112.2	9.6182 µg/L	9.6182 ppb	10:27:35
2	Sn 189.927†	5.4	4.3	2.1280 µg/L	2.1280 ppb	10:27:35
2	Ti 334.940†	77.2	81.7	0.2310 µg/L	0.2310 ppb	10:27:14
2	Tl 190.801†	-23.3	3.5	4.3056 µg/L	4.3056 ppb	10:27:35
2	U 409.014†	129.7	-16.4	-1.6999 µg/L	-1.6999 ppb	10:27:14
2	V 292.402†	-186.0	-38.9	-0.5133 µg/L	-0.5133 ppb	10:27:14
2	Zn 213.857†	571.2	-47.9	-1.3427 µg/L	-1.3427 ppb	10:27:35
3	Sc RADIAL	110590.8	110590.8	100.0 %		10:26:06
3	Al 396.153Radial†	-166.8	-96.7	-51.221 µg/L	-51.221 ppb	10:26:06
3	Ca 317.933Radial†	400.5	-89.3	-30.484 µg/L	-30.484 ppb	10:26:26
3	Fe 238.204 Radial†	31.6	-1.9	-12.815 µg/L	-12.815 ppb	10:26:26
3	K 766.490 Radial†	271.2	22.1	13.105 µg/L	13.105 ppb	10:26:06
3	Mg 279.077 IEC†	9.3	-4.1	-40.312 µg/L	-40.312 ppb	10:26:26
3	Na 589.592 Radial†	247.8	-70.5	-21.748 µg/L	-21.748 ppb	10:26:06
3	Sr 421.552†	178.8	35.1	0.1459 µg/L	0.1459 ppb	10:26:06
3	Sc 361.383	1677695.2	1677695.2	100.97 %		10:27:41
3	Y 371.029	947730.2	947730.2	101.12 %		10:27:41
3	Ag 328.068†	-422.7	98.7	0.9260 µg/L	0.9260 ppb	10:27:47
3	As 188.979†	-4.4	3.3	6.3228 µg/L	6.3228 ppb	10:28:07
3	B 249.677†	168.6	0.1	0.0114 µg/L	0.0114 ppb	10:28:07
3	Ba 233.527†	-11.0	-0.8	-0.0207 µg/L	-0.0207 ppb	10:28:07
3	Be 313.107†	-1643.8	40.0	0.0297 µg/L	0.0297 ppb	10:27:47
3	Cd 226.502†	-139.8	2.2	0.0680 µg/L	0.0680 ppb	10:28:07
3	Co 228.616†	20.3	-6.8	-0.3710 µg/L	-0.3710 ppb	10:28:07
3	Cr 267.716†	74.6	4.7	0.1265 µg/L	0.1265 ppb	10:28:07
3	Cu 324.752†	2683.0	26.8	0.2002 µg/L	0.2002 ppb	10:27:47
3	Mn 257.610†	-534.0	47.2	0.1804 µg/L	0.1804 ppb	10:28:07
3	Mo 202.031†	19.1	16.5	1.9905 µg/L	1.9905 ppb	10:28:07
3	Ni 231.604†	298.6	0.5	0.0337 µg/L	0.0337 ppb	10:28:07
3	P 214.914†	232.1	-11.4	-25.971 µg/L	-25.971 ppb	10:28:07
3	Pb 220.353†	40.3	5.1	1.7010 µg/L	1.7010 ppb	10:28:07
3	S 181.975 Axial†	21.9	1.1	4.5903 µg/L	4.5903 ppb	10:28:07
3	Sb 206.836†	19.4	0.1	0.1138 µg/L	0.1138 ppb	10:28:07
3	Se 196.026†	13.3	-1.2	-1.5828 µg/L	-1.5828 ppb	10:28:07
3	SiO2†	1506.8	87.8	20.084 µg/L	20.084 ppb	10:27:47
3	Si 251.611†	510.0	121.0	10.379 µg/L	10.379 ppb	10:28:07
3	Sn 189.927†	1.0	-0.0	-0.0148 µg/L	-0.0148 ppb	10:28:07
3	Ti 334.940†	144.1	148.3	0.4199 µg/L	0.4199 ppb	10:27:47
3	Tl 190.801†	-24.7	2.1	2.5441 µg/L	2.5441 ppb	10:28:07
3	U 409.014†	218.9	72.6	7.5517 µg/L	7.5517 ppb	10:27:47
3	V 292.402†	-90.7	54.4	0.7466 µg/L	0.7466 ppb	10:27:47
3	Zn 213.857†	570.8	-45.4	-1.2750 µg/L	-1.2750 ppb	10:28:07

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1689967.9	101.71 %	0.877			0.86%
Sc RADIAL	110449.7	99.9 %	0.14			0.14%
Y 371.029	954572.4	101.85 %	0.758			0.74%
Ag 328.068†	62.4	0.5825 µg/L	0.30720	0.5825 ppb	0.30720	52.73%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-110.0	-58.253 µg/L	7.2176	-58.253 ppb	7.2176	12.39%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.0	7.7677 µg/L	5.23074	7.7677 ppb	5.23074	67.34%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	5.3	0.2945 µg/L	0.77273	0.2945 ppb	0.77273	262.39%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.9	-0.0233 µg/L	0.06404	-0.0233 ppb	0.06404	275.20%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	15.7	0.0116 µg/L	0.02079	0.0116 ppb	0.02079	179.31%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-92.4	-31.530 µg/L	2.0010	-31.530 ppb	2.0010	6.35%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	4.8	0.1470 µg/L	0.13207	0.1470 ppb	0.13207	89.87%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-7.1	-0.3838 µg/L	0.11927	-0.3838 ppb	0.11927	31.08%

Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated		
		-0.8	-0.0215 µg/L	0.12845	-0.0215 ppb
				0.12845	598.10%
Cu	324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated		
		-16.1	-0.1236 µg/L	0.38402	-0.1236 ppb
				0.38402	310.78%
Fe	238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated		
		-1.1	-7.2805 µg/L	4.79319	-7.2805 ppb
				4.79319	65.84%
K	766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
		31.3	18.572 µg/L	6.4861	18.572 ppb
				6.4861	34.92%
Mg	279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated		
		-2.0	-19.741 µg/L	22.4454	-19.741 ppb
				22.4454	113.70%
Mn	257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
		45.3	0.1721 µg/L	0.03060	0.1721 ppb
				0.03060	17.78%
Mo	202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated		
		12.0	1.4496 µg/L	0.61673	1.4496 ppb
				0.61673	42.54%
Na	589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated		
		-100.1	-30.900 µg/L	8.0622	-30.900 ppb
				8.0622	26.09%
Ni	231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
		-3.1	-0.2267 µg/L	0.23652	-0.2267 ppb
				0.23652	104.35%
P	214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated		
		-13.6	-30.917 µg/L	4.9899	-30.917 ppb
				4.9899	16.14%
Pb	220.353†	QC value within limits for P 214.914	Recovery = Not calculated		
		-1.6	-0.5318 µg/L	1.96654	-0.5318 ppb
				1.96654	369.79%
S	181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated		
		1.6	6.5351 µg/L	6.57611	6.5351 ppb
				6.57611	100.63%
Sb	206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated		
		2.8	3.1463 µg/L	2.87149	3.1463 ppb
				2.87149	91.27%
Se	196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated		
		-1.1	-1.3887 µg/L	2.69577	-1.3887 ppb
				2.69577	194.12%
SiO2†		QC value within limits for Se 196.026	Recovery = Not calculated		
		50.0	11.437 µg/L	9.3170	11.437 ppb
				9.3170	81.47%
Si	251.611†	QC value within limits for SiO2	Recovery = Not calculated		
		101.5	8.7009 µg/L	2.27918	8.7009 ppb
				2.27918	26.19%
Sn	189.927†	QC value within limits for Si 251.611	Recovery = Not calculated		
		1.8	0.8887 µg/L	1.11015	0.8887 ppb
				1.11015	124.92%
Sr	421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated		
		27.5	0.1145 µg/L	0.05850	0.1145 ppb
				0.05850	51.10%
Ti	334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated		
		101.2	0.2856 µg/L	0.11696	0.2856 ppb
				0.11696	40.95%
Tl	190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated		
		2.5	3.0038 µg/L	1.14351	3.0038 ppb
				1.14351	38.07%
U	409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated		
		12.2	1.2730 µg/L	5.44005	1.2730 ppb
				5.44005	427.32%
V	292.402†	QC value within limits for U 409.014	Recovery = Not calculated		
		-2.9	-0.0263 µg/L	0.67690	-0.0263 ppb
				0.67690	>999.9%
Zn	213.857†	QC value within limits for V 292.402	Recovery = Not calculated		
		-50.0	-1.4024 µg/L	0.16559	-1.4024 ppb
				0.16559	11.81%

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 41

Sample ID: 246872002|952953|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 333

Date Collected: 2/26/2010 10:28:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872002|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110695.4	110695.4	100 %		10:28:55
1	Al 396.153Radial†	22936.2	22988.6	12169 µg/L	12169 ppb	10:28:55
1	Ca 317.933Radial†	12708.3	12208.7	4167.8 µg/L	4167.8 ppb	10:28:55
1	Fe 238.204 Radial†	5996.8	5958.7	41251 µg/L	41251 ppb	10:29:15
1	K 766.490 Radial†	3820.0	3567.9	2119.6 µg/L	2119.6 ppb	10:28:55
1	Mg 279.077 IEC†	260.8	247.2	2399.7 µg/L	2399.7 ppb	10:29:15
1	Na 589.592 Radial†	1282.8	963.5	297.40 µg/L	297.40 ppb	10:28:55
1	Sr 421.552†	6309.3	6160.7	25.623 µg/L	25.623 ppb	10:28:55
1	Sc 361.383	1694472.4	1694472.4	101.98 %		10:30:18
1	Y 371.029	986095.6	986095.6	105.21 %		10:30:18
1	Ag 328.068†	-1019.8	-482.7	1.0304 µg/L	1.0304 ppb	10:30:24
1	As 188.979†	-3.7	4.1	9.9629 µg/L	9.9629 ppb	10:30:44
1	B 249.677†	511.9	335.1	-2.9547 µg/L	-2.9547 ppb	10:30:24
1	Ba 233.527†	5878.3	5774.3	156.27 µg/L	156.27 ppb	10:30:24
1	Be 313.107†	2439.0	4059.7	2.5393 µg/L	2.5393 ppb	10:30:24
1	Cd 226.502†	65.5	204.8	1.5617 µg/L	1.5617 ppb	10:30:44
1	Co 228.616†	172.2	141.9	5.0351 µg/L	5.0351 ppb	10:30:44
1	Cr 267.716†	915.5	828.6	22.173 µg/L	22.173 ppb	10:30:24
1	Cu 324.752†	8805.9	6004.5	53.209 µg/L	53.209 ppb	10:30:24
1	Mn 257.610†	270002.9	265335.2	1005.8 µg/L	1005.8 ppb	10:30:18
1	Mo 202.031†	38.6	35.5	5.8487 µg/L	5.8487 ppb	10:30:44
1	Ni 231.604†	519.8	214.4	16.198 µg/L	16.198 ppb	10:30:44
1	P 214.914†	534.2	282.6	606.80 µg/L	606.80 ppb	10:30:44
1	Pb 220.353†	198.4	159.7	52.338 µg/L	52.338 ppb	10:30:44
1	S 181.975 Axial†	62.8	41.0	170.16 µg/L	170.16 ppb	10:30:44
1	Sb 206.836†	16.3	-3.2	-3.8514 µg/L	-3.8514 ppb	10:30:44
1	Se 196.026†	-12.6	-26.7	99.328 µg/L	99.328 ppb	10:30:44
1	SiO2†	68200.0	65470.9	14977 µg/L	14977 ppb	10:30:24
1	Si 251.611†	83331.9	81329.5	6974.9 µg/L	6974.9 ppb	10:30:24
1	Sn 189.927†	2.2	1.1	-1.9323 µg/L	-1.9323 ppb	10:30:44
1	Ti 334.940†	469537.9	460424.5	1295.1 µg/L	1295.1 ppb	10:30:18
1	Tl 190.801†	-30.6	-3.5	16.214 µg/L	16.214 ppb	10:30:44
1	U 409.014†	-906.1	-1032.7	-113.37 µg/L	-113.37 ppb	10:30:24
1	V 292.402†	2303.4	2403.0	33.421 µg/L	33.421 ppb	10:30:24
1	Zn 213.857†	9098.9	8311.4	231.49 µg/L	231.49 ppb	10:30:24
2	Sc RADIAL	111629.4	111629.4	101 %		10:29:21
2	Al 396.153Radial†	22931.6	22792.3	12065 µg/L	12065 ppb	10:29:21
2	Ca 317.933Radial†	12778.5	12172.0	4155.2 µg/L	4155.2 ppb	10:29:21
2	Fe 238.204 Radial†	5996.0	5907.8	40899 µg/L	40899 ppb	10:29:41
2	K 766.490 Radial†	3807.3	3523.3	2093.1 µg/L	2093.1 ppb	10:29:21
2	Mg 279.077 IEC†	263.0	247.2	2400.0 µg/L	2400.0 ppb	10:29:41
2	Na 589.592 Radial†	1282.2	952.1	293.90 µg/L	293.90 ppb	10:29:21
2	Sr 421.552†	6353.5	6151.7	25.586 µg/L	25.586 ppb	10:29:21
2	Sc 361.383	1691277.5	1691277.5	101.79 %		10:30:51
2	Y 371.029	982452.4	982452.4	104.82 %		10:30:51
2	Ag 328.068†	-1021.0	-485.8	0.9587 µg/L	0.9587 ppb	10:30:57
2	As 188.979†	-7.5	0.2	2.6277 µg/L	2.6277 ppb	10:31:17
2	B 249.677†	493.7	318.1	-3.7120 µg/L	-3.7120 ppb	10:30:57
2	Ba 233.527†	5892.3	5798.9	156.93 µg/L	156.93 ppb	10:30:57
2	Be 313.107†	2515.1	4139.0	2.5940 µg/L	2.5940 ppb	10:30:57
2	Cd 226.502†	67.2	206.6	1.6568 µg/L	1.6568 ppb	10:31:17
2	Co 228.616†	175.7	145.8	5.2185 µg/L	5.2185 ppb	10:31:17
2	Cr 267.716†	898.8	813.9	21.781 µg/L	21.781 ppb	10:30:57
2	Cu 324.752†	8794.6	6009.7	53.182 µg/L	53.182 ppb	10:30:57
2	Mn 257.610†	271797.8	267598.8	1014.3 µg/L	1014.3 ppb	10:30:51
2	Mo 202.031†	33.0	30.1	5.1801 µg/L	5.1801 ppb	10:31:17
2	Ni 231.604†	522.8	218.3	16.475 µg/L	16.475 ppb	10:31:17
2	P 214.914†	531.1	280.5	602.39 µg/L	602.39 ppb	10:31:17
2	Pb 220.353†	192.6	154.4	50.556 µg/L	50.556 ppb	10:31:17

2	S 181.975 Axial†	60.7	39.1	162.22	µg/L	162.22	ppb	10:31:17
2	Sb 206.836†	22.5	2.9	3.0681	µg/L	3.0681	ppb	10:31:17
2	Se 196.026†	-23.6	-37.6	84.066	µg/L	84.066	ppb	10:31:17
2	SiO2†	68265.3	65661.4	15021	µg/L	15021	ppb	10:30:57
2	Si 251.611†	83434.6	81584.7	6996.7	µg/L	6996.7	ppb	10:30:57
2	Sn 189.927†	-0.9	-1.9	-3.3812	µg/L	-3.3812	ppb	10:31:17
2	Ti 334.940†	472930.9	464627.7	1306.9	µg/L	1306.9	ppb	10:30:51
2	Tl 190.801†	-33.7	-6.6	12.542	µg/L	12.542	ppb	10:31:17
2	U 409.014†	-842.6	-972.0	-107.00	µg/L	-107.00	ppb	10:30:57
2	V 292.402†	2329.8	2433.2	33.810	µg/L	33.810	ppb	10:30:57
2	Zn 213.857†	9148.0	8376.5	233.34	µg/L	233.34	ppb	10:30:57
3	Sc RADIAL	111482.0	111482.0	101	%			10:29:46
3	Al 396.153Radial†	22828.8	22720.4	12027	µg/L	12027	ppb	10:29:46
3	Ca 317.933Radial†	12729.2	12139.9	4144.3	µg/L	4144.3	ppb	10:29:46
3	Fe 238.204 Radial†	5959.0	5879.0	40699	µg/L	40699	ppb	10:30:07
3	K 766.490 Radial†	3769.9	3491.2	2074.0	µg/L	2074.0	ppb	10:29:46
3	Mg 279.077 IEC†	257.5	242.1	2350.5	µg/L	2350.5	ppb	10:30:07
3	Na 589.592 Radial†	1291.4	963.0	297.24	µg/L	297.24	ppb	10:29:46
3	Sr 421.552†	6335.8	6142.5	25.548	µg/L	25.548	ppb	10:29:46
3	Sc 361.383	1692866.1	1692866.1	101.88	%			10:31:24
3	Y 371.029	983594.8	983594.8	104.95	%			10:31:24
3	Ag 328.068†	-974.5	-439.2	1.3608	µg/L	1.3608	ppb	10:31:30
3	As 188.979†	-2.4	5.3	12.322	µg/L	12.322	ppb	10:31:50
3	B 249.677†	519.2	342.7	-2.2503	µg/L	-2.2503	ppb	10:31:30
3	Ba 233.527†	5719.4	5623.8	152.19	µg/L	152.19	ppb	10:31:30
3	Be 313.107†	2339.7	3964.4	2.4727	µg/L	2.4727	ppb	10:31:30
3	Cd 226.502†	61.1	200.5	1.4941	µg/L	1.4941	ppb	10:31:50
3	Co 228.616†	164.7	134.7	4.6681	µg/L	4.6681	ppb	10:31:50
3	Cr 267.716†	852.9	768.0	20.552	µg/L	20.552	ppb	10:31:30
3	Cu 324.752†	8590.3	5801.0	51.564	µg/L	51.564	ppb	10:31:30
3	Mn 257.610†	268272.8	263888.3	1000.3	µg/L	1000.3	ppb	10:31:24
3	Mo 202.031†	35.4	32.3	5.4443	µg/L	5.4443	ppb	10:31:50
3	Ni 231.604†	515.7	210.9	15.932	µg/L	15.932	ppb	10:31:50
3	P 214.914†	510.1	259.4	554.83	µg/L	554.83	ppb	10:31:50
3	Pb 220.353†	188.5	150.2	49.173	µg/L	49.173	ppb	10:31:50
3	S 181.975 Axial†	61.4	39.7	164.69	µg/L	164.69	ppb	10:31:50
3	Sb 206.836†	18.2	-1.3	-1.7010	µg/L	-1.7010	ppb	10:31:50
3	Se 196.026†	-24.2	-38.1	82.720	µg/L	82.720	ppb	10:31:50
3	SiO2†	66885.2	64243.9	14696	µg/L	14696	ppb	10:31:30
3	Si 251.611†	81822.6	79925.6	6854.5	µg/L	6854.5	ppb	10:31:30
3	Sn 189.927†	6.2	5.1	0.0465	µg/L	0.0465	ppb	10:31:50
3	Ti 334.940†	464713.1	456125.8	1283.0	µg/L	1283.0	ppb	10:31:24
3	Tl 190.801†	-40.0	-12.8	4.7475	µg/L	4.7475	ppb	10:31:50
3	U 409.014†	-824.8	-953.8	-105.09	µg/L	-105.09	ppb	10:31:30
3	V 292.402†	2243.5	2346.4	32.651	µg/L	32.651	ppb	10:31:30
3	Zn 213.857†	8893.7	8118.5	226.10	µg/L	226.10	ppb	10:31:30

Mean Data: 246872002|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1692872.0	101.88 %	0.096			0.09%
Sc RADIAL	111268.9	101 %	0.5			0.45%
Y 371.029	984047.6	104.99 %	0.199			0.19%
Ag 328.068†	-469.3	1.1166 µg/L	0.21449	1.1166 ppb	0.21449	19.21%
Al 396.153Radial†	22833.8	12087 µg/L	73.5	12087 ppb	73.5	0.61%
As 188.979†	3.2	8.3041 µg/L	5.05549	8.3041 ppb	5.05549	60.88%
B 249.677†	332.0	-2.9723 µg/L	0.73100	-2.9723 ppb	0.73100	24.59%
Ba 233.527†	5732.3	155.13 µg/L	2.566	155.13 ppb	2.566	1.65%
Be 313.107†	4054.4	2.5353 µg/L	0.06072	2.5353 ppb	0.06072	2.40%
Ca 317.933Radial†	12173.5	4155.8 µg/L	11.76	4155.8 ppb	11.76	0.28%
Cd 226.502†	204.0	1.5708 µg/L	0.08173	1.5708 ppb	0.08173	5.20%
Co 228.616†	140.8	4.9739 µg/L	0.28025	4.9739 ppb	0.28025	5.63%
Cr 267.716†	803.5	21.502 µg/L	0.8458	21.502 ppb	0.8458	3.93%
Cu 324.752†	5938.4	52.651 µg/L	0.9418	52.651 ppb	0.9418	1.79%
Fe 238.204 Radial†	5915.2	40950 µg/L	279.7	40950 ppb	279.7	0.68%
K 766.490 Radial†	3527.5	2095.6 µg/L	22.86	2095.6 ppb	22.86	1.09%
Mg 279.077 IEC†	245.5	2383.4 µg/L	28.50	2383.4 ppb	28.50	1.20%
Mn 257.610†	265607.4	1006.8 µg/L	7.08	1006.8 ppb	7.08	0.70%
Mo 202.031†	32.6	5.4910 µg/L	0.33675	5.4910 ppb	0.33675	6.13%
Na 589.592 Radial†	959.5	296.18 µg/L	1.978	296.18 ppb	1.978	0.67%

Ni 231.604†	214.5	16.202 µg/L	0.2718	16.202 ppb	0.2718	1.68%
P 214.914†	274.2	588.01 µg/L	28.815	588.01 ppb	28.815	4.90%
Pb 220.353†	154.8	50.689 µg/L	1.5867	50.689 ppb	1.5867	3.13%
S 181.975 Axial†	39.9	165.69 µg/L	4.063	165.69 ppb	4.063	2.45%
Sb 206.836†	-0.5	-0.8281 µg/L	3.54137	-0.8281 ppb	3.54137	427.66%
Se 196.026†	-34.1	88.705 µg/L	9.2245	88.705 ppb	9.2245	10.40%
SiO2†	65125.4	14898 µg/L	176.0	14898 ppb	176.0	1.18%
Si 251.611†	80946.6	6942.0 µg/L	76.62	6942.0 ppb	76.62	1.10%
Sn 189.927†	1.4	-1.7557 µg/L	1.72069	-1.7557 ppb	1.72069	98.01%
Sr 421.552†	6151.6	25.586 µg/L	0.0379	25.586 ppb	0.0379	0.15%
Ti 334.940†	460392.7	1295.0 µg/L	11.96	1295.0 ppb	11.96	0.92%
Tl 190.801†	-7.6	11.168 µg/L	5.8553	11.168 ppb	5.8553	52.43%
U 409.014†	-986.2	-108.49 µg/L	4.337	-108.49 ppb	4.337	4.00%
V 292.402†	2394.2	33.294 µg/L	0.5903	33.294 ppb	0.5903	1.77%
Zn 213.857†	8268.8	230.31 µg/L	3.761	230.31 ppb	3.761	1.63%

Sequence No.: 42
 Sample ID: 246872003|952953|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 334
 Date Collected: 2/26/2010 10:31:59
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 246872003|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	109438.1	109438.1	98.9 %		10:32:32
1	Al 396.153Radial†	51491.3	52112.9	27587 µg/L	27587 ppb	10:32:32
1	Ca 317.933Radial†	23281.7	23041.2	7865.7 µg/L	7865.7 ppb	10:32:32
1	Fe 238.204 Radial†	8095.5	8148.8	56413 µg/L	56413 ppb	10:32:52
1	K 766.490 Radial†	8076.7	7914.0	4701.5 µg/L	4701.5 ppb	10:32:32
1	Mg 279.077 IEC†	501.3	493.2	4816.5 µg/L	4816.5 ppb	10:32:52
1	Na 589.592 Radial†	1427.6	1124.5	347.09 µg/L	347.09 ppb	10:32:32
1	Sr 421.552†	14608.6	14621.3	60.812 µg/L	60.812 ppb	10:32:32
1	Sc 361.383	1683421.3	1683421.3	101.32 %		10:33:57
1	Y 371.029	986722.5	986722.5	105.28 %		10:33:57
1	Ag 328.068†	-1222.2	-689.0	1.2637 µg/L	1.2637 ppb	10:34:02
1	As 188.979†	-2.4	5.2	12.915 µg/L	12.915 ppb	10:34:23
1	B 249.677†	694.1	518.2	-0.6644 µg/L	-0.6644 ppb	10:34:02
1	Ba 233.527†	16910.6	16701.2	451.92 µg/L	451.92 ppb	10:34:02
1	Be 313.107†	5677.1	7271.4	4.8504 µg/L	4.8504 ppb	10:34:02
1	Cd 226.502†	145.5	284.2	2.3030 µg/L	2.3030 ppb	10:34:23
1	Co 228.616†	440.9	408.3	19.068 µg/L	19.068 ppb	10:34:23
1	Cr 267.716†	2614.2	2511.1	67.176 µg/L	67.176 ppb	10:34:23
1	Cu 324.752†	8162.8	5426.4	51.683 µg/L	51.683 ppb	10:34:02
1	Mn 257.610†	720801.2	712018.5	2695.8 µg/L	2695.8 ppb	10:33:57
1	Mo 202.031†	36.0	33.1	6.1429 µg/L	6.1429 ppb	10:34:23
1	Ni 231.604†	1183.4	872.7	64.485 µg/L	64.485 ppb	10:34:23
1	P 214.914†	486.0	238.4	499.07 µg/L	499.07 ppb	10:34:23
1	Pb 220.353†	278.4	240.0	79.406 µg/L	79.406 ppb	10:34:23
1	S 181.975 Axial†	91.7	69.9	290.00 µg/L	290.00 ppb	10:34:23
1	Sb 206.836†	17.4	-2.0	-3.0999 µg/L	-3.0999 ppb	10:34:23
1	Se 196.026†	-22.2	-36.3	134.91 µg/L	134.91 ppb	10:34:23
1	SiO2†	95932.2	93282.1	21339 µg/L	21339 ppb	10:34:02
1	Si 251.611†	117989.5	116073.5	9954.5 µg/L	9954.5 ppb	10:34:02
1	Sn 189.927†	-7.7	-8.6	-7.4244 µg/L	-7.4244 ppb	10:34:23
1	Ti 334.940†	549817.6	542684.4	1526.3 µg/L	1526.3 ppb	10:33:57
1	Tl 190.801†	-40.0	-13.0	15.297 µg/L	15.297 ppb	10:34:23
1	U 409.014†	-1565.6	-1689.5	-183.99 µg/L	-183.99 ppb	10:33:57
1	V 292.402†	4620.7	4705.0	64.601 µg/L	64.601 ppb	10:34:02
1	Zn 213.857†	10128.4	9386.1	260.65 µg/L	260.65 ppb	10:34:02
2	Sc RADIAL	109309.2	109309.2	98.8 %		10:32:58
2	Al 396.153Radial†	51371.4	52052.9	27555 µg/L	27555 ppb	10:32:58
2	Ca 317.933Radial†	23274.8	23062.0	7872.8 µg/L	7872.8 ppb	10:32:58
2	Fe 238.204 Radial†	7947.3	8008.4	55441 µg/L	55441 ppb	10:33:19
2	K 766.490 Radial†	8120.5	7967.9	4733.5 µg/L	4733.5 ppb	10:32:58
2	Mg 279.077 IEC†	494.3	486.8	4753.9 µg/L	4753.9 ppb	10:33:19
2	Na 589.592 Radial†	1400.3	1098.7	339.12 µg/L	339.12 ppb	10:32:58
2	Sr 421.552†	14663.8	14694.5	61.117 µg/L	61.117 ppb	10:32:58
2	Sc 361.383	1687086.9	1687086.9	101.54 %		10:34:30
2	Y 371.029	986326.3	986326.3	105.24 %		10:34:30
2	Ag 328.068†	-1207.1	-671.6	1.3013 µg/L	1.3013 ppb	10:34:36
2	As 188.979†	1.1	8.8	19.651 µg/L	19.651 ppb	10:34:56
2	B 249.677†	640.0	463.4	-3.1914 µg/L	-3.1914 ppb	10:34:36
2	Ba 233.527†	16902.0	16656.4	450.71 µg/L	450.71 ppb	10:34:36
2	Be 313.107†	5741.9	7323.0	4.8896 µg/L	4.8896 ppb	10:34:36
2	Cd 226.502†	157.3	295.5	2.7525 µg/L	2.7525 ppb	10:34:56
2	Co 228.616†	445.1	411.5	19.245 µg/L	19.245 ppb	10:34:56
2	Cr 267.716†	2582.5	2474.3	66.191 µg/L	66.191 ppb	10:34:56
2	Cu 324.752†	8206.7	5452.1	51.695 µg/L	51.695 ppb	10:34:36
2	Mn 257.610†	721022.0	710690.1	2690.8 µg/L	2690.8 ppb	10:34:30
2	Mo 202.031†	34.1	31.2	5.8705 µg/L	5.8705 ppb	10:34:56
2	Ni 231.604†	1163.0	850.1	62.819 µg/L	62.819 ppb	10:34:56
2	P 214.914†	473.1	224.7	468.63 µg/L	468.63 ppb	10:34:56
2	Pb 220.353†	266.9	228.1	75.470 µg/L	75.470 ppb	10:34:56

2	S 181.975 Axial†	87.3	65.4	271.47 µg/L	271.47 ppb	10:34:56
2	Sb 206.836†	16.3	-3.2	-4.3863 µg/L	-4.3863 ppb	10:34:56
2	Se 196.026†	-25.1	-39.1	128.17 µg/L	128.17 ppb	10:34:56
2	SiO2†	95589.3	92738.6	21215 µg/L	21215 ppb	10:34:36
2	Si 251.611†	117602.0	115438.8	9900.1 µg/L	9900.1 ppb	10:34:36
2	Sn 189.927†	-3.2	-4.2	-5.1612 µg/L	-5.1612 ppb	10:34:56
2	Ti 334.940†	550356.3	542035.9	1524.5 µg/L	1524.5 ppb	10:34:30
2	Tl 190.801†	-40.9	-13.8	14.151 µg/L	14.151 ppb	10:34:56
2	U 409.014†	-1577.0	-1697.3	-184.67 µg/L	-184.67 ppb	10:34:30
2	V 292.402†	4632.4	4706.7	64.583 µg/L	64.583 ppb	10:34:36
2	Zn 213.857†	10103.2	9339.6	259.40 µg/L	259.40 ppb	10:34:36
3	Sc RADIAL	109642.8	109642.8	99.1 %		10:33:24
3	Al 396.153Radial†	51533.0	52057.8	27558 µg/L	27558 ppb	10:33:24
3	Ca 317.933Radial†	23298.6	23014.3	7856.5 µg/L	7856.5 ppb	10:33:24
3	Fe 238.204 Radial†	8082.3	8120.2	56215 µg/L	56215 ppb	10:33:45
3	K 766.490 Radial†	8180.1	8003.0	4754.4 µg/L	4754.4 ppb	10:33:24
3	Mg 279.077 IEC†	503.8	494.9	4832.9 µg/L	4832.9 ppb	10:33:45
3	Na 589.592 Radial†	1429.8	1124.1	346.96 µg/L	346.96 ppb	10:33:24
3	Sr 421.552†	14668.3	14653.9	60.948 µg/L	60.948 ppb	10:33:24
3	Sc 361.383	1684172.2	1684172.2	101.36 %		10:35:04
3	Y 371.029	982371.8	982371.8	104.82 %		10:35:04
3	Ag 328.068†	-1186.8	-653.6	1.5523 µg/L	1.5523 ppb	10:35:09
3	As 188.979†	3.5	11.1	24.150 µg/L	24.150 ppb	10:35:30
3	B 249.677†	658.8	483.1	-2.5143 µg/L	-2.5143 ppb	10:35:09
3	Ba 233.527†	16285.6	16077.1	435.04 µg/L	435.04 ppb	10:35:09
3	Be 313.107†	5363.6	6959.6	4.6298 µg/L	4.6298 ppb	10:35:09
3	Cd 226.502†	124.2	263.2	1.6818 µg/L	1.6818 ppb	10:35:30
3	Co 228.616†	414.9	382.4	17.723 µg/L	17.723 ppb	10:35:30
3	Cr 267.716†	2383.0	2281.8	61.045 µg/L	61.045 ppb	10:35:30
3	Cu 324.752†	8036.7	5298.4	50.676 µg/L	50.676 ppb	10:35:09
3	Mn 257.610†	706236.0	697331.6	2640.3 µg/L	2640.3 ppb	10:35:04
3	Mo 202.031†	24.6	21.9	4.7772 µg/L	4.7772 ppb	10:35:30
3	Ni 231.604†	1115.4	805.1	59.542 µg/L	59.542 ppb	10:35:30
3	P 214.914†	473.7	226.1	471.34 µg/L	471.34 ppb	10:35:30
3	Pb 220.353†	254.9	216.7	71.635 µg/L	71.635 ppb	10:35:30
3	S 181.975 Axial†	87.8	66.1	274.20 µg/L	274.20 ppb	10:35:30
3	Sb 206.836†	19.3	-0.1	-0.8629 µg/L	-0.8629 ppb	10:35:30
3	Se 196.026†	-18.5	-32.7	138.95 µg/L	138.95 ppb	10:35:30
3	SiO2†	92964.8	90312.3	20660 µg/L	20660 ppb	10:35:09
3	Si 251.611†	114370.2	112450.9	9643.8 µg/L	9643.8 ppb	10:35:09
3	Sn 189.927†	-2.5	-3.5	-4.9020 µg/L	-4.9020 ppb	10:35:30
3	Ti 334.940†	538341.1	531120.0	1493.8 µg/L	1493.8 ppb	10:35:04
3	Tl 190.801†	-37.8	-10.8	17.488 µg/L	17.488 ppb	10:35:30
3	U 409.014†	-1472.7	-1597.1	-174.36 µg/L	-174.36 ppb	10:35:04
3	V 292.402†	4428.5	4513.4	62.033 µg/L	62.033 ppb	10:35:09
3	Zn 213.857†	9828.6	9085.9	252.24 µg/L	252.24 ppb	10:35:09

Mean Data: 246872003|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1684893.5	101.40 %	0.117			0.11%
Sc RADIAL	109463.4	99.0 %	0.15			0.15%
Y 371.029	985140.2	105.11 %	0.257			0.24%
Ag 328.068†	-671.4	1.3724 µg/L	0.15688	1.3724 ppb	0.15688	11.43%
Al 396.153Radial†	52074.5	27567 µg/L	17.6	27567 ppb	17.6	0.06%
As 188.979†	8.4	18.905 µg/L	5.6543	18.905 ppb	5.6543	29.91%
B 249.677†	488.2	-2.1233 µg/L	1.30807	-2.1233 ppb	1.30807	61.60%
Ba 233.527†	16478.2	445.89 µg/L	9.419	445.89 ppb	9.419	2.11%
Be 313.107†	7184.7	4.7899 µg/L	0.14004	4.7899 ppb	0.14004	2.92%
Ca 317.933Radial†	23039.2	7865.0 µg/L	8.16	7865.0 ppb	8.16	0.10%
Cd 226.502†	281.0	2.2457 µg/L	0.53763	2.2457 ppb	0.53763	23.94%
Co 228.616†	400.7	18.679 µg/L	0.8325	18.679 ppb	0.8325	4.46%
Cr 267.716†	2422.4	64.804 µg/L	3.2924	64.804 ppb	3.2924	5.08%
Cu 324.752†	5392.3	51.351 µg/L	0.5845	51.351 ppb	0.5845	1.14%
Fe 238.204 Radial†	8092.5	56023 µg/L	513.3	56023 ppb	513.3	0.92%
K 766.490 Radial†	7961.6	4729.8 µg/L	26.64	4729.8 ppb	26.64	0.56%
Mg 279.077 IEC†	491.6	4801.1 µg/L	41.70	4801.1 ppb	41.70	0.87%
Mn 257.610†	706680.0	2675.6 µg/L	30.72	2675.6 ppb	30.72	1.15%
Mo 202.031†	28.7	5.5969 µg/L	0.72280	5.5969 ppb	0.72280	12.91%
Na 589.592 Radial†	1115.7	344.39 µg/L	4.565	344.39 ppb	4.565	1.33%

Ni 231.604†	842.7	62.282 µg/L	2.5145	62.282 ppb	2.5145	4.04%
P 214.914†	229.7	479.68 µg/L	16.845	479.68 ppb	16.845	3.51%
Pb 220.353†	228.2	75.504 µg/L	3.8857	75.504 ppb	3.8857	5.15%
S 181.975 Axial†	67.1	278.55 µg/L	10.003	278.55 ppb	10.003	3.59%
Sb 206.836†	-1.8	-2.7830 µg/L	1.78296	-2.7830 ppb	1.78296	64.07%
Se 196.026†	-36.0	134.01 µg/L	5.450	134.01 ppb	5.450	4.07%
SiO2†	92111.0	21071 µg/L	361.7	21071 ppb	361.7	1.72%
Si 251.611†	114654.4	9832.8 µg/L	165.90	9832.8 ppb	165.90	1.69%
Sn 189.927†	-5.4	-5.8292 µg/L	1.38757	-5.8292 ppb	1.38757	23.80%
Sr 421.552†	14656.6	60.959 µg/L	0.1526	60.959 ppb	0.1526	0.25%
Ti 334.940†	538613.4	1514.9 µg/L	18.28	1514.9 ppb	18.28	1.21%
Tl 190.801†	-12.5	15.645 µg/L	1.6954	15.645 ppb	1.6954	10.84%
U 409.014†	-1661.3	-181.01 µg/L	5.767	-181.01 ppb	5.767	3.19%
V 292.402†	4641.7	63.739 µg/L	1.4774	63.739 ppb	1.4774	2.32%
Zn 213.857†	9270.5	257.43 µg/L	4.537	257.43 ppb	4.537	1.76%

Sequence No.: 43
 Sample ID: 246872004|952953|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 335
 Date Collected: 2/26/2010 10:35:39
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 246872004|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110196.8	110196.8	99.6 %		10:36:12
1	Al 396.153Radial†	28157.0	28332.8	14998 µg/L	14998 ppb	10:36:12
1	Ca 317.933Radial†	18830.9	18411.7	6285.3 µg/L	6285.3 ppb	10:36:12
1	Fe 238.204 Radial†	7715.5	7711.0	53382 µg/L	53382 ppb	10:36:12
1	K 766.490 Radial†	5065.9	4835.7	2872.7 µg/L	2872.7 ppb	10:36:12
1	Mg 279.077 IEC†	331.6	319.5	3101.5 µg/L	3101.5 ppb	10:36:32
1	Na 589.592 Radial†	1903.8	1592.6	491.58 µg/L	491.58 ppb	10:36:12
1	Sr 421.552†	8325.8	8213.2	34.160 µg/L	34.160 ppb	10:36:12
1	Sc 361.383	1688429.8	1688429.8	101.62 %		10:37:37
1	Y 371.029	1001297.7	1001297.7	106.83 %		10:37:37
1	Ag 328.068†	-1232.6	-695.7	0.6253 µg/L	0.6253 ppb	10:37:42
1	As 188.979†	-1.4	6.2	14.739 µg/L	14.739 ppb	10:38:03
1	B 249.677†	596.6	420.3	-4.4365 µg/L	-4.4365 ppb	10:37:42
1	Ba 233.527†	11295.8	11126.2	301.05 µg/L	301.05 ppb	10:37:42
1	Be 313.107†	4698.3	6291.6	4.1974 µg/L	4.1974 ppb	10:37:42
1	Cd 226.502†	115.0	253.8	1.7251 µg/L	1.7251 ppb	10:37:42
1	Co 228.616†	274.3	243.0	10.497 µg/L	10.497 ppb	10:38:03
1	Cr 267.716†	4186.1	4050.4	108.31 µg/L	108.31 ppb	10:37:42
1	Cu 324.752†	5447.9	2730.8	30.708 µg/L	30.708 ppb	10:37:42
1	Mn 257.610†	644769.9	635086.5	2404.8 µg/L	2404.8 ppb	10:37:37
1	Mo 202.031†	57.3	54.0	8.5459 µg/L	8.5459 ppb	10:38:03
1	Ni 231.604†	1202.1	887.7	65.546 µg/L	65.546 ppb	10:38:03
1	P 214.914†	815.2	561.0	1232.5 µg/L	1232.5 ppb	10:38:03
1	Pb 220.353†	209.0	170.9	55.942 µg/L	55.942 ppb	10:38:03
1	S 181.975 Axial†	52.6	31.2	129.49 µg/L	129.49 ppb	10:38:03
1	Sb 206.836†	18.6	-0.9	-2.2454 µg/L	-2.2454 ppb	10:38:03
1	Se 196.026†	-26.2	-40.1	121.26 µg/L	121.26 ppb	10:38:03
1	SiO2†	72821.5	70258.2	16072 µg/L	16072 ppb	10:37:42
1	Si 251.611†	89079.7	87278.2	7485.0 µg/L	7485.0 ppb	10:37:42
1	Sn 189.927†	-2.2	-3.2	-4.7776 µg/L	-4.7776 ppb	10:38:03
1	Ti 334.940†	476570.9	468993.5	1319.1 µg/L	1319.1 ppb	10:37:37
1	Tl 190.801†	-47.5	-20.2	2.9016 µg/L	2.9016 ppb	10:38:03
1	U 409.014†	-2277.7	-2385.7	-255.86 µg/L	-255.86 ppb	10:37:37
1	V 292.402†	2504.1	2608.6	36.668 µg/L	36.668 ppb	10:37:42
1	Zn 213.857†	10699.0	9918.0	275.88 µg/L	275.88 ppb	10:37:42
2	Sc RADIAL	109885.4	109885.4	99.3 %		10:36:38
2	Al 396.153Radial†	28052.2	28307.4	14985 µg/L	14985 ppb	10:36:38
2	Ca 317.933Radial†	18745.6	18379.4	6274.3 µg/L	6274.3 ppb	10:36:38
2	Fe 238.204 Radial†	7720.5	7738.0	53569 µg/L	53569 ppb	10:36:38
2	K 766.490 Radial†	5021.7	4805.6	2854.9 µg/L	2854.9 ppb	10:36:38
2	Mg 279.077 IEC†	329.9	318.7	3093.8 µg/L	3093.8 ppb	10:36:58
2	Na 589.592 Radial†	1924.8	1619.1	499.77 µg/L	499.77 ppb	10:36:38
2	Sr 421.552†	8381.5	8293.0	34.492 µg/L	34.492 ppb	10:36:38
2	Sc 361.383	1688256.5	1688256.5	101.61 %		10:38:11
2	Y 371.029	1003609.1	1003609.1	107.08 %		10:38:11
2	Ag 328.068†	-1109.5	-574.7	1.7827 µg/L	1.7827 ppb	10:38:16
2	As 188.979†	0.2	7.9	17.847 µg/L	17.847 ppb	10:38:37
2	B 249.677†	612.2	435.6	-3.6828 µg/L	-3.6828 ppb	10:38:16
2	Ba 233.527†	11247.6	11079.9	299.80 µg/L	299.80 ppb	10:38:16
2	Be 313.107†	4714.5	6308.0	4.2099 µg/L	4.2099 ppb	10:38:16
2	Cd 226.502†	116.2	254.9	1.7373 µg/L	1.7373 ppb	10:38:16
2	Co 228.616†	273.6	242.4	10.464 µg/L	10.464 ppb	10:38:37
2	Cr 267.716†	4182.1	4046.9	108.22 µg/L	108.22 ppb	10:38:16
2	Cu 324.752†	5410.1	2694.2	30.465 µg/L	30.465 ppb	10:38:16
2	Mn 257.610†	643967.8	634362.3	2402.1 µg/L	2402.1 ppb	10:38:11
2	Mo 202.031†	57.6	54.3	8.5826 µg/L	8.5826 ppb	10:38:37
2	Ni 231.604†	1196.5	882.3	65.155 µg/L	65.155 ppb	10:38:37
2	P 214.914†	822.9	568.6	1249.6 µg/L	1249.6 ppb	10:38:37
2	Pb 220.353†	209.7	171.6	56.159 µg/L	56.159 ppb	10:38:37

2	S 181.975 Axial†	41.4	20.2	83.636 µg/L	83.636 ppb	10:38:37
2	Sb 206.836†	16.6	-2.8	-4.3736 µg/L	-4.3736 ppb	10:38:37
2	Se 196.026†	-21.5	-35.5	127.83 µg/L	127.83 ppb	10:38:37
2	SiO2†	72427.7	69878.0	15985 µg/L	15985 ppb	10:38:16
2	Si 251.611†	88710.2	86923.6	7454.6 µg/L	7454.6 ppb	10:38:16
2	Sn 189.927†	-4.8	-5.8	-6.0604 µg/L	-6.0604 ppb	10:38:37
2	Ti 334.940†	476284.5	468759.7	1318.5 µg/L	1318.5 ppb	10:38:11
2	Tl 190.801†	-46.9	-19.6	3.6498 µg/L	3.6498 ppb	10:38:37
2	U 409.014†	-2251.6	-2360.2	-253.24 µg/L	-253.24 ppb	10:38:11
2	V 292.402†	2522.4	2626.8	36.920 µg/L	36.920 ppb	10:38:16
2	Zn 213.857†	10681.7	9902.0	275.42 µg/L	275.42 ppb	10:38:16
3	Sc RADIAL	110403.5	110403.5	99.8 %		10:37:04
3	Al 396.153Radial†	28197.7	28320.6	14992 µg/L	14992 ppb	10:37:04
3	Ca 317.933Radial†	18837.4	18382.8	6275.5 µg/L	6275.5 ppb	10:37:04
3	Fe 238.204 Radial†	7727.8	7708.8	53367 µg/L	53367 ppb	10:37:04
3	K 766.490 Radial†	5085.7	4846.0	2878.9 µg/L	2878.9 ppb	10:37:04
3	Mg 279.077 IEC†	320.8	308.0	2987.8 µg/L	2987.8 ppb	10:37:24
3	Na 589.592 Radial†	1900.1	1585.4	489.35 µg/L	489.35 ppb	10:37:04
3	Sr 421.552†	8434.3	8306.4	34.547 µg/L	34.547 ppb	10:37:04
3	Sc 361.383	1696823.4	1696823.4	102.12 %		10:38:44
3	Y 371.029	1002203.9	1002203.9	106.93 %		10:38:44
3	Ag 328.068†	-1148.3	-607.2	1.4443 µg/L	1.4443 ppb	10:38:50
3	As 188.979†	-4.3	3.4	9.2984 µg/L	9.2984 ppb	10:39:10
3	B 249.677†	604.7	425.2	-4.1618 µg/L	-4.1618 ppb	10:38:50
3	Ba 233.527†	10976.4	10758.4	291.10 µg/L	291.10 ppb	10:38:50
3	Be 313.107†	4434.1	6010.0	3.9978 µg/L	3.9978 ppb	10:38:50
3	Cd 226.502†	118.7	256.8	1.8126 µg/L	1.8126 ppb	10:38:50
3	Co 228.616†	256.4	224.2	9.5262 µg/L	9.5262 ppb	10:39:10
3	Cr 267.716†	4000.7	3848.5	102.91 µg/L	102.91 ppb	10:38:50
3	Cu 324.752†	5255.9	2516.2	29.080 µg/L	29.080 ppb	10:38:50
3	Mn 257.610†	634620.9	622009.8	2355.4 µg/L	2355.4 ppb	10:38:44
3	Mo 202.031†	45.7	42.4	7.1381 µg/L	7.1381 ppb	10:39:10
3	Ni 231.604†	1142.3	823.3	60.844 µg/L	60.844 ppb	10:39:10
3	P 214.914†	793.9	536.1	1176.2 µg/L	1176.2 ppb	10:39:10
3	Pb 220.353†	184.7	146.1	47.663 µg/L	47.663 ppb	10:39:10
3	S 181.975 Axial†	43.9	22.4	93.118 µg/L	93.118 ppb	10:39:10
3	Sb 206.836†	13.9	-5.5	-7.4691 µg/L	-7.4691 ppb	10:39:10
3	Se 196.026†	-22.0	-35.9	126.77 µg/L	126.77 ppb	10:39:10
3	SiO2†	70584.3	67713.0	15490 µg/L	15490 ppb	10:38:50
3	Si 251.611†	86468.8	84287.9	7228.6 µg/L	7228.6 ppb	10:38:50
3	Sn 189.927†	4.5	3.3	-1.5745 µg/L	-1.5745 ppb	10:39:10
3	Ti 334.940†	468641.7	458909.1	1290.8 µg/L	1290.8 ppb	10:38:44
3	Tl 190.801†	-44.8	-17.3	6.0376 µg/L	6.0376 ppb	10:39:10
3	U 409.014†	-2198.3	-2296.8	-246.62 µg/L	-246.62 ppb	10:38:44
3	V 292.402†	2433.8	2527.6	35.577 µg/L	35.577 ppb	10:38:50
3	Zn 213.857†	10350.3	9524.4	264.84 µg/L	264.84 ppb	10:38:50

Mean Data: 246872004|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1691169.9	101.78 %	0.295			0.29%
Sc RADIAL	110161.9	99.6 %	0.24			0.24%
Y 371.029	1002370.2	106.95 %	0.124			0.12%
Ag 328.068†	-625.9	1.2841 µg/L	0.59514	1.2841 ppb	0.59514	46.35%
Al 396.153Radial†	28320.3	14992 µg/L	6.7	14992 ppb	6.7	0.04%
As 188.979†	5.8	13.961 µg/L	4.3269	13.961 ppb	4.3269	30.99%
B 249.677†	427.0	-4.0937 µg/L	0.38142	-4.0937 ppb	0.38142	9.32%
Ba 233.527†	10988.2	297.32 µg/L	5.420	297.32 ppb	5.420	1.82%
Be 313.107†	6203.2	4.1350 µg/L	0.11899	4.1350 ppb	0.11899	2.88%
Ca 317.933Radial†	18391.3	6278.4 µg/L	6.05	6278.4 ppb	6.05	0.10%
Cd 226.502†	255.2	1.7583 µg/L	0.04736	1.7583 ppb	0.04736	2.69%
Co 228.616†	236.5	10.162 µg/L	0.5512	10.162 ppb	0.5512	5.42%
Cr 267.716†	3981.9	106.48 µg/L	3.090	106.48 ppb	3.090	2.90%
Cu 324.752†	2647.0	30.084 µg/L	0.8779	30.084 ppb	0.8779	2.92%
Fe 238.204 Radial†	7719.3	53439 µg/L	112.5	53439 ppb	112.5	0.21%
K 766.490 Radial†	4829.1	2868.8 µg/L	12.46	2868.8 ppb	12.46	0.43%
Mg 279.077 IEC†	315.4	3061.0 µg/L	63.50	3061.0 ppb	63.50	2.07%
Mn 257.610†	630486.2	2387.4 µg/L	27.80	2387.4 ppb	27.80	1.16%
Mo 202.031†	50.2	8.0889 µg/L	0.82362	8.0889 ppb	0.82362	10.18%
Na 589.592 Radial†	1599.0	493.57 µg/L	5.488	493.57 ppb	5.488	1.11%

Ni 231.604†	864.4	63.848 µg/L	2.6091	63.848 ppb	2.6091	4.09%
P 214.914†	555.2	1219.4 µg/L	38.37	1219.4 ppb	38.37	3.15%
Pb 220.353†	162.9	53.255 µg/L	4.8437	53.255 ppb	4.8437	9.10%
S 181.975 Axial†	24.6	102.08 µg/L	24.204	102.08 ppb	24.204	23.71%
Sb 206.836†	-3.1	-4.6961 µg/L	2.62671	-4.6961 ppb	2.62671	55.93%
Se 196.026†	-37.2	125.29 µg/L	3.527	125.29 ppb	3.527	2.81%
SiO2†	69283.1	15849 µg/L	314.1	15849 ppb	314.1	1.98%
Si 251.611†	86163.2	7389.4 µg/L	140.11	7389.4 ppb	140.11	1.90%
Sn 189.927†	-1.9	-4.1375 µg/L	2.31046	-4.1375 ppb	2.31046	55.84%
Sr 421.552†	8270.9	34.400 µg/L	0.2095	34.400 ppb	0.2095	0.61%
Ti 334.940†	465554.1	1309.5 µg/L	16.19	1309.5 ppb	16.19	1.24%
Tl 190.801†	-19.1	4.1963 µg/L	1.63793	4.1963 ppb	1.63793	39.03%
U 409.014†	-2347.6	-251.90 µg/L	4.761	-251.90 ppb	4.761	1.89%
V 292.402†	2587.7	36.389 µg/L	0.7139	36.389 ppb	0.7139	1.96%
Zn 213.857†	9781.5	272.05 µg/L	6.245	272.05 ppb	6.245	2.30%

Sequence No.: 44

Sample ID: 246872005|952953|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 336

Date Collected: 2/26/2010 10:39:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872005|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	109234.6	109234.6	98.8 %		10:39:52
1	Al 396.153Radial†	49784.7	50481.8	26723 µg/L	26723 ppb	10:39:52
1	Ca 317.933Radial†	31530.9	31438.1	10732 µg/L	10732 ppb	10:39:52
1	Fe 238.204 Radial†	9344.1	9428.3	65271 µg/L	65271 ppb	10:40:12
1	K 766.490 Radial†	7926.7	7777.3	4620.3 µg/L	4620.3 ppb	10:39:52
1	Mg 279.077 IEC†	559.1	552.7	5394.9 µg/L	5394.9 ppb	10:40:12
1	Na 589.592 Radial†	1749.6	1453.3	448.58 µg/L	448.58 ppb	10:39:52
1	Sr 421.552†	17637.9	17716.2	73.684 µg/L	73.684 ppb	10:39:52
1	Sc 361.383	1672791.4	1672791.4	100.68 %		10:41:16
1	Y 371.029	980600.4	980600.4	104.63 %		10:41:16
1	Ag 328.068†	-1295.1	-769.1	1.6996 µg/L	1.6996 ppb	10:41:22
1	As 188.979†	-0.2	7.4	17.433 µg/L	17.433 ppb	10:41:42
1	B 249.677†	775.3	603.2	-0.5263 µg/L	-0.5263 ppb	10:41:22
1	Ba 233.527†	14065.3	13981.0	378.34 µg/L	378.34 ppb	10:41:22
1	Be 313.107†	6287.4	7913.2	5.1861 µg/L	5.1861 ppb	10:41:22
1	Cd 226.502†	195.3	334.6	2.8256 µg/L	2.8256 ppb	10:41:42
1	Co 228.616†	363.4	334.1	14.238 µg/L	14.238 ppb	10:41:42
1	Cr 267.716†	4015.5	3919.4	104.83 µg/L	104.83 ppb	10:41:42
1	Cu 324.752†	8588.5	5900.4	56.936 µg/L	56.936 ppb	10:41:22
1	Mn 257.610†	535028.6	532013.6	2015.5 µg/L	2015.5 ppb	10:41:16
1	Mo 202.031†	46.3	43.6	7.7383 µg/L	7.7383 ppb	10:41:42
1	Ni 231.604†	1149.7	846.6	62.698 µg/L	62.698 ppb	10:41:42
1	P 214.914†	596.4	351.1	747.14 µg/L	747.14 ppb	10:41:42
1	Pb 220.353†	242.4	206.0	67.669 µg/L	67.669 ppb	10:41:42
1	S 181.975 Axial†	141.6	120.0	497.98 µg/L	497.98 ppb	10:41:42
1	Sb 206.836†	17.1	-2.1	-3.6833 µg/L	-3.6833 ppb	10:41:42
1	Se 196.026†	-27.3	-41.5	156.80 µg/L	156.80 ppb	10:41:42
1	SiO2†	102108.2	100018.3	22880 µg/L	22880 ppb	10:41:22
1	Si 251.611†	125849.6	124620.9	10688 µg/L	10688 ppb	10:41:22
1	Sn 189.927†	-13.0	-13.9	-10.548 µg/L	-10.548 ppb	10:41:42
1	Ti 334.940†	681362.9	676795.3	1903.6 µg/L	1903.6 ppb	10:41:16
1	Tl 190.801†	-42.0	-15.2	13.718 µg/L	13.718 ppb	10:41:42
1	U 409.014†	-1174.0	-1310.3	-145.97 µg/L	-145.97 ppb	10:41:16
1	V 292.402†	5040.8	5151.3	70.995 µg/L	70.995 ppb	10:41:22
1	Zn 213.857†	12314.3	11620.9	323.04 µg/L	323.04 ppb	10:41:22
2	Sc RADIAL	109841.1	109841.1	99.3 %		10:40:18
2	Al 396.153Radial†	50221.8	50643.6	26809 µg/L	26809 ppb	10:40:18
2	Ca 317.933Radial†	31842.2	31575.3	10779 µg/L	10779 ppb	10:40:18
2	Fe 238.204 Radial†	9332.5	9364.4	64829 µg/L	64829 ppb	10:40:38
2	K 766.490 Radial†	8069.1	7876.4	4679.1 µg/L	4679.1 ppb	10:40:18
2	Mg 279.077 IEC†	549.2	539.6	5265.9 µg/L	5265.9 ppb	10:40:38
2	Na 589.592 Radial†	1838.0	1532.5	473.04 µg/L	473.04 ppb	10:40:18
2	Sr 421.552†	17785.5	17766.3	73.893 µg/L	73.893 ppb	10:40:18
2	Sc 361.383	1685339.3	1685339.3	101.43 %		10:41:50
2	Y 371.029	991136.7	991136.7	105.75 %		10:41:50
2	Ag 328.068†	-1255.8	-720.8	2.0919 µg/L	2.0919 ppb	10:41:55
2	As 188.979†	5.2	12.8	27.700 µg/L	27.700 ppb	10:42:16
2	B 249.677†	779.3	601.4	-0.3958 µg/L	-0.3958 ppb	10:41:55
2	Ba 233.527†	14165.4	13975.6	378.20 µg/L	378.20 ppb	10:41:55
2	Be 313.107†	6264.3	7843.9	5.1342 µg/L	5.1342 ppb	10:41:55
2	Cd 226.502†	187.1	325.1	2.5876 µg/L	2.5876 ppb	10:42:16
2	Co 228.616†	364.0	332.0	14.123 µg/L	14.123 ppb	10:42:16
2	Cr 267.716†	4012.9	3887.2	103.97 µg/L	103.97 ppb	10:42:16
2	Cu 324.752†	8590.4	5838.8	56.387 µg/L	56.387 ppb	10:41:55
2	Mn 257.610†	540359.2	533312.4	2020.4 µg/L	2020.4 ppb	10:41:50
2	Mo 202.031†	50.3	47.1	8.1519 µg/L	8.1519 ppb	10:42:16
2	Ni 231.604†	1156.4	844.8	62.554 µg/L	62.554 ppb	10:42:16
2	P 214.914†	597.5	347.8	739.99 µg/L	739.99 ppb	10:42:16
2	Pb 220.353†	251.5	213.2	70.086 µg/L	70.086 ppb	10:42:16

2	S 181.975 Axial†	132.0	109.6	454.64 µg/L	454.64 ppb	10:42:16
2	Sb 206.836†	18.4	-1.0	-2.4366 µg/L	-2.4366 ppb	10:42:16
2	Se 196.026†	-41.5	-55.3	137.50 µg/L	137.50 ppb	10:42:16
2	SiO2†	102410.6	99561.4	22776 µg/L	22776 ppb	10:41:55
2	Si 251.611†	126163.2	123999.3	10634 µg/L	10634 ppb	10:41:55
2	Sn 189.927†	-15.7	-16.6	-11.817 µg/L	-11.817 ppb	10:42:16
2	Ti 334.940†	686609.2	676928.6	1904.0 µg/L	1904.0 ppb	10:41:50
2	Tl 190.801†	-47.5	-20.3	7.3747 µg/L	7.3747 ppb	10:42:16
2	U 409.014†	-1189.1	-1316.6	-146.56 µg/L	-146.56 ppb	10:41:50
2	V 292.402†	5055.1	5128.1	70.671 µg/L	70.671 ppb	10:41:55
2	Zn 213.857†	12338.1	11553.2	321.17 µg/L	321.17 ppb	10:41:55
3	Sc RADIAL	109129.7	109129.7	98.7 %		10:40:44
3	Al 396.153Radial†	49970.9	50719.0	26849 µg/L	26849 ppb	10:40:44
3	Ca 317.933Radial†	31696.3	31636.5	10800 µg/L	10800 ppb	10:40:44
3	Fe 238.204 Radial†	9311.2	9404.1	65103 µg/L	65103 ppb	10:41:04
3	K 766.490 Radial†	7961.5	7820.3	4645.8 µg/L	4645.8 ppb	10:40:44
3	Mg 279.077 IEC†	558.1	552.3	5390.9 µg/L	5390.9 ppb	10:41:04
3	Na 589.592 Radial†	1833.3	1539.8	475.30 µg/L	475.30 ppb	10:40:44
3	Sr 421.552†	17690.3	17786.5	73.977 µg/L	73.977 ppb	10:40:44
3	Sc 361.383	1683514.0	1683514.0	101.32 %		10:42:23
3	Y 371.029	987928.9	987928.9	105.41 %		10:42:23
3	Ag 328.068†	-1202.8	-669.9	2.5877 µg/L	2.5877 ppb	10:42:29
3	As 188.979†	4.5	12.1	26.369 µg/L	26.369 ppb	10:42:50
3	B 249.677†	752.1	575.4	-1.9926 µg/L	-1.9926 ppb	10:42:29
3	Ba 233.527†	13855.4	13684.8	370.33 µg/L	370.33 ppb	10:42:29
3	Be 313.107†	6016.8	7606.3	4.9706 µg/L	4.9706 ppb	10:42:29
3	Cd 226.502†	174.3	312.7	2.1768 µg/L	2.1768 ppb	10:42:50
3	Co 228.616†	347.6	316.2	13.337 µg/L	13.337 ppb	10:42:50
3	Cr 267.716†	3703.6	3586.2	95.922 µg/L	95.922 ppb	10:42:50
3	Cu 324.752†	8534.4	5792.7	56.089 µg/L	56.089 ppb	10:42:29
3	Mn 257.610†	530280.8	523942.9	1985.0 µg/L	1985.0 ppb	10:42:23
3	Mo 202.031†	41.1	38.2	7.0778 µg/L	7.0778 ppb	10:42:50
3	Ni 231.604†	1094.8	785.3	58.212 µg/L	58.212 ppb	10:42:50
3	P 214.914†	580.7	331.9	703.72 µg/L	703.72 ppb	10:42:50
3	Pb 220.353†	238.5	200.6	65.868 µg/L	65.868 ppb	10:42:50
3	S 181.975 Axial†	132.6	110.3	457.76 µg/L	457.76 ppb	10:42:50
3	Sb 206.836†	17.5	-1.9	-3.3625 µg/L	-3.3625 ppb	10:42:50
3	Se 196.026†	-31.8	-45.8	150.65 µg/L	150.65 ppb	10:42:50
3	SiO2†	100421.9	97708.0	22352 µg/L	22352 ppb	10:42:29
3	Si 251.611†	123507.0	121512.6	10421 µg/L	10421 ppb	10:42:29
3	Sn 189.927†	-10.1	-11.0	-9.0607 µg/L	-9.0607 ppb	10:42:50
3	Ti 334.940†	672741.4	663975.6	1867.5 µg/L	1867.5 ppb	10:42:23
3	Tl 190.801†	-35.9	-9.0	20.845 µg/L	20.845 ppb	10:42:50
3	U 409.014†	-1192.4	-1321.1	-147.08 µg/L	-147.08 ppb	10:42:23
3	V 292.402†	4865.1	4946.0	68.233 µg/L	68.233 ppb	10:42:29
3	Zn 213.857†	12107.9	11339.2	315.15 µg/L	315.15 ppb	10:42:29

Mean Data: 246872005|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1680548.3	101.14 %	0.408			0.40%
Sc RADIAL	109401.8	98.9 %	0.35			0.35%
Y 371.029	986555.3	105.26 %	0.576			0.55%
Ag 328.068†	-719.9	2.1264 µg/L	0.44502	2.1264 ppb	0.44502	20.93%
Al 396.153Radial†	50614.8	26794 µg/L	64.2	26794 ppb	64.2	0.24%
As 188.979†	10.7	23.834 µg/L	5.5832	23.834 ppb	5.5832	23.43%
B 249.677†	593.3	-0.9716 µg/L	0.88664	-0.9716 ppb	0.88664	91.26%
Ba 233.527†	13880.5	375.62 µg/L	4.587	375.62 ppb	4.587	1.22%
Be 313.107†	7787.8	5.0970 µg/L	0.11247	5.0970 ppb	0.11247	2.21%
Ca 317.933Radial†	31550.0	10770 µg/L	34.7	10770 ppb	34.7	0.32%
Cd 226.502†	324.1	2.5300 µg/L	0.32823	2.5300 ppb	0.32823	12.97%
Co 228.616†	327.4	13.899 µg/L	0.4905	13.899 ppb	0.4905	3.53%
Cr 267.716†	3797.6	101.58 µg/L	4.915	101.58 ppb	4.915	4.84%
Cu 324.752†	5844.0	56.471 µg/L	0.4297	56.471 ppb	0.4297	0.76%
Fe 238.204 Radial†	9399.0	65068 µg/L	223.3	65068 ppb	223.3	0.34%
K 766.490 Radial†	7824.6	4648.4 µg/L	29.51	4648.4 ppb	29.51	0.63%
Mg 279.077 IEC†	548.2	5350.6 µg/L	73.33	5350.6 ppb	73.33	1.37%
Mn 257.610†	529756.3	2007.0 µg/L	19.20	2007.0 ppb	19.20	0.96%
Mo 202.031†	43.0	7.6560 µg/L	0.54178	7.6560 ppb	0.54178	7.08%
Na 589.592 Radial†	1508.5	465.64 µg/L	14.816	465.64 ppb	14.816	3.18%

Ni 231.604†	825.6	61.155 µg/L	2.5498	61.155 ppb	2.5498	4.17%
P 214.914†	343.6	730.28 µg/L	23.284	730.28 ppb	23.284	3.19%
Pb 220.353†	206.6	67.874 µg/L	2.1161	67.874 ppb	2.1161	3.12%
S 181.975 Axial†	113.3	470.13 µg/L	24.174	470.13 ppb	24.174	5.14%
Sb 206.836†	-1.7	-3.1608 µg/L	0.64736	-3.1608 ppb	0.64736	20.48%
Se 196.026†	-47.5	148.32 µg/L	9.862	148.32 ppb	9.862	6.65%
SiO2†	99095.9	22669 µg/L	279.9	22669 ppb	279.9	1.23%
Si 251.611†	123377.6	10581 µg/L	141.1	10581 ppb	141.1	1.33%
Sn 189.927†	-13.8	-10.475 µg/L	1.3797	-10.475 ppb	1.3797	13.17%
Sr 421.552†	17756.3	73.851 µg/L	0.1505	73.851 ppb	0.1505	0.20%
Ti 334.940†	672566.5	1891.7 µg/L	20.93	1891.7 ppb	20.93	1.11%
Tl 190.801†	-14.8	13.979 µg/L	6.7389	13.979 ppb	6.7389	48.21%
U 409.014†	-1316.0	-146.54 µg/L	0.552	-146.54 ppb	0.552	0.38%
V 292.402†	5075.1	69.966 µg/L	1.5099	69.966 ppb	1.5099	2.16%
Zn 213.857†	11504.4	319.79 µg/L	4.123	319.79 ppb	4.123	1.29%

Sequence No.: 45

Sample ID: 246872006|952953|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 337

Date Collected: 2/26/2010 10:42:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872006|952953|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	108839.3	108839.3	98.4 %		10:43:32
1	Al 396.153Radial†	57911.5	58923.8	31192 µg/L	31192 ppb	10:43:32
1	Ca 317.933Radial†	26750.8	26696.2	9113.4 µg/L	9113.4 ppb	10:43:32
1	Fe 238.204 Radial†	7950.5	8046.5	55704 µg/L	55704 ppb	10:43:52
1	K 766.490 Radial†	5803.6	5648.9	3355.8 µg/L	3355.8 ppb	10:43:32
1	Mg 279.077 IEC†	397.0	390.0	3796.9 µg/L	3796.9 ppb	10:43:52
1	Na 589.592 Radial†	1886.2	1598.6	493.43 µg/L	493.43 ppb	10:43:32
1	Sr 421.552†	15603.1	15713.2	65.354 µg/L	65.354 ppb	10:43:32
1	Sc 361.383	1683619.9	1683619.9	101.33 %		10:44:57
1	Y 371.029	1029516.6	1029516.6	109.85 %		10:44:57
1	Ag 328.068†	-1239.7	-706.2	0.8308 µg/L	0.8308 ppb	10:45:03
1	As 188.979†	-2.6	5.1	12.551 µg/L	12.551 ppb	10:45:23
1	B 249.677†	671.7	496.0	-1.4291 µg/L	-1.4291 ppb	10:45:03
1	Ba 233.527†	11808.7	11664.1	315.61 µg/L	315.61 ppb	10:45:03
1	Be 313.107†	9333.0	10878.7	7.4574 µg/L	7.4574 ppb	10:45:03
1	Cd 226.502†	137.1	275.9	2.1438 µg/L	2.1438 ppb	10:45:23
1	Co 228.616†	203.0	173.5	5.7917 µg/L	5.7917 ppb	10:45:23
1	Cr 267.716†	4815.5	4683.3	125.24 µg/L	125.24 ppb	10:45:03
1	Cu 324.752†	5285.6	2585.9	30.047 µg/L	30.047 ppb	10:45:03
1	Mn 257.610†	736421.7	727350.5	2753.8 µg/L	2753.8 ppb	10:44:57
1	Mo 202.031†	47.2	44.2	7.4444 µg/L	7.4444 ppb	10:45:23
1	Ni 231.604†	1345.3	1032.4	76.159 µg/L	76.159 ppb	10:45:23
1	P 214.914†	480.6	233.0	490.66 µg/L	490.66 ppb	10:45:23
1	Pb 220.353†	191.2	153.9	51.110 µg/L	51.110 ppb	10:45:23
1	S 181.975 Axial†	86.0	64.3	266.72 µg/L	266.72 ppb	10:45:23
1	Sb 206.836†	15.2	-4.1	-6.1638 µg/L	-6.1638 ppb	10:45:23
1	Se 196.026†	-22.3	-36.3	133.15 µg/L	133.15 ppb	10:45:23
1	SiO2†	111127.1	108266.8	24767 µg/L	24767 ppb	10:45:03
1	Si 251.611†	137214.7	135033.1	11581 µg/L	11581 ppb	10:45:03
1	Sn 189.927†	-5.9	-6.9	-6.6273 µg/L	-6.6273 ppb	10:45:23
1	Ti 334.940†	632835.7	624550.9	1756.7 µg/L	1756.7 ppb	10:44:57
1	Tl 190.801†	-50.1	-23.0	5.0481 µg/L	5.0481 ppb	10:45:23
1	U 409.014†	-2447.0	-2559.2	-274.40 µg/L	-274.40 ppb	10:44:57
1	V 292.402†	2530.5	2641.7	37.205 µg/L	37.205 ppb	10:45:03
1	Zn 213.857†	12438.4	11664.6	324.80 µg/L	324.80 ppb	10:45:03
2	Sc RADIAL	109384.9	109384.9	98.9 %		10:43:58
2	Al 396.153Radial†	57849.4	58567.5	31004 µg/L	31004 ppb	10:43:58
2	Ca 317.933Radial†	26795.4	26605.7	9082.6 µg/L	9082.6 ppb	10:43:58
2	Fe 238.204 Radial†	7982.8	8038.8	55651 µg/L	55651 ppb	10:44:18
2	K 766.490 Radial†	5887.8	5704.6	3388.9 µg/L	3388.9 ppb	10:43:58
2	Mg 279.077 IEC†	395.7	386.7	3763.8 µg/L	3763.8 ppb	10:44:18
2	Na 589.592 Radial†	1905.8	1608.8	496.58 µg/L	496.58 ppb	10:43:58
2	Sr 421.552†	15659.6	15691.3	65.262 µg/L	65.262 ppb	10:43:58
2	Sc 361.383	1685683.8	1685683.8	101.45 %		10:45:31
2	Y 371.029	1029131.3	1029131.3	109.80 %		10:45:31
2	Ag 328.068†	-1235.7	-700.8	0.8713 µg/L	0.8713 ppb	10:45:37
2	As 188.979†	-0.1	7.6	17.297 µg/L	17.297 ppb	10:45:57
2	B 249.677†	650.1	473.9	-2.6280 µg/L	-2.6280 ppb	10:45:37
2	Ba 233.527†	11883.2	11723.3	317.21 µg/L	317.21 ppb	10:45:37
2	Be 313.107†	9446.0	10978.8	7.5299 µg/L	7.5299 ppb	10:45:37
2	Cd 226.502†	137.2	275.8	2.1444 µg/L	2.1444 ppb	10:45:57
2	Co 228.616†	203.6	173.8	5.7988 µg/L	5.7988 ppb	10:45:57
2	Cr 267.716†	4813.3	4675.3	125.02 µg/L	125.02 ppb	10:45:37
2	Cu 324.752†	5258.7	2553.0	29.789 µg/L	29.789 ppb	10:45:37
2	Mn 257.610†	739777.3	729768.2	2763.0 µg/L	2763.0 ppb	10:45:31
2	Mo 202.031†	53.7	50.5	8.2122 µg/L	8.2122 ppb	10:45:57
2	Ni 231.604†	1333.3	1018.9	75.170 µg/L	75.170 ppb	10:45:57
2	P 214.914†	464.9	217.0	454.29 µg/L	454.29 ppb	10:45:57
2	Pb 220.353†	186.6	149.1	49.506 µg/L	49.506 ppb	10:45:57

2	S 181.975 Axial†	81.3	59.5	246.97	µg/L	246.97	ppb	10:45:57
2	Sb 206.836†	16.2	-3.2	-5.1223	µg/L	-5.1223	ppb	10:45:57
2	Se 196.026†	-17.2	-31.3	139.54	µg/L	139.54	ppb	10:45:57
2	SiO2†	111672.7	108670.3	24859	µg/L	24859	ppb	10:45:37
2	Si 251.611†	137883.5	135526.5	11623	µg/L	11623	ppb	10:45:37
2	Sn 189.927†	-5.2	-6.2	-6.2877	µg/L	-6.2877	ppb	10:45:57
2	Ti 334.940†	635796.3	626704.5	1762.8	µg/L	1762.8	ppb	10:45:31
2	Tl 190.801†	-52.5	-25.2	2.3597	µg/L	2.3597	ppb	10:45:57
2	U 409.014†	-2523.3	-2631.4	-281.89	µg/L	-281.89	ppb	10:45:31
2	V 292.402†	2495.2	2603.8	36.696	µg/L	36.696	ppb	10:45:37
2	Zn 213.857†	12509.2	11719.4	326.35	µg/L	326.35	ppb	10:45:37
3	Sc RADIAL	108432.3	108432.3	98.0	%			10:44:24
3	Al 396.153Radial†	57346.4	58568.3	31004	µg/L	31004	ppb	10:44:24
3	Ca 317.933Radial†	26471.4	26513.2	9051.0	µg/L	9051.0	ppb	10:44:24
3	Fe 238.204 Radial†	7946.4	8072.6	55885	µg/L	55885	ppb	10:44:44
3	K 766.490 Radial†	5876.8	5745.6	3413.3	µg/L	3413.3	ppb	10:44:24
3	Mg 279.077 IEC†	399.1	393.7	3833.2	µg/L	3833.2	ppb	10:44:44
3	Na 589.592 Radial†	1871.2	1590.5	490.93	µg/L	490.93	ppb	10:44:24
3	Sr 421.552†	15522.2	15690.2	65.258	µg/L	65.258	ppb	10:44:24
3	Sc 361.383	1677411.7	1677411.7	100.95	%			10:46:05
3	Y 371.029	1024197.8	1024197.8	109.28	%			10:46:05
3	Ag 328.068†	-1222.1	-693.3	0.9651	µg/L	0.9651	ppb	10:46:10
3	As 188.979†	2.9	10.5	22.941	µg/L	22.941	ppb	10:46:31
3	B 249.677†	662.7	489.5	-1.8906	µg/L	-1.8906	ppb	10:46:10
3	Ba 233.527†	11552.1	11453.0	309.89	µg/L	309.89	ppb	10:46:10
3	Be 313.107†	9067.6	10650.0	7.2945	µg/L	7.2945	ppb	10:46:10
3	Cd 226.502†	124.0	263.5	1.7408	µg/L	1.7408	ppb	10:46:31
3	Co 228.616†	199.5	170.7	5.6842	µg/L	5.6842	ppb	10:46:31
3	Cr 267.716†	4652.6	4539.5	121.39	µg/L	121.39	ppb	10:46:10
3	Cu 324.752†	5219.8	2540.0	29.734	µg/L	29.734	ppb	10:46:10
3	Mn 257.610†	727386.5	721090.3	2730.2	µg/L	2730.2	ppb	10:46:05
3	Mo 202.031†	44.4	41.6	7.1375	µg/L	7.1375	ppb	10:46:31
3	Ni 231.604†	1277.6	970.3	71.621	µg/L	71.621	ppb	10:46:31
3	P 214.914†	469.0	223.3	468.43	µg/L	468.43	ppb	10:46:31
3	Pb 220.353†	174.1	137.7	45.681	µg/L	45.681	ppb	10:46:31
3	S 181.975 Axial†	80.5	59.2	245.42	µg/L	245.42	ppb	10:46:31
3	Sb 206.836†	22.2	2.8	1.7397	µg/L	1.7397	ppb	10:46:31
3	Se 196.026†	-27.3	-41.4	127.19	µg/L	127.19	ppb	10:46:31
3	SiO2†	108834.0	106401.2	24340	µg/L	24340	ppb	10:46:10
3	Si 251.611†	134217.0	132564.8	11369	µg/L	11369	ppb	10:46:10
3	Sn 189.927†	-6.6	-7.6	-6.9835	µg/L	-6.9835	ppb	10:46:31
3	Ti 334.940†	622997.4	617117.1	1735.8	µg/L	1735.8	ppb	10:46:05
3	Tl 190.801†	-49.5	-22.6	5.2660	µg/L	5.2660	ppb	10:46:31
3	U 409.014†	-2470.1	-2591.0	-277.72	µg/L	-277.72	ppb	10:46:05
3	V 292.402†	2409.2	2530.8	35.723	µg/L	35.723	ppb	10:46:10
3	Zn 213.857†	12179.4	11453.6	318.88	µg/L	318.88	ppb	10:46:10

Mean Data: 246872006|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1682238.5	101.24 %	0.259			0.26%
Sc RADIAL	108885.5	98.4 %	0.43			0.44%
Y 371.029	1027615.2	109.64 %	0.316			0.29%
Ag 328.068†	-700.1	0.8891 µg/L	0.06892	0.8891 ppb	0.06892	7.75%
Al 396.153Radial†	58686.5	31067 µg/L	108.8	31067 ppb	108.8	0.35%
As 188.979†	7.7	17.596 µg/L	5.2016	17.596 ppb	5.2016	29.56%
B 249.677†	486.5	-1.9826 µg/L	0.60471	-1.9826 ppb	0.60471	30.50%
Ba 233.527†	11613.5	314.24 µg/L	3.844	314.24 ppb	3.844	1.22%
Be 313.107†	10835.8	7.4273 µg/L	0.12055	7.4273 ppb	0.12055	1.62%
Ca 317.933Radial†	26605.0	9082.3 µg/L	31.23	9082.3 ppb	31.23	0.34%
Cd 226.502†	271.7	2.0096 µg/L	0.23286	2.0096 ppb	0.23286	11.59%
Co 228.616†	172.7	5.7582 µg/L	0.06424	5.7582 ppb	0.06424	1.12%
Cr 267.716†	4632.7	123.88 µg/L	2.161	123.88 ppb	2.161	1.74%
Cu 324.752†	2559.6	29.857 µg/L	0.1674	29.857 ppb	0.1674	0.56%
Fe 238.204 Radial†	8052.6	55747 µg/L	122.7	55747 ppb	122.7	0.22%
K 766.490 Radial†	5699.7	3386.0 µg/L	28.84	3386.0 ppb	28.84	0.85%
Mg 279.077 IEC†	390.2	3798.0 µg/L	34.74	3798.0 ppb	34.74	0.91%
Mn 257.610†	726069.7	2749.0 µg/L	16.93	2749.0 ppb	16.93	0.62%
Mo 202.031†	45.4	7.5980 µg/L	0.55354	7.5980 ppb	0.55354	7.29%
Na 589.592 Radial†	1599.3	493.64 µg/L	2.831	493.64 ppb	2.831	0.57%

Ni 231.604†	1007.2	74.317 µg/L	2.3865	74.317 ppb	2.3865	3.21%
P 214.914†	224.4	471.13 µg/L	18.339	471.13 ppb	18.339	3.89%
Pb 220.353†	146.9	48.766 µg/L	2.7891	48.766 ppb	2.7891	5.72%
S 181.975 Axial†	61.0	253.04 µg/L	11.872	253.04 ppb	11.872	4.69%
Sb 206.836†	-1.5	-3.1821 µg/L	4.29414	-3.1821 ppb	4.29414	134.95%
Se 196.026†	-36.3	133.29 µg/L	6.172	133.29 ppb	6.172	4.63%
SiO2†	107779.4	24656 µg/L	276.9	24656 ppb	276.9	1.12%
Si 251.611†	134374.8	11524 µg/L	136.1	11524 ppb	136.1	1.18%
Sn 189.927†	-6.9	-6.6329 µg/L	0.34795	-6.6329 ppb	0.34795	5.25%
Sr 421.552†	15698.2	65.291 µg/L	0.0540	65.291 ppb	0.0540	0.08%
Ti 334.940†	622790.9	1751.8 µg/L	14.15	1751.8 ppb	14.15	0.81%
Tl 190.801†	-23.6	4.2246 µg/L	1.61875	4.2246 ppb	1.61875	38.32%
U 409.014†	-2593.9	-278.00 µg/L	3.757	-278.00 ppb	3.757	1.35%
V 292.402†	2592.1	36.541 µg/L	0.7531	36.541 ppb	0.7531	2.06%
Zn 213.857†	11612.5	323.34 µg/L	3.944	323.34 ppb	3.944	1.22%

Sequence No.: 46

Sample ID: 246872007|952953|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 338

Date Collected: 2/26/2010 10:46:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872007|952953|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110321.4	110321.4	99.7 %		10:47:13
1	Al 396.153Radial†	63015.5	63250.6	33483 µg/L	33483 ppb	10:47:13
1	Ca 317.933Radial†	12751.6	12295.2	4197.3 µg/L	4197.3 ppb	10:47:13
1	Fe 238.204 Radial†	10215.4	10208.7	70673 µg/L	70673 ppb	10:47:13
1	K 766.490 Radial†	4903.5	4667.1	2772.6 µg/L	2772.6 ppb	10:47:13
1	Mg 279.077 IEC†	322.1	309.6	2985.0 µg/L	2985.0 ppb	10:47:34
1	Na 589.592 Radial†	2447.9	2135.9	659.29 µg/L	659.29 ppb	10:47:13
1	Sr 421.552†	8201.5	8079.2	33.603 µg/L	33.603 ppb	10:47:13
1	Sc 361.383	1685692.0	1685692.0	101.45 %		10:48:38
1	Y 371.029	1047489.1	1047489.1	111.76 %		10:48:38
1	Ag 328.068†	-1383.6	-846.5	1.4533 µg/L	1.4533 ppb	10:48:44
1	As 188.979†	1.9	9.6	22.233 µg/L	22.233 ppb	10:49:04
1	B 249.677†	669.0	492.5	-9.4125 µg/L	-9.4125 ppb	10:48:44
1	Ba 233.527†	7570.2	7472.0	202.20 µg/L	202.20 ppb	10:48:44
1	Be 313.107†	10535.8	12053.0	8.0622 µg/L	8.0622 ppb	10:48:44
1	Cd 226.502†	202.6	340.3	2.4010 µg/L	2.4010 ppb	10:49:04
1	Co 228.616†	234.2	204.0	5.9640 µg/L	5.9640 ppb	10:49:04
1	Cr 267.716†	5346.2	5200.6	139.06 µg/L	139.06 ppb	10:48:44
1	Cu 324.752†	5203.1	2498.1	32.197 µg/L	32.197 ppb	10:48:44
1	Mn 257.610†	909434.3	896993.2	3396.4 µg/L	3396.4 ppb	10:48:38
1	Mo 202.031†	59.8	56.5	9.5073 µg/L	9.5073 ppb	10:49:04
1	Ni 231.604†	1320.4	1006.2	74.436 µg/L	74.436 ppb	10:49:04
1	P 214.914†	485.8	237.6	489.67 µg/L	489.67 ppb	10:49:04
1	Pb 220.353†	206.3	168.6	55.579 µg/L	55.579 ppb	10:49:04
1	S 181.975 Axial†	28.7	7.7	32.015 µg/L	32.015 ppb	10:49:04
1	Sb 206.836†	15.0	-4.4	-6.4658 µg/L	-6.4658 ppb	10:49:04
1	Se 196.026†	-40.5	-54.3	160.07 µg/L	160.07 ppb	10:49:04
1	SiO2†	88879.9	86203.2	19720 µg/L	19720 ppb	10:48:44
1	Si 251.611†	109225.7	107278.2	9200.2 µg/L	9200.2 ppb	10:48:44
1	Sn 189.927†	0.4	-0.6	-4.7268 µg/L	-4.7268 ppb	10:49:04
1	Ti 334.940†	891460.3	878706.0	2471.6 µg/L	2471.6 ppb	10:48:38
1	Tl 190.801†	-55.0	-27.7	11.435 µg/L	11.435 ppb	10:49:04
1	U 409.014†	-2808.9	-2913.0	-312.96 µg/L	-312.96 ppb	10:48:38
1	V 292.402†	2520.9	2629.2	37.592 µg/L	37.592 ppb	10:48:44
1	Zn 213.857†	16673.7	15824.3	441.12 µg/L	441.12 ppb	10:48:44
2	Sc RADIAL	110091.1	110091.1	99.5 %		10:47:39
2	Al 396.153Radial†	62797.6	63163.8	33437 µg/L	33437 ppb	10:47:39
2	Ca 317.933Radial†	12673.7	12243.6	4179.7 µg/L	4179.7 ppb	10:47:39
2	Fe 238.204 Radial†	10227.1	10241.9	70903 µg/L	70903 ppb	10:47:39
2	K 766.490 Radial†	4844.3	4618.0	2743.4 µg/L	2743.4 ppb	10:47:39
2	Mg 279.077 IEC†	322.6	310.7	2996.2 µg/L	2996.2 ppb	10:47:59
2	Na 589.592 Radial†	2528.3	2221.9	685.81 µg/L	685.81 ppb	10:47:39
2	Sr 421.552†	8238.9	8134.0	33.831 µg/L	33.831 ppb	10:47:39
2	Sc 361.383	1685266.6	1685266.6	101.43 %		10:49:12
2	Y 371.029	1050526.1	1050526.1	112.09 %		10:49:12
2	Ag 328.068†	-1336.8	-800.7	1.9090 µg/L	1.9090 ppb	10:49:17
2	As 188.979†	-0.9	6.7	16.796 µg/L	16.796 ppb	10:49:38
2	B 249.677†	712.6	535.7	-7.1470 µg/L	-7.1470 ppb	10:49:17
2	Ba 233.527†	7596.9	7500.2	202.96 µg/L	202.96 ppb	10:49:17
2	Be 313.107†	10629.8	12148.3	8.1376 µg/L	8.1376 ppb	10:49:17
2	Cd 226.502†	203.4	341.2	2.4019 µg/L	2.4019 ppb	10:49:38
2	Co 228.616†	239.7	209.4	6.2815 µg/L	6.2815 ppb	10:49:38
2	Cr 267.716†	5334.2	5190.0	138.78 µg/L	138.78 ppb	10:49:17
2	Cu 324.752†	5251.0	2546.7	32.608 µg/L	32.608 ppb	10:49:17
2	Mn 257.610†	905799.9	893636.2	3383.7 µg/L	3383.7 ppb	10:49:12
2	Mo 202.031†	57.0	53.8	9.1836 µg/L	9.1836 ppb	10:49:38
2	Ni 231.604†	1321.0	1007.1	74.503 µg/L	74.503 ppb	10:49:38
2	P 214.914†	487.4	239.2	493.19 µg/L	493.19 ppb	10:49:38
2	Pb 220.353†	198.7	161.1	53.094 µg/L	53.094 ppb	10:49:38

2	S 181.975 Axial†	31.2	10.2	42.357 µg/L	42.357 ppb	10:49:38
2	Sb 206.836†	14.1	-5.3	-7.5444 µg/L	-7.5444 ppb	10:49:38
2	Se 196.026†	-30.9	-44.9	173.00 µg/L	173.00 ppb	10:49:38
2	SiO2†	88984.5	86328.5	19748 µg/L	19748 ppb	10:49:17
2	Si 251.611†	109350.0	107428.0	9213.1 µg/L	9213.1 ppb	10:49:17
2	Sn 189.927†	0.7	-0.3	-4.6175 µg/L	-4.6175 ppb	10:49:38
2	Ti 334.940†	887353.1	874878.4	2460.9 µg/L	2460.9 ppb	10:49:12
2	Tl 190.801†	-47.4	-20.2	20.360 µg/L	20.360 ppb	10:49:38
2	U 409.014†	-2871.6	-2975.4	-319.49 µg/L	-319.49 ppb	10:49:12
2	V 292.402†	2494.2	2603.5	37.249 µg/L	37.249 ppb	10:49:17
2	Zn 213.857†	16721.9	15875.9	442.56 µg/L	442.56 ppb	10:49:17
3	Sc RADIAL	110273.6	110273.6	99.7 %		10:48:05
3	Al 396.153Radial†	62818.5	63080.3	33393 µg/L	33393 ppb	10:48:05
3	Ca 317.933Radial†	12689.4	12238.3	4177.9 µg/L	4177.9 ppb	10:48:05
3	Fe 238.204 Radial†	10195.1	10192.7	70563 µg/L	70563 ppb	10:48:05
3	K 766.490 Radial†	4832.3	4597.9	2731.5 µg/L	2731.5 ppb	10:48:05
3	Mg 279.077 IEC†	322.7	310.3	2992.7 µg/L	2992.7 ppb	10:48:25
3	Na 589.592 Radial†	2585.0	2274.5	702.06 µg/L	702.06 ppb	10:48:05
3	Sr 421.552†	8263.9	8145.4	33.878 µg/L	33.878 ppb	10:48:05
3	Sc 361.383	1683658.7	1683658.7	101.33 %		10:49:45
3	Y 371.029	1049145.1	1049145.1	111.94 %		10:49:45
3	Ag 328.068†	-1402.0	-866.3	1.2432 µg/L	1.2432 ppb	10:49:51
3	As 188.979†	-1.1	6.6	16.492 µg/L	16.492 ppb	10:50:11
3	B 249.677†	631.1	455.9	-11.390 µg/L	-11.390 ppb	10:49:51
3	Ba 233.527†	7375.9	7289.2	197.25 µg/L	197.25 ppb	10:49:51
3	Be 313.107†	10156.2	11690.9	7.8125 µg/L	7.8125 ppb	10:49:51
3	Cd 226.502†	172.1	310.5	1.5038 µg/L	1.5038 ppb	10:50:11
3	Co 228.616†	224.0	194.1	5.5398 µg/L	5.5398 ppb	10:50:11
3	Cr 267.716†	5116.5	4980.2	133.17 µg/L	133.17 ppb	10:49:51
3	Cu 324.752†	5107.0	2409.6	31.506 µg/L	31.506 ppb	10:49:51
3	Mn 257.610†	892696.2	881557.3	3338.0 µg/L	3338.0 ppb	10:49:45
3	Mo 202.031†	61.2	58.0	9.6790 µg/L	9.6790 ppb	10:50:11
3	Ni 231.604†	1244.0	932.4	69.044 µg/L	69.044 ppb	10:50:11
3	P 214.914†	473.1	225.6	462.68 µg/L	462.68 ppb	10:50:11
3	Pb 220.353†	191.2	153.9	50.698 µg/L	50.698 ppb	10:50:11
3	S 181.975 Axial†	28.4	7.4	30.879 µg/L	30.879 ppb	10:50:11
3	Sb 206.836†	13.5	-5.8	-8.0487 µg/L	-8.0487 ppb	10:50:11
3	Se 196.026†	-36.7	-50.6	164.48 µg/L	164.48 ppb	10:50:11
3	SiO2†	86688.0	84145.9	19249 µg/L	19249 ppb	10:49:51
3	Si 251.611†	106437.1	104656.3	8975.4 µg/L	8975.4 ppb	10:49:51
3	Sn 189.927†	-2.3	-3.3	-6.0327 µg/L	-6.0327 ppb	10:50:11
3	Ti 334.940†	870791.7	859369.8	2417.3 µg/L	2417.3 ppb	10:49:45
3	Tl 190.801†	-56.5	-29.3	8.7112 µg/L	8.7112 ppb	10:50:11
3	U 409.014†	-2783.7	-2891.4	-310.70 µg/L	-310.70 ppb	10:49:45
3	V 292.402†	2403.9	2516.7	36.084 µg/L	36.084 ppb	10:49:51
3	Zn 213.857†	16201.5	15378.1	428.61 µg/L	428.61 ppb	10:49:51

Mean Data: 246872007|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1684872.4	101.40 %	0.065			0.06%
Sc RADIAL	110228.7	99.7 %	0.11			0.11%
Y 371.029	1049053.4	111.93 %	0.162			0.14%
Ag 328.068†	-837.8	1.5352 µg/L	0.34036	1.5352 ppb	0.34036	22.17%
Al 396.153Radial†	63164.9	33437 µg/L	45.1	33437 ppb	45.1	0.13%
As 188.979†	7.6	18.507 µg/L	3.2303	18.507 ppb	3.2303	17.45%
B 249.677†	494.7	-9.3167 µg/L	2.12332	-9.3167 ppb	2.12332	22.79%
Ba 233.527†	7420.4	200.80 µg/L	3.100	200.80 ppb	3.100	1.54%
Be 313.107†	11964.1	8.0041 µg/L	0.17016	8.0041 ppb	0.17016	2.13%
Ca 317.933Radial†	12259.0	4184.9 µg/L	10.73	4184.9 ppb	10.73	0.26%
Cd 226.502†	330.7	2.1022 µg/L	0.51825	2.1022 ppb	0.51825	24.65%
Co 228.616†	202.5	5.9284 µg/L	0.37217	5.9284 ppb	0.37217	6.28%
Cr 267.716†	5123.6	137.01 µg/L	3.324	137.01 ppb	3.324	2.43%
Cu 324.752†	2484.8	32.104 µg/L	0.5568	32.104 ppb	0.5568	1.73%
Fe 238.204 Radial†	10214.5	70713 µg/L	173.8	70713 ppb	173.8	0.25%
K 766.490 Radial†	4627.7	2749.2 µg/L	21.16	2749.2 ppb	21.16	0.77%
Mg 279.077 IEC†	310.2	2991.3 µg/L	5.75	2991.3 ppb	5.75	0.19%
Mn 257.610†	890728.9	3372.7 µg/L	30.71	3372.7 ppb	30.71	0.91%
Mo 202.031†	56.1	9.4566 µg/L	0.25152	9.4566 ppb	0.25152	2.66%
Na 589.592 Radial†	2210.8	682.39 µg/L	21.592	682.39 ppb	21.592	3.16%

Ni 231.604†	981.9	72.661 µg/L	3.1330	72.661 ppb	3.1330	4.31%
P 214.914†	234.1	481.85 µg/L	16.690	481.85 ppb	16.690	3.46%
Pb 220.353†	161.2	53.123 µg/L	2.4405	53.123 ppb	2.4405	4.59%
S 181.975 Axial†	8.5	35.084 µg/L	6.3245	35.084 ppb	6.3245	18.03%
Sb 206.836†	-5.2	-7.3530 µg/L	0.80865	-7.3530 ppb	0.80865	11.00%
Se 196.026†	-49.9	165.85 µg/L	6.569	165.85 ppb	6.569	3.96%
SiO2†	85559.2	19573 µg/L	280.4	19573 ppb	280.4	1.43%
Si 251.611†	106454.2	9129.6 µg/L	133.68	9129.6 ppb	133.68	1.46%
Sn 189.927†	-1.4	-5.1257 µg/L	0.78741	-5.1257 ppb	0.78741	15.36%
Sr 421.552†	8119.5	33.770 µg/L	0.1472	33.770 ppb	0.1472	0.44%
Ti 334.940†	870984.7	2449.9 µg/L	28.80	2449.9 ppb	28.80	1.18%
Tl 190.801†	-25.7	13.502 µg/L	6.0936	13.502 ppb	6.0936	45.13%
U 409.014†	-2926.6	-314.38 µg/L	4.564	-314.38 ppb	4.564	1.45%
V 292.402†	2583.1	36.975 µg/L	0.7908	36.975 ppb	0.7908	2.14%
Zn 213.857†	15692.8	437.43 µg/L	7.676	437.43 ppb	7.676	1.75%

Sequence No.: 47

Sample ID: 246872008|952953|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 339

Date Collected: 2/26/2010 10:50:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872008|952953|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110891.0	110891.0	100 %			10:50:53
1	Al 396.153Radial†	45897.3	45851.2	24272 µg/L		24272 ppb	10:50:53
1	Ca 317.933Radial†	15381.2	14852.4	5070.3 µg/L		5070.3 ppb	10:50:53
1	Fe 238.204 Radial†	8355.7	8301.1	57467 µg/L		57467 ppb	10:50:53
1	K 766.490 Radial†	4277.2	4017.1	2386.5 µg/L		2386.5 ppb	10:50:53
1	Mg 279.077 IEC†	297.0	282.8	2735.0 µg/L		2735.0 ppb	10:51:14
1	Na 589.592 Radial†	1952.5	1629.2	502.88 µg/L		502.88 ppb	10:50:53
1	Sr 421.552†	9644.0	9475.9	39.412 µg/L		39.412 ppb	10:50:53
1	Sc 361.383	1660933.5	1660933.5	99.962 %			10:52:18
1	Y 371.029	1004386.9	1004386.9	107.16 %			10:52:18
1	Ag 328.068†	-1224.8	-708.0	1.0271 µg/L		1.0271 ppb	10:52:24
1	As 188.979†	1.5	9.1	20.581 µg/L		20.581 ppb	10:52:44
1	B 249.677†	630.3	463.6	-4.1802 µg/L		-4.1802 ppb	10:52:24
1	Ba 233.527†	8239.2	8252.5	223.31 µg/L		223.31 ppb	10:52:24
1	Be 313.107†	9739.0	11410.8	7.7827 µg/L		7.7827 ppb	10:52:24
1	Cd 226.502†	148.3	288.9	2.3233 µg/L		2.3233 ppb	10:52:44
1	Co 228.616†	195.1	168.3	5.1131 µg/L		5.1131 ppb	10:52:44
1	Cr 267.716†	3870.6	3802.9	101.70 µg/L		101.70 ppb	10:52:44
1	Cu 324.752†	5118.7	2490.2	29.654 µg/L		29.654 ppb	10:52:24
1	Mn 257.610†	802652.9	803533.6	3042.1 µg/L		3042.1 ppb	10:52:18
1	Mo 202.031†	49.3	46.9	7.8418 µg/L		7.8418 ppb	10:52:44
1	Ni 231.604†	1130.9	836.1	61.834 µg/L		61.834 ppb	10:52:44
1	P 214.914†	444.0	202.9	418.93 µg/L		418.93 ppb	10:52:44
1	Pb 220.353†	193.1	158.3	52.137 µg/L		52.137 ppb	10:52:44
1	S 181.975 Axial†	45.3	24.7	102.67 µg/L		102.67 ppb	10:52:44
1	Sb 206.836†	13.6	-5.6	-7.4439 µg/L		-7.4439 ppb	10:52:44
1	Se 196.026†	-28.2	-42.6	131.87 µg/L		131.87 ppb	10:52:44
1	SiO2†	82638.2	81265.0	18590 µg/L		18590 ppb	10:52:24
1	Si 251.611†	101489.6	101144.1	8674.2 µg/L		8674.2 ppb	10:52:24
1	Sn 189.927†	1.7	0.7	-3.1964 µg/L		-3.1964 ppb	10:52:44
1	Ti 334.940†	691602.3	691870.4	1946.1 µg/L		1946.1 ppb	10:52:18
1	Tl 190.801†	-49.3	-22.8	9.0378 µg/L		9.0378 ppb	10:52:44
1	U 409.014†	-2452.0	-2597.2	-278.34 µg/L		-278.34 ppb	10:52:18
1	V 292.402†	2331.6	2476.8	35.023 µg/L		35.023 ppb	10:52:24
1	Zn 213.857†	13151.7	12545.9	349.63 µg/L		349.63 ppb	10:52:24
2	Sc RADIAL	110749.1	110749.1	100 %			10:51:19
2	Al 396.153Radial†	45740.9	45753.6	24220 µg/L		24220 ppb	10:51:19
2	Ca 317.933Radial†	15370.3	14861.2	5073.3 µg/L		5073.3 ppb	10:51:19
2	Fe 238.204 Radial†	8374.4	8330.4	57670 µg/L		57670 ppb	10:51:19
2	K 766.490 Radial†	4413.6	4158.8	2470.6 µg/L		2470.6 ppb	10:51:19
2	Mg 279.077 IEC†	294.2	280.4	2711.0 µg/L		2711.0 ppb	10:51:40
2	Na 589.592 Radial†	1985.7	1664.9	513.90 µg/L		513.90 ppb	10:51:19
2	Sr 421.552†	9617.8	9462.0	39.354 µg/L		39.354 ppb	10:51:19
2	Sc 361.383	1664694.2	1664694.2	100.19 %			10:52:52
2	Y 371.029	1011458.8	1011458.8	107.92 %			10:52:52
2	Ag 328.068†	-1242.2	-722.5	0.9130 µg/L		0.9130 ppb	10:52:57
2	As 188.979†	3.9	11.5	25.171 µg/L		25.171 ppb	10:53:18
2	B 249.677†	617.4	449.4	-5.0733 µg/L		-5.0733 ppb	10:52:57
2	Ba 233.527†	8239.8	8234.4	222.82 µg/L		222.82 ppb	10:52:57
2	Be 313.107†	9797.6	11447.2	7.8110 µg/L		7.8110 ppb	10:52:57
2	Cd 226.502†	135.0	275.4	1.8901 µg/L		1.8901 ppb	10:53:18
2	Co 228.616†	204.9	177.6	5.6272 µg/L		5.6272 ppb	10:53:18
2	Cr 267.716†	3884.4	3808.0	101.83 µg/L		101.83 ppb	10:53:18
2	Cu 324.752†	5114.5	2474.4	29.573 µg/L		29.573 ppb	10:52:57
2	Mn 257.610†	802686.2	801752.9	3035.4 µg/L		3035.4 ppb	10:52:52
2	Mo 202.031†	47.7	45.2	7.6493 µg/L		7.6493 ppb	10:53:18
2	Ni 231.604†	1138.4	840.9	62.192 µg/L		62.192 ppb	10:53:18
2	P 214.914†	446.9	204.8	423.06 µg/L		423.06 ppb	10:53:18
2	Pb 220.353†	182.7	147.6	48.555 µg/L		48.555 ppb	10:53:18

2	S 181.975 Axial†	46.2	25.5	105.92 µg/L	105.92 ppb	10:53:18
2	Sb 206.836†	14.1	-5.1	-6.8999 µg/L	-6.8999 ppb	10:53:18
2	Se 196.026†	-24.5	-38.9	137.34 µg/L	137.34 ppb	10:53:18
2	SiO2†	83013.1	81452.4	18633 µg/L	18633 ppb	10:52:57
2	Si 251.611†	101789.1	101213.6	8680.1 µg/L	8680.1 ppb	10:52:57
2	Sn 189.927†	-4.2	-5.2	-6.1486 µg/L	-6.1486 ppb	10:53:18
2	Ti 334.940†	692122.4	690826.5	1943.2 µg/L	1943.2 ppb	10:52:52
2	Tl 190.801†	-45.4	-18.8	13.875 µg/L	13.875 ppb	10:53:18
2	U 409.014†	-2518.0	-2657.5	-284.64 µg/L	-284.64 ppb	10:52:52
2	V 292.402†	2284.3	2424.3	34.324 µg/L	34.324 ppb	10:52:57
2	Zn 213.857†	13192.1	12556.6	349.92 µg/L	349.92 ppb	10:52:57
3	Sc RADIAL	111008.3	111008.3	100 %		10:51:45
3	Al 396.153Radial†	45845.2	45750.9	24219 µg/L	24219 ppb	10:51:45
3	Ca 317.933Radial†	15372.6	14827.6	5061.8 µg/L	5061.8 ppb	10:51:45
3	Fe 238.204 Radial†	8389.2	8325.7	57638 µg/L	57638 ppb	10:51:45
3	K 766.490 Radial†	4195.7	3931.5	2335.6 µg/L	2335.6 ppb	10:51:45
3	Mg 279.077 IEC†	293.6	279.2	2698.7 µg/L	2698.7 ppb	10:52:06
3	Na 589.592 Radial†	2024.7	1699.1	524.45 µg/L	524.45 ppb	10:51:45
3	Sr 421.552†	9676.8	9498.3	39.505 µg/L	39.505 ppb	10:51:45
3	Sc 361.383	1666254.5	1666254.5	100.28 %		10:53:25
3	Y 371.029	1011779.1	1011779.1	107.95 %		10:53:25
3	Ag 328.068†	-1191.6	-670.9	1.3851 µg/L	1.3851 ppb	10:53:30
3	As 188.979†	-0.6	7.1	16.679 µg/L	16.679 ppb	10:53:51
3	B 249.677†	607.1	438.5	-5.6729 µg/L	-5.6729 ppb	10:53:30
3	Ba 233.527†	8017.8	8005.4	216.62 µg/L	216.62 ppb	10:53:30
3	Be 313.107†	9358.8	11000.5	7.4981 µg/L	7.4981 ppb	10:53:30
3	Cd 226.502†	92.4	232.7	0.5962 µg/L	0.5962 ppb	10:53:51
3	Co 228.616†	191.9	164.5	5.0261 µg/L	5.0261 ppb	10:53:51
3	Cr 267.716†	3516.2	3437.2	91.916 µg/L	91.916 ppb	10:53:51
3	Cu 324.752†	5086.8	2442.0	29.322 µg/L	29.322 ppb	10:53:30
3	Mn 257.610†	784069.0	782437.9	2962.4 µg/L	2962.4 ppb	10:53:25
3	Mo 202.031†	41.5	38.9	6.8894 µg/L	6.8894 ppb	10:53:51
3	Ni 231.604†	1060.1	761.9	56.413 µg/L	56.413 ppb	10:53:51
3	P 214.914†	436.9	194.3	399.46 µg/L	399.46 ppb	10:53:51
3	Pb 220.353†	176.3	141.0	46.341 µg/L	46.341 ppb	10:53:51
3	S 181.975 Axial†	41.6	20.9	86.772 µg/L	86.772 ppb	10:53:51
3	Sb 206.836†	15.6	-3.6	-5.1228 µg/L	-5.1228 ppb	10:53:51
3	Se 196.026†	-23.4	-37.7	138.71 µg/L	138.71 ppb	10:53:51
3	SiO2†	81052.7	79420.0	18168 µg/L	18168 ppb	10:53:30
3	Si 251.611†	99545.5	98881.3	8480.1 µg/L	8480.1 ppb	10:53:30
3	Sn 189.927†	-2.1	-3.1	-5.0966 µg/L	-5.0966 ppb	10:53:51
3	Ti 334.940†	673374.5	671484.6	1888.8 µg/L	1888.8 ppb	10:53:25
3	Tl 190.801†	-48.4	-21.7	9.5372 µg/L	9.5372 ppb	10:53:51
3	U 409.014†	-2357.8	-2495.4	-267.79 µg/L	-267.79 ppb	10:53:25
3	V 292.402†	2214.0	2352.1	33.352 µg/L	33.352 ppb	10:53:30
3	Zn 213.857†	12878.5	12231.5	340.80 µg/L	340.80 ppb	10:53:30

Mean Data: 246872008|952953|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1663960.7	100.14 %	0.165			0.16%
Sc RADIAL	110882.8	100 %	0.1			0.12%
Y 371.029	1009208.3	107.68 %	0.446			0.41%
Ag 328.068†	-700.5	1.1084 µg/L	0.24636	1.1084 ppb	0.24636	22.23%
Al 396.153Radial†	45785.3	24237 µg/L	30.2	24237 ppb	30.2	0.12%
As 188.979†	9.2	20.810 µg/L	4.2509	20.810 ppb	4.2509	20.43%
B 249.677†	450.5	-4.9755 µg/L	0.75114	-4.9755 ppb	0.75114	15.10%
Ba 233.527†	8164.1	220.92 µg/L	3.728	220.92 ppb	3.728	1.69%
Be 313.107†	11286.1	7.6973 µg/L	0.17309	7.6973 ppb	0.17309	2.25%
Ca 317.933Radial†	14847.1	5068.4 µg/L	5.94	5068.4 ppb	5.94	0.12%
Cd 226.502†	265.7	1.6032 µg/L	0.89858	1.6032 ppb	0.89858	56.05%
Co 228.616†	170.1	5.2555 µg/L	0.32485	5.2555 ppb	0.32485	6.18%
Cr 267.716†	3682.7	98.481 µg/L	5.6856	98.481 ppb	5.6856	5.77%
Cu 324.752†	2468.9	29.516 µg/L	0.1734	29.516 ppb	0.1734	0.59%
Fe 238.204 Radial†	8319.1	57592 µg/L	109.0	57592 ppb	109.0	0.19%
K 766.490 Radial†	4035.8	2397.6 µg/L	68.21	2397.6 ppb	68.21	2.85%
Mg 279.077 IEC†	280.8	2714.9 µg/L	18.45	2714.9 ppb	18.45	0.68%
Mn 257.610†	795908.1	3013.3 µg/L	44.24	3013.3 ppb	44.24	1.47%
Mo 202.031†	43.7	7.4601 µg/L	0.50359	7.4601 ppb	0.50359	6.75%
Na 589.592 Radial†	1664.4	513.74 µg/L	10.787	513.74 ppb	10.787	2.10%

Ni 231.604†	812.9	60.146 µg/L	3.2380	60.146 ppb	3.2380	5.38%
P 214.914†	200.7	413.82 µg/L	12.603	413.82 ppb	12.603	3.05%
Pb 220.353†	149.0	49.011 µg/L	2.9247	49.011 ppb	2.9247	5.97%
S 181.975 Axial†	23.7	98.454 µg/L	10.2463	98.454 ppb	10.2463	10.41%
Sb 206.836†	-4.7	-6.4889 µg/L	1.21392	-6.4889 ppb	1.21392	18.71%
Se 196.026†	-39.7	135.97 µg/L	3.618	135.97 ppb	3.618	2.66%
SiO2†	80712.5	18464 µg/L	257.0	18464 ppb	257.0	1.39%
Si 251.611†	100413.0	8611.5 µg/L	113.80	8611.5 ppb	113.80	1.32%
Sn 189.927†	-2.5	-4.8139 µg/L	1.49631	-4.8139 ppb	1.49631	31.08%
Sr 421.552†	9478.7	39.423 µg/L	0.0763	39.423 ppb	0.0763	0.19%
Ti 334.940†	684727.2	1926.0 µg/L	32.29	1926.0 ppb	32.29	1.68%
Tl 190.801†	-21.1	10.817 µg/L	2.6602	10.817 ppb	2.6602	24.59%
U 409.014†	-2583.3	-276.92 µg/L	8.517	-276.92 ppb	8.517	3.08%
V 292.402†	2417.7	34.233 µg/L	0.8391	34.233 ppb	0.8391	2.45%
Zn 213.857†	12444.7	346.78 µg/L	5.181	346.78 ppb	5.181	1.49%

Sequence No.: 48
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 2/26/2010 10:54:01
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	111263.5	111263.5	101 %		10:54:37
1	Al 396.153Radial†	9793.8	9806.5	5180.3 µg/L	5180.3 ppb	10:54:37
1	Ca 317.933Radial†	15720.5	15138.4	5167.9 µg/L	5167.9 ppb	10:54:37
1	Fe 238.204 Radial†	749.4	711.6	4937.2 µg/L	4937.2 ppb	10:54:58
1	K 766.490 Radial†	8785.7	8484.9	5040.6 µg/L	5040.6 ppb	10:54:37
1	Mg 279.077 IEC†	524.8	508.3	5030.0 µg/L	5030.0 ppb	10:54:58
1	Na 589.592 Radial†	31232.1	30730.4	9485.4 µg/L	9485.4 ppb	10:54:37
1	Sr 421.552†	115833.7	115009.7	478.34 µg/L	478.34 ppb	10:54:37
1	Sc 361.383	1675956.9	1675956.9	100.87 %		10:56:01
1	Y 371.029	936639.2	936639.2	99.936 %		10:56:01
1	Ag 328.068†	54564.2	54612.9	514.72 µg/L	514.72 ppb	10:56:07
1	As 188.979†	271.4	276.7	530.11 µg/L	530.11 ppb	10:56:28
1	B 249.677†	9413.1	9165.4	505.20 µg/L	505.20 ppb	10:56:07
1	Ba 233.527†	19210.6	19055.7	516.44 µg/L	516.44 ppb	10:56:07
1	Be 313.107†	689470.3	685217.2	511.68 µg/L	511.68 ppb	10:56:01
1	Cd 226.502†	16906.8	16902.2	512.23 µg/L	512.23 ppb	10:56:07
1	Co 228.616†	9700.6	9590.4	522.01 µg/L	522.01 ppb	10:56:07
1	Cr 267.716†	19582.5	19345.2	517.54 µg/L	517.54 ppb	10:56:07
1	Cu 324.752†	71732.3	68485.8	519.36 µg/L	519.36 ppb	10:56:07
1	Mn 257.610†	138966.2	138348.9	523.18 µg/L	523.18 ppb	10:56:01
1	Mo 202.031†	4462.9	4422.2	533.77 µg/L	533.77 ppb	10:56:28
1	Ni 231.604†	7748.6	7386.7	539.25 µg/L	539.25 ppb	10:56:07
1	P 214.914†	1414.4	1160.9	2586.7 µg/L	2586.7 ppb	10:56:28
1	Pb 220.353†	1641.7	1592.8	530.56 µg/L	530.56 ppb	10:56:28
1	S 181.975 Axial†	275.1	252.2	1046.2 µg/L	1046.2 ppb	10:56:28
1	Sb 206.836†	488.4	465.1	530.70 µg/L	530.70 ppb	10:56:28
1	Se 196.026†	421.9	403.9	535.21 µg/L	535.21 ppb	10:56:28
1	SiO2†	25809.3	24183.1	5532.1 µg/L	5532.1 ppb	10:56:07
1	Si 251.611†	30848.6	30199.6	2589.9 µg/L	2589.9 ppb	10:56:07
1	Sn 189.927†	1101.9	1091.4	537.67 µg/L	537.67 ppb	10:56:28
1	Ti 334.940†	185758.3	184168.6	517.76 µg/L	517.76 ppb	10:56:01
1	Tl 190.801†	400.7	423.8	522.38 µg/L	522.38 ppb	10:56:28
1	U 409.014†	5143.9	4955.5	514.26 µg/L	514.26 ppb	10:56:07
1	V 292.402†	38980.3	38789.8	521.52 µg/L	521.52 ppb	10:56:07
1	Zn 213.857†	19389.0	18611.7	519.66 µg/L	519.66 ppb	10:56:07
2	Sc RADIAL	110982.6	110982.6	100 %		10:55:03
2	Al 396.153Radial†	9775.4	9812.8	5183.7 µg/L	5183.7 ppb	10:55:03
2	Ca 317.933Radial†	15603.2	15061.0	5141.5 µg/L	5141.5 ppb	10:55:03
2	Fe 238.204 Radial†	749.6	713.7	4951.8 µg/L	4951.8 ppb	10:55:24
2	K 766.490 Radial†	8760.3	8481.6	5038.7 µg/L	5038.7 ppb	10:55:03
2	Mg 279.077 IEC†	529.3	514.1	5087.0 µg/L	5087.0 ppb	10:55:24
2	Na 589.592 Radial†	31107.9	30685.1	9471.5 µg/L	9471.5 ppb	10:55:03
2	Sr 421.552†	115227.2	114696.7	477.04 µg/L	477.04 ppb	10:55:03
2	Sc 361.383	1674865.7	1674865.7	100.80 %		10:56:35
2	Y 371.029	938546.2	938546.2	100.14 %		10:56:35
2	Ag 328.068†	54673.0	54756.1	516.07 µg/L	516.07 ppb	10:56:40
2	As 188.979†	272.1	277.6	531.86 µg/L	531.86 ppb	10:57:01
2	B 249.677†	9444.9	9203.0	507.28 µg/L	507.28 ppb	10:56:40
2	Ba 233.527†	19236.1	19093.4	517.46 µg/L	517.46 ppb	10:56:40
2	Be 313.107†	686455.0	682671.1	509.78 µg/L	509.78 ppb	10:56:35
2	Cd 226.502†	17041.9	17047.1	516.62 µg/L	516.62 ppb	10:56:40
2	Co 228.616†	9678.0	9574.3	521.13 µg/L	521.13 ppb	10:56:40
2	Cr 267.716†	19612.3	19387.4	518.67 µg/L	518.67 ppb	10:56:40
2	Cu 324.752†	71693.8	68494.0	519.42 µg/L	519.42 ppb	10:56:40
2	Mn 257.610†	138590.9	138066.3	522.11 µg/L	522.11 ppb	10:56:35
2	Mo 202.031†	4443.3	4405.7	531.78 µg/L	531.78 ppb	10:57:01
2	Ni 231.604†	7716.3	7359.7	537.27 µg/L	537.27 ppb	10:56:40
2	P 214.914†	1407.5	1155.0	2573.1 µg/L	2573.1 ppb	10:57:01
2	Pb 220.353†	1644.9	1597.1	531.98 µg/L	531.98 ppb	10:57:01

2	S 181.975 Axial†	284.1	261.2	1083.9 µg/L	1083.9 ppb	10:57:01
2	Sb 206.836†	479.7	456.7	521.16 µg/L	521.16 ppb	10:57:01
2	Se 196.026†	424.7	406.9	539.12 µg/L	539.12 ppb	10:57:01
2	SiO2†	25953.9	24343.2	5568.8 µg/L	5568.8 ppb	10:56:40
2	Si 251.611†	30938.0	30308.2	2599.2 µg/L	2599.2 ppb	10:56:40
2	Sn 189.927†	1092.5	1082.8	533.47 µg/L	533.47 ppb	10:57:01
2	Ti 334.940†	184798.2	183336.1	515.41 µg/L	515.41 ppb	10:56:35
2	Tl 190.801†	402.9	426.2	525.32 µg/L	525.32 ppb	10:57:01
2	U 409.014†	5101.3	4916.6	510.21 µg/L	510.21 ppb	10:56:40
2	V 292.402†	39037.4	38871.6	522.60 µg/L	522.60 ppb	10:56:40
2	Zn 213.857†	19412.4	18647.4	520.67 µg/L	520.67 ppb	10:56:40
3	Sc RADIAL	111162.9	111162.9	100 %		10:55:29
3	Al 396.153Radial†	9711.5	9733.3	5143.1 µg/L	5143.1 ppb	10:55:29
3	Ca 317.933Radial†	15638.3	15070.7	5144.8 µg/L	5144.8 ppb	10:55:29
3	Fe 238.204 Radial†	740.2	703.1	4877.9 µg/L	4877.9 ppb	10:55:50
3	K 766.490 Radial†	8824.8	8531.7	5068.4 µg/L	5068.4 ppb	10:55:29
3	Mg 279.077 IEC†	517.9	501.9	4965.3 µg/L	4965.3 ppb	10:55:50
3	Na 589.592 Radial†	31002.5	30530.0	9423.6 µg/L	9423.6 ppb	10:55:29
3	Sr 421.552†	115113.7	114397.5	475.80 µg/L	475.80 ppb	10:55:29
3	Sc 361.383	1674527.7	1674527.7	100.78 %		10:57:08
3	Y 371.029	942788.5	942788.5	100.59 %		10:57:08
3	Ag 328.068†	52128.9	52242.7	492.30 µg/L	492.30 ppb	10:57:14
3	As 188.979†	236.5	242.3	464.23 µg/L	464.23 ppb	10:57:34
3	B 249.677†	9013.9	8777.2	483.69 µg/L	483.69 ppb	10:57:14
3	Ba 233.527†	18055.4	17925.8	485.80 µg/L	485.80 ppb	10:57:14
3	Be 313.107†	657767.8	654343.5	488.63 µg/L	488.63 ppb	10:57:08
3	Cd 226.502†	15821.0	15839.1	479.98 µg/L	479.98 ppb	10:57:14
3	Co 228.616†	8963.1	8866.8	482.56 µg/L	482.56 ppb	10:57:14
3	Cr 267.716†	17836.9	17629.7	471.65 µg/L	471.65 ppb	10:57:14
3	Cu 324.752†	66831.5	63683.7	482.99 µg/L	482.99 ppb	10:57:14
3	Mn 257.610†	132999.7	132546.1	501.24 µg/L	501.24 ppb	10:57:08
3	Mo 202.031†	3822.7	3790.7	457.57 µg/L	457.57 ppb	10:57:34
3	Ni 231.604†	7207.3	6856.2	500.53 µg/L	500.53 ppb	10:57:14
3	P 214.914†	1267.5	1016.4	2261.1 µg/L	2261.1 ppb	10:57:34
3	Pb 220.353†	1460.8	1414.7	471.13 µg/L	471.13 ppb	10:57:34
3	S 181.975 Axial†	250.6	228.1	946.21 µg/L	946.21 ppb	10:57:34
3	Sb 206.836†	422.5	400.0	456.17 µg/L	456.17 ppb	10:57:34
3	Se 196.026†	383.8	366.5	486.63 µg/L	486.63 ppb	10:57:34
3	SiO2†	24596.0	23001.0	5261.7 µg/L	5261.7 ppb	10:57:14
3	Si 251.611†	29293.2	28682.4	2459.8 µg/L	2459.8 ppb	10:57:14
3	Sn 189.927†	923.5	915.3	450.98 µg/L	450.98 ppb	10:57:34
3	Ti 334.940†	176641.3	175279.4	492.76 µg/L	492.76 ppb	10:57:08
3	Tl 190.801†	365.9	389.5	480.36 µg/L	480.36 ppb	10:57:34
3	U 409.014†	4685.1	4504.5	467.38 µg/L	467.38 ppb	10:57:14
3	V 292.402†	36061.3	35926.4	482.73 µg/L	482.73 ppb	10:57:14
3	Zn 213.857†	18032.7	17282.3	482.51 µg/L	482.51 ppb	10:57:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1675116.8	100.82 %	0.045			0.04%
Sc RADIAL	111136.3	100 %	0.1			0.13%
Y 371.029	939324.6	100.22 %	0.336			0.34%
Ag 328.068†	53870.5	507.69 µg/L	13.352	507.69 ppb	13.352	2.63%
QC value within limits for Ag 328.068 Recovery = 101.54%						
Al 396.153Radial†	9784.2	5169.0 µg/L	22.50	5169.0 ppb	22.50	0.44%
QC value within limits for Al 396.153Radial Recovery = 103.38%						
As 188.979†	265.6	508.73 µg/L	38.552	508.73 ppb	38.552	7.58%
QC value within limits for As 188.979 Recovery = 101.75%						
B 249.677†	9048.5	498.73 µg/L	13.060	498.73 ppb	13.060	2.62%
QC value within limits for B 249.677 Recovery = 99.75%						
Ba 233.527†	18691.6	506.56 µg/L	17.990	506.56 ppb	17.990	3.55%
QC value within limits for Ba 233.527 Recovery = 101.31%						
Be 313.107†	674077.3	503.37 µg/L	12.797	503.37 ppb	12.797	2.54%
QC value within limits for Be 313.107 Recovery = 100.67%						
Ca 317.933Radial†	15090.0	5151.4 µg/L	14.38	5151.4 ppb	14.38	0.28%
QC value within limits for Ca 317.933Radial Recovery = 103.03%						
Cd 226.502†	16596.2	502.95 µg/L	20.008	502.95 ppb	20.008	3.98%
QC value within limits for Cd 226.502 Recovery = 100.59%						
Co 228.616†	9343.8	508.57 µg/L	22.527	508.57 ppb	22.527	4.43%

QC value within limits for Co 228.616 Recovery = 101.71%					
Cr 267.716†	18787.4	502.62 µg/L	26.827	502.62 ppb	26.827 5.34%
QC value within limits for Cr 267.716 Recovery = 100.52%					
Cu 324.752†	66887.8	507.26 µg/L	21.013	507.26 ppb	21.013 4.14%
QC value within limits for Cu 324.752 Recovery = 101.45%					
Fe 238.204 Radial†	709.5	4922.3 µg/L	39.15	4922.3 ppb	39.15 0.80%
QC value within limits for Fe 238.204 Radial Recovery = 98.45%					
K 766.490 Radial†	8499.4	5049.2 µg/L	16.64	5049.2 ppb	16.64 0.33%
QC value within limits for K 766.490 Radial Recovery = 100.98%					
Mg 279.077 IEC†	508.1	5027.4 µg/L	60.87	5027.4 ppb	60.87 1.21%
QC value within limits for Mg 279.077 IEC Recovery = 100.55%					
Mn 257.610†	136320.5	515.51 µg/L	12.372	515.51 ppb	12.372 2.40%
QC value within limits for Mn 257.610 Recovery = 103.10%					
Mo 202.031†	4206.2	507.71 µg/L	43.430	507.71 ppb	43.430 8.55%
QC value within limits for Mo 202.031 Recovery = 101.54%					
Na 589.592 Radial†	30648.5	9460.2 µg/L	32.44	9460.2 ppb	32.44 0.34%
QC value within limits for Na 589.592 Radial Recovery = 94.60%					
Ni 231.604†	7200.9	525.68 µg/L	21.808	525.68 ppb	21.808 4.15%
QC value within limits for Ni 231.604 Recovery = 105.14%					
P 214.914†	1110.8	2473.6 µg/L	184.15	2473.6 ppb	184.15 7.44%
QC value within limits for P 214.914 Recovery = 98.95%					
Pb 220.353†	1534.8	511.22 µg/L	34.726	511.22 ppb	34.726 6.79%
QC value within limits for Pb 220.353 Recovery = 102.24%					
S 181.975 Axial†	247.2	1025.5 µg/L	71.17	1025.5 ppb	71.17 6.94%
QC value within limits for S 181.975 Axial Recovery = 102.55%					
Sb 206.836†	440.6	502.68 µg/L	40.559	502.68 ppb	40.559 8.07%
QC value within limits for Sb 206.836 Recovery = 100.54%					
Se 196.026†	392.4	520.32 µg/L	29.242	520.32 ppb	29.242 5.62%
QC value within limits for Se 196.026 Recovery = 104.06%					
SiO2†	23842.5	5454.2 µg/L	167.70	5454.2 ppb	167.70 3.07%
QC value within limits for SiO2 Recovery = 102.00%					
Si 251.611†	29730.1	2549.7 µg/L	77.95	2549.7 ppb	77.95 3.06%
QC value within limits for Si 251.611 Recovery = 101.99%					
Sn 189.927†	1029.8	507.37 µg/L	48.880	507.37 ppb	48.880 9.63%
QC value within limits for Sn 189.927 Recovery = 101.47%					
Sr 421.552†	114701.3	477.06 µg/L	1.273	477.06 ppb	1.273 0.27%
QC value within limits for Sr 421.552 Recovery = 95.41%					
Ti 334.940†	180928.1	508.64 µg/L	13.807	508.64 ppb	13.807 2.71%
QC value within limits for Ti 334.940 Recovery = 101.73%					
Tl 190.801†	413.2	509.35 µg/L	25.148	509.35 ppb	25.148 4.94%
QC value within limits for Tl 190.801 Recovery = 101.87%					
U 409.014†	4792.2	497.29 µg/L	25.978	497.29 ppb	25.978 5.22%
QC value within limits for U 409.014 Recovery = 99.46%					
V 292.402†	37862.6	508.95 µg/L	22.715	508.95 ppb	22.715 4.46%
QC value within limits for V 292.402 Recovery = 101.79%					
Zn 213.857†	18180.5	507.61 µg/L	21.745	507.61 ppb	21.745 4.28%
QC value within limits for Zn 213.857 Recovery = 101.52%					

All analyte(s) passed QC.

Sequence No.: 49

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 10:57:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	109973.6	109973.6	99.4 %		10:58:16
1	Al 396.153Radial†	-166.7	-97.6	-51.674 µg/L	-51.674 ppb	10:58:16
1	Ca 317.933Radial†	381.8	-105.8	-36.109 µg/L	-36.109 ppb	10:58:36
1	Fe 238.204 Radial†	29.7	-3.5	-24.412 µg/L	-24.412 ppb	10:58:36
1	K 766.490 Radial†	173.1	-75.1	-44.636 µg/L	-44.636 ppb	10:58:16
1	Mg 279.077 IEC†	8.3	-5.0	-49.446 µg/L	-49.446 ppb	10:58:36
1	Na 589.592 Radial†	291.6	-25.1	-7.7377 µg/L	-7.7377 ppb	10:58:16
1	Sr 421.552†	164.6	21.8	0.0905 µg/L	0.0905 ppb	10:58:16
1	Sc 361.383	1684842.7	1684842.7	101.40 %		10:59:39
1	Y 371.029	951182.6	951182.6	101.49 %		10:59:39
1	Ag 328.068†	-579.9	-54.6	-0.5144 µg/L	-0.5144 ppb	10:59:44
1	As 188.979†	-2.6	5.1	9.8061 µg/L	9.8061 ppb	11:00:05
1	B 249.677†	159.7	-9.4	-0.5070 µg/L	-0.5070 ppb	11:00:05
1	Ba 233.527†	-10.6	-0.4	-0.0105 µg/L	-0.0105 ppb	11:00:05
1	Be 313.107†	-1718.7	-26.9	-0.0202 µg/L	-0.0202 ppb	10:59:44
1	Cd 226.502†	-141.0	1.5	0.0495 µg/L	0.0495 ppb	11:00:05
1	Co 228.616†	23.5	-3.7	-0.2011 µg/L	-0.2011 ppb	11:00:05
1	Cr 267.716†	65.8	-4.3	-0.1142 µg/L	-0.1142 ppb	11:00:05
1	Cu 324.752†	2641.5	-25.5	-0.1974 µg/L	-0.1974 ppb	10:59:44
1	Mn 257.610†	-538.2	45.4	0.1734 µg/L	0.1734 ppb	11:00:05
1	Mo 202.031†	15.1	12.4	1.5009 µg/L	1.5009 ppb	11:00:05
1	Ni 231.604†	301.2	1.7	0.1240 µg/L	0.1240 ppb	11:00:05
1	P 214.914†	235.3	-9.3	-20.987 µg/L	-20.987 ppb	11:00:05
1	Pb 220.353†	32.1	-3.1	-1.0497 µg/L	-1.0497 ppb	11:00:05
1	S 181.975 Axial†	20.2	-0.6	-2.5919 µg/L	-2.5919 ppb	11:00:05
1	Sb 206.836†	22.8	3.3	3.8066 µg/L	3.8066 ppb	11:00:05
1	Se 196.026†	12.6	-1.9	-2.5554 µg/L	-2.5554 ppb	11:00:05
1	SiO2†	1418.2	-5.9	-1.3528 µg/L	-1.3528 ppb	10:59:44
1	Si 251.611†	434.0	43.9	3.7681 µg/L	3.7681 ppb	11:00:05
1	Sn 189.927†	2.0	0.9	0.4384 µg/L	0.4384 ppb	11:00:05
1	Ti 334.940†	127.4	131.3	0.3727 µg/L	0.3727 ppb	10:59:44
1	Tl 190.801†	-22.3	4.5	5.5055 µg/L	5.5055 ppb	11:00:05
1	U 409.014†	258.8	111.0	11.546 µg/L	11.546 ppb	10:59:44
1	V 292.402†	-154.2	-7.7	-0.0799 µg/L	-0.0799 ppb	10:59:44
1	Zn 213.857†	560.4	-58.1	-1.6298 µg/L	-1.6298 ppb	11:00:05
2	Sc RADIAL	108285.1	108285.1	97.9 %		10:58:42
2	Al 396.153Radial†	-165.5	-98.9	-52.370 µg/L	-52.370 ppb	10:58:42
2	Ca 317.933Radial†	387.1	-94.4	-32.234 µg/L	-32.234 ppb	10:59:02
2	Fe 238.204 Radial†	32.0	-0.8	-5.3275 µg/L	-5.3275 ppb	10:59:02
2	K 766.490 Radial†	188.4	-56.8	-33.749 µg/L	-33.749 ppb	10:58:42
2	Mg 279.077 IEC†	9.6	-3.6	-35.766 µg/L	-35.766 ppb	10:59:02
2	Na 589.592 Radial†	224.8	-88.7	-27.372 µg/L	-27.372 ppb	10:58:42
2	Sr 421.552†	141.8	1.0	0.0043 µg/L	0.0043 ppb	10:58:42
2	Sc 361.383	1678894.9	1678894.9	101.04 %		11:00:11
2	Y 371.029	946001.9	946001.9	100.93 %		11:00:11
2	Ag 328.068†	-487.2	35.1	0.3263 µg/L	0.3263 ppb	11:00:16
2	As 188.979†	-7.6	0.1	0.2155 µg/L	0.2155 ppb	11:00:37
2	B 249.677†	172.4	3.7	0.2079 µg/L	0.2079 ppb	11:00:37
2	Ba 233.527†	-11.1	-0.9	-0.0245 µg/L	-0.0245 ppb	11:00:37
2	Be 313.107†	-1685.5	-0.1	-0.0002 µg/L	-0.0002 ppb	11:00:16
2	Cd 226.502†	-138.6	3.5	0.1052 µg/L	0.1052 ppb	11:00:37
2	Co 228.616†	29.1	1.9	0.1031 µg/L	0.1031 ppb	11:00:37
2	Cr 267.716†	59.2	-10.6	-0.2824 µg/L	-0.2824 ppb	11:00:37
2	Cu 324.752†	2626.6	-31.0	-0.2355 µg/L	-0.2355 ppb	11:00:16
2	Mn 257.610†	-516.6	64.9	0.2474 µg/L	0.2474 ppb	11:00:37
2	Mo 202.031†	16.4	13.9	1.6711 µg/L	1.6711 ppb	11:00:37
2	Ni 231.604†	288.7	-9.5	-0.6968 µg/L	-0.6968 ppb	11:00:37
2	P 214.914†	237.6	-6.2	-14.024 µg/L	-14.024 ppb	11:00:37
2	Pb 220.353†	30.6	-4.5	-1.5156 µg/L	-1.5156 ppb	11:00:37

2	S 181.975 Axial†	19.8	-1.0	-4.0530 µg/L	-4.0530 ppb	11:00:37
2	Sb 206.836†	22.0	2.6	3.0138 µg/L	3.0138 ppb	11:00:37
2	Se 196.026†	13.7	-0.8	-1.0466 µg/L	-1.0466 ppb	11:00:37
2	SiO2†	1421.4	2.2	0.5027 µg/L	0.5027 ppb	11:00:16
2	Si 251.611†	453.2	64.5	5.5317 µg/L	5.5317 ppb	11:00:37
2	Sn 189.927†	-1.0	-2.1	-1.0161 µg/L	-1.0161 ppb	11:00:37
2	Ti 334.940†	99.3	103.9	0.2945 µg/L	0.2945 ppb	11:00:16
2	Tl 190.801†	-31.6	-4.8	-5.8331 µg/L	-5.8331 ppb	11:00:37
2	U 409.014†	188.9	42.7	4.4443 µg/L	4.4443 ppb	11:00:16
2	V 292.402†	-158.2	-12.2	-0.1456 µg/L	-0.1456 ppb	11:00:16
2	Zn 213.857†	565.7	-50.9	-1.4262 µg/L	-1.4262 ppb	11:00:37
3	Sc RADIAL	108954.8	108954.8	98.5 %		10:59:08
3	Al 396.153Radial†	-169.3	-101.8	-53.887 µg/L	-53.887 ppb	10:59:08
3	Ca 317.933Radial†	388.2	-95.8	-32.687 µg/L	-32.687 ppb	10:59:28
3	Fe 238.204 Radial†	30.1	-2.9	-19.871 µg/L	-19.871 ppb	10:59:28
3	K 766.490 Radial†	227.2	-18.5	-11.004 µg/L	-11.004 ppb	10:59:08
3	Mg 279.077 IEC†	6.7	-6.6	-65.359 µg/L	-65.359 ppb	10:59:28
3	Na 589.592 Radial†	274.6	-39.6	-12.224 µg/L	-12.224 ppb	10:59:08
3	Sr 421.552†	162.4	21.1	0.0877 µg/L	0.0877 ppb	10:59:08
3	Sc 361.383	1670962.3	1670962.3	100.57 %		11:00:43
3	Y 371.029	940195.9	940195.9	100.32 %		11:00:43
3	Ag 328.068†	-499.0	21.1	0.1977 µg/L	0.1977 ppb	11:00:48
3	As 188.979†	-6.3	1.4	2.6931 µg/L	2.6931 ppb	11:01:09
3	B 249.677†	177.1	9.3	0.5230 µg/L	0.5230 ppb	11:01:09
3	Ba 233.527†	-6.0	4.1	0.1124 µg/L	0.1124 ppb	11:01:09
3	Be 313.107†	-1529.3	147.4	0.1099 µg/L	0.1099 ppb	11:00:48
3	Cd 226.502†	-129.2	12.2	0.3712 µg/L	0.3712 ppb	11:01:09
3	Co 228.616†	25.6	-1.5	-0.0808 µg/L	-0.0808 ppb	11:01:09
3	Cr 267.716†	83.7	14.1	0.3764 µg/L	0.3764 ppb	11:01:09
3	Cu 324.752†	2670.3	24.8	0.1844 µg/L	0.1844 ppb	11:00:48
3	Mn 257.610†	-510.1	68.9	0.2638 µg/L	0.2638 ppb	11:01:09
3	Mo 202.031†	10.4	7.9	0.9584 µg/L	0.9584 ppb	11:01:09
3	Ni 231.604†	304.4	7.4	0.5417 µg/L	0.5417 ppb	11:01:09
3	P 214.914†	241.4	-1.3	-2.9448 µg/L	-2.9448 ppb	11:01:09
3	Pb 220.353†	28.0	-7.0	-2.3159 µg/L	-2.3159 ppb	11:01:09
3	S 181.975 Axial†	18.5	-2.2	-8.9422 µg/L	-8.9422 ppb	11:01:09
3	Sb 206.836†	25.2	5.9	6.6786 µg/L	6.6786 ppb	11:01:09
3	Se 196.026†	15.3	0.9	1.1037 µg/L	1.1037 ppb	11:01:09
3	SiO2†	1442.9	30.3	6.9209 µg/L	6.9209 ppb	11:00:48
3	Si 251.611†	462.5	75.8	6.5045 µg/L	6.5045 ppb	11:01:09
3	Sn 189.927†	3.3	2.2	1.0965 µg/L	1.0965 ppb	11:01:09
3	Ti 334.940†	148.9	153.6	0.4368 µg/L	0.4368 ppb	11:00:48
3	Tl 190.801†	-23.7	2.9	3.5529 µg/L	3.5529 ppb	11:01:09
3	U 409.014†	140.7	-4.3	-0.4473 µg/L	-0.4473 ppb	11:00:48
3	V 292.402†	-110.2	34.8	0.4691 µg/L	0.4691 ppb	11:00:48
3	Zn 213.857†	568.4	-45.6	-1.2795 µg/L	-1.2795 ppb	11:01:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1678233.3	101.00 %	0.419			0.41%
Sc RADIAL	109071.2	98.6 %	0.77			0.78%
Y 371.029	945793.5	100.91 %	0.586			0.58%
Ag 328.068†	0.5	0.0032 µg/L	0.45282	0.0032 ppb	0.45282	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-99.4	-52.644 µg/L	1.1319	-52.644 ppb	1.1319	2.15%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.2	4.2382 µg/L	4.97849	4.2382 ppb	4.97849	117.47%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1.2	0.0746 µg/L	0.52774	0.0746 ppb	0.52774	707.17%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.9	0.0258 µg/L	0.07533	0.0258 ppb	0.07533	291.83%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	40.1	0.0298 µg/L	0.07007	0.0298 ppb	0.07007	234.88%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-98.7	-33.677 µg/L	2.1184	-33.677 ppb	2.1184	6.29%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.7	0.1753 µg/L	0.17194	0.1753 ppb	0.17194	98.08%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.1	-0.0596 µg/L	0.15321	-0.0596 ppb	0.15321	257.08%

Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
		-0.3	-0.0067 µg/L	0.34231	-0.0067 ppb	0.34231 >999.9%
		QC value within limits for Cr 267.716	Recovery = Not calculated			
Cu	324.752†	-10.5	-0.0828 µg/L	0.23219	-0.0828 ppb	0.23219 280.26%
		QC value within limits for Cu 324.752	Recovery = Not calculated			
Fe	238.204 Radial†	-2.4	-16.537 µg/L	9.9696	-16.537 ppb	9.9696 60.29%
		QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
K	766.490 Radial†	-50.2	-29.797 µg/L	17.1610	-29.797 ppb	17.1610 57.59%
		QC value within limits for K 766.490 Radial	Recovery = Not calculated			
Mg	279.077 IEC†	-5.1	-50.190 µg/L	14.8104	-50.190 ppb	14.8104 29.51%
		QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
Mn	257.610†	59.7	0.2282 µg/L	0.04816	0.2282 ppb	0.04816 21.10%
		QC value within limits for Mn 257.610	Recovery = Not calculated			
Mo	202.031†	11.4	1.3768 µg/L	0.37221	1.3768 ppb	0.37221 27.03%
		QC value within limits for Mo 202.031	Recovery = Not calculated			
Na	589.592 Radial†	-51.1	-15.778 µg/L	10.2884	-15.778 ppb	10.2884 65.21%
		QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
Ni	231.604†	-0.1	-0.0104 µg/L	0.63008	-0.0104 ppb	0.63008 >999.9%
		QC value within limits for Ni 231.604	Recovery = Not calculated			
P	214.914†	-5.6	-12.652 µg/L	9.0990	-12.652 ppb	9.0990 71.92%
		QC value within limits for P 214.914	Recovery = Not calculated			
Pb	220.353†	-4.9	-1.6271 µg/L	0.64039	-1.6271 ppb	0.64039 39.36%
		QC value within limits for Pb 220.353	Recovery = Not calculated			
S	181.975 Axial†	-1.3	-5.1957 µg/L	3.32580	-5.1957 ppb	3.32580 64.01%
		QC value within limits for S 181.975 Axial	Recovery = Not calculated			
Sb	206.836†	3.9	4.4997 µg/L	1.92819	4.4997 ppb	1.92819 42.85%
		QC value within limits for Sb 206.836	Recovery = Not calculated			
Se	196.026†	-0.6	-0.8327 µg/L	1.83891	-0.8327 ppb	1.83891 220.83%
		QC value within limits for Se 196.026	Recovery = Not calculated			
SiO2†		8.8	2.0236 µg/L	4.34146	2.0236 ppb	4.34146 214.54%
		QC value within limits for SiO2	Recovery = Not calculated			
Si	251.611†	61.4	5.2681 µg/L	1.38714	5.2681 ppb	1.38714 26.33%
		QC value within limits for Si 251.611	Recovery = Not calculated			
Sn	189.927†	0.4	0.1729 µg/L	1.08105	0.1729 ppb	1.08105 625.23%
		QC value within limits for Sn 189.927	Recovery = Not calculated			
Sr	421.552†	14.6	0.0608 µg/L	0.04898	0.0608 ppb	0.04898 80.50%
		QC value within limits for Sr 421.552	Recovery = Not calculated			
Ti	334.940†	129.6	0.3680 µg/L	0.07130	0.3680 ppb	0.07130 19.38%
		QC value within limits for Ti 334.940	Recovery = Not calculated			
Tl	190.801†	0.9	1.0751 µg/L	6.06182	1.0751 ppb	6.06182 563.84%
		QC value within limits for Tl 190.801	Recovery = Not calculated			
U	409.014†	49.8	5.1809 µg/L	6.03032	5.1809 ppb	6.03032 116.40%
		QC value within limits for U 409.014	Recovery = Not calculated			
V	292.402†	5.0	0.0812 µg/L	0.33755	0.0812 ppb	0.33755 415.79%
		QC value within limits for V 292.402	Recovery = Not calculated			
Zn	213.857†	-51.5	-1.4451 µg/L	0.17590	-1.4451 ppb	0.17590 12.17%
		QC value within limits for Zn 213.857	Recovery = Not calculated			

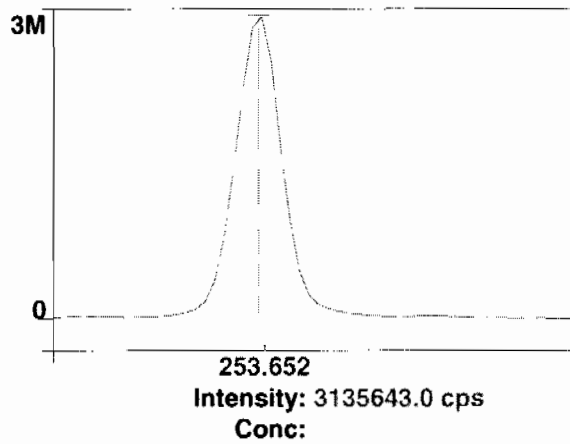
All analyte(s) passed QC.

Method: Hg_ReAlign
Result: 031110

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

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Analysis Begun

Start Time: 3/4/2010 15:07:28

Plasma On Time: 3/1/2010 06:57:40

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\030410.sif

Batch ID:

Results Data Set: 030410

Results Library: C:\pe\Optima3\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/4/2010 15:07:28

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4785.5	4785.5	101 %	15:09:21
1	Y RADIAL	5067.3	5067.3	100.5 %	15:09:21
1	Al 396.153Radial†	-81.7	-81.0	[0.00] ug/L	15:09:41
1	Ca 317.933Radial†	19.4	19.3	[0.00] ug/L	15:09:41
1	Fe 238.204 Radial†	8.2	8.2	[0.00] ug/L	15:09:41
1	K 766.490 Radial†	2382.3	2363.6	[0.00] ug/L	15:09:21
1	Mg 279.077 IEC†	1.9	1.9	[0.00] ug/L	15:09:41
1	Na 589.592 Radial†	-732.2	-726.4	[0.00] ug/L	15:09:21
1	Sr 421.552†	18.4	18.3	[0.00] ug/L	15:09:21
1	Sc 361.383	794914.9	794914.9	100.52 %	15:10:37
1	Y 371.029	710822.7	710822.7	100.54 %	15:10:37
1	Ag 328.068†	183.0	182.1	[0.00] ug/L	15:10:37
1	As 188.979†	-31.2	-31.1	[0.00] ug/L	15:10:57
1	B 249.677†	-215.6	-214.5	[0.00] ug/L	15:10:57
1	Ba 233.527†	-5.4	-5.4	[0.00] ug/L	15:10:57
1	Be 313.107†	-9356.1	-9307.8	[0.00] ug/L	15:10:37
1	Cd 226.502†	-184.6	-183.7	[0.00] ug/L	15:10:57
1	Co 228.616†	-64.0	-63.7	[0.00] ug/L	15:10:57
1	Cr 267.716†	48.4	48.1	[0.00] ug/L	15:10:57
1	Cu 324.752†	7759.8	7719.7	[0.00] ug/L	15:10:37
1	Mn 257.610†	442.5	440.2	[0.00] ug/L	15:10:57
1	Mo 202.031†	15.0	14.9	[0.00] ug/L	15:10:57
1	Ni 231.604†	78.5	78.1	[0.00] ug/L	15:10:57
1	P 214.914†	194.1	193.1	[0.00] ug/L	15:10:57
1	Pb 220.353†	-64.5	-64.1	[0.00] ug/L	15:10:57
1	S 181.975 Axial†	41.6	41.4	[0.00] ug/L	15:10:57
1	Sb 206.836†	37.4	37.2	[0.00] ug/L	15:10:57
1	Se 196.026†	-18.7	-18.6	[0.00] ug/L	15:10:57
1	Si 251.611†	543.4	540.6	[0.00] ug/L	15:10:57
1	Sn 189.927†	17.2	17.2	[0.00] ug/L	15:10:57
1	Ti 334.940†	-1320.5	-1313.7	[0.00] ug/L	15:10:37
1	Tl 190.801†	-35.6	-35.5	[0.00] ug/L	15:10:57
1	U 409.014†	-2310.3	-2298.4	[0.00] ug/L	15:10:37
1	V 292.402†	-1642.6	-1634.2	[0.00] ug/L	15:10:37
1	Zn 213.857†	795.0	790.9	[0.00] ug/L	15:10:57
1	SiO2†	554.2	551.4	[0.00] ug/L	15:11:53
2	Sc Radial	4727.6	4727.6	99.6 %	15:09:46
2	Y RADIAL	5028.3	5028.3	99.77 %	15:09:46
2	Al 396.153Radial†	-82.3	-82.7	[0.00] ug/L	15:10:06
2	Ca 317.933Radial†	17.6	17.6	[0.00] ug/L	15:10:06
2	Fe 238.204 Radial†	7.6	7.6	[0.00] ug/L	15:10:06
2	K 766.490 Radial†	2318.0	2328.0	[0.00] ug/L	15:09:46
2	Mg 279.077 IEC†	2.0	2.0	[0.00] ug/L	15:10:06
2	Na 589.592 Radial†	-708.6	-711.6	[0.00] ug/L	15:09:46
2	Sr 421.552†	35.0	35.2	[0.00] ug/L	15:09:46
2	Sc 361.383	784944.9	784944.9	99.258 %	15:11:03
2	Y 371.029	701682.2	701682.2	99.249 %	15:11:03

2	Ag 328.068†	200.2	201.7	[0.00]	ug/L	15:11:03
2	As 188.979†	-22.4	-22.6	[0.00]	ug/L	15:11:23
2	B 249.677†	-221.5	-223.2	[0.00]	ug/L	15:11:23
2	Ba 233.527†	6.4	6.5	[0.00]	ug/L	15:11:23
2	Be 313.107†	-9321.1	-9390.8	[0.00]	ug/L	15:11:03
2	Cd 226.502†	-183.9	-185.3	[0.00]	ug/L	15:11:23
2	Co 228.616†	-67.6	-68.1	[0.00]	ug/L	15:11:23
2	Cr 267.716†	61.7	62.1	[0.00]	ug/L	15:11:23
2	Cu 324.752†	7613.4	7670.3	[0.00]	ug/L	15:11:03
2	Mn 257.610†	436.0	439.3	[0.00]	ug/L	15:11:23
2	Mo 202.031†	9.8	9.8	[0.00]	ug/L	15:11:23
2	Ni 231.604†	73.7	74.3	[0.00]	ug/L	15:11:23
2	P 214.914†	203.2	204.7	[0.00]	ug/L	15:11:23
2	Pb 220.353†	-54.0	-54.4	[0.00]	ug/L	15:11:23
2	S 181.975 Axial†	37.7	38.0	[0.00]	ug/L	15:11:23
2	Sb 206.836†	28.8	29.0	[0.00]	ug/L	15:11:23
2	Se 196.026†	-25.6	-25.8	[0.00]	ug/L	15:11:23
2	Si 251.611†	556.0	560.1	[0.00]	ug/L	15:11:23
2	Sn 189.927†	17.0	17.1	[0.00]	ug/L	15:11:23
2	Ti 334.940†	-1376.0	-1386.3	[0.00]	ug/L	15:11:03
2	Tl 190.801†	-26.8	-27.0	[0.00]	ug/L	15:11:23
2	U 409.014†	-2344.5	-2362.0	[0.00]	ug/L	15:11:03
2	V 292.402†	-1705.0	-1717.8	[0.00]	ug/L	15:11:03
2	Zn 213.857†	796.3	802.3	[0.00]	ug/L	15:11:23
2	SiO2†	561.8	566.0	[0.00]	ug/L	15:11:59
3	Sc Radial	4730.6	4730.6	99.6	%	15:10:11
3	Y RADIAL	5024.9	5024.9	99.70	%	15:10:11
3	Al 396.153Radial†	-83.4	-83.7	[0.00]	ug/L	15:10:31
3	Ca 317.933Radial†	17.8	17.9	[0.00]	ug/L	15:10:31
3	Fe 238.204 Radial†	6.0	6.0	[0.00]	ug/L	15:10:31
3	K 766.490 Radial†	2220.6	2228.7	[0.00]	ug/L	15:10:11
3	Mg 279.077 IEC†	2.5	2.5	[0.00]	ug/L	15:10:31
3	Na 589.592 Radial†	-770.3	-773.2	[0.00]	ug/L	15:10:11
3	Sr 421.552†	3.3	3.3	[0.00]	ug/L	15:10:11
3	Sc 361.383	792576.5	792576.5	100.22	%	15:11:28
3	Y 371.029	708466.0	708466.0	100.21	%	15:11:28
3	Ag 328.068†	145.9	145.6	[0.00]	ug/L	15:11:28
3	As 188.979†	-32.3	-32.2	[0.00]	ug/L	15:11:48
3	B 249.677†	-235.6	-235.1	[0.00]	ug/L	15:11:48
3	Ba 233.527†	-13.2	-13.2	[0.00]	ug/L	15:11:48
3	Be 313.107†	-9319.7	-9298.9	[0.00]	ug/L	15:11:28
3	Cd 226.502†	-179.3	-178.9	[0.00]	ug/L	15:11:48
3	Co 228.616†	-61.4	-61.3	[0.00]	ug/L	15:11:48
3	Cr 267.716†	73.6	73.4	[0.00]	ug/L	15:11:48
3	Cu 324.752†	7798.6	7781.2	[0.00]	ug/L	15:11:28
3	Mn 257.610†	412.8	411.9	[0.00]	ug/L	15:11:48
3	Mo 202.031†	11.2	11.2	[0.00]	ug/L	15:11:48
3	Ni 231.604†	89.3	89.1	[0.00]	ug/L	15:11:48
3	P 214.914†	199.1	198.7	[0.00]	ug/L	15:11:48
3	Pb 220.353†	-54.1	-54.0	[0.00]	ug/L	15:11:48
3	S 181.975 Axial†	43.8	43.7	[0.00]	ug/L	15:11:48
3	Sb 206.836†	32.5	32.4	[0.00]	ug/L	15:11:48
3	Se 196.026†	-12.5	-12.4	[0.00]	ug/L	15:11:48
3	Si 251.611†	553.9	552.7	[0.00]	ug/L	15:11:48
3	Sn 189.927†	4.9	4.9	[0.00]	ug/L	15:11:48
3	Ti 334.940†	-1307.2	-1304.3	[0.00]	ug/L	15:11:28
3	Tl 190.801†	-44.7	-44.6	[0.00]	ug/L	15:11:48
3	U 409.014†	-2450.9	-2445.4	[0.00]	ug/L	15:11:28
3	V 292.402†	-1629.6	-1626.0	[0.00]	ug/L	15:11:28
3	Zn 213.857†	800.5	798.7	[0.00]	ug/L	15:11:48
3	SiO2†	564.8	563.6	[0.00]	ug/L	15:12:04

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	790812.1	5213.91	0.66%	100.00 %
Sc Radial	4747.9	32.63	0.69%	100 %
Y 371.029	706990.3	4745.59	0.67%	100.00 %
Y RADIAL	5040.2	23.54	0.47%	100.0 %
Ag 328.068†	176.5	28.47	16.14%	[0.00] ug/L

Al 396.153Radial†	-82.5	1.36	1.64%	[0.00]	ug/L
As 188.979†	-28.6	5.26	18.39%	[0.00]	ug/L
B 249.677†	-224.2	10.33	4.61%	[0.00]	ug/L
Ba 233.527†	-4.0	9.90	246.06%	[0.00]	ug/L
Be 313.107†	-9332.5	50.65	0.54%	[0.00]	ug/L
Ca 317.933Radial†	18.3	0.88	4.83%	[0.00]	ug/L
Cd 226.502†	-182.6	3.33	1.82%	[0.00]	ug/L
Co 228.616†	-64.4	3.45	5.36%	[0.00]	ug/L
Cr 267.716†	61.2	12.68	20.71%	[0.00]	ug/L
Cu 324.752†	7723.7	55.58	0.72%	[0.00]	ug/L
Fe 238.204 Radial†	7.3	1.11	15.25%	[0.00]	ug/L
K 766.490 Radial†	2306.7	69.88	3.03%	[0.00]	ug/L
Mg 279.077 IEC†	2.1	0.33	15.77%	[0.00]	ug/L
Mn 257.610†	430.5	16.10	3.74%	[0.00]	ug/L
Mo 202.031†	12.0	2.62	21.91%	[0.00]	ug/L
Na 589.592 Radial†	-737.1	32.13	4.36%	[0.00]	ug/L
Ni 231.604†	80.5	7.72	9.59%	[0.00]	ug/L
P 214.914†	198.8	5.81	2.92%	[0.00]	ug/L
Pb 220.353†	-57.5	5.74	9.98%	[0.00]	ug/L
S 181.975 Axial†	41.0	2.87	6.98%	[0.00]	ug/L
Sb 206.836†	32.9	4.11	12.52%	[0.00]	ug/L
Se 196.026†	-19.0	6.70	35.30%	[0.00]	ug/L
Si 251.611†	551.2	9.84	1.79%	[0.00]	ug/L
Sn 189.927†	13.1	7.07	54.07%	[0.00]	ug/L
Sr 421.552†	18.9	15.93	84.12%	[0.00]	ug/L
Ti 334.940†	-1334.8	44.86	3.36%	[0.00]	ug/L
Tl 190.801†	-35.7	8.81	24.67%	[0.00]	ug/L
U 409.014†	-2368.6	73.74	3.11%	[0.00]	ug/L
V 292.402†	-1659.3	50.80	3.06%	[0.00]	ug/L
Zn 213.857†	797.3	5.81	0.73%	[0.00]	ug/L
SiO2†	560.3	7.85	1.40%	[0.00]	ug/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 3/4/2010 15:14:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4948.5	4948.5	104 %	15:16:11
1	Y RADIAL	5223.1	5223.1	103.6 %	15:16:11
1	K 766.490 Radial†	7760.9	5139.5	[1000] ug/L	15:16:06
1	Sr 421.552†	14799.9	14181.0	[100] ug/L	15:16:11
1	Sc 361.383	801354.8	801354.8	101.33 %	15:16:38
1	Y 371.029	716064.4	716064.4	101.28 %	15:16:38
1	Ag 328.068†	20191.1	19749.0	[100] ug/L	15:16:38
1	As 188.979†	211.6	237.5	[100] ug/L	15:16:58
1	B 249.677†	3661.0	3837.1	[100] ug/L	15:16:38
1	Ba 233.527†	8758.0	8646.8	[100] ug/L	15:16:38
1	Be 313.107†	248724.8	254785.0	[100] ug/L	15:16:38
1	Cd 226.502†	7252.7	7339.9	[100] ug/L	15:16:38
1	Co 228.616†	3377.9	3397.8	[100] ug/L	15:16:58
1	Cr 267.716†	7728.7	7565.8	[100] ug/L	15:16:38
1	Cu 324.752†	34635.7	26456.3	[100] ug/L	15:16:38
1	Mn 257.610†	66439.8	65135.2	[100] ug/L	15:16:38
1	Mo 202.031†	1139.4	1112.4	[100] ug/L	15:16:58
1	Ni 231.604†	3323.6	3199.4	[100] ug/L	15:16:58
1	P 214.914†	1124.6	910.9	[500] ug/L	15:16:58
1	Pb 220.353†	574.2	624.2	[100] ug/L	15:16:58
1	S 181.975 Axial†	208.7	164.9	[200] ug/L	15:16:58
1	Sb 206.836†	285.8	249.2	[100] ug/L	15:16:58
1	Se 196.026†	154.2	171.1	[100] ug/L	15:16:58
1	Si 251.611†	14884.2	14137.3	[500] ug/L	15:16:38
1	Sn 189.927†	446.1	427.1	[100] ug/L	15:16:58
1	Ti 334.940†	50394.7	51066.5	[100] ug/L	15:16:38
1	Tl 190.801†	184.4	217.6	[100] ug/L	15:16:58
1	U 409.014†	573.2	2934.2	[100] ug/L	15:16:38
1	V 292.402†	11162.5	12675.0	[100] ug/L	15:16:38
1	Zn 213.857†	10832.0	9892.2	[100] ug/L	15:16:38
1	SiO2†	15080.4	14321.7	[1069.5] ug/L	15:17:55
2	Sc Radial	4773.8	4773.8	101 %	15:16:21
2	Y RADIAL	5045.6	5045.6	100.1 %	15:16:21
2	K 766.490 Radial†	7828.2	5479.0	[1000] ug/L	15:16:16
2	Sr 421.552†	14333.5	14236.9	[100] ug/L	15:16:21
2	Sc 361.383	798968.2	798968.2	101.03 %	15:17:04
2	Y 371.029	715568.3	715568.3	101.21 %	15:17:04
2	Ag 328.068†	20234.0	19851.0	[100] ug/L	15:17:04
2	As 188.979†	200.4	226.9	[100] ug/L	15:17:24
2	B 249.677†	3655.1	3842.0	[100] ug/L	15:17:04
2	Ba 233.527†	8741.0	8655.8	[100] ug/L	15:17:04
2	Be 313.107†	249215.6	256004.0	[100] ug/L	15:17:04
2	Cd 226.502†	7256.6	7365.1	[100] ug/L	15:17:04
2	Co 228.616†	3344.9	3375.2	[100] ug/L	15:17:24
2	Cr 267.716†	7694.5	7554.8	[100] ug/L	15:17:04
2	Cu 324.752†	34609.3	26532.3	[100] ug/L	15:17:04
2	Mn 257.610†	66349.9	65242.1	[100] ug/L	15:17:04
2	Mo 202.031†	1144.4	1120.7	[100] ug/L	15:17:24
2	Ni 231.604†	3323.7	3209.3	[100] ug/L	15:17:24
2	P 214.914†	1115.2	904.9	[500] ug/L	15:17:24
2	Pb 220.353†	572.4	624.0	[100] ug/L	15:17:24
2	S 181.975 Axial†	200.7	157.6	[200] ug/L	15:17:24
2	Sb 206.836†	284.4	248.6	[100] ug/L	15:17:24
2	Se 196.026†	141.6	159.2	[100] ug/L	15:17:24
2	Si 251.611†	14915.2	14211.8	[500] ug/L	15:17:04
2	Sn 189.927†	453.4	435.7	[100] ug/L	15:17:24
2	Ti 334.940†	50421.9	51242.0	[100] ug/L	15:17:04
2	Tl 190.801†	173.3	207.2	[100] ug/L	15:17:24
2	U 409.014†	654.0	3015.9	[100] ug/L	15:17:04

2	V 292.402†	11304.6	12848.5	[100]	ug/L	15:17:04
2	Zn 213.857†	10795.9	9888.4	[100]	ug/L	15:17:04
2	SiO2†	15092.7	14378.3	[1069.5]	ug/L	15:18:00
3	Sc Radial	4928.1	4928.1	104	%	15:16:31
3	Y RADIAL	5178.4	5178.4	102.7	%	15:16:31
3	K 766.490 Radial†	7705.2	5116.6	[1000]	ug/L	15:16:26
3	Sr 421.552†	14827.2	14266.0	[100]	ug/L	15:16:31
3	Sc 361.383	798486.4	798486.4	100.97	%	15:17:29
3	Y 371.029	714648.5	714648.5	101.08	%	15:17:29
3	Ag 328.068†	20141.6	19771.6	[100]	ug/L	15:17:29
3	As 188.979†	204.9	231.5	[100]	ug/L	15:17:49
3	B 249.677†	3651.1	3840.2	[100]	ug/L	15:17:29
3	Ba 233.527†	8751.4	8671.4	[100]	ug/L	15:17:29
3	Be 313.107†	249161.4	256099.2	[100]	ug/L	15:17:29
3	Cd 226.502†	7259.2	7372.1	[100]	ug/L	15:17:29
3	Co 228.616†	3340.9	3373.1	[100]	ug/L	15:17:49
3	Cr 267.716†	7708.1	7572.8	[100]	ug/L	15:17:29
3	Cu 324.752†	34642.6	26585.9	[100]	ug/L	15:17:29
3	Mn 257.610†	66432.0	65363.1	[100]	ug/L	15:17:29
3	Mo 202.031†	1143.3	1120.3	[100]	ug/L	15:17:49
3	Ni 231.604†	3319.3	3206.9	[100]	ug/L	15:17:49
3	P 214.914†	1131.9	922.1	[500]	ug/L	15:17:49
3	Pb 220.353†	581.7	633.6	[100]	ug/L	15:17:49
3	S 181.975 Axial†	209.5	166.5	[200]	ug/L	15:17:49
3	Sb 206.836†	290.3	254.7	[100]	ug/L	15:17:49
3	Se 196.026†	145.1	162.7	[100]	ug/L	15:17:49
3	Si 251.611†	14885.2	14190.9	[500]	ug/L	15:17:29
3	Sn 189.927†	453.4	436.0	[100]	ug/L	15:17:49
3	Ti 334.940†	50460.6	51310.4	[100]	ug/L	15:17:29
3	Tl 190.801†	187.7	221.6	[100]	ug/L	15:17:49
3	U 409.014†	574.3	2937.4	[100]	ug/L	15:17:29
3	V 292.402†	11375.2	12925.2	[100]	ug/L	15:17:29
3	Zn 213.857†	10803.8	9902.7	[100]	ug/L	15:17:29
3	SiO2†	15108.0	14402.4	[1069.5]	ug/L	15:18:05

Mean Data: S0.1

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	799603.1	1535.97	0.19%	101.11	%
Sc Radial	4883.5	95.56	1.96%	103	%
Y 371.029	715427.1	718.44	0.10%	101.19	%
Y RADIAL	5149.0	92.35	1.79%	102.2	%
Ag 328.068†	19790.5	53.57	0.27%	[100]	ug/L
As 188.979†	232.0	5.28	2.27%	[100]	ug/L
B 249.677†	3839.8	2.48	0.06%	[100]	ug/L
Ba 233.527†	8658.0	12.40	0.14%	[100]	ug/L
Be 313.107†	255629.4	732.80	0.29%	[100]	ug/L
Cd 226.502†	7359.0	16.96	0.23%	[100]	ug/L
Co 228.616†	3382.0	13.71	0.41%	[100]	ug/L
Cr 267.716†	7564.5	9.09	0.12%	[100]	ug/L
Cu 324.752†	26524.8	65.13	0.25%	[100]	ug/L
K 766.490 Radial†	5245.1	202.96	3.87%	[1000]	ug/L
Mn 257.610†	65246.8	114.00	0.17%	[100]	ug/L
Mo 202.031†	1117.8	4.67	0.42%	[100]	ug/L
Ni 231.604†	3205.2	5.17	0.16%	[100]	ug/L
P 214.914†	912.7	8.73	0.96%	[500]	ug/L
Pb 220.353†	627.3	5.47	0.87%	[100]	ug/L
S 181.975 Axial†	163.0	4.71	2.89%	[200]	ug/L
Sb 206.836†	250.8	3.35	1.34%	[100]	ug/L
Se 196.026†	164.3	6.15	3.74%	[100]	ug/L
Si 251.611†	14180.0	38.43	0.27%	[500]	ug/L
Sn 189.927†	432.9	5.03	1.16%	[100]	ug/L
Sr 421.552†	14227.9	43.21	0.30%	[100]	ug/L
Ti 334.940†	51206.3	125.84	0.25%	[100]	ug/L
Tl 190.801†	215.5	7.42	3.44%	[100]	ug/L
U 409.014†	2962.5	46.27	1.56%	[100]	ug/L
V 292.402†	12816.2	128.18	1.00%	[100]	ug/L
Zn 213.857†	9894.4	7.42	0.07%	[100]	ug/L
SiO2†	14367.5	41.43	0.29%	[1069.5]	ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 3/4/2010 15:20:15
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4849.0	4849.0	102 %	15:22:07
1	Y RADIAL	5109.0	5109.0	101.4 %	15:22:07
1	Al 396.153Radial†	5276.7	5249.1	[5000] ug/L	15:22:07
1	Ca 317.933Radial†	2783.4	2707.1	[5000] ug/L	15:22:27
1	K 766.490 Radial†	28980.6	26069.7	[5000] ug/L	15:22:07
1	Mg 279.077 IEC†	132.3	127.4	[5000] ug/L	15:22:27
1	Sr 421.552†	71086.3	69585.2	[500] ug/L	15:22:07
1	Sc 361.383	820318.3	820318.3	103.73 %	15:23:25
1	Y 371.029	725094.8	725094.8	102.56 %	15:23:25
1	Ag 328.068†	99789.0	96023.2	[500] ug/L	15:23:30
1	As 188.979†	1129.1	1117.1	[500] ug/L	15:23:50
1	B 249.677†	19766.4	19279.7	[500] ug/L	15:23:30
1	Ba 233.527†	43270.0	41717.6	[500] ug/L	15:23:30
1	Be 313.107†	1280230.4	1243514.1	[500] ug/L	15:23:25
1	Cd 226.502†	36509.7	35379.1	[500] ug/L	15:23:30
1	Co 228.616†	16736.8	16199.2	[500] ug/L	15:23:50
1	Cr 267.716†	37807.3	36386.1	[500] ug/L	15:23:30
1	Cu 324.752†	143071.0	130201.1	[500] ug/L	15:23:30
1	Mn 257.610†	320389.2	308434.6	[500] ug/L	15:23:30
1	Mo 202.031†	5572.4	5360.0	[500] ug/L	15:23:50
1	Ni 231.604†	16483.4	15810.0	[500] ug/L	15:23:30
1	P 214.914†	4814.3	4442.3	[2500] ug/L	15:23:50
1	Pb 220.353†	3106.6	3052.4	[500] ug/L	15:23:50
1	S 181.975 Axial†	847.6	776.1	[1000] ug/L	15:23:50
1	Sb 206.836†	1283.4	1204.4	[500] ug/L	15:23:50
1	Se 196.026†	829.9	819.1	[500] ug/L	15:23:50
1	Si 251.611†	70482.9	67396.5	[2500] ug/L	15:23:30
1	Sn 189.927†	2189.6	2097.8	[500] ug/L	15:23:50
1	Ti 334.940†	250900.0	243210.1	[500] ug/L	15:23:30
1	Tl 190.801†	1065.9	1063.3	[500] ug/L	15:23:50
1	U 409.014†	12831.8	14738.9	[500] ug/L	15:23:30
1	V 292.402†	62935.4	62331.0	[500] ug/L	15:23:30
1	Zn 213.857†	47644.3	45133.3	[500] ug/L	15:23:30
1	SiO2†	71600.8	68465.1	[5347.5] ug/L	15:24:57
2	Sc Radial	4877.8	4877.8	103 %	15:22:32
2	Y RADIAL	5155.5	5155.5	102.3 %	15:22:32
2	Al 396.153Radial†	5348.6	5288.7	[5000] ug/L	15:22:32
2	Ca 317.933Radial†	2811.8	2718.7	[5000] ug/L	15:22:53
2	K 766.490 Radial†	29238.2	26152.9	[5000] ug/L	15:22:32
2	Mg 279.077 IEC†	133.5	127.9	[5000] ug/L	15:22:53
2	Sr 421.552†	71976.4	70041.0	[500] ug/L	15:22:32
2	Sc 361.383	812177.7	812177.7	102.70 %	15:23:55
2	Y 371.029	718049.2	718049.2	101.56 %	15:23:55
2	Ag 328.068†	100132.8	97322.2	[500] ug/L	15:24:01
2	As 188.979†	1124.4	1123.5	[500] ug/L	15:24:21
2	B 249.677†	19792.3	19495.9	[500] ug/L	15:24:01
2	Ba 233.527†	43432.4	42293.8	[500] ug/L	15:24:01
2	Be 313.107†	1274021.4	1249838.8	[500] ug/L	15:23:55
2	Cd 226.502†	36621.9	35841.1	[500] ug/L	15:24:01
2	Co 228.616†	16689.9	16315.2	[500] ug/L	15:24:21
2	Cr 267.716†	37911.4	36852.9	[500] ug/L	15:24:01
2	Cu 324.752†	143549.8	132049.8	[500] ug/L	15:24:01
2	Mn 257.610†	321431.9	312545.7	[500] ug/L	15:24:01
2	Mo 202.031†	5548.7	5390.8	[500] ug/L	15:24:21
2	Ni 231.604†	16480.8	15966.7	[500] ug/L	15:24:01
2	P 214.914†	4806.2	4480.9	[2500] ug/L	15:24:21
2	Pb 220.353†	3112.1	3087.7	[500] ug/L	15:24:21
2	S 181.975 Axial†	839.6	776.5	[1000] ug/L	15:24:21
2	Sb 206.836†	1289.8	1223.0	[500] ug/L	15:24:21

2	Se 196.026†	827.4	824.6	[500]	ug/L	15:24:21
2	Si 251.611†	70771.6	68358.7	[2500]	ug/L	15:24:01
2	Sn 189.927†	2192.6	2121.8	[500]	ug/L	15:24:21
2	Ti 334.940†	251908.2	246616.1	[500]	ug/L	15:24:01
2	Tl 190.801†	1072.8	1080.3	[500]	ug/L	15:24:21
2	U 409.014†	12839.0	14869.9	[500]	ug/L	15:24:01
2	V 292.402†	63166.5	63164.1	[500]	ug/L	15:24:01
2	Zn 213.857†	47760.9	45707.2	[500]	ug/L	15:24:01
2	SiO2†	70619.8	68201.7	[5347.5]	ug/L	15:25:02
3	Sc Radial	4712.0	4712.0	99.2	%	15:22:58
3	Y RADIAL	4980.9	4980.9	98.82	%	15:22:58
3	Al 396.153Radial†	5182.9	5304.9	[5000]	ug/L	15:22:58
3	Ca 317.933Radial†	2796.7	2799.7	[5000]	ug/L	15:23:18
3	K 766.490 Radial†	28488.0	26398.2	[5000]	ug/L	15:22:58
3	Mg 279.077 IEC†	131.6	130.5	[5000]	ug/L	15:23:18
3	Sr 421.552†	69509.5	70019.8	[500]	ug/L	15:22:58
3	Sc 361.383	814622.7	814622.7	103.01	%	15:24:26
3	Y 371.029	720960.3	720960.3	101.98	%	15:24:26
3	Ag 328.068†	100566.0	97450.1	[500]	ug/L	15:24:31
3	As 188.979†	1131.0	1126.6	[500]	ug/L	15:24:51
3	B 249.677†	19950.9	19592.0	[500]	ug/L	15:24:31
3	Ba 233.527†	43690.6	42417.5	[500]	ug/L	15:24:31
3	Be 313.107†	1285523.8	1257281.6	[500]	ug/L	15:24:26
3	Cd 226.502†	36862.2	35967.4	[500]	ug/L	15:24:31
3	Co 228.616†	16749.6	16324.4	[500]	ug/L	15:24:51
3	Cr 267.716†	38150.1	36973.8	[500]	ug/L	15:24:31
3	Cu 324.752†	144280.1	132339.2	[500]	ug/L	15:24:31
3	Mn 257.610†	323026.8	313154.6	[500]	ug/L	15:24:31
3	Mo 202.031†	5548.7	5374.5	[500]	ug/L	15:24:51
3	Ni 231.604†	16637.0	16070.3	[500]	ug/L	15:24:31
3	P 214.914†	4810.1	4470.7	[2500]	ug/L	15:24:51
3	Pb 220.353†	3102.4	3069.2	[500]	ug/L	15:24:51
3	S 181.975 Axial†	857.5	791.4	[1000]	ug/L	15:24:51
3	Sb 206.836†	1295.5	1224.8	[500]	ug/L	15:24:51
3	Se 196.026†	824.7	819.6	[500]	ug/L	15:24:51
3	Si 251.611†	71230.7	68597.6	[2500]	ug/L	15:24:31
3	Sn 189.927†	2194.6	2117.4	[500]	ug/L	15:24:51
3	Ti 334.940†	253015.1	246954.5	[500]	ug/L	15:24:31
3	Tl 190.801†	1064.2	1068.8	[500]	ug/L	15:24:51
3	U 409.014†	12773.6	14768.8	[500]	ug/L	15:24:31
3	V 292.402†	63522.1	63324.7	[500]	ug/L	15:24:31
3	Zn 213.857†	48054.0	45852.2	[500]	ug/L	15:24:31
3	SiO2†	69899.7	67296.3	[5347.5]	ug/L	15:25:07

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	815706.2	4177.04	0.51%	103.15	%
Sc Radial	4812.9	88.57	1.84%	101	%
Y 371.029	721368.1	3540.44	0.49%	102.03	%
Y RADIAL	5081.8	90.40	1.78%	100.8	%
Ag 328.068†	96931.8	789.50	0.81%	[500]	ug/L
Al 396.153Radial†	5280.9	28.66	0.54%	[5000]	ug/L
As 188.979†	1122.4	4.82	0.43%	[500]	ug/L
B 249.677†	19455.9	159.97	0.82%	[500]	ug/L
Ba 233.527†	42143.0	373.54	0.89%	[500]	ug/L
Be 313.107†	1250211.5	6891.33	0.55%	[500]	ug/L
Ca 317.933Radial†	2741.8	50.45	1.84%	[5000]	ug/L
Cd 226.502†	35729.2	309.70	0.87%	[500]	ug/L
Co 228.616†	16279.6	69.79	0.43%	[500]	ug/L
Cr 267.716†	36737.6	310.32	0.84%	[500]	ug/L
Cu 324.752†	131530.0	1159.92	0.88%	[500]	ug/L
K 766.490 Radial†	26206.9	170.79	0.65%	[5000]	ug/L
Mg 279.077 IEC†	128.6	1.67	1.30%	[5000]	ug/L
Mn 257.610†	311378.3	2567.43	0.82%	[500]	ug/L
Mo 202.031†	5375.1	15.39	0.29%	[500]	ug/L
Ni 231.604†	15949.0	131.02	0.82%	[500]	ug/L
P 214.914†	4464.6	19.99	0.45%	[2500]	ug/L
Pb 220.353†	3069.8	17.68	0.58%	[500]	ug/L
S 181.975 Axial†	781.3	8.72	1.12%	[1000]	ug/L

Sb 206.836†	1217.4	11.31	0.93%	[500] ug/L
Se 196.026†	821.1	3.08	0.37%	[500] ug/L
Si 251.611†	68117.6	635.78	0.93%	[2500] ug/L
Sn 189.927†	2112.3	12.78	0.61%	[500] ug/L
Sr 421.552†	69882.0	257.25	0.37%	[500] ug/L
Ti 334.940†	245593.6	2071.08	0.84%	[500] ug/L
Tl 190.801†	1070.8	8.67	0.81%	[500] ug/L
U 409.014†	14792.5	68.63	0.46%	[500] ug/L
V 292.402†	62939.9	533.42	0.85%	[500] ug/L
Zn 213.857†	45564.2	380.16	0.83%	[500] ug/L
SiO2†	67987.7	613.08	0.90%	[5347.5] ug/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 3/4/2010 15:27:18
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4739.9	4739.9	99.8 %	15:29:11
1	Y RADIAL	5016.1	5016.1	99.52 %	15:29:11
1	Al 396.153Radial†	10691.0	10791.6	[10000] ug/L	15:29:11
1	Ca 317.933Radial†	5687.0	5678.3	[10000] ug/L	15:29:11
1	Fe 238.204 Radial†	1002.3	996.7	[10000] ug/L	15:29:31
1	K 766.490 Radial†	55555.7	53342.9	[10000] ug/L	15:29:11
1	Mg 279.077 IEC†	266.3	264.7	[10000] ug/L	15:29:31
1	Na 589.592 Radial†	30851.5	31640.7	[10000] ug/L	15:29:11
1	Sr 421.552†	140807.2	141026.3	[1000] ug/L	15:29:11
1	Sc 361.383	799716.8	799716.8	101.13 %	15:30:34
1	Y 371.029	708177.6	708177.6	100.17 %	15:30:34
1	Ag 328.068†	202874.9	200439.4	[1000] ug/L	15:30:34
1	As 188.979†	2290.7	2293.8	[1000] ug/L	15:30:54
1	B 249.677†	40803.3	40573.2	[1000] ug/L	15:30:34
1	Ba 233.527†	87756.3	86783.2	[1000] ug/L	15:30:34
1	Be 313.107†	2602800.3	2583150.9	[1000] ug/L	15:30:29
1	Cd 226.502†	73767.9	73129.1	[1000] ug/L	15:30:34
1	Co 228.616†	34029.7	33715.1	[1000] ug/L	15:30:54
1	Cr 267.716†	76344.5	75433.2	[1000] ug/L	15:30:34
1	Cu 324.752†	284385.4	273495.0	[1000] ug/L	15:30:34
1	Mn 257.610†	648174.7	640526.8	[1000] ug/L	15:30:34
1	Mo 202.031†	11238.8	11101.7	[1000] ug/L	15:30:54
1	Ni 231.604†	32941.4	32494.1	[1000] ug/L	15:30:34
1	P 214.914†	9532.9	9227.9	[5000] ug/L	15:30:54
1	Pb 220.353†	6307.2	6294.5	[1000] ug/L	15:30:54
1	S 181.975 Axial†	1670.7	1611.0	[2000] ug/L	15:30:54
1	Sb 206.836†	2638.8	2576.5	[1000] ug/L	15:30:54
1	Se 196.026†	1679.5	1679.8	[1000] ug/L	15:30:54
1	Si 251.611†	143581.0	141431.1	[5000] ug/L	15:30:34
1	Sn 189.927†	4461.7	4398.9	[1000] ug/L	15:30:54
1	Ti 334.940†	512952.9	508576.0	[1000] ug/L	15:30:34
1	Tl 190.801†	2194.0	2205.3	[1000] ug/L	15:30:54
1	U 409.014†	28316.0	30369.4	[1000] ug/L	15:30:34
1	V 292.402†	129347.3	129566.4	[1000] ug/L	15:30:34
1	Zn 213.857†	95397.2	93537.6	[1000] ug/L	15:30:34
1	SiO2†	142193.6	140050.0	[10695] ug/L	15:32:02
2	Sc Radial	4823.4	4823.4	102 %	15:29:36
2	Y RADIAL	5103.2	5103.2	101.3 %	15:29:36
2	Al 396.153Radial†	10844.9	10757.6	[10000] ug/L	15:29:36
2	Ca 317.933Radial†	5749.3	5641.1	[10000] ug/L	15:29:36
2	Fe 238.204 Radial†	982.1	959.5	[10000] ug/L	15:29:56
2	K 766.490 Radial†	56046.1	52862.2	[10000] ug/L	15:29:36
2	Mg 279.077 IEC†	268.0	261.7	[10000] ug/L	15:29:56
2	Na 589.592 Radial†	31186.9	31435.9	[10000] ug/L	15:29:36
2	Sr 421.552†	142459.3	140210.7	[1000] ug/L	15:29:36
2	Sc 361.383	801099.3	801099.3	101.30 %	15:31:05
2	Y 371.029	710073.3	710073.3	100.44 %	15:31:05
2	Ag 328.068†	203282.7	200495.8	[1000] ug/L	15:31:05
2	As 188.979†	2316.3	2315.1	[1000] ug/L	15:31:25
2	B 249.677†	40841.7	40541.5	[1000] ug/L	15:31:05
2	Ba 233.527†	87883.0	86758.5	[1000] ug/L	15:31:05
2	Be 313.107†	2591301.0	2567357.7	[1000] ug/L	15:31:00
2	Cd 226.502†	73744.6	72980.2	[1000] ug/L	15:31:05
2	Co 228.616†	34186.6	33811.9	[1000] ug/L	15:31:25
2	Cr 267.716†	76376.9	75334.9	[1000] ug/L	15:31:05
2	Cu 324.752†	285102.2	273717.3	[1000] ug/L	15:31:05
2	Mn 257.610†	648547.4	639788.8	[1000] ug/L	15:31:05
2	Mo 202.031†	11279.0	11122.2	[1000] ug/L	15:31:25
2	Ni 231.604†	33069.3	32564.2	[1000] ug/L	15:31:05

2	P 214.914†	9609.6	9287.3	[5000]	ug/L	15:31:25
2	Pb 220.353†	6373.6	6349.2	[1000]	ug/L	15:31:25
2	S 181.975 Axial†	1685.3	1622.6	[2000]	ug/L	15:31:25
2	Sb 206.836†	2636.6	2569.9	[1000]	ug/L	15:31:25
2	Se 196.026†	1694.2	1691.4	[1000]	ug/L	15:31:25
2	Si 251.611†	143729.9	141333.0	[5000]	ug/L	15:31:05
2	Sn 189.927†	4467.6	4397.1	[1000]	ug/L	15:31:25
2	Ti 334.940†	513687.5	508425.8	[1000]	ug/L	15:31:05
2	Tl 190.801†	2211.5	2218.8	[1000]	ug/L	15:31:25
2	U 409.014†	28341.1	30345.8	[1000]	ug/L	15:31:05
2	V 292.402†	129428.8	129426.1	[1000]	ug/L	15:31:05
2	Zn 213.857†	95487.1	93463.6	[1000]	ug/L	15:31:05
2	SiO2†	142415.9	140026.8	[10695]	ug/L	15:32:07
3	Sc Radial	4808.8	4808.8	101	%	15:30:01
3	Y RADIAL	5071.1	5071.1	100.6	%	15:30:01
3	Al 396.153Radial†	10809.6	10755.2	[10000]	ug/L	15:30:01
3	Ca 317.933Radial†	5734.7	5643.8	[10000]	ug/L	15:30:01
3	Fe 238.204 Radial†	978.8	959.1	[10000]	ug/L	15:30:21
3	K 766.490 Radial†	56106.1	53089.0	[10000]	ug/L	15:30:01
3	Mg 279.077 IEC†	268.0	262.5	[10000]	ug/L	15:30:21
3	Na 589.592 Radial†	31004.9	31349.3	[10000]	ug/L	15:30:01
3	Sr 421.552†	141951.5	140135.2	[1000]	ug/L	15:30:01
3	Sc 361.383	791236.8	791236.8	100.05	%	15:31:36
3	Y 371.029	700602.8	700602.8	99.097	%	15:31:36
3	Ag 328.068†	200548.0	200263.9	[1000]	ug/L	15:31:36
3	As 188.979†	2306.3	2333.6	[1000]	ug/L	15:31:56
3	B 249.677†	40347.8	40550.4	[1000]	ug/L	15:31:36
3	Ba 233.527†	86647.9	86605.4	[1000]	ug/L	15:31:36
3	Be 313.107†	2551200.0	2559163.0	[1000]	ug/L	15:31:31
3	Cd 226.502†	72914.6	73058.1	[1000]	ug/L	15:31:36
3	Co 228.616†	34043.4	34089.5	[1000]	ug/L	15:31:56
3	Cr 267.716†	75436.3	75334.6	[1000]	ug/L	15:31:36
3	Cu 324.752†	280240.3	272366.1	[1000]	ug/L	15:31:36
3	Mn 257.610†	639829.0	639055.1	[1000]	ug/L	15:31:36
3	Mo 202.031†	11205.9	11187.9	[1000]	ug/L	15:31:56
3	Ni 231.604†	32591.9	32493.9	[1000]	ug/L	15:31:36
3	P 214.914†	9558.1	9354.1	[5000]	ug/L	15:31:56
3	Pb 220.353†	6322.2	6376.3	[1000]	ug/L	15:31:56
3	S 181.975 Axial†	1673.4	1631.4	[2000]	ug/L	15:31:56
3	Sb 206.836†	2628.5	2594.2	[1000]	ug/L	15:31:56
3	Se 196.026†	1696.5	1714.6	[1000]	ug/L	15:31:56
3	Si 251.611†	141386.6	140759.5	[5000]	ug/L	15:31:36
3	Sn 189.927†	4461.0	4445.5	[1000]	ug/L	15:31:56
3	Ti 334.940†	506203.3	507266.3	[1000]	ug/L	15:31:36
3	Tl 190.801†	2208.6	2243.1	[1000]	ug/L	15:31:56
3	U 409.014†	27853.0	30206.7	[1000]	ug/L	15:31:36
3	V 292.402†	127933.6	129524.3	[1000]	ug/L	15:31:36
3	Zn 213.857†	94319.7	93471.8	[1000]	ug/L	15:31:36
3	SiO2†	142569.9	141933.0	[10695]	ug/L	15:32:12

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	797351.0	5339.94	0.67%	100.83 %
Sc Radial	4790.7	44.60	0.93%	101 %
Y 371.029	706284.6	5010.98	0.71%	99.900 %
Y RADIAL	5063.5	44.03	0.87%	100.5 %
Ag 328.068†	200399.7	120.96	0.06%	[1000] ug/L
Al 396.153Radial†	10768.1	20.32	0.19%	[10000] ug/L
As 188.979†	2314.2	19.92	0.86%	[1000] ug/L
B 249.677†	40555.0	16.35	0.04%	[1000] ug/L
Ba 233.527†	86715.7	96.32	0.11%	[1000] ug/L
Be 313.107†	2569890.5	12192.90	0.47%	[1000] ug/L
Ca 317.933Radial†	5654.4	20.78	0.37%	[10000] ug/L
Cd 226.502†	73055.8	74.47	0.10%	[1000] ug/L
Co 228.616†	33872.2	194.31	0.57%	[1000] ug/L
Cr 267.716†	75367.6	56.81	0.08%	[1000] ug/L
Cu 324.752†	273192.8	724.55	0.27%	[1000] ug/L
Fe 238.204 Radial†	971.8	21.62	2.22%	[10000] ug/L
K 766.490 Radial†	53098.0	240.49	0.45%	[10000] ug/L

Mg 279.077 IEC†	262.9	1.55	0.59%	[10000]	ug/L
Mn 257.610†	639790.2	735.86	0.12%	[1000]	ug/L
Mo 202.031†	11137.3	45.02	0.40%	[1000]	ug/L
Na 589.592 Radial†	31475.3	149.63	0.48%	[10000]	ug/L
Ni 231.604†	32517.4	40.50	0.12%	[1000]	ug/L
P 214.914†	9289.8	63.15	0.68%	[5000]	ug/L
Pb 220.353†	6340.0	41.68	0.66%	[1000]	ug/L
S 181.975 Axial†	1621.7	10.25	0.63%	[2000]	ug/L
Sb 206.836†	2580.2	12.55	0.49%	[1000]	ug/L
Se 196.026†	1695.3	17.70	1.04%	[1000]	ug/L
Si 251.611†	141174.5	362.75	0.26%	[5000]	ug/L
Sn 189.927†	4413.9	27.44	0.62%	[1000]	ug/L
Sr 421.552†	140457.4	494.14	0.35%	[1000]	ug/L
Ti 334.940†	508089.4	716.76	0.14%	[1000]	ug/L
Tl 190.801†	2222.4	19.18	0.86%	[1000]	ug/L
U 409.014†	30307.3	87.93	0.29%	[1000]	ug/L
V 292.402†	129505.6	71.98	0.06%	[1000]	ug/L
Zn 213.857†	93491.0	40.59	0.04%	[1000]	ug/L
SiO2†	140669.9	1093.92	0.78%	[10695]	ug/L

Sequence No.: 5
 Sample ID: S10
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 3/4/2010 15:34:24
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc Radial	4666.0	4666.0	98.3 %		15:36:37
1	Y RADIAL	4898.2	4898.2	97.18 %		15:36:37
1	Al 396.153Radial†	53344.3	54363.2	[50000] ug/L		15:36:17
1	Ca 317.933Radial†	27318.0	27779.2	[50000] ug/L		15:36:17
1	Fe 238.204 Radial†	1884.5	1910.3	[20000] ug/L		15:36:37
1	Mg 279.077 IEC†	1240.1	1259.8	[50000] ug/L		15:36:37
1	Na 589.592 Radial†	64042.5	65903.7	[20000] ug/L		15:36:17
1	Sc 361.383	784347.7	784347.7	99.183 %		15:37:34
1	Y 371.029	689761.2	689761.2	97.563 %		15:37:34
2	Sc Radial	4632.9	4632.9	97.6 %		15:37:02
2	Y RADIAL	4879.9	4879.9	96.82 %		15:37:02
2	Al 396.153Radial†	53410.5	54818.4	[50000] ug/L		15:36:42
2	Ca 317.933Radial†	27354.7	28015.3	[50000] ug/L		15:36:42
2	Fe 238.204 Radial†	1895.1	1934.8	[20000] ug/L		15:37:02
2	Mg 279.077 IEC†	1241.8	1270.5	[50000] ug/L		15:37:02
2	Na 589.592 Radial†	64329.2	66662.6	[20000] ug/L		15:36:42
2	Sc 361.383	781601.7	781601.7	98.835 %		15:37:40
2	Y 371.029	687663.7	687663.7	97.266 %		15:37:40
3	Sc Radial	4657.1	4657.1	98.1 %		15:37:27
3	Y RADIAL	4875.0	4875.0	96.72 %		15:37:27
3	Al 396.153Radial†	53651.6	54780.2	[50000] ug/L		15:37:07
3	Ca 317.933Radial†	27484.3	28001.9	[50000] ug/L		15:37:07
3	Fe 238.204 Radial†	1893.9	1923.6	[20000] ug/L		15:37:27
3	Mg 279.077 IEC†	1248.0	1270.2	[50000] ug/L		15:37:27
3	Na 589.592 Radial†	64699.2	66697.7	[20000] ug/L		15:37:07
3	Sc 361.383	791424.5	791424.5	100.08 %		15:37:45
3	Y 371.029	696608.7	696608.7	98.532 %		15:37:45

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib. Units
Sc 361.383	785791.3	5068.03	0.64%	99.365 %	
Sc Radial	4652.0	17.11	0.37%	98.0 %	
Y 371.029	691344.5	4677.97	0.68%	97.787 %	
Y RADIAL	4884.4	12.24	0.25%	96.91 %	
Al 396.153Radial†	54653.9	252.49	0.46%	[50000] ug/L	
Ca 317.933Radial†	27932.2	132.60	0.47%	[50000] ug/L	
Fe 238.204 Radial†	1922.9	12.30	0.64%	[20000] ug/L	
Mg 279.077 IEC†	1266.8	6.14	0.48%	[50000] ug/L	
Na 589.592 Radial†	66421.3	448.61	0.68%	[20000] ug/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	199.1	0.00000	0.999914	
Al 396.153Radial	3	Lin Thru 0	0.0	1.092	0.00000	0.999991	
As 188.979	3	Lin Thru 0	0.0	2.300	0.00000	0.999927	
B 249.677	3	Lin Thru 0	0.0	40.21	0.00000	0.999859	
Ba 233.527	3	Lin Thru 0	0.0	86.23	0.00000	0.999937	
Be 313.107	3	Lin Thru 0	0.0	2556	0.00000	0.999941	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5588	0.00000	0.999996	
Cd 226.502	3	Lin Thru 0	0.0	72.74	0.00000	0.999961	
Co 228.616	3	Lin Thru 0	0.0	33.61	0.00000	0.999879	
Cr 267.716	3	Lin Thru 0	0.0	74.99	0.00000	0.999949	
Cu 324.752	3	Lin Thru 0	0.0	271.1	0.00000	0.999887	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0964	0.00000	0.999991	
K 766.490 Radial	3	Lin Thru 0	0.0	5.296	0.00000	0.999986	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0254	0.00000	0.999973
Mn 257.610	3	Lin Thru 0	0.0	636.5	0.00000	0.999941
Mo 202.031	3	Lin Thru 0	0.0	11.06	0.00000	0.999902
Na 589.592 Radia	2	Lin Thru 0	0.0	3.286	0.00000	0.999777
Ni 231.604	3	Lin Thru 0	0.0	32.39	0.00000	0.999971
P 214.914	3	Lin Thru 0	0.0	1.843	0.00000	0.999878
Pb 220.353	3	Lin Thru 0	0.0	6.300	0.00000	0.999920
S 181.975 Axial	3	Lin Thru 0	0.0	0.8050	0.00000	0.999893
Sb 206.836	3	Lin Thru 0	0.0	2.551	0.00000	0.999741
Se 196.026	3	Lin Thru 0	0.0	1.684	0.00000	0.999919
Si 251.611	3	Lin Thru 0	0.0	28.04	0.00000	0.999901
Sn 189.927	3	Lin Thru 0	0.0	4.376	0.00000	0.999851
Sr 421.552	3	Lin Thru 0	0.0	140.3	0.00000	0.999997
Ti 334.940	3	Lin Thru 0	0.0	504.8	0.00000	0.999910
Tl 190.801	3	Lin Thru 0	0.0	2.206	0.00000	0.999891
U 409.014	3	Lin Thru 0	0.0	30.16	0.00000	0.999953
V 292.402	3	Lin Thru 0	0.0	128.8	0.00000	0.999937
Zn 213.857	3	Lin Thru 0	0.0	93.07	0.00000	0.999933
SiO2	3	Lin Thru 0	0.0	13.07	0.00000	0.999907

Sequence No.: 6
 Sample ID: ICV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 9
 Date Collected: 3/4/2010 15:39:57
 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	4988.2	4988.2	105 %		15:41:50
1	Y RADIAL	5287.0	5287.0	104.9 %		15:41:50
1	Al 396.153Radial†	5469.9	5288.9	4817.6 ug/L	4817.6 ppb	15:41:50
1	Ca 317.933Radial†	2870.4	2713.8	4856.5 ug/L	4856.5 ppb	15:42:10
1	Fe 238.204 Radial†	513.0	481.0	5007.3 ug/L	5007.3 ppb	15:42:10
1	K 766.490 Radial†	15992.1	12914.9	2435.4 ug/L	2435.4 ppb	15:41:50
1	Mg 279.077 IEC†	138.0	129.2	5093.3 ug/L	5093.3 ppb	15:42:10
1	Na 589.592 Radial†	7648.3	8016.9	2439.5 ug/L	2439.5 ppb	15:41:50
1	Sr 421.552†	77289.8	73547.3	524.05 ug/L	524.05 ppb	15:41:50
1	Sc 361.383	820732.0	820732.0	103.78 %		15:43:07
1	Y 371.029	727403.6	727403.6	102.89 %		15:43:07
1	Ag 328.068†	50821.7	48792.5	248.17 ug/L	248.17 ppb	15:43:07
1	As 188.979†	1088.4	1077.4	472.45 ug/L	472.45 ppb	15:43:27
1	B 249.677†	20936.2	20397.2	504.98 ug/L	504.98 ppb	15:43:07
1	Ba 233.527†	44703.3	43077.7	500.79 ug/L	500.79 ppb	15:43:07
1	Be 313.107†	664434.6	649545.0	255.23 ug/L	255.23 ppb	15:43:07
1	Cd 226.502†	36374.3	35230.9	484.20 ug/L	484.20 ppb	15:43:27
1	Co 228.616†	17638.7	17060.0	507.72 ug/L	507.72 ppb	15:43:27
1	Cr 267.716†	37421.1	35995.7	480.59 ug/L	480.59 ppb	15:43:07
1	Cu 324.752†	146969.9	133888.4	493.84 ug/L	493.84 ppb	15:43:07
1	Mn 257.610†	334413.2	321791.6	505.84 ug/L	505.84 ppb	15:43:07
1	Mo 202.031†	5978.9	5749.0	520.20 ug/L	520.20 ppb	15:43:27
1	Ni 231.604†	16526.1	15843.1	488.82 ug/L	488.82 ppb	15:43:27
1	P 214.914†	4939.5	4560.6	2378.0 ug/L	2378.0 ppb	15:43:27
1	Pb 220.353†	3170.4	3112.3	495.90 ug/L	495.90 ppb	15:43:27
1	S 181.975 Axial†	2072.7	1956.1	2429.0 ug/L	2429.0 ppb	15:43:27
1	Sb 206.836†	1325.2	1244.0	506.43 ug/L	506.43 ppb	15:43:27
1	Se 196.026†	4357.4	4217.5	2517.2 ug/L	2517.2 ppb	15:43:27
1	Si 251.611†	139303.2	133673.7	4760.9 ug/L	4760.9 ppb	15:43:07
1	Sn 189.927†	2376.6	2276.9	520.93 ug/L	520.93 ppb	15:43:27
1	Ti 334.940†	253688.1	245774.6	486.76 ug/L	486.76 ppb	15:43:07
1	Tl 190.801†	1140.2	1134.3	517.54 ug/L	517.54 ppb	15:43:27
1	U 409.014†	12088.4	14016.3	463.11 ug/L	463.11 ppb	15:43:07
1	V 292.402†	64360.0	63673.1	501.36 ug/L	501.36 ppb	15:43:07
1	Zn 213.857†	48761.3	46186.4	491.75 ug/L	491.75 ppb	15:43:07
1	SiO2†	141021.6	135320.3	10341 ug/L	10341 ppb	15:44:25
2	Sc Radial	4910.3	4910.3	103 %		15:42:15
2	Y RADIAL	5178.2	5178.2	102.7 %		15:42:15
2	Al 396.153Radial†	5427.9	5330.9	4855.9 ug/L	4855.9 ppb	15:42:15
2	Ca 317.933Radial†	2845.5	2733.1	4891.0 ug/L	4891.0 ppb	15:42:35
2	Fe 238.204 Radial†	515.0	490.7	5108.4 ug/L	5108.4 ppb	15:42:35
2	K 766.490 Radial†	15825.7	12995.6	2450.6 ug/L	2450.6 ppb	15:42:15
2	Mg 279.077 IEC†	139.4	132.7	5230.2 ug/L	5230.2 ppb	15:42:35
2	Na 589.592 Radial†	7516.1	8004.6	2435.7 ug/L	2435.7 ppb	15:42:15
2	Sr 421.552†	76025.5	73492.3	523.66 ug/L	523.66 ppb	15:42:15
2	Sc 361.383	817598.5	817598.5	103.39 %		15:43:33
2	Y 371.029	724041.5	724041.5	102.41 %		15:43:33
2	Ag 328.068†	50821.8	48980.3	249.15 ug/L	249.15 ppb	15:43:33
2	As 188.979†	1099.6	1092.2	478.95 ug/L	478.95 ppb	15:43:53
2	B 249.677†	20913.7	20452.8	506.34 ug/L	506.34 ppb	15:43:33
2	Ba 233.527†	44725.1	43263.9	502.96 ug/L	502.96 ppb	15:43:33
2	Be 313.107†	661765.3	649416.8	255.18 ug/L	255.18 ppb	15:43:33
2	Cd 226.502†	36339.0	35331.1	485.57 ug/L	485.57 ppb	15:43:53
2	Co 228.616†	17630.2	17117.0	509.41 ug/L	509.41 ppb	15:43:53
2	Cr 267.716†	37337.9	36053.4	481.36 ug/L	481.36 ppb	15:43:33
2	Cu 324.752†	146854.3	134319.3	495.44 ug/L	495.44 ppb	15:43:33
2	Mn 257.610†	334036.3	322662.1	507.21 ug/L	507.21 ppb	15:43:33
2	Mo 202.031†	5989.9	5781.7	523.17 ug/L	523.17 ppb	15:43:53
2	Ni 231.604†	16509.8	15888.4	490.21 ug/L	490.21 ppb	15:43:53

2	P 214.914†	4957.4	4596.2	2396.9 ug/L	2396.9 ppb	15:43:53
2	Pb 220.353†	3165.0	3118.8	496.94 ug/L	496.94 ppb	15:43:53
2	S 181.975 Axial†	2063.1	1954.5	2426.9 ug/L	2426.9 ppb	15:43:53
2	Sb 206.836†	1328.1	1251.7	509.55 ug/L	509.55 ppb	15:43:53
2	Se 196.026†	4330.0	4207.1	2511.3 ug/L	2511.3 ppb	15:43:53
2	Si 251.611†	139061.6	133954.5	4770.8 ug/L	4770.8 ppb	15:43:33
2	Sn 189.927†	2378.2	2287.2	523.29 ug/L	523.29 ppb	15:43:53
2	Ti 334.940†	253512.9	246541.9	488.28 ug/L	488.28 ppb	15:43:33
2	Tl 190.801†	1147.3	1145.4	522.59 ug/L	522.59 ppb	15:43:53
2	U 409.014†	12074.8	14047.8	464.14 ug/L	464.14 ppb	15:43:33
2	V 292.402†	64191.6	63747.8	501.97 ug/L	501.97 ppb	15:43:33
2	Zn 213.857†	48674.7	46282.7	492.76 ug/L	492.76 ppb	15:43:33
2	SiO2†	142135.1	136918.1	10463 ug/L	10463 ppb	15:44:30
3	Sc Radial	4898.5	4898.5	103 %		15:42:40
3	Y RADIAL	5184.1	5184.1	102.9 %		15:42:40
3	Al 396.153Radial†	5426.8	5342.4	4866.3 ug/L	4866.3 ppb	15:42:40
3	Ca 317.933Radial†	2855.6	2749.5	4920.4 ug/L	4920.4 ppb	15:43:00
3	Fe 238.204 Radial†	507.9	485.0	5049.1 ug/L	5049.1 ppb	15:43:00
3	K 766.490 Radial†	15837.9	13044.2	2459.7 ug/L	2459.7 ppb	15:42:40
3	Mg 279.077 IEC†	138.7	132.3	5215.0 ug/L	5215.0 ppb	15:43:00
3	Na 589.592 Radial†	7365.7	7876.3	2396.7 ug/L	2396.7 ppb	15:42:40
3	Sr 421.552†	75943.0	73588.8	524.35 ug/L	524.35 ppb	15:42:40
3	Sc 361.383	814636.2	814636.2	103.01 %		15:43:59
3	Y 371.029	720999.8	720999.8	101.98 %		15:43:59
3	Ag 328.068†	50544.4	48889.7	248.67 ug/L	248.67 ppb	15:43:59
3	As 188.979†	1095.3	1091.8	478.75 ug/L	478.75 ppb	15:44:19
3	B 249.677†	20751.0	20368.4	504.24 ug/L	504.24 ppb	15:43:59
3	Ba 233.527†	44485.9	43188.9	502.09 ug/L	502.09 ppb	15:43:59
3	Be 313.107†	657290.6	647400.5	254.39 ug/L	254.39 ppb	15:43:59
3	Cd 226.502†	36487.2	35602.8	489.32 ug/L	489.32 ppb	15:44:19
3	Co 228.616†	17731.4	17277.2	514.19 ug/L	514.19 ppb	15:44:19
3	Cr 267.716†	37092.4	35946.4	479.93 ug/L	479.93 ppb	15:43:59
3	Cu 324.752†	145897.9	133907.3	493.91 ug/L	493.91 ppb	15:43:59
3	Mn 257.610†	332515.9	322360.9	506.73 ug/L	506.73 ppb	15:43:59
3	Mo 202.031†	6012.2	5824.4	527.03 ug/L	527.03 ppb	15:44:19
3	Ni 231.604†	16572.8	16007.6	493.89 ug/L	493.89 ppb	15:44:19
3	P 214.914†	4963.7	4619.7	2410.1 ug/L	2410.1 ppb	15:44:19
3	Pb 220.353†	3192.2	3156.3	502.91 ug/L	502.91 ppb	15:44:19
3	S 181.975 Axial†	2069.2	1967.6	2443.3 ug/L	2443.3 ppb	15:44:19
3	Sb 206.836†	1325.5	1253.9	510.55 ug/L	510.55 ppb	15:44:19
3	Se 196.026†	4378.2	4269.1	2548.0 ug/L	2548.0 ppb	15:44:19
3	Si 251.611†	138351.7	133754.4	4763.7 ug/L	4763.7 ppb	15:43:59
3	Sn 189.927†	2387.9	2305.0	527.37 ug/L	527.37 ppb	15:44:19
3	Ti 334.940†	252134.0	246095.0	487.40 ug/L	487.40 ppb	15:43:59
3	Tl 190.801†	1149.5	1151.5	525.32 ug/L	525.32 ppb	15:44:19
3	U 409.014†	12026.4	14043.3	464.00 ug/L	464.00 ppb	15:43:59
3	V 292.402†	63898.1	63688.7	501.58 ug/L	501.58 ppb	15:43:59
3	Zn 213.857†	48456.7	46242.3	492.31 ug/L	492.31 ppb	15:43:59
3	SiO2†	136914.7	132350.3	10113 ug/L	10113 ppb	15:44:35

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	817655.6	103.39 %	0.385			0.37%
Sc Radial	4932.3	104 %	1.0			0.99%
Y 371.029	724148.3	102.43 %	0.453			0.44%
Y RADIAL	5216.5	103.5 %	1.21			1.17%
Ag 328.068†	48887.5	248.67 ug/L	0.488	248.67 ppb	0.488	0.20%
QC value within limits for Ag 328.068 Recovery = 99.47%						
Al 396.153Radial†	5320.7	4846.6 ug/L	25.67	4846.6 ppb	25.67	0.53%
QC value within limits for Al 396.153Radial Recovery = 96.93%						
As 188.979†	1087.1	476.72 ug/L	3.697	476.72 ppb	3.697	0.78%
QC value within limits for As 188.979 Recovery = 95.34%						
B 249.677†	20406.1	505.19 ug/L	1.067	505.19 ppb	1.067	0.21%
QC value within limits for B 249.677 Recovery = 101.04%						
Ba 233.527†	43176.8	501.95 ug/L	1.089	501.95 ppb	1.089	0.22%
QC value within limits for Ba 233.527 Recovery = 100.39%						
Be 313.107†	648787.4	254.94 ug/L	0.471	254.94 ppb	0.471	0.18%
QC value within limits for Be 313.107 Recovery = 101.97%						
Ca 317.933Radial†	2732.2	4889.3 ug/L	32.01	4889.3 ppb	32.01	0.65%

QC value within limits for Ca 317.933 Radial Recovery = 97.79%

Cd 226.502†	35388.3	486.36 ug/L	2.646	486.36 ppb	2.646	0.54%
QC value within limits for Cd 226.502 Recovery = 97.27%						
Co 228.616†	17151.4	510.44 ug/L	3.358	510.44 ppb	3.358	0.66%
QC value within limits for Co 228.616 Recovery = 102.09%						
Cr 267.716†	35998.5	480.63 ug/L	0.715	480.63 ppb	0.715	0.15%
QC value within limits for Cr 267.716 Recovery = 96.13%						
Cu 324.752†	134038.3	494.40 ug/L	0.900	494.40 ppb	0.900	0.18%
QC value within limits for Cu 324.752 Recovery = 98.88%						
Fe 238.204 Radial†	485.6	5054.9 ug/L	50.76	5054.9 ppb	50.76	1.00%
QC value within limits for Fe 238.204 Radial Recovery = 101.10%						
K 766.490 Radial†	12984.9	2448.6 ug/L	12.32	2448.6 ppb	12.32	0.50%
QC value within limits for K 766.490 Radial Recovery = 97.94%						
Mg 279.077 IEC†	131.4	5179.5 ug/L	75.02	5179.5 ppb	75.02	1.45%
QC value within limits for Mg 279.077 IEC Recovery = 103.59%						
Mn 257.610†	322271.5	506.60 ug/L	0.696	506.60 ppb	0.696	0.14%
QC value within limits for Mn 257.610 Recovery = 101.32%						
Mo 202.031†	5785.0	523.47 ug/L	3.422	523.47 ppb	3.422	0.65%
QC value within limits for Mo 202.031 Recovery = 104.69%						
Na 589.592 Radial†	7966.0	2423.9 ug/L	23.70	2423.9 ppb	23.70	0.98%
QC value within limits for Na 589.592 Radial Recovery = 96.96%						
Ni 231.604†	15913.1	490.97 ug/L	2.622	490.97 ppb	2.622	0.53%
QC value within limits for Ni 231.604 Recovery = 98.19%						
P 214.914†	4592.2	2395.0 ug/L	16.12	2395.0 ppb	16.12	0.67%
QC value within limits for P 214.914 Recovery = 95.80%						
Pb 220.353†	3129.2	498.58 ug/L	3.784	498.58 ppb	3.784	0.76%
QC value within limits for Pb 220.353 Recovery = 99.72%						
S 181.975 Axial†	1959.4	2433.1 ug/L	8.88	2433.1 ppb	8.88	0.37%
QC value within limits for S 181.975 Axial Recovery = 97.32%						
Sb 206.836†	1249.9	508.84 ug/L	2.149	508.84 ppb	2.149	0.42%
QC value within limits for Sb 206.836 Recovery = 101.77%						
Se 196.026†	4231.2	2525.5 ug/L	19.69	2525.5 ppb	19.69	0.78%
QC value within limits for Se 196.026 Recovery = 101.02%						
Si 251.611†	133794.2	4765.1 ug/L	5.15	4765.1 ppb	5.15	0.11%
QC value within limits for Si 251.611 Recovery = 95.30%						
Sn 189.927†	2289.7	523.87 ug/L	3.257	523.87 ppb	3.257	0.62%
QC value within limits for Sn 189.927 Recovery = 104.77%						
Sr 421.552†	73542.8	524.02 ug/L	0.345	524.02 ppb	0.345	0.07%
QC value within limits for Sr 421.552 Recovery = 104.80%						
Ti 334.940†	246137.2	487.48 ug/L	0.760	487.48 ppb	0.760	0.16%
QC value within limits for Ti 334.940 Recovery = 97.50%						
Tl 190.801†	1143.8	521.82 ug/L	3.949	521.82 ppb	3.949	0.76%
QC value within limits for Tl 190.801 Recovery = 104.36%						
U 409.014†	14035.8	463.75 ug/L	0.559	463.75 ppb	0.559	0.12%
QC value within limits for U 409.014 Recovery = 92.75%						
V 292.402†	63703.2	501.64 ug/L	0.310	501.64 ppb	0.310	0.06%
QC value within limits for V 292.402 Recovery = 100.33%						
Zn 213.857†	46237.1	492.27 ug/L	0.505	492.27 ppb	0.505	0.10%
QC value within limits for Zn 213.857 Recovery = 98.45%						
SiO2†	134862.9	10306 ug/L	177.4	10306 ppb	177.4	1.72%
QC value within limits for SiO2 Recovery = 96.36%						

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/4/2010 15:46:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4835.2	4835.2	102 %		15:48:39
1	Y RADIAL	5137.4	5137.4	101.9 %		15:48:39
1	Al 396.153Radial†	-68.9	14.8	13.537 ug/L	13.537 ppb	15:48:59
1	Ca 317.933Radial†	60.2	40.8	73.057 ug/L	73.057 ppb	15:48:59
1	Fe 238.204 Radial†	6.8	-0.6	-6.0410 ug/L	-6.0410 ppb	15:48:59
1	K 766.490 Radial†	2387.7	37.8	7.1149 ug/L	7.1149 ppb	15:48:39
1	Mg 279.077 IEC†	-1.3	-3.3	-131.94 ug/L	-131.94 ppb	15:48:59
1	Na 589.592 Radial†	-690.6	58.9	17.931 ug/L	17.931 ppb	15:48:39
1	Sr 421.552†	59.4	39.4	0.2800 ug/L	0.2800 ppb	15:48:39
1	Sc 361.383	810061.5	810061.5	102.43 %		15:49:56
1	Y 371.029	728051.4	728051.4	102.98 %		15:49:56
1	Ag 328.068†	206.3	24.9	0.1217 ug/L	0.1217 ppb	15:49:56
1	As 188.979†	-40.4	-10.9	-4.7180 ug/L	-4.7180 ppb	15:50:16
1	B 249.677†	-49.2	176.3	4.3832 ug/L	4.3832 ppb	15:50:16
1	Ba 233.527†	7.8	11.6	0.1348 ug/L	0.1348 ppb	15:50:16
1	Be 313.107†	-9225.1	326.6	0.1285 ug/L	0.1285 ppb	15:49:56
1	Cd 226.502†	-166.5	20.1	0.2770 ug/L	0.2770 ppb	15:50:16
1	Co 228.616†	-54.4	11.3	0.3362 ug/L	0.3362 ppb	15:50:16
1	Cr 267.716†	65.3	2.5	0.0328 ug/L	0.0328 ppb	15:50:16
1	Cu 324.752†	7998.0	84.2	0.3095 ug/L	0.3095 ppb	15:49:56
1	Mn 257.610†	607.0	162.1	0.2594 ug/L	0.2594 ppb	15:50:16
1	Mo 202.031†	17.4	5.0	0.4549 ug/L	0.4549 ppb	15:50:16
1	Ni 231.604†	79.8	-2.6	-0.0798 ug/L	-0.0798 ppb	15:50:16
1	P 214.914†	208.5	4.7	2.4883 ug/L	2.4883 ppb	15:50:16
1	Pb 220.353†	-48.6	10.1	1.6053 ug/L	1.6053 ppb	15:50:16
1	S 181.975 Axial†	42.8	0.7	0.9249 ug/L	0.9249 ppb	15:50:16
1	Sb 206.836†	40.3	6.5	2.5430 ug/L	2.5430 ppb	15:50:16
1	Se 196.026†	-21.5	-2.0	-1.2007 ug/L	-1.2007 ppb	15:50:16
1	Si 251.611†	845.6	274.3	9.7782 ug/L	9.7782 ppb	15:50:16
1	Sn 189.927†	10.6	-2.8	-0.6177 ug/L	-0.6177 ppb	15:50:16
1	Ti 334.940†	-1212.5	151.0	0.3192 ug/L	0.3192 ppb	15:49:56
1	Tl 190.801†	-34.4	2.1	0.9479 ug/L	0.9479 ppb	15:50:16
1	U 409.014†	-2388.6	36.7	1.2189 ug/L	1.2189 ppb	15:49:56
1	V 292.402†	-1682.4	16.9	0.1381 ug/L	0.1381 ppb	15:49:56
1	Zn 213.857†	1169.8	344.7	3.7046 ug/L	3.7046 ppb	15:50:16
1	SiO2†	854.7	274.1	20.961 ug/L	20.961 ppb	15:51:12
2	Sc Radial	4828.6	4828.6	102 %		15:49:04
2	Y RADIAL	5121.8	5121.8	101.6 %		15:49:04
2	Al 396.153Radial†	-68.8	14.9	13.583 ug/L	13.583 ppb	15:49:24
2	Ca 317.933Radial†	64.8	45.5	81.406 ug/L	81.406 ppb	15:49:24
2	Fe 238.204 Radial†	9.1	1.7	17.136 ug/L	17.136 ppb	15:49:24
2	K 766.490 Radial†	2398.9	52.0	9.7957 ug/L	9.7957 ppb	15:49:04
2	Mg 279.077 IEC†	-2.3	-4.3	-170.93 ug/L	-170.93 ppb	15:49:24
2	Na 589.592 Radial†	-714.9	34.1	10.376 ug/L	10.376 ppb	15:49:04
2	Sr 421.552†	33.6	14.1	0.1002 ug/L	0.1002 ppb	15:49:04
2	Sc 361.383	801135.0	801135.0	101.31 %		15:50:21
2	Y 371.029	718298.5	718298.5	101.60 %		15:50:21
2	Ag 328.068†	216.5	37.2	0.1921 ug/L	0.1921 ppb	15:50:21
2	As 188.979†	-20.7	8.2	3.5480 ug/L	3.5480 ppb	15:50:41
2	B 249.677†	-76.7	148.6	3.6919 ug/L	3.6919 ppb	15:50:41
2	Ba 233.527†	4.2	8.1	0.0955 ug/L	0.0955 ppb	15:50:41
2	Be 313.107†	-9267.2	184.7	0.0725 ug/L	0.0725 ppb	15:50:21
2	Cd 226.502†	-188.3	-3.2	-0.0455 ug/L	-0.0455 ppb	15:50:41
2	Co 228.616†	-65.9	-0.7	-0.0191 ug/L	-0.0191 ppb	15:50:41
2	Cr 267.716†	81.9	19.6	0.2625 ug/L	0.2625 ppb	15:50:41
2	Cu 324.752†	7922.8	97.0	0.3586 ug/L	0.3586 ppb	15:50:21
2	Mn 257.610†	578.8	140.9	0.2300 ug/L	0.2300 ppb	15:50:41
2	Mo 202.031†	17.6	5.3	0.4860 ug/L	0.4860 ppb	15:50:41
2	Ni 231.604†	106.0	24.2	0.7461 ug/L	0.7461 ppb	15:50:41

2	P 214.914†	204.1	2.6	1.3723 ug/L	1.3723 ppb	15:50:41
2	Pb 220.353†	-53.2	5.0	0.8012 ug/L	0.8012 ppb	15:50:41
2	S 181.975 Axial†	49.4	7.7	9.5948 ug/L	9.5948 ppb	15:50:41
2	Sb 206.836†	39.9	6.5	2.5940 ug/L	2.5940 ppb	15:50:41
2	Se 196.026†	-19.6	-0.4	-0.2115 ug/L	-0.2115 ppb	15:50:41
2	Si 251.611†	837.0	275.0	9.8031 ug/L	9.8031 ppb	15:50:41
2	Sn 189.927†	21.3	8.0	1.8317 ug/L	1.8317 ppb	15:50:41
2	Ti 334.940†	-1312.4	39.2	0.1025 ug/L	0.1025 ppb	15:50:21
2	Tl 190.801†	-26.9	9.2	4.1576 ug/L	4.1576 ppb	15:50:41
2	U 409.014†	-2399.1	0.4	0.0100 ug/L	0.0100 ppb	15:50:21
2	V 292.402†	-1650.8	29.8	0.2322 ug/L	0.2322 ppb	15:50:21
2	Zn 213.857†	1157.4	345.2	3.7017 ug/L	3.7017 ppb	15:50:41
2	SiO2†	862.8	291.3	22.279 ug/L	22.279 ppb	15:51:17
3	Sc Radial	4855.7	4855.7	102 %		15:49:29
3	Y RADIAL	5159.0	5159.0	102.4 %		15:49:29
3	Al 396.153Radial†	-58.7	25.1	22.917 ug/L	22.917 ppb	15:49:49
3	Ca 317.933Radial†	53.9	34.4	61.605 ug/L	61.605 ppb	15:49:49
3	Fe 238.204 Radial†	9.9	2.4	24.762 ug/L	24.762 ppb	15:49:49
3	K 766.490 Radial†	2384.2	24.5	4.5988 ug/L	4.5988 ppb	15:49:29
3	Mg 279.077 IEC†	0.5	-1.6	-63.817 ug/L	-63.817 ppb	15:49:49
3	Na 589.592 Radial†	-732.1	21.2	6.4555 ug/L	6.4555 ppb	15:49:29
3	Sr 421.552†	-4.5	-23.3	-0.1665 ug/L	-0.1665 ppb	15:49:29
3	Sc 361.383	795590.6	795590.6	100.60 %		15:50:47
3	Y 371.029	713000.1	713000.1	100.85 %		15:50:47
3	Ag 328.068†	254.0	76.0	0.3897 ug/L	0.3897 ppb	15:50:47
3	As 188.979†	-22.7	6.0	2.6182 ug/L	2.6182 ppb	15:51:07
3	B 249.677†	-113.3	111.6	2.7696 ug/L	2.7696 ppb	15:51:07
3	Ba 233.527†	6.6	10.5	0.1238 ug/L	0.1238 ppb	15:51:07
3	Be 313.107†	-9143.6	243.8	0.0956 ug/L	0.0956 ppb	15:50:47
3	Cd 226.502†	-165.2	18.4	0.2509 ug/L	0.2509 ppb	15:51:07
3	Co 228.616†	-47.8	16.9	0.5048 ug/L	0.5048 ppb	15:51:07
3	Cr 267.716†	75.6	13.9	0.1865 ug/L	0.1865 ppb	15:51:07
3	Cu 324.752†	7880.9	109.8	0.4063 ug/L	0.4063 ppb	15:50:47
3	Mn 257.610†	597.5	163.4	0.2618 ug/L	0.2618 ppb	15:51:07
3	Mo 202.031†	28.4	16.2	1.4696 ug/L	1.4696 ppb	15:51:07
3	Ni 231.604†	89.8	8.8	0.2715 ug/L	0.2715 ppb	15:51:07
3	P 214.914†	209.4	9.4	4.9753 ug/L	4.9753 ppb	15:51:07
3	Pb 220.353†	-74.4	-16.4	-2.6010 ug/L	-2.6010 ppb	15:51:07
3	S 181.975 Axial†	42.5	1.2	1.5008 ug/L	1.5008 ppb	15:51:07
3	Sb 206.836†	30.2	-2.8	-1.0842 ug/L	-1.0842 ppb	15:51:07
3	Se 196.026†	-25.0	-5.8	-3.4099 ug/L	-3.4099 ppb	15:51:07
3	Si 251.611†	837.6	281.5	10.019 ug/L	10.019 ppb	15:51:07
3	Sn 189.927†	11.7	-1.4	-0.3106 ug/L	-0.3106 ppb	15:51:07
3	Ti 334.940†	-1286.3	56.2	0.1245 ug/L	0.1245 ppb	15:50:47
3	Tl 190.801†	-30.5	5.4	2.4566 ug/L	2.4566 ppb	15:51:07
3	U 409.014†	-2371.8	11.1	0.3633 ug/L	0.3633 ppb	15:50:47
3	V 292.402†	-1628.0	41.1	0.3359 ug/L	0.3359 ppb	15:50:47
3	Zn 213.857†	1166.6	362.3	3.8867 ug/L	3.8867 ppb	15:51:07
3	SiO2†	832.4	267.1	20.399 ug/L	20.399 ppb	15:51:22

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	802262.4	101.45 %	0.923			0.91%
Sc Radial	4839.8	102 %	0.3			0.29%
Y 371.029	719783.3	101.81 %	1.080			1.06%
Y RADIAL	5139.4	102.0 %	0.37			0.36%
Ag 328.068†	46.1	0.2345 ug/L	0.13892	0.2345 ppb	0.13892	59.24%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	18.3	16.679 ug/L	5.4023	16.679 ppb	5.4023	32.39%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.1	0.4827 ug/L	4.52788	0.4827 ppb	4.52788	938.01%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	145.5	3.6149 ug/L	0.80955	3.6149 ppb	0.80955	22.39%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.1	0.1180 ug/L	0.02031	0.1180 ppb	0.02031	17.20%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	251.7	0.0989 ug/L	0.02814	0.0989 ppb	0.02814	28.47%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	40.2	72.023 ug/L	9.9411	72.023 ppb	9.9411	13.80%

Cd	QC value within limits for Ca 317.933 Radial	Recovery = Not calculated			
226.502†	11.8	0.1608 ug/L	0.17917	0.1608 ppb	0.17917 111.42%
Co	QC value within limits for Cd 226.502	Recovery = Not calculated			
228.616†	9.2	0.2740 ug/L	0.26745	0.2740 ppb	0.26745 97.61%
Cr	QC value within limits for Co 228.616	Recovery = Not calculated			
267.716†	12.0	0.1606 ug/L	0.11703	0.1606 ppb	0.11703 72.87%
Cu	QC value within limits for Cr 267.716	Recovery = Not calculated			
324.752†	97.0	0.3581 ug/L	0.04836	0.3581 ppb	0.04836 13.50%
Fe	QC value within limits for Cu 324.752	Recovery = Not calculated			
238.204 Radial†	1.2	11.952 ug/L	16.0423	11.952 ppb	16.0423 134.22%
K	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
766.490 Radial†	38.1	7.1698 ug/L	2.59887	7.1698 ppb	2.59887 36.25%
Mg	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
279.077 IEC†	-3.1	-122.23 ug/L	54.213	-122.23 ppb	54.213 44.35%
Mn	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
257.610†	155.5	0.2504 ug/L	0.01769	0.2504 ppb	0.01769 7.06%
Mo	QC value within limits for Mn 257.610	Recovery = Not calculated			
202.031†	8.9	0.8035 ug/L	0.57710	0.8035 ppb	0.57710 71.82%
Na	QC value within limits for Mo 202.031	Recovery = Not calculated			
589.592 Radial†	38.1	11.587 ug/L	5.8326	11.587 ppb	5.8326 50.34%
Ni	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
231.604†	10.1	0.3126 ug/L	0.41445	0.3126 ppb	0.41445 132.57%
P	QC value within limits for Ni 231.604	Recovery = Not calculated			
214.914†	5.6	2.9453 ug/L	1.84451	2.9453 ppb	1.84451 62.63%
Pb	QC value within limits for P 214.914	Recovery = Not calculated			
220.353†	-0.4	-0.0648 ug/L	2.23286	-0.0648 ppb	2.23286 >999.9%
S	QC value within limits for Pb 220.353	Recovery = Not calculated			
181.975 Axial†	3.2	4.0069 ug/L	4.84788	4.0069 ppb	4.84788 120.99%
Sb	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
206.836†	3.4	1.3509 ug/L	2.10907	1.3509 ppb	2.10907 156.12%
Se	QC value within limits for Sb 206.836	Recovery = Not calculated			
196.026†	-2.8	-1.6074 ug/L	1.63753	-1.6074 ppb	1.63753 101.88%
Si	QC value within limits for Se 196.026	Recovery = Not calculated			
251.611†	276.9	9.8669 ug/L	0.13271	9.8669 ppb	0.13271 1.35%
Sn	QC value within limits for Si 251.611	Recovery = Not calculated			
189.927†	1.3	0.3011 ug/L	1.33439	0.3011 ppb	1.33439 443.16%
Sr	QC value within limits for Sn 189.927	Recovery = Not calculated			
421.552†	10.1	0.0712 ug/L	0.22465	0.0712 ppb	0.22465 315.36%
Ti	QC value within limits for Sr 421.552	Recovery = Not calculated			
334.940†	82.1	0.1821 ug/L	0.11927	0.1821 ppb	0.11927 65.50%
Tl	QC value within limits for Ti 334.940	Recovery = Not calculated			
190.801†	5.6	2.5207 ug/L	1.60584	2.5207 ppb	1.60584 63.71%
U	QC value within limits for Tl 190.801	Recovery = Not calculated			
409.014†	16.1	0.5307 ug/L	0.62159	0.5307 ppb	0.62159 117.12%
V	QC value within limits for U 409.014	Recovery = Not calculated			
292.402†	29.3	0.2354 ug/L	0.09891	0.2354 ppb	0.09891 42.02%
Zn	QC value within limits for V 292.402	Recovery = Not calculated			
213.857†	350.7	3.7643 ug/L	0.10601	3.7643 ppb	0.10601 2.82%
SiO2†	QC value within limits for Zn 213.857	Recovery = Not calculated			
	277.5	21.213 ug/L	0.9649	21.213 ppb	0.9649 4.55%
	QC value within limits for SiO2	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 3/4/2010 15:53:33

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4875.4	4875.4	103 %			15:55:27
1	Y RADIAL	5161.6	5161.6	102.4 %			15:55:27
1	Al 396.153Radial†	143.7	222.4	203.13 ug/L		203.13 ppb	15:55:47
1	Ca 317.933Radial†	135.8	114.0	203.92 ug/L		203.92 ppb	15:55:47
1	Fe 238.204 Radial†	17.9	10.2	105.97 ug/L		105.97 ppb	15:55:47
1	K 766.490 Radial†	3150.1	761.0	143.51 ug/L		143.51 ppb	15:55:27
1	Mg 279.077 IEC†	10.8	8.4	332.04 ug/L		332.04 ppb	15:55:47
1	Na 589.592 Radial†	224.9	956.1	290.92 ug/L		290.92 ppb	15:55:27
1	Sr 421.552†	763.3	724.4	5.1602 ug/L		5.1602 ppb	15:55:27
1	Sc 361.383	799952.9	799952.9	101.16 %			15:56:44
1	Y 371.029	716565.4	716565.4	101.35 %			15:56:44
1	Ag 328.068†	1229.2	1038.7	5.2272 ug/L		5.2272 ppb	15:56:44
1	As 188.979†	27.8	56.1	24.451 ug/L		24.451 ppb	15:57:04
1	B 249.677†	1809.4	2013.0	50.028 ug/L		50.028 ppb	15:56:44
1	Ba 233.527†	439.4	438.4	5.0984 ug/L		5.0984 ppb	15:57:04
1	Be 313.107†	3295.2	12590.0	4.9374 ug/L		4.9374 ppb	15:56:44
1	Cd 226.502†	179.8	360.4	4.9555 ug/L		4.9555 ppb	15:57:04
1	Co 228.616†	105.9	169.0	5.0405 ug/L		5.0405 ppb	15:57:04
1	Cr 267.716†	445.0	378.7	5.0397 ug/L		5.0397 ppb	15:57:04
1	Cu 324.752†	10521.9	2677.9	9.8559 ug/L		9.8559 ppb	15:56:44
1	Mn 257.610†	7101.5	6589.9	10.350 ug/L		10.350 ppb	15:56:44
1	Mo 202.031†	126.4	113.0	10.227 ug/L		10.227 ppb	15:57:04
1	Ni 231.604†	240.3	157.0	4.8446 ug/L		4.8446 ppb	15:57:04
1	P 214.914†	493.2	288.7	154.72 ug/L		154.72 ppb	15:57:04
1	Pb 220.353†	-6.1	51.5	8.2376 ug/L		8.2376 ppb	15:57:04
1	S 181.975 Axial†	128.8	86.3	107.18 ug/L		107.18 ppb	15:57:04
1	Sb 206.836†	56.7	23.2	9.4342 ug/L		9.4342 ppb	15:57:04
1	Se 196.026†	31.7	50.3	30.169 ug/L		30.169 ppb	15:57:04
1	Si 251.611†	3277.6	2689.0	95.775 ug/L		95.775 ppb	15:57:04
1	Sn 189.927†	51.3	37.6	8.6245 ug/L		8.6245 ppb	15:57:04
1	Ti 334.940†	1285.1	2605.2	5.1383 ug/L		5.1383 ppb	15:56:44
1	Tl 190.801†	7.5	43.1	19.593 ug/L		19.593 ppb	15:57:04
1	U 409.014†	-913.7	1465.3	48.564 ug/L		48.564 ppb	15:56:44
1	V 292.402†	-1039.4	631.8	5.1270 ug/L		5.1270 ppb	15:56:44
1	Zn 213.857†	1667.1	850.8	9.0820 ug/L		9.0820 ppb	15:57:04
1	SiO2†	3451.8	2852.1	217.97 ug/L		217.97 ppb	15:58:00
2	Sc Radial	4872.2	4872.2	103 %			15:55:52
2	Y RADIAL	5155.3	5155.3	102.3 %			15:55:52
2	Al 396.153Radial†	145.5	224.3	204.90 ug/L		204.90 ppb	15:56:12
2	Ca 317.933Radial†	137.6	115.8	207.27 ug/L		207.27 ppb	15:56:12
2	Fe 238.204 Radial†	17.6	9.9	102.82 ug/L		102.82 ppb	15:56:12
2	K 766.490 Radial†	3224.4	835.3	157.53 ug/L		157.53 ppb	15:55:52
2	Mg 279.077 IEC†	9.0	6.7	263.15 ug/L		263.15 ppb	15:56:12
2	Na 589.592 Radial†	288.9	1018.6	309.96 ug/L		309.96 ppb	15:55:52
2	Sr 421.552†	740.3	702.5	5.0044 ug/L		5.0044 ppb	15:55:52
2	Sc 361.383	792346.5	792346.5	100.19 %			15:57:09
2	Y 371.029	709624.0	709624.0	100.37 %			15:57:09
2	Ag 328.068†	1210.8	1032.0	5.1823 ug/L		5.1823 ppb	15:57:09
2	As 188.979†	27.5	56.0	24.406 ug/L		24.406 ppb	15:57:29
2	B 249.677†	1733.2	1954.1	48.564 ug/L		48.564 ppb	15:57:09
2	Ba 233.527†	448.3	451.5	5.2474 ug/L		5.2474 ppb	15:57:29
2	Be 313.107†	3278.4	12604.6	4.9427 ug/L		4.9427 ppb	15:57:09
2	Cd 226.502†	173.7	356.0	4.8969 ug/L		4.8969 ppb	15:57:29
2	Co 228.616†	109.5	173.6	5.1778 ug/L		5.1778 ppb	15:57:29
2	Cr 267.716†	438.6	376.6	5.0065 ug/L		5.0065 ppb	15:57:29
2	Cu 324.752†	10313.3	2569.6	9.4517 ug/L		9.4517 ppb	15:57:09
2	Mn 257.610†	7035.6	6591.6	10.355 ug/L		10.355 ppb	15:57:09
2	Mo 202.031†	125.2	113.0	10.224 ug/L		10.224 ppb	15:57:29
2	Ni 231.604†	236.0	155.0	4.7836 ug/L		4.7836 ppb	15:57:29

2	P 214.914†	493.0	293.3	157.27 ug/L	157.27 ppb	15:57:29
2	Pb 220.353†	-7.1	50.5	8.0739 ug/L	8.0739 ppb	15:57:29
2	S 181.975 Axial†	121.5	80.2	99.598 ug/L	99.598 ppb	15:57:29
2	Sb 206.836†	46.0	13.0	5.4718 ug/L	5.4718 ppb	15:57:29
2	Se 196.026†	39.2	58.1	34.749 ug/L	34.749 ppb	15:57:29
2	Si 251.611†	3284.0	2726.5	97.110 ug/L	97.110 ppb	15:57:29
2	Sn 189.927†	58.9	45.7	10.478 ug/L	10.478 ppb	15:57:29
2	Ti 334.940†	1185.6	2518.0	4.9681 ug/L	4.9681 ppb	15:57:09
2	Tl 190.801†	8.6	44.3	20.125 ug/L	20.125 ppb	15:57:29
2	U 409.014†	-656.7	1713.1	56.781 ug/L	56.781 ppb	15:57:09
2	V 292.402†	-1140.4	521.1	4.2828 ug/L	4.2828 ppb	15:57:09
2	Zn 213.857†	1678.6	878.1	9.3762 ug/L	9.3762 ppb	15:57:29
2	SiO2†	3438.5	2871.5	219.46 ug/L	219.46 ppb	15:58:05
3	Sc Radial	4810.5	4810.5	101 %		15:56:17
3	Y RADIAL	5095.1	5095.1	101.1 %		15:56:17
3	Al 396.153Radial†	137.1	217.8	198.91 ug/L	198.91 ppb	15:56:37
3	Ca 317.933Radial†	127.9	108.0	193.27 ug/L	193.27 ppb	15:56:37
3	Fe 238.204 Radial†	17.5	10.0	104.36 ug/L	104.36 ppb	15:56:37
3	K 766.490 Radial†	3279.7	930.3	175.48 ug/L	175.48 ppb	15:56:17
3	Mg 279.077 IEC†	8.4	6.2	244.26 ug/L	244.26 ppb	15:56:37
3	Na 589.592 Radial†	189.4	924.1	281.18 ug/L	281.18 ppb	15:56:17
3	Sr 421.552†	742.7	714.1	5.0872 ug/L	5.0872 ppb	15:56:17
3	Sc 361.383	805675.7	805675.7	101.88 %		15:57:34
3	Y 371.029	721679.7	721679.7	102.08 %		15:57:34
3	Ag 328.068†	1180.0	981.7	4.9381 ug/L	4.9381 ppb	15:57:34
3	As 188.979†	39.2	67.1	29.197 ug/L	29.197 ppb	15:57:54
3	B 249.677†	1760.4	1952.2	48.516 ug/L	48.516 ppb	15:57:34
3	Ba 233.527†	444.9	440.7	5.1241 ug/L	5.1241 ppb	15:57:54
3	Be 313.107†	3144.5	12419.0	4.8704 ug/L	4.8704 ppb	15:57:34
3	Cd 226.502†	194.7	373.7	5.1402 ug/L	5.1402 ppb	15:57:54
3	Co 228.616†	106.1	168.5	5.0232 ug/L	5.0232 ppb	15:57:54
3	Cr 267.716†	444.3	374.9	4.9875 ug/L	4.9875 ppb	15:57:54
3	Cu 324.752†	10579.0	2660.0	9.7888 ug/L	9.7888 ppb	15:57:34
3	Mn 257.610†	7175.7	6612.8	10.389 ug/L	10.389 ppb	15:57:34
3	Mo 202.031†	123.2	108.9	9.8571 ug/L	9.8571 ppb	15:57:54
3	Ni 231.604†	249.0	164.0	5.0591 ug/L	5.0591 ppb	15:57:54
3	P 214.914†	494.5	286.6	153.58 ug/L	153.58 ppb	15:57:54
3	Pb 220.353†	5.8	63.2	10.090 ug/L	10.090 ppb	15:57:54
3	S 181.975 Axial†	121.4	78.1	97.006 ug/L	97.006 ppb	15:57:54
3	Sb 206.836†	57.8	23.9	9.7412 ug/L	9.7412 ppb	15:57:54
3	Se 196.026†	35.8	54.1	32.382 ug/L	32.382 ppb	15:57:54
3	Si 251.611†	3304.0	2691.9	95.882 ug/L	95.882 ppb	15:57:54
3	Sn 189.927†	62.9	48.6	11.146 ug/L	11.146 ppb	15:57:54
3	Ti 334.940†	1283.8	2594.9	5.1227 ug/L	5.1227 ppb	15:57:34
3	Tl 190.801†	1.9	37.6	17.098 ug/L	17.098 ppb	15:57:54
3	U 409.014†	-855.0	1529.4	50.689 ug/L	50.689 ppb	15:57:34
3	V 292.402†	-1083.3	596.0	4.8469 ug/L	4.8469 ppb	15:57:34
3	Zn 213.857†	1675.2	847.1	9.0405 ug/L	9.0405 ppb	15:57:54
3	SiO2†	3428.7	2805.1	214.38 ug/L	214.38 ppb	15:58:10

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	799325.1	101.08 %	0.846			0.84%
Sc Radial	4852.7	102 %	0.8			0.75%
Y 371.029	715956.4	101.27 %	0.856			0.85%
Y RADIAL	5137.4	101.9 %	0.73			0.72%
Ag 328.068†	1017.5	5.1159 ug/L	0.15563	5.1159 ppb	0.15563	3.04%
QC value within limits for Ag 328.068 Recovery = 102.32%						
Al 396.153Radial†	221.5	202.31 ug/L	3.077	202.31 ppb	3.077	1.52%
QC value within limits for Al 396.153Radial Recovery = 101.16%						
As 188.979†	59.8	26.018 ug/L	2.7533	26.018 ppb	2.7533	10.58%
QC value within limits for As 188.979 Recovery = 86.73%						
B 249.677†	1973.1	49.036 ug/L	0.8592	49.036 ppb	0.8592	1.75%
QC value within limits for B 249.677 Recovery = 98.07%						
Ba 233.527†	443.5	5.1566 ug/L	0.07966	5.1566 ppb	0.07966	1.54%
QC value within limits for Ba 233.527 Recovery = 103.13%						
Be 313.107†	12537.9	4.9168 ug/L	0.04027	4.9168 ppb	0.04027	0.82%
QC value within limits for Be 313.107 Recovery = 98.34%						
Ca 317.933Radial†	112.6	201.48 ug/L	7.311	201.48 ppb	7.311	3.63%

QC value within limits for Ca 317.933 Radial Recovery = 100.74%

Cd 226.502† 363.4 4.9976 ug/L 0.12698 4.9976 ppb 0.12698 2.54%

QC value within limits for Cd 226.502 Recovery = 99.95%

Co 228.616† 170.4 5.0805 ug/L 0.08467 5.0805 ppb 0.08467 1.67%

QC value within limits for Co 228.616 Recovery = 101.61%

Cr 267.716† 376.7 5.0113 ug/L 0.02643 5.0113 ppb 0.02643 0.53%

QC value within limits for Cr 267.716 Recovery = 100.23%

Cu 324.752† 2635.8 9.6988 ug/L 0.21663 9.6988 ppb 0.21663 2.23%

QC value within limits for Cu 324.752 Recovery = 96.99%

Fe 238.204 Radial† 10.0 104.38 ug/L 1.576 104.38 ppb 1.576 1.51%

QC value within limits for Fe 238.204 Radial Recovery = 104.38%

K 766.490 Radial† 842.2 158.84 ug/L 16.024 158.84 ppb 16.024 10.09%

QC value within limits for K 766.490 Radial Recovery = 105.89%

Mg 279.077 IEC† 7.1 279.82 ug/L 46.205 279.82 ppb 46.205 16.51%

QC value within limits for Mg 279.077 IEC Recovery = 93.27%

Mn 257.610† 6598.1 10.365 ug/L 0.0214 10.365 ppb 0.0214 0.21%

QC value within limits for Mn 257.610 Recovery = 103.65%

Mo 202.031† 111.6 10.103 ug/L 0.2127 10.103 ppb 0.2127 2.11%

QC value within limits for Mo 202.031 Recovery = 101.03%

Na 589.592 Radial† 966.2 294.02 ug/L 14.639 294.02 ppb 14.639 4.98%

QC value within limits for Na 589.592 Radial Recovery = 98.01%

Ni 231.604† 158.7 4.8957 ug/L 0.14472 4.8957 ppb 0.14472 2.96%

QC value within limits for Ni 231.604 Recovery = 97.91%

P 214.914† 289.5 155.19 ug/L 1.890 155.19 ppb 1.890 1.22%

QC value within limits for P 214.914 Recovery = 103.46%

Pb 220.353† 55.0 8.8005 ug/L 1.11979 8.8005 ppb 1.11979 12.72%

QC value within limits for Pb 220.353 Recovery = 88.01%

S 181.975 Axial† 81.5 101.26 ug/L 5.289 101.26 ppb 5.289 5.22%

QC value within limits for S 181.975 Axial Recovery = 101.26%

Sb 206.836† 20.0 8.2157 ug/L 2.38125 8.2157 ppb 2.38125 28.98%

QC value within limits for Sb 206.836 Recovery = 82.16%

Se 196.026† 54.2 32.434 ug/L 2.2904 32.434 ppb 2.2904 7.06%

QC value within limits for Se 196.026 Recovery = 108.11%

Si 251.611† 2702.5 96.256 ug/L 0.7421 96.256 ppb 0.7421 0.77%

QC value within limits for Si 251.611 Recovery = 96.26%

Sn 189.927† 44.0 10.083 ug/L 1.3065 10.083 ppb 1.3065 12.96%

QC value within limits for Sn 189.927 Recovery = 100.83%

Sr 421.552† 713.7 5.0840 ug/L 0.07796 5.0840 ppb 0.07796 1.53%

QC value within limits for Sr 421.552 Recovery = 101.68%

Ti 334.940† 2572.7 5.0763 ug/L 0.09410 5.0763 ppb 0.09410 1.85%

QC value within limits for Ti 334.940 Recovery = 101.53%

Tl 190.801† 41.6 18.939 ug/L 1.6160 18.939 ppb 1.6160 8.53%

QC value within limits for Tl 190.801 Recovery = 94.69%

U 409.014† 1569.3 52.011 ug/L 4.2654 52.011 ppb 4.2654 8.20%

QC value within limits for U 409.014 Recovery = 104.02%

V 292.402† 583.0 4.7523 ug/L 0.43000 4.7523 ppb 0.43000 9.05%

QC value within limits for V 292.402 Recovery = 95.05%

Zn 213.857† 858.6 9.1662 ug/L 0.18298 9.1662 ppb 0.18298 2.00%

QC value within limits for Zn 213.857 Recovery = 91.66%

SiO2† 2842.9 217.27 ug/L 2.610 217.27 ppb 2.610 1.20%

QC value within limits for SiO2 Recovery = 102.01%

All analyte(s) passed QC.

Sequence No.: 9
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 13
 Date Collected: 3/4/2010 16:00:22
 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	4321.9	4321.9	91.0 %		16:02:36
1	Y RADIAL	4550.2	4550.2	90.28 %		16:02:36
1	Al 396.153Radial†	515517.3	566417.6	518650 ug/L	518650 ppb	16:02:16
1	Ca 317.933Radial†	243783.9	267796.9	479230 ug/L	479230 ppb	16:02:16
1	Fe 238.204 Radial†	16364.6	17970.5	186510 ug/L	186510 ppb	16:02:36
1	K 766.490 Radial†	1997.7	-112.1	-181.46 ug/L	-181.46 ppb	16:02:16
1	Mg 279.077 IEC†	11438.2	12563.6	494880 ug/L	494880 ppb	16:02:36
1	Na 589.592 Radial†	-609.0	68.1	20.708 ug/L	20.708 ppb	16:02:36
1	Sr 421.552†	524.2	556.9	0.3901 ug/L	0.3901 ppb	16:02:36
1	Sc 361.383	710286.7	710286.7	89.817 %		16:03:33
1	Y 371.029	619636.3	619636.3	87.644 %		16:03:33
1	Ag 328.068†	-10586.0	-11962.6	-9.2573 ug/L	-9.2573 ppb	16:03:33
1	As 188.979†	-73.4	-53.1	20.431 ug/L	20.431 ppb	16:03:53
1	B 249.677†	536.7	821.8	-9.8555 ug/L	-9.8555 ppb	16:03:33
1	Ba 233.527†	-526.9	-582.6	-1.0457 ug/L	-1.0457 ppb	16:03:53
1	Be 313.107†	-9650.0	-1411.5	-0.6067 ug/L	-0.6067 ppb	16:03:33
1	Cd 226.502†	1136.3	1447.7	0.6493 ug/L	0.6493 ppb	16:03:53
1	Co 228.616†	-23.4	38.3	-1.5501 ug/L	-1.5501 ppb	16:03:53
1	Cr 267.716†	-94.5	-166.4	1.3574 ug/L	1.3574 ppb	16:03:53
1	Cu 324.752†	5808.7	-1256.5	5.2056 ug/L	5.2056 ppb	16:03:33
1	Mn 257.610†	-435.0	-914.8	-3.2586 ug/L	-3.2586 ppb	16:03:33
1	Mo 202.031†	-181.3	-213.9	0.8430 ug/L	0.8430 ppb	16:03:53
1	Ni 231.604†	145.3	81.3	2.5086 ug/L	2.5086 ppb	16:03:53
1	P 214.914†	161.8	-18.7	-30.847 ug/L	-30.847 ppb	16:03:53
1	Pb 220.353†	-696.0	-717.4	4.0678 ug/L	4.0678 ppb	16:03:53
1	S 181.975 Axial†	65.5	31.9	-57.545 ug/L	-57.545 ppb	16:03:53
1	Sb 206.836†	81.7	58.0	5.2022 ug/L	5.2022 ppb	16:03:53
1	Se 196.026†	-732.2	-796.2	-5.7993 ug/L	-5.7993 ppb	16:03:53
1	Si 251.611†	546.5	57.3	2.2806 ug/L	2.2806 ppb	16:03:53
1	Sn 189.927†	-296.7	-343.4	-4.0477 ug/L	-4.0477 ppb	16:03:53
1	Ti 334.940†	-12072.7	-12106.6	-0.1684 ug/L	-0.1684 ppb	16:03:33
1	Tl 190.801†	-59.5	-30.5	-14.078 ug/L	-14.078 ppb	16:03:53
1	U 409.014†	-574.2	1729.4	36.085 ug/L	36.085 ppb	16:03:33
1	V 292.402†	366.7	2067.6	-1.6835 ug/L	-1.6835 ppb	16:03:53
1	Zn 213.857†	3005.0	2548.4	-0.5380 ug/L	-0.5380 ppb	16:03:53
1	SiO2†	470.4	-36.6	-2.2740 ug/L	-2.2740 ppb	16:04:49
2	Sc Radial	4297.2	4297.2	90.5 %		16:03:01
2	Y RADIAL	4528.6	4528.6	89.85 %		16:03:01
2	Al 396.153Radial†	510540.0	564167.1	516590 ug/L	516590 ppb	16:02:41
2	Ca 317.933Radial†	241952.0	267309.3	478360 ug/L	478360 ppb	16:02:41
2	Fe 238.204 Radial†	16386.8	18098.2	187840 ug/L	187840 ppb	16:03:01
2	K 766.490 Radial†	2075.3	-13.7	-162.59 ug/L	-162.59 ppb	16:02:41
2	Mg 279.077 IEC†	11455.1	12654.3	498460 ug/L	498460 ppb	16:03:01
2	Na 589.592 Radial†	-598.2	76.1	23.168 ug/L	23.168 ppb	16:03:01
2	Sr 421.552†	519.3	554.9	0.3820 ug/L	0.3820 ppb	16:03:01
2	Sc 361.383	703092.5	703092.5	88.908 %		16:03:58
2	Y 371.029	613545.9	613545.9	86.783 %		16:03:58
2	Ag 328.068†	-10410.6	-11885.9	-8.4450 ug/L	-8.4450 ppb	16:03:58
2	As 188.979†	-80.6	-62.1	16.860 ug/L	16.860 ppb	16:04:19
2	B 249.677†	427.4	705.0	-12.976 ug/L	-12.976 ppb	16:03:58
2	Ba 233.527†	-530.1	-592.2	-1.1161 ug/L	-1.1161 ppb	16:04:19
2	Be 313.107†	-9757.7	-1642.6	-0.6976 ug/L	-0.6976 ppb	16:03:58
2	Cd 226.502†	1123.2	1445.9	0.4869 ug/L	0.4869 ppb	16:04:19
2	Co 228.616†	-4.5	59.3	-0.9482 ug/L	-0.9482 ppb	16:04:19
2	Cr 267.716†	-95.4	-168.5	1.3579 ug/L	1.3579 ppb	16:04:19
2	Cu 324.752†	5818.6	-1179.1	5.5653 ug/L	5.5653 ppb	16:03:58
2	Mn 257.610†	-298.3	-765.9	-3.0400 ug/L	-3.0400 ppb	16:03:58
2	Mo 202.031†	-186.2	-221.4	0.2577 ug/L	0.2577 ppb	16:04:19
2	Ni 231.604†	154.3	93.0	2.8709 ug/L	2.8709 ppb	16:04:19

2	P 214.914†	179.2	2.7	-20.892 ug/L	-20.892 ppb	16:04:19
2	Pb 220.353†	-654.0	-678.1	9.6836 ug/L	9.6836 ppb	16:04:19
2	S 181.975 Axial†	70.4	38.1	-49.441 ug/L	-49.441 ppb	16:04:19
2	Sb 206.836†	70.6	46.5	0.7493 ug/L	0.7493 ppb	16:04:19
2	Se 196.026†	-717.6	-788.2	1.7394 ug/L	1.7394 ppb	16:04:19
2	Si 251.611†	523.3	37.4	1.5814 ug/L	1.5814 ppb	16:04:19
2	Sn 189.927†	-287.9	-336.8	-2.7817 ug/L	-2.7817 ppb	16:04:19
2	Ti 334.940†	-12043.6	-12211.5	-0.7819 ug/L	-0.7819 ppb	16:03:58
2	Tl 190.801†	-65.3	-37.7	-17.349 ug/L	-17.349 ppb	16:04:19
2	U 409.014†	-766.2	1506.9	28.556 ug/L	28.556 ppb	16:03:58
2	V 292.402†	428.1	2140.8	-1.2627 ug/L	-1.2627 ppb	16:04:19
2	Zn 213.857†	3019.6	2599.1	-0.1945 ug/L	-0.1945 ppb	16:04:19
2	SiO2†	494.8	-3.8	0.2518 ug/L	0.2518 ppb	16:04:54
3	Sc Radial	4350.5	4350.5	91.6 %		16:03:26
3	Y RADIAL	4587.3	4587.3	91.01 %		16:03:26
3	Al 396.153Radial†	516236.9	563473.4	515950 ug/L	515950 ppb	16:03:06
3	Ca 317.933Radial†	244137.4	266419.1	476770 ug/L	476770 ppb	16:03:06
3	Fe 238.204 Radial†	16403.4	17894.4	185720 ug/L	185720 ppb	16:03:26
3	K 766.490 Radial†	1866.0	-270.3	-210.51 ug/L	-210.51 ppb	16:03:06
3	Mg 279.077 IEC†	11481.3	12527.9	493470 ug/L	493470 ppb	16:03:26
3	Na 589.592 Radial†	-614.3	66.7	20.298 ug/L	20.298 ppb	16:03:26
3	Sr 421.552†	529.2	558.6	0.4202 ug/L	0.4202 ppb	16:03:26
3	Sc 361.383	705421.9	705421.9	89.202 %		16:04:24
3	Y 371.029	614833.0	614833.0	86.965 %		16:04:24
3	Ag 328.068†	-10453.4	-11895.2	-9.1253 ug/L	-9.1253 ppb	16:04:24
3	As 188.979†	-85.8	-67.6	13.955 ug/L	13.955 ppb	16:04:44
3	B 249.677†	414.0	688.4	-13.044 ug/L	-13.044 ppb	16:04:24
3	Ba 233.527†	-510.9	-568.8	-0.9091 ug/L	-0.9091 ppb	16:04:44
3	Be 313.107†	-9717.3	-1561.0	-0.6657 ug/L	-0.6657 ppb	16:04:24
3	Cd 226.502†	1116.4	1434.1	0.5445 ug/L	0.5445 ppb	16:04:44
3	Co 228.616†	-22.4	39.2	-1.5124 ug/L	-1.5124 ppb	16:04:44
3	Cr 267.716†	-124.2	-200.5	0.8891 ug/L	0.8891 ppb	16:04:44
3	Cu 324.752†	5721.0	-1310.2	4.9669 ug/L	4.9669 ppb	16:04:24
3	Mn 257.610†	-238.5	-697.9	-2.9382 ug/L	-2.9382 ppb	16:04:24
3	Mo 202.031†	-184.4	-218.7	0.3212 ug/L	0.3212 ppb	16:04:44
3	Ni 231.604†	171.7	112.0	3.4556 ug/L	3.4556 ppb	16:04:44
3	P 214.914†	175.1	-2.5	-22.107 ug/L	-22.107 ppb	16:04:44
3	Pb 220.353†	-714.8	-743.9	-0.7618 ug/L	-0.7618 ppb	16:04:44
3	S 181.975 Axial†	55.9	21.6	-69.837 ug/L	-69.837 ppb	16:04:44
3	Sb 206.836†	43.5	15.9	-11.301 ug/L	-11.301 ppb	16:04:44
3	Se 196.026†	-729.2	-798.4	-9.1339 ug/L	-9.1339 ppb	16:04:44
3	Si 251.611†	521.6	33.6	1.4400 ug/L	1.4400 ppb	16:04:44
3	Sn 189.927†	-304.4	-354.3	-6.9360 ug/L	-6.9360 ppb	16:04:44
3	Ti 334.940†	-12085.1	-12213.3	-0.5944 ug/L	-0.5944 ppb	16:04:24
3	Tl 190.801†	-62.8	-34.7	-15.966 ug/L	-15.966 ppb	16:04:44
3	U 409.014†	-614.4	1679.9	34.535 ug/L	34.535 ppb	16:04:24
3	V 292.402†	406.5	2115.0	-1.2369 ug/L	-1.2369 ppb	16:04:44
3	Zn 213.857†	3010.3	2577.4	-0.1146 ug/L	-0.1146 ppb	16:04:44
3	SiO2†	628.7	144.5	11.596 ug/L	11.596 ppb	16:04:59

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	706267.0	89.309 %	0.4642			0.52%
Sc Radial	4323.2	91.1 %	0.56			0.62%
Y 371.029	616005.1	87.131 %	0.4540			0.52%
Y RADIAL	4555.4	90.38 %	0.589			0.65%
Ag 328.068†	-11914.6	-8.9425 ug/L	0.43589	-8.9425 ppb	0.43589	4.87%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	564686.0	517060 ug/L	1409.3	517060 ppb	1409.3	0.27%
QC value within limits for Al 396.153Radial Recovery = 103.41%						
As 188.979†	-60.9	17.082 ug/L	3.2435	17.082 ppb	3.2435	18.99%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	738.4	-11.958 ug/L	1.8215	-11.958 ppb	1.8215	15.23%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-581.2	-1.0236 ug/L	0.10521	-1.0236 ppb	0.10521	10.28%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-1538.4	-0.6566 ug/L	0.04612	-0.6566 ppb	0.04612	7.02%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	267175.1	478120 ug/L	1250.2	478120 ppb	1250.2	0.26%

QC value within limits for Ca 317.933 Radial Recovery = 95.62%							
Cd 226.502†	1442.6	0.5602 ug/L	0.08233	0.5602 ppb	0.08233	14.69%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	45.6	-1.3369 ug/L	0.33717	-1.3369 ppb	0.33717	25.22%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-178.5	1.2015 ug/L	0.27053	1.2015 ppb	0.27053	22.52%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-1248.6	5.2460 ug/L	0.30123	5.2460 ppb	0.30123	5.74%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	17987.7	186690 ug/L	1068.7	186690 ppb	1068.7	0.57%	
QC value within limits for Fe 238.204 Radial Recovery = 93.34%							
K 766.490 Radial†	-132.0	-184.85 ug/L	24.135	-184.85 ppb	24.135	13.06%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	12581.9	495600 ug/L	2568.0	495600 ppb	2568.0	0.52%	
QC value within limits for Mg 279.077 IEC Recovery = 99.12%							
Mn 257.610†	-792.9	-3.0789 ug/L	0.16374	-3.0789 ppb	0.16374	5.32%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-218.0	0.4740 ug/L	0.32117	0.4740 ppb	0.32117	67.76%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	70.3	21.391 ug/L	1.5519	21.391 ppb	1.5519	7.25%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	95.4	2.9450 ug/L	0.47781	2.9450 ppb	0.47781	16.22%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-6.2	-24.615 ug/L	5.4307	-24.615 ppb	5.4307	22.06%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-713.1	4.3299 ug/L	5.22762	4.3299 ppb	5.22762	120.73%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	30.6	-58.941 ug/L	10.2696	-58.941 ppb	10.2696	17.42%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	40.1	-1.7832 ug/L	8.53810	-1.7832 ppb	8.53810	478.80%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-794.3	-4.3979 ug/L	5.57049	-4.3979 ppb	5.57049	126.66%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	42.8	1.7673 ug/L	0.45006	1.7673 ppb	0.45006	25.47%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-344.9	-4.5885 ug/L	2.12931	-4.5885 ppb	2.12931	46.41%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	556.8	0.3974 ug/L	0.02015	0.3974 ppb	0.02015	5.07%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-12177.1	-0.5149 ug/L	0.31438	-0.5149 ppb	0.31438	61.05%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-34.3	-15.798 ug/L	1.6417	-15.798 ppb	1.6417	10.39%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	1638.7	33.059 ug/L	3.9754	33.059 ppb	3.9754	12.03%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	2107.8	-1.3944 ug/L	0.25077	-1.3944 ppb	0.25077	17.98%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	2574.9	-0.2823 ug/L	0.22496	-0.2823 ppb	0.22496	79.68%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	34.7	3.1911 ug/L	7.38722	3.1911 ppb	7.38722	231.50%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 14
 Date Collected: 3/4/2010 16:07:11
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4276.4	4276.4	90.1 %		16:09:09
1	Y RADIAL	4529.2	4529.2	89.86 %		16:09:09
1	Al 396.153Radial†	509556.7	565823.2	518080 ug/L	518080 ppb	16:09:04
1	Ca 317.933Radial†	240471.6	266968.0	477750 ug/L	477750 ppb	16:09:04
1	Fe 238.204 Radial†	16433.0	18237.7	189300 ug/L	189300 ppb	16:09:09
1	K 766.490 Radial†	28928.5	29811.5	5466.6 ug/L	5466.6 ppb	16:09:04
1	Mg 279.077 IEC†	11427.4	12685.3	499680 ug/L	499680 ppb	16:09:09
1	Na 589.592 Radial†	15536.1	17986.1	5473.0 ug/L	5473.0 ppb	16:09:09
1	Sr 421.552†	65403.2	72595.7	513.74 ug/L	513.74 ppb	16:09:04
1	Sc 361.383	707306.8	707306.8	89.441 %		16:09:37
1	Y 371.029	617026.4	617026.4	87.275 %		16:09:37
1	Ag 328.068†	38502.2	42871.3	268.68 ug/L	268.68 ppb	16:09:37
1	As 188.979†	990.5	1136.1	541.36 ug/L	541.36 ppb	16:09:57
1	B 249.677†	19352.1	21861.1	511.51 ug/L	511.51 ppb	16:09:37
1	Ba 233.527†	38972.7	43577.9	512.26 ug/L	512.26 ppb	16:09:37
1	Be 313.107†	547187.0	621120.9	244.14 ug/L	244.14 ppb	16:09:37
1	Cd 226.502†	31771.7	35705.3	471.70 ug/L	471.70 ppb	16:09:57
1	Co 228.616†	14665.0	16460.8	487.10 ug/L	487.10 ppb	16:09:57
1	Cr 267.716†	32712.8	36513.7	491.03 ug/L	491.03 ppb	16:09:37
1	Cu 324.752†	147858.2	157590.8	590.97 ug/L	590.97 ppb	16:09:37
1	Mn 257.610†	291328.0	325292.0	509.31 ug/L	509.31 ppb	16:09:37
1	Mo 202.031†	4754.7	5304.0	499.91 ug/L	499.91 ppb	16:09:57
1	Ni 231.604†	13667.6	15200.7	469.00 ug/L	469.00 ppb	16:09:57
1	P 214.914†	4501.7	4834.4	2487.9 ug/L	2487.9 ppb	16:09:57
1	Pb 220.353†	2135.4	2445.0	506.59 ug/L	506.59 ppb	16:09:57
1	S 181.975 Axial†	1978.3	2170.8	2599.5 ug/L	2599.5 ppb	16:09:57
1	Sb 206.836†	1349.5	1476.0	579.36 ug/L	579.36 ppb	16:09:57
1	Se 196.026†	3262.5	3666.7	2651.6 ug/L	2651.6 ppb	16:09:57
1	Si 251.611†	136898.9	152510.2	5433.1 ug/L	5433.1 ppb	16:09:37
1	Sn 189.927†	1719.7	1909.7	510.43 ug/L	510.43 ppb	16:09:57
1	Ti 334.940†	224447.2	252280.4	522.62 ug/L	522.62 ppb	16:09:37
1	Tl 190.801†	960.1	1109.1	506.28 ug/L	506.28 ppb	16:09:57
1	U 409.014†	13124.1	17042.1	542.42 ug/L	542.42 ppb	16:09:37
1	V 292.402†	58688.5	67276.7	511.67 ug/L	511.67 ppb	16:09:37
1	Zn 213.857†	45144.0	49676.5	501.68 ug/L	501.68 ppb	16:09:37
1	SiO2†	138030.6	153766.3	11754 ug/L	11754 ppb	16:10:55
2	Sc Radial	4242.0	4242.0	89.3 %		16:09:19
2	Y RADIAL	4450.9	4450.9	88.31 %		16:09:19
2	Al 396.153Radial†	514983.4	576481.0	527840 ug/L	527840 ppb	16:09:14
2	Ca 317.933Radial†	242479.1	271378.1	485640 ug/L	485640 ppb	16:09:14
2	Fe 238.204 Radial†	16338.0	18279.1	189730 ug/L	189730 ppb	16:09:19
2	K 766.490 Radial†	29054.0	30212.2	5539.7 ug/L	5539.7 ppb	16:09:14
2	Mg 279.077 IEC†	11342.4	12693.0	499980 ug/L	499980 ppb	16:09:19
2	Na 589.592 Radial†	15305.6	17868.0	5437.0 ug/L	5437.0 ppb	16:09:19
2	Sr 421.552†	65889.8	73728.7	521.75 ug/L	521.75 ppb	16:09:14
2	Sc 361.383	722916.7	722916.7	91.414 %		16:10:03
2	Y 371.029	630379.8	630379.8	89.164 %		16:10:03
2	Ag 328.068†	39590.8	43132.7	270.00 ug/L	270.00 ppb	16:10:03
2	As 188.979†	984.8	1106.0	528.39 ug/L	528.39 ppb	16:10:23
2	B 249.677†	19889.1	21981.3	514.46 ug/L	514.46 ppb	16:10:03
2	Ba 233.527†	39646.5	43374.1	509.91 ug/L	509.91 ppb	16:10:03
2	Be 313.107†	556612.2	618221.0	243.01 ug/L	243.01 ppb	16:10:03
2	Cd 226.502†	31773.8	34940.5	461.13 ug/L	461.13 ppb	16:10:23
2	Co 228.616†	14654.2	16094.8	476.19 ug/L	476.19 ppb	16:10:23
2	Cr 267.716†	33234.8	36295.0	488.12 ug/L	488.12 ppb	16:10:03
2	Cu 324.752†	152991.4	159636.4	598.53 ug/L	598.53 ppb	16:10:03
2	Mn 257.610†	297147.4	324624.6	508.29 ug/L	508.29 ppb	16:10:03
2	Mo 202.031†	4761.7	5197.0	490.36 ug/L	490.36 ppb	16:10:23
2	Ni 231.604†	13656.6	14858.7	458.44 ug/L	458.44 ppb	16:10:23

2	P 214.914†	4502.4	4726.5	2429.8 ug/L	2429.8 ppb	16:10:23
2	Pb 220.353†	2114.6	2370.7	497.22 ug/L	497.22 ppb	16:10:23
2	S 181.975 Axial†	1955.6	2098.2	2507.5 ug/L	2507.5 ppb	16:10:23
2	Sb 206.836†	1362.1	1457.1	571.30 ug/L	571.30 ppb	16:10:23
2	Se 196.026†	3238.2	3561.3	2590.9 ug/L	2590.9 ppb	16:10:23
2	Si 251.611†	140060.7	152663.9	5438.7 ug/L	5438.7 ppb	16:10:03
2	Sn 189.927†	1708.4	1855.8	499.50 ug/L	499.50 ppb	16:10:23
2	Ti 334.940†	229477.9	252364.9	523.82 ug/L	523.82 ppb	16:10:03
2	Tl 190.801†	947.2	1071.9	489.43 ug/L	489.43 ppb	16:10:23
2	U 409.014†	13586.2	17230.8	548.63 ug/L	548.63 ppb	16:10:03
2	V 292.402†	59677.6	66941.7	508.89 ug/L	508.89 ppb	16:10:03
2	Zn 213.857†	45938.1	49455.2	499.29 ug/L	499.29 ppb	16:10:03
2	SiO2†	140357.9	152979.8	11694 ug/L	11694 ppb	16:11:00
3	Sc Radial	4221.2	4221.2	88.9 %		16:09:30
3	Y RADIAL	4475.5	4475.5	88.80 %		16:09:30
3	Al 396.153Radial†	517621.1	582294.8	533160 ug/L	533160 ppb	16:09:25
3	Ca 317.933Radial†	243989.8	274417.7	491080 ug/L	491080 ppb	16:09:25
3	Fe 238.204 Radial†	16309.4	18337.3	190330 ug/L	190330 ppb	16:09:30
3	K 766.490 Radial†	29274.7	30621.0	5615.0 ug/L	5615.0 ppb	16:09:25
3	Mg 279.077 IEC†	11299.9	12707.9	500570 ug/L	500570 ppb	16:09:30
3	Na 589.592 Radial†	15374.3	18029.9	5486.3 ug/L	5486.3 ppb	16:09:30
3	Sr 421.552†	66377.6	74641.5	528.22 ug/L	528.22 ppb	16:09:25
3	Sc 361.383	727449.8	727449.8	91.988 %		16:10:29
3	Y 371.029	634060.9	634060.9	89.685 %		16:10:29
3	Ag 328.068†	39592.1	42864.2	268.76 ug/L	268.76 ppb	16:10:29
3	As 188.979†	984.9	1099.3	525.62 ug/L	525.62 ppb	16:10:49
3	B 249.677†	19996.4	21962.3	513.89 ug/L	513.89 ppb	16:10:29
3	Ba 233.527†	39861.1	43337.1	509.50 ug/L	509.50 ppb	16:10:29
3	Be 313.107†	559289.9	617337.6	242.66 ug/L	242.66 ppb	16:10:29
3	Cd 226.502†	31947.0	34912.3	460.68 ug/L	460.68 ppb	16:10:49
3	Co 228.616†	14751.9	16101.2	476.37 ug/L	476.37 ppb	16:10:49
3	Cr 267.716†	33331.0	36173.0	486.50 ug/L	486.50 ppb	16:10:29
3	Cu 324.752†	153979.0	159667.2	598.67 ug/L	598.67 ppb	16:10:29
3	Mn 257.610†	298827.7	324425.7	508.02 ug/L	508.02 ppb	16:10:29
3	Mo 202.031†	4791.1	5196.5	490.43 ug/L	490.43 ppb	16:10:49
3	Ni 231.604†	13706.3	14819.6	457.24 ug/L	457.24 ppb	16:10:49
3	P 214.914†	4517.0	4711.6	2422.6 ug/L	2422.6 ppb	16:10:49
3	Pb 220.353†	2134.1	2377.5	499.62 ug/L	499.62 ppb	16:10:49
3	S 181.975 Axial†	1981.1	2112.7	2524.4 ug/L	2524.4 ppb	16:10:49
3	Sb 206.836†	1347.9	1432.4	561.46 ug/L	561.46 ppb	16:10:49
3	Se 196.026†	3251.4	3553.6	2588.2 ug/L	2588.2 ppb	16:10:49
3	Si 251.611†	141027.6	152760.2	5442.2 ug/L	5442.2 ppb	16:10:29
3	Sn 189.927†	1719.1	1855.8	500.44 ug/L	500.44 ppb	16:10:49
3	Ti 334.940†	230490.9	251901.8	523.58 ug/L	523.58 ppb	16:10:29
3	Tl 190.801†	960.6	1080.0	493.09 ug/L	493.09 ppb	16:10:49
3	U 409.014†	13787.4	17357.0	552.75 ug/L	552.75 ppb	16:10:29
3	V 292.402†	60117.4	67013.0	509.37 ug/L	509.37 ppb	16:10:29
3	Zn 213.857†	46152.5	49375.2	498.35 ug/L	498.35 ppb	16:10:29
3	SiO2†	138849.1	150382.8	11495 ug/L	11495 ppb	16:11:05

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	719224.4	90.948 %	1.3362			1.47%
Sc Radial	4246.5	89.4 %	0.59			0.66%
Y 371.029	627155.7	88.708 %	1.2678			1.43%
Y RADIAL	4485.2	88.99 %	0.794			0.89%
Ag 328.068†	42956.1	269.15 ug/L	0.740	269.15 ppb	0.740	0.28%
QC value within limits for Ag 328.068 Recovery = 107.66%						
Al 396.153Radial†	574866.3	526360 ug/L	7649.4	526360 ppb	7649.4	1.45%
QC value within limits for Al 396.153Radial Recovery = 105.27%						
As 188.979†	1113.8	531.79 ug/L	8.406	531.79 ppb	8.406	1.58%
QC value within limits for As 188.979 Recovery = 106.36%						
B 249.677†	21934.9	513.29 ug/L	1.565	513.29 ppb	1.565	0.30%
QC value within limits for B 249.677 Recovery = 102.66%						
Ba 233.527†	43429.7	510.56 ug/L	1.492	510.56 ppb	1.492	0.29%
QC value within limits for Ba 233.527 Recovery = 102.11%						
Be 313.107†	618893.2	243.27 ug/L	0.775	243.27 ppb	0.775	0.32%
QC value within limits for Be 313.107 Recovery = 97.31%						
Ca 317.933Radial†	270921.2	484820 ug/L	6703.3	484820 ppb	6703.3	1.38%

QC value within limits for Ca 317.933 Radial Recovery = 96.96%						
Cd 226.502†	35186.0	464.51 ug/L	6.233	464.51 ppb	6.233	1.34%
QC value within limits for Cd 226.502 Recovery = 92.90%						
Co 228.616†	16218.9	479.89 ug/L	6.250	479.89 ppb	6.250	1.30%
QC value within limits for Co 228.616 Recovery = 95.98%						
Cr 267.716†	36327.2	488.55 ug/L	2.296	488.55 ppb	2.296	0.47%
QC value within limits for Cr 267.716 Recovery = 97.71%						
Cu 324.752†	158964.8	596.06 ug/L	4.409	596.06 ppb	4.409	0.74%
QC value within limits for Cu 324.752 Recovery = 119.21%						
Fe 238.204 Radial†	18284.7	189790 ug/L	519.4	189790 ppb	519.4	0.27%
QC value within limits for Fe 238.204 Radial Recovery = 94.89%						
K 766.490 Radial†	30214.9	5540.5 ug/L	74.20	5540.5 ppb	74.20	1.34%
QC value within limits for K 766.490 Radial Recovery = 110.81%						
Mg 279.077 IEC†	12695.4	500080 ug/L	451.6	500080 ppb	451.6	0.09%
QC value within limits for Mg 279.077 IEC Recovery = 100.02%						
Mn 257.610†	324780.8	508.54 ug/L	0.682	508.54 ppb	0.682	0.13%
QC value within limits for Mn 257.610 Recovery = 101.71%						
Mo 202.031†	5232.5	493.57 ug/L	5.494	493.57 ppb	5.494	1.11%
QC value within limits for Mo 202.031 Recovery = 98.71%						
Na 589.592 Radial†	17961.3	5465.4 ug/L	25.48	5465.4 ppb	25.48	0.47%
QC value within limits for Na 589.592 Radial Recovery = 109.31%						
Ni 231.604†	14959.7	461.56 ug/L	6.469	461.56 ppb	6.469	1.40%
QC value within limits for Ni 231.604 Recovery = 92.31%						
P 214.914†	4757.5	2446.8 ug/L	35.81	2446.8 ppb	35.81	1.46%
QC value within limits for P 214.914 Recovery = 97.87%						
Pb 220.353†	2397.7	501.14 ug/L	4.867	501.14 ppb	4.867	0.97%
QC value within limits for Pb 220.353 Recovery = 100.23%						
S 181.975 Axial†	2127.2	2543.8 ug/L	48.96	2543.8 ppb	48.96	1.92%
QC value within limits for S 181.975 Axial Recovery = 101.75%						
Sb 206.836†	1455.2	570.71 ug/L	8.964	570.71 ppb	8.964	1.57%
QC value within limits for Sb 206.836 Recovery = 114.14%						
Se 196.026†	3593.8	2610.2 ug/L	35.86	2610.2 ppb	35.86	1.37%
QC value within limits for Se 196.026 Recovery = 104.41%						
Si 251.611†	152644.8	5438.0 ug/L	4.56	5438.0 ppb	4.56	0.08%
QC value within limits for Si 251.611 Recovery = 108.76%						
Sn 189.927†	1873.7	503.46 ug/L	6.061	503.46 ppb	6.061	1.20%
QC value within limits for Sn 189.927 Recovery = 100.69%						
Sr 421.552†	73655.3	521.24 ug/L	7.253	521.24 ppb	7.253	1.39%
QC value within limits for Sr 421.552 Recovery = 104.25%						
Ti 334.940†	252182.4	523.34 ug/L	0.635	523.34 ppb	0.635	0.12%
QC value within limits for Ti 334.940 Recovery = 104.67%						
Tl 190.801†	1087.0	496.27 ug/L	8.862	496.27 ppb	8.862	1.79%
QC value within limits for Tl 190.801 Recovery = 99.25%						
U 409.014†	17209.9	547.93 ug/L	5.201	547.93 ppb	5.201	0.95%
QC value within limits for U 409.014 Recovery = 109.59%						
V 292.402†	67077.2	509.98 ug/L	1.486	509.98 ppb	1.486	0.29%
QC value within limits for V 292.402 Recovery = 102.00%						
Zn 213.857†	49502.3	499.77 ug/L	1.715	499.77 ppb	1.715	0.34%
QC value within limits for Zn 213.857 Recovery = 99.95%						
SiO2†	152376.3	11647 ug/L	135.4	11647 ppb	135.4	1.16%
QC value within limits for SiO2 Recovery = 108.90%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LRL1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 3/4/2010 16:13:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LRL1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4247.1	4247.1	89.5 %		16:15:14
1	Y RADIAL	4518.0	4518.0	89.64 %		16:15:14
1	Al 396.153Radial†	499148.7	558089.4	511020 ug/L	511020 ppb	16:15:09
1	Ca 317.933Radial†	237967.0	266009.1	476030 ug/L	476030 ppb	16:15:09
1	Fe 238.204 Radial†	38166.0	42659.1	442750 ug/L	442750 ppb	16:15:14
1	K 766.490 Radial†	3669.4	1795.4	-26.232 ug/L	-26.232 ppb	16:15:14
1	Mg 279.077 IEC†	11255.6	12580.7	495290 ug/L	495290 ppb	16:15:14
1	Na 589.592 Radial†	1552366.1	1736153.6	528290 ug/L	528290 ppb	16:15:09
1	Sr 421.552†	1617.2	1788.9	9.1929 ug/L	9.1929 ppb	16:15:14
1	Sc 361.383	702222.2	702222.2	88.798 %		16:15:42
1	Y 371.029	614085.6	614085.6	86.859 %		16:15:42
1	Ag 328.068†	-22012.7	-24966.2	-8.2857 ug/L	-8.2857 ppb	16:15:42
1	As 188.979†	-162.4	-154.3	36.582 ug/L	36.582 ppb	16:16:02
1	B 249.677†	1345.0	1738.9	-28.673 ug/L	-28.673 ppb	16:15:42
1	Ba 233.527†	-1273.9	-1430.5	-3.0593 ug/L	-3.0593 ppb	16:16:02
1	Be 313.107†	-15413.4	-8025.4	-3.1842 ug/L	-3.1842 ppb	16:15:42
1	Cd 226.502†	3068.8	3638.6	7.2962 ug/L	7.2962 ppb	16:16:02
1	Co 228.616†	127.0	207.4	-0.2837 ug/L	-0.2837 ppb	16:16:02
1	Cr 267.716†	24.0	-34.2	1.9503 ug/L	1.9503 ppb	16:16:02
1	Cu 324.752†	3099.8	-4232.9	-0.7263 ug/L	-0.7263 ppb	16:15:42
1	Mn 257.610†	-18810.8	-21614.4	-10.499 ug/L	-10.499 ppb	16:15:42
1	Mo 202.031†	-382.2	-442.4	0.0407 ug/L	0.0407 ppb	16:16:02
1	Ni 231.604†	185.4	128.3	3.9561 ug/L	3.9561 ppb	16:16:02
1	P 214.914†	490.3	353.3	-35.210 ug/L	-35.210 ppb	16:16:02
1	Pb 220.353†	-503.4	-509.4	14.602 ug/L	14.602 ppb	16:16:02
1	S 181.975 Axial†	87.8	57.8	-23.949 ug/L	-23.949 ppb	16:16:02
1	Sb 206.836†	60.7	35.5	-6.7709 ug/L	-6.7709 ppb	16:16:02
1	Se 196.026†	-1773.1	-1977.8	-134.43 ug/L	-134.43 ppb	16:16:02
1	Si 251.611†	-260.0	-843.9	-29.605 ug/L	-29.605 ppb	16:16:02
1	Sn 189.927†	-318.6	-371.8	-25.823 ug/L	-25.823 ppb	16:16:02
1	Ti 334.940†	-9954.3	-9875.3	-2.9885 ug/L	-2.9885 ppb	16:15:42
1	Tl 190.801†	-94.4	-70.6	-32.398 ug/L	-32.398 ppb	16:16:02
1	U 409.014†	411414.5	465685.7	15391 ug/L	15391 ppb	16:15:42
1	V 292.402†	1615.5	3478.7	1.1127 ug/L	1.1127 ppb	16:16:02
1	Zn 213.857†	5222.7	5084.3	-11.630 ug/L	-11.630 ppb	16:16:02
1	SiO2†	-254.6	-847.0	-63.727 ug/L	-63.727 ppb	16:16:59
2	Sc Radial	4276.0	4276.0	90.1 %		16:15:24
2	Y RADIAL	4528.2	4528.2	89.84 %		16:15:24
2	Al 396.153Radial†	503407.9	559044.1	511900 ug/L	511900 ppb	16:15:19
2	Ca 317.933Radial†	238963.4	265316.1	474790 ug/L	474790 ppb	16:15:19
2	Fe 238.204 Radial†	38176.2	42381.9	439870 ug/L	439870 ppb	16:15:24
2	K 766.490 Radial†	3640.4	1735.3	-37.055 ug/L	-37.055 ppb	16:15:24
2	Mg 279.077 IEC†	11281.2	12524.0	493060 ug/L	493060 ppb	16:15:24
2	Na 589.592 Radial†	1562210.0	1735345.3	528040 ug/L	528040 ppb	16:15:19
2	Sr 421.552†	1612.9	1771.9	9.0813 ug/L	9.0813 ppb	16:15:24
2	Sc 361.383	705868.4	705868.4	89.259 %		16:16:08
2	Y 371.029	616779.3	616779.3	87.240 %		16:16:08
2	Ag 328.068†	-22092.6	-24927.7	-8.9422 ug/L	-8.9422 ppb	16:16:08
2	As 188.979†	-176.4	-169.0	29.483 ug/L	29.483 ppb	16:16:28
2	B 249.677†	1347.6	1734.0	-28.333 ug/L	-28.333 ppb	16:16:08
2	Ba 233.527†	-1322.2	-1477.3	-3.6881 ug/L	-3.6881 ppb	16:16:28
2	Be 313.107†	-15599.0	-8143.7	-3.2296 ug/L	-3.2296 ppb	16:16:08
2	Cd 226.502†	3022.7	3569.0	6.6341 ug/L	6.6341 ppb	16:16:28
2	Co 228.616†	171.3	256.3	1.2128 ug/L	1.2128 ppb	16:16:28
2	Cr 267.716†	19.0	-39.9	1.8271 ug/L	1.8271 ppb	16:16:28
2	Cu 324.752†	3100.0	-4250.6	-0.9330 ug/L	-0.9330 ppb	16:16:08
2	Mn 257.610†	-18607.9	-21277.6	-10.163 ug/L	-10.163 ppb	16:16:08
2	Mo 202.031†	-378.4	-436.0	0.3802 ug/L	0.3802 ppb	16:16:28
2	Ni 231.604†	200.4	144.0	4.4426 ug/L	4.4426 ppb	16:16:28

2	P 214.914†	476.7	335.2	-42.515 ug/L	-42.515 ppb	16:16:28
2	Pb 220.353†	-508.7	-512.4	14.557 ug/L	14.557 ppb	16:16:28
2	S 181.975 Axial†	88.6	58.2	-23.635 ug/L	-23.635 ppb	16:16:28
2	Sb 206.836†	44.6	17.1	-14.019 ug/L	-14.019 ppb	16:16:28
2	Se 196.026†	-1753.2	-1945.2	-121.43 ug/L	-121.43 ppb	16:16:28
2	Si 251.611†	-269.4	-853.0	-29.936 ug/L	-29.936 ppb	16:16:28
2	Sn 189.927†	-326.1	-378.4	-27.372 ug/L	-27.372 ppb	16:16:28
2	Ti 334.940†	-9828.9	-9677.0	-2.5705 ug/L	-2.5705 ppb	16:16:08
2	Tl 190.801†	-87.9	-62.8	-28.878 ug/L	-28.878 ppb	16:16:28
2	U 409.014†	413012.1	465082.3	15371 ug/L	15371 ppb	16:16:08
2	V 292.402†	1664.1	3523.7	1.8078 ug/L	1.8078 ppb	16:16:28
2	Zn 213.857†	5232.9	5065.4	-11.405 ug/L	-11.405 ppb	16:16:28
2	SiO2†	-301.8	-898.4	-67.674 ug/L	-67.674 ppb	16:17:04
3	Sc Radial	4264.7	4264.7	89.8 %		16:15:35
3	Y RADIAL	4503.2	4503.2	89.35 %		16:15:35
3	Al 396.153Radial†	502695.5	559733.2	512530 ug/L	512530 ppb	16:15:30
3	Ca 317.933Radial†	238416.8	265411.1	474960 ug/L	474960 ppb	16:15:30
3	Fe 238.204 Radial†	37924.5	42214.0	438130 ug/L	438130 ppb	16:15:35
3	K 766.490 Radial†	3614.3	1717.0	-40.163 ug/L	-40.163 ppb	16:15:35
3	Mg 279.077 IEC†	11207.9	12475.7	491150 ug/L	491150 ppb	16:15:35
3	Na 589.592 Radial†	1555017.2	1731937.4	527010 ug/L	527010 ppb	16:15:30
3	Sr 421.552†	1626.5	1791.9	9.2221 ug/L	9.2221 ppb	16:15:35
3	Sc 361.383	707911.9	707911.9	89.517 %		16:16:33
3	Y 371.029	617417.0	617417.0	87.330 %		16:16:33
3	Ag 328.068†	-22388.0	-25186.2	-10.800 ug/L	-10.800 ppb	16:16:33
3	As 188.979†	-161.8	-152.1	36.450 ug/L	36.450 ppb	16:16:53
3	B 249.677†	1308.4	1685.9	-29.245 ug/L	-29.245 ppb	16:16:33
3	Ba 233.527†	-1326.8	-1478.2	-3.7514 ug/L	-3.7514 ppb	16:16:53
3	Be 313.107†	-15667.9	-8170.2	-3.2403 ug/L	-3.2403 ppb	16:16:33
3	Cd 226.502†	3046.5	3585.9	7.0521 ug/L	7.0521 ppb	16:16:53
3	Co 228.616†	161.2	244.4	0.8827 ug/L	0.8827 ppb	16:16:53
3	Cr 267.716†	36.8	-20.1	2.0471 ug/L	2.0471 ppb	16:16:53
3	Cu 324.752†	3054.1	-4312.0	-1.2664 ug/L	-1.2664 ppb	16:16:33
3	Mn 257.610†	-18714.5	-21336.5	-10.350 ug/L	-10.350 ppb	16:16:33
3	Mo 202.031†	-386.9	-444.2	-0.4981 ug/L	-0.4981 ppb	16:16:53
3	Ni 231.604†	244.7	192.9	5.9503 ug/L	5.9503 ppb	16:16:53
3	P 214.914†	485.8	343.8	-36.206 ug/L	-36.206 ppb	16:16:53
3	Pb 220.353†	-514.7	-517.4	14.051 ug/L	14.051 ppb	16:16:53
3	S 181.975 Axial†	95.7	65.9	-14.166 ug/L	-14.166 ppb	16:16:53
3	Sb 206.836†	48.3	21.1	-12.429 ug/L	-12.429 ppb	16:16:53
3	Se 196.026†	-1785.8	-1975.9	-143.52 ug/L	-143.52 ppb	16:16:53
3	Si 251.611†	-269.6	-852.4	-29.905 ug/L	-29.905 ppb	16:16:53
3	Sn 189.927†	-318.0	-368.3	-24.933 ug/L	-24.933 ppb	16:16:53
3	Ti 334.940†	-9923.2	-9750.5	-2.5497 ug/L	-2.5497 ppb	16:16:33
3	Tl 190.801†	-94.4	-69.7	-32.020 ug/L	-32.020 ppb	16:16:53
3	U 409.014†	414924.8	465883.3	15398 ug/L	15398 ppb	16:16:33
3	V 292.402†	1664.5	3518.7	2.0265 ug/L	2.0265 ppb	16:16:53
3	Zn 213.857†	5226.3	5041.0	-11.415 ug/L	-11.415 ppb	16:16:53
3	SiO2†	-342.4	-942.8	-71.053 ug/L	-71.053 ppb	16:17:09

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	705334.2	89.191 %		0.3645			0.41%
Sc Radial	4262.6	89.8 %		0.31			0.34%
Y 371.029	616094.0	87.143 %		0.2501			0.29%
Y RADIAL	4516.5	89.61 %		0.250			0.28%
Ag 328.068†	-25026.7	-9.3428 ug/L		1.30436	-9.3428 ppb	1.30436	13.96%
Al 396.153Radial†	558955.6	511820 ug/L		755.9	511820 ppb	755.9	0.15%
QC value within limits for Al 396.153Radial Recovery = 102.36%							
As 188.979†	-158.5	34.172 ug/L		4.0612	34.172 ppb	4.0612	11.88%
B 249.677†	1719.6	-28.750 ug/L		0.4609	-28.750 ppb	0.4609	1.60%
Ba 233.527†	-1462.0	-3.4996 ug/L		0.38260	-3.4996 ppb	0.38260	10.93%
Be 313.107†	-8113.1	-3.2181 ug/L		0.02978	-3.2181 ppb	0.02978	0.93%
Ca 317.933Radial†	265578.7	475260 ug/L		672.3	475260 ppb	672.3	0.14%
QC value within limits for Ca 317.933Radial Recovery = 95.05%							
Cd 226.502†	3597.8	6.9941 ug/L		0.33484	6.9941 ppb	0.33484	4.79%
Co 228.616†	236.0	0.6039 ug/L		0.78624	0.6039 ppb	0.78624	130.19%
Cr 267.716†	-31.4	1.9415 ug/L		0.11025	1.9415 ppb	0.11025	5.68%
Cu 324.752†	-4265.2	-0.9752 ug/L		0.27249	-0.9752 ppb	0.27249	27.94%

Fe 238.204 Radial†	42418.3	440250 ug/L	2332.9	440250 ppb	2332.9	0.53%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 88.05%						
K 766.490 Radial†	1749.3	-34.483 ug/L	7.3128	-34.483 ppb	7.3128	21.21%
Mg 279.077 IEC†	12526.8	493170 ug/L	2070.1	493170 ppb	2070.1	0.42%
QC value within limits for Mg 279.077 IEC Recovery = 98.63%						
Mn 257.610†	-21409.5	-10.337 ug/L	0.1685	-10.337 ppb	0.1685	1.63%
Mo 202.031†	-440.8	-0.0257 ug/L	0.44290	-0.0257 ppb	0.44290	>999.9%
Na 589.592 Radial†	1734478.8	527780 ug/L	680.9	527780 ppb	680.9	0.13%
QC value within limits for Na 589.592 Radial Recovery = 105.56%						
Ni 231.604†	155.1	4.7830 ug/L	1.03979	4.7830 ppb	1.03979	21.74%
P 214.914†	344.1	-37.977 ug/L	3.9613	-37.977 ppb	3.9613	10.43%
Pb 220.353†	-513.1	14.403 ug/L	0.3060	14.403 ppb	0.3060	2.12%
S 181.975 Axial†	60.6	-20.583 ug/L	5.5595	-20.583 ppb	5.5595	27.01%
Sb 206.836†	24.6	-11.073 ug/L	3.8094	-11.073 ppb	3.8094	34.40%
Se 196.026†	-1966.3	-133.13 ug/L	11.101	-133.13 ppb	11.101	8.34%
Si 251.611†	-849.8	-29.815 ug/L	0.1830	-29.815 ppb	0.1830	0.61%
Sn 189.927†	-372.8	-26.043 ug/L	1.2346	-26.043 ppb	1.2346	4.74%
Sr 421.552†	1784.2	9.1654 ug/L	0.07434	9.1654 ppb	0.07434	0.81%
Ti 334.940†	-9767.6	-2.7029 ug/L	0.24759	-2.7029 ppb	0.24759	9.16%
Tl 190.801†	-67.7	-31.099 ug/L	1.9322	-31.099 ppb	1.9322	6.21%
U 409.014†	465550.4	15387 ug/L	13.9	15387 ppb	13.9	0.09%
QC value within limits for U 409.014 Recovery = 102.58%						
V 292.402†	3507.0	1.6490 ug/L	0.47713	1.6490 ppb	0.47713	28.93%
Zn 213.857†	5063.6	-11.484 ug/L	0.1270	-11.484 ppb	0.1270	1.11%
SiO2†	-896.1	-67.485 ug/L	3.6665	-67.485 ppb	3.6665	5.43%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 3/4/2010 16:19:19

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	4671.6	4671.6	98.4 %		16:21:17
1	Y RADIAL	4886.0	4886.0	96.94 %		16:21:17
1	Al 396.153Radial†	432.8	522.3	11.645 ug/L	11.645 ppb	16:21:17
1	Ca 317.933Radial†	35.3	17.6	31.463 ug/L	31.463 ppb	16:21:37
1	Fe 238.204 Radial†	-18.1	-25.6	26.591 ug/L	26.591 ppb	16:21:37
1	K 766.490 Radial†	1597949.3	1621725.7	306220 ug/L	306220 ppb	16:21:12
1	Mg 279.077 IEC†	-4.4	-6.6	-158.69 ug/L	-158.69 ppb	16:21:37
1	Na 589.592 Radial†	-5.5	731.5	222.59 ug/L	222.59 ppb	16:21:17
1	Sr 421.552†	1384112.1	1406685.8	10024 ug/L	10024 ppb	16:21:12
1	Sc 361.383	798690.7	798690.7	101.00 %		16:22:54
1	Y 371.029	697509.2	697509.2	98.659 %		16:22:54
1	Ag 328.068†	-6725.3	-6835.4	5.5884 ug/L	5.5884 ppb	16:23:00
1	As 188.979†	22116.6	21927.1	9594.3 ug/L	9594.3 ppb	16:23:00
1	B 249.677†	202469.4	200696.4	4963.1 ug/L	4963.1 ppb	16:22:54
1	Ba 233.527†	1224758.0	1212680.5	14085 ug/L	14085 ppb	16:22:54
1	Be 313.107†	7278854.1	7216384.7	2845.9 ug/L	2845.9 ppb	16:22:48
1	Cd 226.502†	709474.5	702658.5	9665.6 ug/L	9665.6 ppb	16:22:54
1	Co 228.616†	331886.1	328676.6	9776.5 ug/L	9776.5 ppb	16:23:00
1	Cr 267.716†	1811471.2	1793540.8	23930 ug/L	23930 ppb	16:22:54
1	Cu 324.752†	5782949.8	5718180.5	21091 ug/L	21091 ppb	16:22:48
1	Mn 257.610†	6285876.9	6223439.7	9777.4 ug/L	9777.4 ppb	16:22:48
1	Mo 202.031†	107501.8	106429.3	9622.2 ug/L	9622.2 ppb	16:23:00
1	Ni 231.604†	317258.7	314048.7	9689.7 ug/L	9689.7 ppb	16:23:00
1	P 214.914†	32020.5	31505.8	12998 ug/L	12998 ppb	16:23:00
1	Pb 220.353†	157091.5	155599.4	24711 ug/L	24711 ppb	16:23:00
1	S 181.975 Axial†	40712.5	40269.8	50023 ug/L	50023 ppb	16:23:00
1	Sb 206.836†	26931.4	26632.9	10799 ug/L	10799 ppb	16:23:00
1	Se 196.026†	16913.0	16765.2	9982.7 ug/L	9982.7 ppb	16:23:00
1	Si 251.611†	1327949.2	1314298.5	46754 ug/L	46754 ppb	16:22:54
1	Sn 189.927†	45023.3	44566.1	10185 ug/L	10185 ppb	16:23:00
1	Ti 334.940†	5066056.5	5017417.3	9931.4 ug/L	9931.4 ppb	16:22:48
1	Tl 190.801†	22633.1	22445.5	10243 ug/L	10243 ppb	16:23:00
1	U 409.014†	-1240.4	1140.5	-15.673 ug/L	-15.673 ppb	16:23:00
1	V 292.402†	1285908.2	1274882.7	10017 ug/L	10017 ppb	16:22:54
1	Zn 213.857†	1293422.5	1279866.3	13662 ug/L	13662 ppb	16:22:54
1	SiO2†	1353233.4	1339324.1	102230 ug/L	102230 ppb	16:23:45
2	Sc Radial	4781.4	4781.4	101 %		16:21:47
2	Y RADIAL	4992.0	4992.0	99.05 %		16:21:47
2	Al 396.153Radial†	420.5	500.1	-11.811 ug/L	-11.811 ppb	16:21:47
2	Ca 317.933Radial†	33.9	15.5	27.652 ug/L	27.652 ppb	16:22:07
2	Fe 238.204 Radial†	-15.5	-22.6	59.513 ug/L	59.513 ppb	16:22:07
2	K 766.490 Radial†	1584745.2	1571322.9	296700 ug/L	296700 ppb	16:21:42
2	Mg 279.077 IEC†	-5.5	-7.6	-196.53 ug/L	-196.53 ppb	16:22:07
2	Na 589.592 Radial†	11.6	748.6	227.78 ug/L	227.78 ppb	16:21:47
2	Sr 421.552†	1370715.6	1361082.3	9698.9 ug/L	9698.9 ppb	16:21:42
2	Sc 361.383	799064.8	799064.8	101.04 %		16:23:14
2	Y 371.029	697929.2	697929.2	98.718 %		16:23:14
2	Ag 328.068†	-6806.4	-6912.6	5.1970 ug/L	5.1970 ppb	16:23:19
2	As 188.979†	22345.0	22142.8	9687.7 ug/L	9687.7 ppb	16:23:19
2	B 249.677†	202836.5	200965.9	4969.6 ug/L	4969.6 ppb	16:23:14
2	Ba 233.527†	1225305.6	1212654.7	14084 ug/L	14084 ppb	16:23:14
2	Be 313.107†	7255282.4	7189682.6	2835.4 ug/L	2835.4 ppb	16:23:08
2	Cd 226.502†	709810.3	702662.0	9665.7 ug/L	9665.7 ppb	16:23:14
2	Co 228.616†	334283.7	330895.6	9842.8 ug/L	9842.8 ppb	16:23:19
2	Cr 267.716†	1811681.7	1792909.5	23921 ug/L	23921 ppb	16:23:14
2	Cu 324.752†	5766977.0	5699692.1	21023 ug/L	21023 ppb	16:23:08
2	Mn 257.610†	6268047.0	6202880.3	9745.1 ug/L	9745.1 ppb	16:23:08
2	Mo 202.031†	108261.0	107130.9	9685.6 ug/L	9685.6 ppb	16:23:19
2	Ni 231.604†	319699.0	316316.7	9759.7 ug/L	9759.7 ppb	16:23:19

2	P 214.914†	32307.2	31774.7	13158 ug/L	13158 ppb	16:23:19
2	Pb 220.353†	158127.2	156551.6	24863 ug/L	24863 ppb	16:23:19
2	S 181.975 Axial†	41144.1	40678.1	50530 ug/L	50530 ppb	16:23:19
2	Sb 206.836†	27180.3	26866.7	10893 ug/L	10893 ppb	16:23:19
2	Se 196.026†	17112.8	16955.0	10096 ug/L	10096 ppb	16:23:19
2	Si 251.611†	1328799.4	1314524.4	46761 ug/L	46761 ppb	16:23:14
2	Sn 189.927†	45223.8	44743.6	10226 ug/L	10226 ppb	16:23:19
2	Ti 334.940†	5051021.2	5000189.1	9897.3 ug/L	9897.3 ppb	16:23:08
2	Tl 190.801†	22799.9	22600.1	10313 ug/L	10313 ppb	16:23:19
2	U 409.014†	-1291.8	1090.2	-17.326 ug/L	-17.326 ppb	16:23:19
2	V 292.402†	1286038.7	1274415.9	10014 ug/L	10014 ppb	16:23:14
2	Zn 213.857†	1293824.0	1279664.2	13660 ug/L	13660 ppb	16:23:14
2	SiO2†	1343731.3	1329292.9	101460 ug/L	101460 ppb	16:23:51
3	Sc Radial	4792.1	4792.1	101 %		16:22:18
3	Y RADIAL	5032.1	5032.1	99.84 %		16:22:18
3	Al 396.153Radial†	427.8	506.3	-3.9677 ug/L	-3.9677 ppb	16:22:18
3	Ca 317.933Radial†	37.2	18.6	33.354 ug/L	33.354 ppb	16:22:38
3	Fe 238.204 Radial†	-18.3	-25.4	28.923 ug/L	28.923 ppb	16:22:38
3	K 766.490 Radial†	1620218.0	1602960.8	302670 ug/L	302670 ppb	16:22:13
3	Mg 279.077 IEC†	-5.9	-8.0	-213.43 ug/L	-213.43 ppb	16:22:38
3	Na 589.592 Radial†	-130.8	607.5	184.86 ug/L	184.86 ppb	16:22:18
3	Sr 421.552†	1405935.0	1392942.9	9925.9 ug/L	9925.9 ppb	16:22:13
3	Sc 361.383	807594.1	807594.1	102.12 %		16:23:34
3	Y 371.029	703931.9	703931.9	99.567 %		16:23:34
3	Ag 328.068†	-6856.5	-6890.5	5.2640 ug/L	5.2640 ppb	16:23:39
3	As 188.979†	22469.4	22031.1	9638.7 ug/L	9638.7 ppb	16:23:39
3	B 249.677†	205674.8	201625.0	4986.1 ug/L	4986.1 ppb	16:23:34
3	Ba 233.527†	1238522.7	1212789.8	14086 ug/L	14086 ppb	16:23:34
3	Be 313.107†	7263187.7	7121589.0	2808.6 ug/L	2808.6 ppb	16:23:27
3	Cd 226.502†	716594.5	701886.1	9655.0 ug/L	9655.0 ppb	16:23:34
3	Co 228.616†	336055.0	329136.1	9790.4 ug/L	9790.4 ppb	16:23:39
3	Cr 267.716†	1829204.8	1791132.2	23898 ug/L	23898 ppb	16:23:34
3	Cu 324.752†	5802888.1	5674578.6	20930 ug/L	20930 ppb	16:23:27
3	Mn 257.610†	6291355.7	6160189.0	9678.0 ug/L	9678.0 ppb	16:23:27
3	Mo 202.031†	108923.1	106647.6	9641.9 ug/L	9641.9 ppb	16:23:39
3	Ni 231.604†	321192.9	314437.9	9701.7 ug/L	9701.7 ppb	16:23:39
3	P 214.914†	32492.3	31618.3	13091 ug/L	13091 ppb	16:23:39
3	Pb 220.353†	159043.3	155795.9	24743 ug/L	24743 ppb	16:23:39
3	S 181.975 Axial†	41352.9	40452.6	50250 ug/L	50250 ppb	16:23:39
3	Sb 206.836†	27420.6	26817.9	10872 ug/L	10872 ppb	16:23:39
3	Se 196.026†	17189.0	16850.8	10034 ug/L	10034 ppb	16:23:39
3	Si 251.611†	1348883.5	1320302.1	46968 ug/L	46968 ppb	16:23:34
3	Sn 189.927†	45417.7	44460.9	10161 ug/L	10161 ppb	16:23:39
3	Ti 334.940†	5074648.6	4970530.7	9838.6 ug/L	9838.6 ppb	16:23:27
3	Tl 190.801†	22962.5	22521.1	10276 ug/L	10276 ppb	16:23:39
3	U 409.014†	-1133.4	1258.8	-11.678 ug/L	-11.678 ppb	16:23:39
3	V 292.402†	1298780.3	1273450.6	10006 ug/L	10006 ppb	16:23:34
3	Zn 213.857†	1305858.1	1277924.7	13641 ug/L	13641 ppb	16:23:34
3	SiO2†	1335905.2	1307584.4	99797 ug/L	99797 ppb	16:23:57

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	801783.2	101.39 %	0.637			0.63%
Sc Radial	4748.4	100 %	1.4			1.40%
Y 371.029	699790.1	98.982 %	0.5082			0.51%
Y RADIAL	4970.1	98.61 %	1.497			1.52%
Ag 328.068†	-6879.5	5.3498 ug/L	0.20935	5.3498 ppb	0.20935	3.91%
Al 396.153Radial†	509.6	-1.3779 ug/L	11.94097	-1.3779 ppb	11.94097	866.60%
As 188.979†	22033.7	9640.2 ug/L	46.69	9640.2 ppb	46.69	0.48%
QC value within limits for As 188.979 Recovery = 96.40%						
B 249.677†	201095.8	4972.9 ug/L	11.89	4972.9 ppb	11.89	0.24%
QC value within limits for B 249.677 Recovery = 99.46%						
Ba 233.527†	1212708.3	14085 ug/L	0.8	14085 ppb	0.8	0.01%
QC value within limits for Ba 233.527 Recovery = 93.90%						
Be 313.107†	7175885.4	2829.9 ug/L	19.23	2829.9 ppb	19.23	0.68%
QC value within limits for Be 313.107 Recovery = 94.33%						
Ca 317.933Radial†	17.2	30.823 ug/L	2.9042	30.823 ppb	2.9042	9.42%
Cd 226.502†	702402.2	9662.1 ug/L	6.15	9662.1 ppb	6.15	0.06%
QC value within limits for Cd 226.502 Recovery = 96.62%						

Co 228.616†	329569.4	9803.2 ug/L	34.93	9803.2 ppb	34.93	0.36%
QC value within limits for Co 228.616 Recovery = 98.03%						
Cr 267.716†	1792527.5	23916 ug/L	16.7	23916 ppb	16.7	0.07%
QC value within limits for Cr 267.716 Recovery = 95.66%						
Cu 324.752†	5697483.7	21015 ug/L	80.7	21015 ppb	80.7	0.38%
QC value within limits for Cu 324.752 Recovery = 105.07%						
Fe 238.204 Radial†	-24.6	38.343 ug/L	18.3713	38.343 ppb	18.3713	47.91%
K 766.490 Radial†	1598669.8	301860 ug/L	4810.3	301860 ppb	4810.3	1.59%
QC value within limits for K 766.490 Radial Recovery = 100.62%						
Mg 279.077 IEC†	-7.4	-189.55 ug/L	28.031	-189.55 ppb	28.031	14.79%
Mn 257.610†	6195503.0	9733.5 ug/L	50.69	9733.5 ppb	50.69	0.52%
QC value within limits for Mn 257.610 Recovery = 97.34%						
Mo 202.031†	106736.0	9649.9 ug/L	32.46	9649.9 ppb	32.46	0.34%
QC value within limits for Mo 202.031 Recovery = 96.50%						
Na 589.592 Radial†	695.9	211.74 ug/L	23.425	211.74 ppb	23.425	11.06%
Ni 231.604†	314934.4	9717.0 ug/L	37.42	9717.0 ppb	37.42	0.39%
QC value within limits for Ni 231.604 Recovery = 97.17%						
P 214.914†	31632.9	13082 ug/L	80.2	13082 ppb	80.2	0.61%
QC value less than the lower limit for P 214.914 Recovery = 87.21%						
Pb 220.353†	155982.3	24772 ug/L	79.9	24772 ppb	79.9	0.32%
QC value within limits for Pb 220.353 Recovery = 99.09%						
S 181.975 Axial†	40466.8	50268 ug/L	254.0	50268 ppb	254.0	0.51%
QC value within limits for S 181.975 Axial Recovery = 100.54%						
Sb 206.836†	26772.5	10855 ug/L	49.2	10855 ppb	49.2	0.45%
QC value within limits for Sb 206.836 Recovery = 108.55%						
Se 196.026†	16857.0	10037 ug/L	56.6	10037 ppb	56.6	0.56%
QC value within limits for Se 196.026 Recovery = 100.37%						
Si 251.611†	1316375.0	46828 ug/L	121.4	46828 ppb	121.4	0.26%
QC value within limits for Si 251.611 Recovery = 93.66%						
Sn 189.927†	44590.2	10191 ug/L	32.7	10191 ppb	32.7	0.32%
QC value within limits for Sn 189.927 Recovery = 101.91%						
Sr 421.552†	1386903.7	9882.9 ug/L	166.70	9882.9 ppb	166.70	1.69%
QC value within limits for Sr 421.552 Recovery = 98.83%						
Ti 334.940†	4996045.7	9889.1 ug/L	46.98	9889.1 ppb	46.98	0.48%
QC value within limits for Ti 334.940 Recovery = 98.89%						
Tl 190.801†	22522.2	10277 ug/L	34.7	10277 ppb	34.7	0.34%
QC value within limits for Tl 190.801 Recovery = 102.77%						
U 409.014†	1163.2	-14.892 ug/L	2.9035	-14.892 ppb	2.9035	19.50%
V 292.402†	1274249.7	10012 ug/L	5.6	10012 ppb	5.6	0.06%
QC value within limits for V 292.402 Recovery = 100.12%						
Zn 213.857†	1279151.7	13654 ug/L	11.3	13654 ppb	11.3	0.08%
QC value within limits for Zn 213.857 Recovery = 91.03%						
SiO2†	1325400.5	101160 ug/L	1241.6	101160 ppb	1241.6	1.23%
QC value within limits for SiO2 Recovery = 94.54%						
QC Failed. Continue with analysis.						

=====
Analysis Begun

Start Time: 3/4/2010 16:39:42

Plasma On Time: 3/1/2010 06:57:40

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\030410.sif

Batch ID:

Results Data Set: 030410

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/4/2010 14:28:10

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/4/2010 16:39:43

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	4736.9	4736.9	99.8 %		16:41:35
1	Y RADIAL	4989.6	4989.6	99.00 %		16:41:35
1	Al 396.153Radial†	5177.7	5272.2	4803.8 ug/L	4803.8 ppb	16:41:35

1	Ca 317.933Radial†	2763.2	2751.4	4923.6 ug/L	4923.6 ppb	16:41:55
1	Fe 238.204 Radial†	491.1	484.9	5047.7 ug/L	5047.7 ppb	16:41:55
1	K 766.490 Radial†	29542.9	27304.7	5149.7 ug/L	5149.7 ppb	16:41:35
1	Mg 279.077 IEC†	130.3	128.5	5061.6 ug/L	5061.6 ppb	16:41:55
1	Na 589.592 Radial†	31779.9	32590.7	9917.0 ug/L	9917.0 ppb	16:41:35
1	Sr 421.552†	70380.4	70524.8	502.51 ug/L	502.51 ppb	16:41:35
1	Sc 361.383	796197.2	796197.2	100.68 %		16:42:52
1	Y 371.029	705184.9	705184.9	99.745 %		16:42:52
1	Ag 328.068†	97827.2	96989.0	490.24 ug/L	490.24 ppb	16:42:57
1	As 188.979†	1122.5	1143.5	501.28 ug/L	501.28 ppb	16:43:17
1	B 249.677†	19785.5	19875.5	492.07 ug/L	492.07 ppb	16:42:57
1	Ba 233.527†	42583.1	42299.1	491.75 ug/L	491.75 ppb	16:42:57
1	Be 313.107†	1247198.8	1248095.8	489.40 ug/L	489.40 ppb	16:42:52
1	Cd 226.502†	35966.4	35905.8	493.48 ug/L	493.48 ppb	16:42:57
1	Co 228.616†	16490.5	16443.3	489.29 ug/L	489.29 ppb	16:43:17
1	Cr 267.716†	37194.5	36881.7	492.39 ug/L	492.39 ppb	16:42:57
1	Cu 324.752†	139384.4	130717.9	482.14 ug/L	482.14 ppb	16:42:57
1	Mn 257.610†	313822.3	311269.3	489.31 ug/L	489.31 ppb	16:42:57
1	Mo 202.031†	5465.8	5416.8	490.18 ug/L	490.18 ppb	16:43:17
1	Ni 231.604†	16116.7	15927.2	491.43 ug/L	491.43 ppb	16:42:57
1	P 214.914†	4725.9	4495.1	2344.5 ug/L	2344.5 ppb	16:43:17
1	Pb 220.353†	3085.0	3121.7	497.31 ug/L	497.31 ppb	16:43:17
1	S 181.975 Axial†	828.2	781.5	969.94 ug/L	969.94 ppb	16:43:17
1	Sb 206.836†	1283.9	1242.4	504.68 ug/L	504.68 ppb	16:43:17
1	Se 196.026†	806.0	819.5	499.81 ug/L	499.81 ppb	16:43:17
1	Si 251.611†	68941.1	67923.6	2416.4 ug/L	2416.4 ppb	16:42:57
1	Sn 189.927†	2171.4	2143.7	490.49 ug/L	490.49 ppb	16:43:17
1	Ti 334.940†	245516.7	245190.9	485.61 ug/L	485.61 ppb	16:42:57
1	Tl 190.801†	1047.5	1076.1	491.14 ug/L	491.14 ppb	16:43:17
1	U 409.014†	12268.9	14554.5	480.93 ug/L	480.93 ppb	16:42:57
1	V 292.402†	61671.9	62914.1	495.07 ug/L	495.07 ppb	16:42:57
1	Zn 213.857†	46762.3	45648.8	485.96 ug/L	485.96 ppb	16:42:57
1	SiO2†	69338.3	68309.0	5213.9 ug/L	5213.9 ppb	16:44:24
2	Sc Radial	4737.8	4737.8	99.8 %		16:42:00
2	Y RADIAL	4958.1	4958.1	98.37 %		16:42:00
2	Al 396.153Radial†	5166.6	5260.1	4792.7 ug/L	4792.7 ppb	16:42:00
2	Ca 317.933Radial†	2806.6	2794.3	5000.6 ug/L	5000.6 ppb	16:42:20
2	Fe 238.204 Radial†	502.7	496.5	5167.4 ug/L	5167.4 ppb	16:42:20
2	K 766.490 Radial†	29665.6	27421.9	5171.8 ug/L	5171.8 ppb	16:42:00
2	Mg 279.077 IEC†	133.0	131.2	5168.4 ug/L	5168.4 ppb	16:42:20
2	Na 589.592 Radial†	32106.4	32911.7	10015 ug/L	10015 ppb	16:42:00
2	Sr 421.552†	70515.8	70646.6	503.38 ug/L	503.38 ppb	16:42:00
2	Sc 361.383	801647.2	801647.2	101.37 %		16:43:23
2	Y 371.029	709722.2	709722.2	100.39 %		16:43:23
2	Ag 328.068†	99283.4	97765.1	494.18 ug/L	494.18 ppb	16:43:28
2	As 188.979†	1129.1	1142.5	500.90 ug/L	500.90 ppb	16:43:48
2	B 249.677†	20120.2	20072.5	496.93 ug/L	496.93 ppb	16:43:28
2	Ba 233.527†	43223.9	42643.7	495.76 ug/L	495.76 ppb	16:43:28
2	Be 313.107†	1259615.2	1251922.7	490.91 ug/L	490.91 ppb	16:43:23
2	Cd 226.502†	36581.0	36269.2	498.47 ug/L	498.47 ppb	16:43:28
2	Co 228.616†	16625.7	16465.3	489.93 ug/L	489.93 ppb	16:43:48
2	Cr 267.716†	37736.9	37165.6	496.18 ug/L	496.18 ppb	16:43:28
2	Cu 324.752†	141866.3	132225.1	487.70 ug/L	487.70 ppb	16:43:28
2	Mn 257.610†	319409.6	314661.9	494.65 ug/L	494.65 ppb	16:43:28
2	Mo 202.031†	5502.5	5416.1	490.13 ug/L	490.13 ppb	16:43:48
2	Ni 231.604†	16389.2	16087.2	496.36 ug/L	496.36 ppb	16:43:28
2	P 214.914†	4759.7	4496.5	2344.0 ug/L	2344.0 ppb	16:43:48
2	Pb 220.353†	3097.3	3113.0	495.92 ug/L	495.92 ppb	16:43:48
2	S 181.975 Axial†	833.7	781.4	969.80 ug/L	969.80 ppb	16:43:48
2	Sb 206.836†	1277.7	1227.6	498.87 ug/L	498.87 ppb	16:43:48
2	Se 196.026†	804.9	813.0	496.21 ug/L	496.21 ppb	16:43:48
2	Si 251.611†	70188.3	68688.4	2443.6 ug/L	2443.6 ppb	16:43:28
2	Sn 189.927†	2183.1	2140.5	489.78 ug/L	489.78 ppb	16:43:48
2	Ti 334.940†	249710.4	247670.1	490.51 ug/L	490.51 ppb	16:43:28
2	Tl 190.801†	1057.2	1078.7	492.36 ug/L	492.36 ppb	16:43:48
2	U 409.014†	12672.1	14869.5	491.35 ug/L	491.35 ppb	16:43:28
2	V 292.402†	62639.3	63452.0	499.24 ug/L	499.24 ppb	16:43:28
2	Zn 213.857†	47419.9	45981.7	489.48 ug/L	489.48 ppb	16:43:28
2	SiO2†	68856.6	67365.6	5141.7 ug/L	5141.7 ppb	16:44:29
3	Sc Radial	4713.5	4713.5	99.3 %		16:42:25
3	Y RADIAL	4946.6	4946.6	98.14 %		16:42:25

3	Al 396.153Radial†	5181.2	5301.6	4830.9 ug/L	4830.9 ppb	16:42:25
3	Ca 317.933Radial†	2784.4	2786.4	4986.4 ug/L	4986.4 ppb	16:42:45
3	Fe 238.204 Radial†	498.2	494.6	5147.3 ug/L	5147.3 ppb	16:42:45
3	K 766.490 Radial†	29481.3	27390.0	5165.7 ug/L	5165.7 ppb	16:42:25
3	Mg 279.077 IEC†	135.6	134.5	5298.9 ug/L	5298.9 ppb	16:42:45
3	Na 589.592 Radial†	32184.2	33156.5	10089 ug/L	10089 ppb	16:42:25
3	Sr 421.552†	70772.9	71271.3	507.83 ug/L	507.83 ppb	16:42:25
3	Sc 361.383	809019.7	809019.7	102.30 %		16:43:54
3	Y 371.029	715486.5	715486.5	101.20 %		16:43:54
3	Ag 328.068†	97848.6	95470.0	482.62 ug/L	482.62 ppb	16:43:59
3	As 188.979†	1124.6	1127.9	494.45 ug/L	494.45 ppb	16:44:19
3	B 249.677†	19881.6	19658.3	486.65 ug/L	486.65 ppb	16:43:59
3	Ba 233.527†	42703.1	41746.0	485.33 ug/L	485.33 ppb	16:43:59
3	Be 313.107†	1265218.0	1246075.8	488.60 ug/L	488.60 ppb	16:43:54
3	Cd 226.502†	36075.7	35446.4	487.15 ug/L	487.15 ppb	16:43:59
3	Co 228.616†	16632.5	16322.6	485.70 ug/L	485.70 ppb	16:44:19
3	Cr 267.716†	37333.0	36431.6	486.38 ug/L	486.38 ppb	16:43:59
3	Cu 324.752†	139248.0	128390.4	473.57 ug/L	473.57 ppb	16:43:59
3	Mn 257.610†	314734.4	307220.6	482.95 ug/L	482.95 ppb	16:43:59
3	Mo 202.031†	5502.4	5366.6	485.65 ug/L	485.65 ppb	16:44:19
3	Ni 231.604†	16181.5	15736.9	485.55 ug/L	485.55 ppb	16:43:59
3	P 214.914†	4741.2	4435.7	2313.8 ug/L	2313.8 ppb	16:44:19
3	Pb 220.353†	3098.4	3086.2	491.67 ug/L	491.67 ppb	16:44:19
3	S 181.975 Axial†	831.4	771.7	957.66 ug/L	957.66 ppb	16:44:19
3	Sb 206.836†	1288.7	1226.8	498.42 ug/L	498.42 ppb	16:44:19
3	Se 196.026†	815.1	815.7	497.76 ug/L	497.76 ppb	16:44:19
3	Si 251.611†	69136.4	67029.2	2384.5 ug/L	2384.5 ppb	16:43:59
3	Sn 189.927†	2186.0	2123.7	485.94 ug/L	485.94 ppb	16:44:19
3	Ti 334.940†	245616.9	241423.9	478.14 ug/L	478.14 ppb	16:43:59
3	Tl 190.801†	1057.4	1069.3	488.01 ug/L	488.01 ppb	16:44:19
3	U 409.014†	12134.3	14229.8	470.16 ug/L	470.16 ppb	16:43:59
3	V 292.402†	61807.0	62075.3	488.47 ug/L	488.47 ppb	16:43:59
3	Zn 213.857†	46798.6	44948.1	478.47 ug/L	478.47 ppb	16:43:59
3	Sio2†	69168.5	67051.5	5117.8 ug/L	5117.8 ppb	16:44:34

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	802288.0	101.45 %	0.814			0.80%
Sc Radial	4729.4	99.6 %	0.29			0.29%
Y 371.029	710131.2	100.44 %	0.730			0.73%
Y RADIAL	4964.8	98.50 %	0.441			0.45%
Ag 328.068†	96741.4	489.02 ug/L	5.877	489.02 ppb	5.877	1.20%
QC value within limits for Ag 328.068 Recovery = 97.80%						
Al 396.153Radial†	5277.9	4809.1 ug/L	19.67	4809.1 ppb	19.67	0.41%
QC value within limits for Al 396.153Radial Recovery = 96.18%						
As 188.979†	1138.0	498.88 ug/L	3.836	498.88 ppb	3.836	0.77%
QC value within limits for As 188.979 Recovery = 99.78%						
B 249.677†	19868.9	491.88 ug/L	5.144	491.88 ppb	5.144	1.05%
QC value within limits for B 249.677 Recovery = 98.38%						
Ba 233.527†	42229.6	490.95 ug/L	5.263	490.95 ppb	5.263	1.07%
QC value within limits for Ba 233.527 Recovery = 98.19%						
Be 313.107†	1248698.1	489.64 ug/L	1.175	489.64 ppb	1.175	0.24%
QC value within limits for Be 313.107 Recovery = 97.93%						
Ca 317.933Radial†	2777.4	4970.2 ug/L	40.94	4970.2 ppb	40.94	0.82%
QC value within limits for Ca 317.933Radial Recovery = 99.40%						
Cd 226.502†	35873.8	493.04 ug/L	5.673	493.04 ppb	5.673	1.15%
QC value within limits for Cd 226.502 Recovery = 98.61%						
Co 228.616†	16410.4	488.31 ug/L	2.281	488.31 ppb	2.281	0.47%
QC value within limits for Co 228.616 Recovery = 97.66%						
Cr 267.716†	36826.3	491.65 ug/L	4.939	491.65 ppb	4.939	1.00%
QC value within limits for Cr 267.716 Recovery = 98.33%						
Cu 324.752†	130444.4	481.14 ug/L	7.120	481.14 ppb	7.120	1.48%
QC value within limits for Cu 324.752 Recovery = 96.23%						
Fe 238.204 Radial†	492.0	5120.8 ug/L	64.09	5120.8 ppb	64.09	1.25%
QC value within limits for Fe 238.204 Radial Recovery = 102.42%						
K 766.490 Radial†	27372.2	5162.4 ug/L	11.41	5162.4 ppb	11.41	0.22%
QC value within limits for K 766.490 Radial Recovery = 103.25%						
Mg 279.077 IEC†	131.4	5176.3 ug/L	118.84	5176.3 ppb	118.84	2.30%
QC value within limits for Mg 279.077 IEC Recovery = 103.53%						

Mn 257.610†	311050.6	488.97 ug/L	5.857	488.97 ppb	5.857	1.20%
QC value within limits for Mn 257.610 Recovery = 97.79%						
Mo 202.031†	5399.8	488.65 ug/L	2.603	488.65 ppb	2.603	0.53%
QC value within limits for Mo 202.031 Recovery = 97.73%						
Na 589.592 Radial†	32886.3	10007 ug/L	86.3	10007 ppb	86.3	0.86%
QC value within limits for Na 589.592 Radial Recovery = 100.07%						
Ni 231.604†	15917.1	491.11 ug/L	5.413	491.11 ppb	5.413	1.10%
QC value within limits for Ni 231.604 Recovery = 98.22%						
P 214.914†	4475.8	2334.1 ug/L	17.56	2334.1 ppb	17.56	0.75%
QC value within limits for P 214.914 Recovery = 93.36%						
Pb 220.353†	3106.9	494.96 ug/L	2.938	494.96 ppb	2.938	0.59%
QC value within limits for Pb 220.353 Recovery = 98.99%						
S 181.975 Axial†	778.2	965.80 ug/L	7.049	965.80 ppb	7.049	0.73%
QC value within limits for S 181.975 Axial Recovery = 96.58%						
Sb 206.836†	1232.3	500.66 ug/L	3.492	500.66 ppb	3.492	0.70%
QC value within limits for Sb 206.836 Recovery = 100.13%						
Se 196.026†	816.1	497.93 ug/L	1.805	497.93 ppb	1.805	0.36%
QC value within limits for Se 196.026 Recovery = 99.59%						
Si 251.611†	67880.4	2414.8 ug/L	29.59	2414.8 ppb	29.59	1.23%
QC value within limits for Si 251.611 Recovery = 96.59%						
Sn 189.927†	2136.0	488.74 ug/L	2.451	488.74 ppb	2.451	0.50%
QC value within limits for Sn 189.927 Recovery = 97.75%						
Sr 421.552†	70814.2	504.57 ug/L	2.854	504.57 ppb	2.854	0.57%
QC value within limits for Sr 421.552 Recovery = 100.91%						
Ti 334.940†	244761.6	484.75 ug/L	6.231	484.75 ppb	6.231	1.29%
QC value within limits for Ti 334.940 Recovery = 96.95%						
Tl 190.801†	1074.7	490.50 ug/L	2.246	490.50 ppb	2.246	0.46%
QC value within limits for Tl 190.801 Recovery = 98.10%						
U 409.014†	14551.3	480.81 ug/L	10.593	480.81 ppb	10.593	2.20%
QC value within limits for U 409.014 Recovery = 96.16%						
V 292.402†	62813.8	494.26 ug/L	5.431	494.26 ppb	5.431	1.10%
QC value within limits for V 292.402 Recovery = 98.85%						
Zn 213.857†	45526.2	484.64 ug/L	5.626	484.64 ppb	5.626	1.16%
QC value within limits for Zn 213.857 Recovery = 96.93%						
SiO2†	67575.4	5157.8 ug/L	50.03	5157.8 ppb	50.03	0.97%
QC value within limits for SiO2 Recovery = 96.45%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/4/2010 16:46:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4765.4	4765.4	100 %		16:48:37
1	Y RADIAL	5023.8	5023.8	99.67 %		16:48:37
1	Al 396.153Radial†	-88.3	-5.5	-5.0572 ug/L	-5.0572 ppb	16:48:57
1	Ca 317.933Radial†	17.6	-0.7	-1.3236 ug/L	-1.3236 ppb	16:48:57
1	Fe 238.204 Radial†	9.1	1.8	18.563 ug/L	18.563 ppb	16:48:57
1	K 766.490 Radial†	2684.2	367.6	69.415 ug/L	69.415 ppb	16:48:37
1	Mg 279.077 IEC†	1.5	-0.6	-25.300 ug/L	-25.300 ppb	16:48:57
1	Na 589.592 Radial†	-673.9	65.7	19.986 ug/L	19.986 ppb	16:48:37
1	Sr 421.552†	6.3	-12.6	-0.0900 ug/L	-0.0900 ppb	16:48:37
1	Sc 361.383	802415.4	802415.4	101.47 %		16:49:54
1	Y 371.029	720123.2	720123.2	101.86 %		16:49:54
1	Ag 328.068†	206.2	26.8	0.1383 ug/L	0.1383 ppb	16:49:54
1	As 188.979†	-21.9	7.0	3.0521 ug/L	3.0521 ppb	16:50:14
1	B 249.677†	284.1	504.2	12.535 ug/L	12.535 ppb	16:50:14
1	Ba 233.527†	12.3	16.2	0.1884 ug/L	0.1884 ppb	16:50:14
1	Be 313.107†	-9404.7	63.8	0.0253 ug/L	0.0253 ppb	16:49:54
1	Cd 226.502†	-182.1	3.1	0.0422 ug/L	0.0422 ppb	16:50:14
1	Co 228.616†	-55.2	9.9	0.2950 ug/L	0.2950 ppb	16:50:14
1	Cr 267.716†	72.2	10.0	0.1325 ug/L	0.1325 ppb	16:50:14
1	Cu 324.752†	7764.0	-72.0	-0.2664 ug/L	-0.2664 ppb	16:49:54
1	Mn 257.610†	470.4	33.2	0.0550 ug/L	0.0550 ppb	16:50:14
1	Mo 202.031†	12.8	0.7	0.0604 ug/L	0.0604 ppb	16:50:14
1	Ni 231.604†	98.7	16.8	0.5188 ug/L	0.5188 ppb	16:50:14
1	P 214.914†	206.6	4.7	2.6217 ug/L	2.6217 ppb	16:50:14
1	Pb 220.353†	-47.5	10.7	1.6901 ug/L	1.6901 ppb	16:50:14
1	S 181.975 Axial†	42.2	0.5	0.6451 ug/L	0.6451 ppb	16:50:14
1	Sb 206.836†	45.1	11.6	4.5864 ug/L	4.5864 ppb	16:50:14
1	Se 196.026†	-18.7	0.6	0.3678 ug/L	0.3678 ppb	16:50:14
1	Si 251.611†	606.6	46.7	1.6634 ug/L	1.6634 ppb	16:50:14
1	Sn 189.927†	22.8	9.4	2.1374 ug/L	2.1374 ppb	16:50:14
1	Ti 334.940†	-1285.1	68.2	0.1356 ug/L	0.1356 ppb	16:49:54
1	Tl 190.801†	-32.0	4.2	1.8994 ug/L	1.8994 ppb	16:50:14
1	U 409.014†	-2305.4	96.6	3.1990 ug/L	3.1990 ppb	16:49:54
1	V 292.402†	-1657.2	26.1	0.2064 ug/L	0.2064 ppb	16:49:54
1	Zn 213.857†	755.3	-52.9	-0.5743 ug/L	-0.5743 ppb	16:50:14
1	SiO2†	597.2	28.2	2.1591 ug/L	2.1591 ppb	16:51:10
2	Sc Radial	4868.3	4868.3	103 %		16:49:02
2	Y RADIAL	5177.0	5177.0	102.7 %		16:49:02
2	Al 396.153Radial†	-81.2	3.3	2.9928 ug/L	2.9928 ppb	16:49:22
2	Ca 317.933Radial†	19.9	1.2	2.1274 ug/L	2.1274 ppb	16:49:22
2	Fe 238.204 Radial†	9.2	1.7	17.481 ug/L	17.481 ppb	16:49:22
2	K 766.490 Radial†	2729.9	355.7	67.148 ug/L	67.148 ppb	16:49:02
2	Mg 279.077 IEC†	2.5	0.3	12.349 ug/L	12.349 ppb	16:49:22
2	Na 589.592 Radial†	-645.0	108.0	32.877 ug/L	32.877 ppb	16:49:02
2	Sr 421.552†	27.6	8.0	0.0567 ug/L	0.0567 ppb	16:49:02
2	Sc 361.383	789630.6	789630.6	99.851 %		16:50:19
2	Y 371.029	707736.1	707736.1	100.11 %		16:50:19
2	Ag 328.068†	238.5	62.4	0.3204 ug/L	0.3204 ppb	16:50:19
2	As 188.979†	-18.9	9.7	4.2266 ug/L	4.2266 ppb	16:50:39
2	B 249.677†	244.2	468.8	11.656 ug/L	11.656 ppb	16:50:39
2	Ba 233.527†	-13.1	-9.1	-0.1054 ug/L	-0.1054 ppb	16:50:39
2	Be 313.107†	-9303.0	15.6	0.0063 ug/L	0.0063 ppb	16:50:19
2	Cd 226.502†	-167.8	14.5	0.1979 ug/L	0.1979 ppb	16:50:39
2	Co 228.616†	-61.6	2.7	0.0805 ug/L	0.0805 ppb	16:50:39
2	Cr 267.716†	70.9	9.8	0.1315 ug/L	0.1315 ppb	16:50:39
2	Cu 324.752†	7609.4	-103.0	-0.3778 ug/L	-0.3778 ppb	16:50:19
2	Mn 257.610†	448.3	18.6	0.0304 ug/L	0.0304 ppb	16:50:39
2	Mo 202.031†	18.4	6.5	0.5845 ug/L	0.5845 ppb	16:50:39
2	Ni 231.604†	84.1	3.8	0.1162 ug/L	0.1162 ppb	16:50:39

2	P 214.914†	217.5	19.0	10.352 ug/L	10.352 ppb	16:50:39
2	Pb 220.353†	-56.4	1.0	0.1598 ug/L	0.1598 ppb	16:50:39
2	S 181.975 Axial†	46.8	5.8	7.1833 ug/L	7.1833 ppb	16:50:39
2	Sb 206.836†	47.0	14.2	5.6030 ug/L	5.6030 ppb	16:50:39
2	Se 196.026†	-15.1	3.8	2.3131 ug/L	2.3131 ppb	16:50:39
2	Si 251.611†	595.0	44.7	1.5876 ug/L	1.5876 ppb	16:50:39
2	Sn 189.927†	15.7	2.7	0.6174 ug/L	0.6174 ppb	16:50:39
2	Ti 334.940†	-1289.7	43.2	0.0856 ug/L	0.0856 ppb	16:50:19
2	Tl 190.801†	-36.6	-1.0	-0.4384 ug/L	-0.4384 ppb	16:50:39
2	U 409.014†	-2420.1	-55.1	-1.8306 ug/L	-1.8306 ppb	16:50:19
2	V 292.402†	-1651.1	5.7	0.0469 ug/L	0.0469 ppb	16:50:19
2	Zn 213.857†	756.7	-39.5	-0.4272 ug/L	-0.4272 ppb	16:50:39
2	SiO2†	613.5	54.0	4.1199 ug/L	4.1199 ppb	16:51:15
3	Sc Radial	4746.7	4746.7	100.0 %		16:49:27
3	Y RADIAL	4980.1	4980.1	98.81 %		16:49:27
3	Al 396.153Radial†	-85.8	-3.4	-3.0575 ug/L	-3.0575 ppb	16:49:47
3	Ca 317.933Radial†	21.7	3.4	6.1074 ug/L	6.1074 ppb	16:49:47
3	Fe 238.204 Radial†	11.4	4.1	42.714 ug/L	42.714 ppb	16:49:47
3	K 766.490 Radial†	2652.1	346.1	65.346 ug/L	65.346 ppb	16:49:27
3	Mg 279.077 IEC†	0.1	-2.0	-80.571 ug/L	-80.571 ppb	16:49:47
3	Na 589.592 Radial†	-688.1	48.7	14.833 ug/L	14.833 ppb	16:49:27
3	Sr 421.552†	32.6	13.6	0.0970 ug/L	0.0970 ppb	16:49:27
3	Sc 361.383	788724.2	788724.2	99.736 %		16:50:44
3	Y 371.029	705770.3	705770.3	99.827 %		16:50:44
3	Ag 328.068†	160.8	-15.2	-0.0612 ug/L	-0.0612 ppb	16:50:44
3	As 188.979†	-21.8	6.7	2.9311 ug/L	2.9311 ppb	16:51:04
3	B 249.677†	248.7	473.6	11.769 ug/L	11.769 ppb	16:51:04
3	Ba 233.527†	0.6	4.7	0.0543 ug/L	0.0543 ppb	16:51:04
3	Be 313.107†	-9406.1	-98.5	-0.0383 ug/L	-0.0383 ppb	16:50:44
3	Cd 226.502†	-150.7	31.5	0.4274 ug/L	0.4274 ppb	16:51:04
3	Co 228.616†	-52.7	11.5	0.3405 ug/L	0.3405 ppb	16:51:04
3	Cr 267.716†	97.7	36.8	0.4925 ug/L	0.4925 ppb	16:51:04
3	Cu 324.752†	7686.4	-17.0	-0.0576 ug/L	-0.0576 ppb	16:50:44
3	Mn 257.610†	438.9	9.7	0.0227 ug/L	0.0227 ppb	16:51:04
3	Mo 202.031†	4.4	-7.6	-0.6817 ug/L	-0.6817 ppb	16:51:04
3	Ni 231.604†	75.8	-4.4	-0.1375 ug/L	-0.1375 ppb	16:51:04
3	P 214.914†	208.1	9.9	5.3501 ug/L	5.3501 ppb	16:51:04
3	Pb 220.353†	-66.0	-8.7	-1.3869 ug/L	-1.3869 ppb	16:51:04
3	S 181.975 Axial†	50.3	9.4	11.676 ug/L	11.676 ppb	16:51:04
3	Sb 206.836†	46.1	13.4	5.2787 ug/L	5.2787 ppb	16:51:04
3	Se 196.026†	-10.7	8.2	4.9835 ug/L	4.9835 ppb	16:51:04
3	Si 251.611†	586.5	36.9	1.3255 ug/L	1.3255 ppb	16:51:04
3	Sn 189.927†	25.9	12.9	2.9469 ug/L	2.9469 ppb	16:51:04
3	Ti 334.940†	-1268.9	62.5	0.1333 ug/L	0.1333 ppb	16:50:44
3	Tl 190.801†	-31.2	4.5	2.0223 ug/L	2.0223 ppb	16:51:04
3	U 409.014†	-2522.5	-160.5	-5.3290 ug/L	-5.3290 ppb	16:50:44
3	V 292.402†	-1721.9	-67.1	-0.5492 ug/L	-0.5492 ppb	16:50:44
3	Zn 213.857†	764.0	-31.3	-0.3412 ug/L	-0.3412 ppb	16:51:04
3	SiO2†	618.7	60.0	4.6102 ug/L	4.6102 ppb	16:51:20

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793590.0	100.35 %	0.968			0.96%
Sc Radial	4793.5	101 %	1.4			1.37%
Y 371.029	711209.9	100.60 %	1.101			1.09%
Y RADIAL	5060.3	100.4 %	2.05			2.04%
Ag 328.068†	24.6	0.1325 ug/L	0.19087	0.1325 ppb	0.19087	144.06%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.9	-1.7073 ug/L	4.19142	-1.7073 ppb	4.19142	245.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.8	3.4033 ug/L	0.71558	3.4033 ppb	0.71558	21.03%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	482.2	11.987 ug/L	0.4784	11.987 ppb	0.4784	3.99%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.9	0.0458 ug/L	0.14713	0.0458 ppb	0.14713	321.49%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-6.4	-0.0022 ug/L	0.03261	-0.0022 ppb	0.03261	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.3	2.3038 ug/L	3.71864	2.3038 ppb	3.71864	161.42%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	16.4	0.2225 ug/L	0.19378	0.2225 ppb	0.19378	87.10%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	8.0	0.2387 ug/L	0.13884	0.2387 ppb	0.13884	58.18%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	18.8	0.2522 ug/L	0.20816	0.2522 ppb	0.20816	82.55%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-64.0	-0.2339 ug/L	0.16257	-0.2339 ppb	0.16257	69.50%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	2.5	26.253 ug/L	14.2663	26.253 ppb	14.2663	54.34%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	356.5	67.303 ug/L	2.0388	67.303 ppb	2.0388	3.03%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.8	-31.174 ug/L	46.7375	-31.174 ppb	46.7375	149.93%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	20.5	0.0360 ug/L	0.01686	0.0360 ppb	0.01686	46.83%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-0.2	-0.0122 ug/L	0.63622	-0.0122 ppb	0.63622	>999.9%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	74.2	22.565 ug/L	9.2944	22.565 ppb	9.2944	41.19%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	5.4	0.1658 ug/L	0.33096	0.1658 ppb	0.33096	199.58%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	11.2	6.1078 ug/L	3.92026	6.1078 ppb	3.92026	64.18%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	1.0	0.1543 ug/L	1.53848	0.1543 ppb	1.53848	996.87%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	5.2	6.5016 ug/L	5.54716	6.5016 ppb	5.54716	85.32%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	13.1	5.1560 ug/L	0.51927	5.1560 ppb	0.51927	10.07%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	4.2	2.5548 ug/L	2.31730	2.5548 ppb	2.31730	90.70%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	42.8	1.5255 ug/L	0.17728	1.5255 ppb	0.17728	11.62%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	8.3	1.9006 ug/L	1.18267	1.9006 ppb	1.18267	62.23%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	3.0	0.0212 ug/L	0.09843	0.0212 ppb	0.09843	463.57%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	58.0	0.1182 ug/L	0.02825	0.1182 ppb	0.02825	23.91%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	2.6	1.1611 ug/L	1.38660	1.1611 ppb	1.38660	119.42%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-39.7	-1.3202 ug/L	4.28687	-1.3202 ppb	4.28687	324.71%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-11.8	-0.0986 ug/L	0.39829	-0.0986 ppb	0.39829	403.87%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-41.2	-0.4476 ug/L	0.11784	-0.4476 ppb	0.11784	26.33%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		47.4	3.6298 ug/L	1.29698	3.6298 ppb	1.29698	35.73%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: LR1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 3/4/2010 16:53:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4690.1	4690.1	98.8	%		16:55:25
1	Y RADIAL	4977.1	4977.1	98.75	%		16:55:25
1	Al 396.153Radial†	-110.5	-29.3	-25.557	ug/L	-25.557 ppb	16:55:45
1	Ca 317.933Radial†	13.4	-4.7	-8.4450	ug/L	-8.4450 ppb	16:55:45
1	Fe 238.204 Radial†	36469.2	36911.6	383090	ug/L	383090 ppb	16:55:25
1	K 766.490 Radial†	2275.1	-3.6	-0.6300	ug/L	-0.6300 ppb	16:55:25
1	Mg 279.077 IEC†	9.9	7.9	-90.518	ug/L	-90.518 ppb	16:55:45
1	Na 589.592 Radial†	-704.6	23.8	7.2475	ug/L	7.2475 ppb	16:55:25
1	Sr 421.552†	81.5	63.5	0.4529	ug/L	0.4529 ppb	16:55:25
1	Sc 361.383	784172.3	784172.3	99.160	%		16:56:43
1	Y 371.029	698904.4	698904.4	98.856	%		16:56:43
1	Ag 328.068†	-21924.3	-22286.4	5.9643	ug/L	5.9643 ppb	16:56:43
1	As 188.979†	-165.1	-137.9	29.877	ug/L	29.877 ppb	16:57:03
1	B 249.677†	1627.6	1865.6	-15.864	ug/L	-15.864 ppb	16:56:43
1	Ba 233.527†	-1480.7	-1489.2	-5.4968	ug/L	-5.4968 ppb	16:56:43
1	Be 313.107†	-9134.1	121.1	0.0471	ug/L	0.0471 ppb	16:56:43
1	Cd 226.502†	2629.8	2834.7	-0.5874	ug/L	-0.5874 ppb	16:56:43
1	Co 228.616†	474.6	542.9	10.553	ug/L	10.553 ppb	16:57:03
1	Cr 267.716†	-527.8	-593.5	-0.5217	ug/L	-0.5217 ppb	16:56:43
1	Cu 324.752†	1610.7	-6099.4	-2.2592	ug/L	-2.2592 ppb	16:56:43
1	Mn 257.610†	-26703.5	-27360.1	-5.1605	ug/L	-5.1605 ppb	16:56:43
1	Mo 202.031†	-285.1	-299.5	2.6599	ug/L	2.6599 ppb	16:56:43
1	Ni 231.604†	111.2	31.7	0.9682	ug/L	0.9682 ppb	16:57:03
1	P 214.914†	559.8	365.7	-105.78	ug/L	-105.78 ppb	16:57:03
1	Pb 220.353†	152.2	211.0	2.7376	ug/L	2.7376 ppb	16:57:03
1	S 181.975 Axial†	50.1	9.5	11.824	ug/L	11.824 ppb	16:57:03
1	Sb 206.836†	25.2	-7.4	-7.6834	ug/L	-7.6834 ppb	16:57:03
1	Se 196.026†	-1403.0	-1395.9	28.809	ug/L	28.809 ppb	16:57:03
1	Si 251.611†	-216.0	-769.0	-27.090	ug/L	-27.090 ppb	16:56:43
1	Sn 189.927†	-16.6	-29.8	-28.808	ug/L	-28.808 ppb	16:57:03
1	Ti 334.940†	-1391.3	-68.4	-0.1901	ug/L	-0.1901 ppb	16:56:43
1	Tl 190.801†	-34.4	1.0	0.0952	ug/L	0.0952 ppb	16:57:03
1	U 409.014†	-232.8	2133.8	27.099	ug/L	27.099 ppb	16:56:43
1	V 292.402†	5126.2	6829.0	-3.0028	ug/L	-3.0028 ppb	16:56:43
1	Zn 213.857†	3654.3	2887.9	-26.275	ug/L	-26.275 ppb	16:57:03
1	SiO2†	-173.9	-735.7	-55.557	ug/L	-55.557 ppb	16:58:00
2	Sc Radial	4665.0	4665.0	98.3	%		16:55:50
2	Y RADIAL	4918.6	4918.6	97.59	%		16:55:50
2	Al 396.153Radial†	-103.8	-23.1	-19.867	ug/L	-19.867 ppb	16:56:10
2	Ca 317.933Radial†	14.6	-3.4	-6.0681	ug/L	-6.0681 ppb	16:56:10
2	Fe 238.204 Radial†	36177.9	36813.8	382080	ug/L	382080 ppb	16:55:50
2	K 766.490 Radial†	2299.3	33.4	6.3539	ug/L	6.3539 ppb	16:55:50
2	Mg 279.077 IEC†	11.7	9.8	-11.889	ug/L	-11.889 ppb	16:56:10
2	Na 589.592 Radial†	-707.7	16.7	5.0950	ug/L	5.0950 ppb	16:55:50
2	Sr 421.552†	87.9	70.5	0.5026	ug/L	0.5026 ppb	16:55:50
2	Sc 361.383	777133.5	777133.5	98.270	%		16:57:09
2	Y 371.029	691875.0	691875.0	97.862	%		16:57:09
2	Ag 328.068†	-21626.8	-22183.9	6.1628	ug/L	6.1628 ppb	16:57:09
2	As 188.979†	-161.0	-135.2	30.794	ug/L	30.794 ppb	16:57:29
2	B 249.677†	1590.4	1842.6	-16.273	ug/L	-16.273 ppb	16:57:09
2	Ba 233.527†	-1520.2	-1542.9	-6.1527	ug/L	-6.1527 ppb	16:57:09
2	Be 313.107†	-9161.1	10.2	0.0034	ug/L	0.0034 ppb	16:57:09
2	Cd 226.502†	2598.2	2826.6	-0.5945	ug/L	-0.5945 ppb	16:57:09
2	Co 228.616†	499.8	572.9	11.460	ug/L	11.460 ppb	16:57:29
2	Cr 267.716†	-466.4	-535.9	0.2259	ug/L	0.2259 ppb	16:57:09
2	Cu 324.752†	1610.1	-6085.3	-2.2613	ug/L	-2.2613 ppb	16:57:09
2	Mn 257.610†	-26433.5	-27329.2	-5.2154	ug/L	-5.2154 ppb	16:57:09
2	Mo 202.031†	-283.0	-300.0	2.5397	ug/L	2.5397 ppb	16:57:09
2	Ni 231.604†	98.5	19.7	0.5989	ug/L	0.5989 ppb	16:57:29

2	P 214.914†	591.3	402.9	-84.785 ug/L	-84.785 ppb	16:57:29
2	Pb 220.353†	176.6	237.3	6.9863 ug/L	6.9863 ppb	16:57:29
2	S 181.975 Axial†	47.1	6.9	8.6066 ug/L	8.6066 ppb	16:57:29
2	Sb 206.836†	26.4	-6.0	-7.1318 ug/L	-7.1318 ppb	16:57:29
2	Se 196.026†	-1380.5	-1385.8	32.564 ug/L	32.564 ppb	16:57:29
2	Si 251.611†	-192.3	-746.8	-26.300 ug/L	-26.300 ppb	16:57:09
2	Sn 189.927†	-15.5	-28.8	-28.517 ug/L	-28.517 ppb	16:57:29
2	Ti 334.940†	-1431.0	-121.4	-0.3020 ug/L	-0.3020 ppb	16:57:09
2	Tl 190.801†	-36.1	-1.0	-0.8360 ug/L	-0.8360 ppb	16:57:29
2	U 409.014†	-203.1	2161.9	28.144 ug/L	28.144 ppb	16:57:09
2	V 292.402†	4965.9	6712.6	-3.7558 ug/L	-3.7558 ppb	16:57:09
2	Zn 213.857†	3653.6	2920.7	-25.769 ug/L	-25.769 ppb	16:57:29
2	SiO2†	-207.0	-771.0	-58.258 ug/L	-58.258 ppb	16:58:05
3	Sc Radial	4674.1	4674.1	98.4 %		16:56:15
3	Y RADIAL	4941.5	4941.5	98.04 %		16:56:15
3	Al 396.153Radial†	-98.9	-18.0	-15.241 ug/L	-15.241 ppb	16:56:35
3	Ca 317.933Radial†	13.0	-5.1	-9.0881 ug/L	-9.0881 ppb	16:56:35
3	Fe 238.204 Radial†	36474.2	37043.2	384460 ug/L	384460 ppb	16:56:15
3	K 766.490 Radial†	2349.0	79.4	15.044 ug/L	15.044 ppb	16:56:15
3	Mg 279.077 IEC†	7.6	5.6	-183.13 ug/L	-183.13 ppb	16:56:35
3	Na 589.592 Radial†	-697.8	28.2	8.5798 ug/L	8.5798 ppb	16:56:15
3	Sr 421.552†	53.6	35.5	0.2529 ug/L	0.2529 ppb	16:56:15
3	Sc 361.383	779911.6	779911.6	98.622 %		16:57:35
3	Y 371.029	694330.4	694330.4	98.209 %		16:57:35
3	Ag 328.068†	-21552.6	-22030.3	7.6695 ug/L	7.6695 ppb	16:57:35
3	As 188.979†	-160.7	-134.4	31.713 ug/L	31.713 ppb	16:57:55
3	B 249.677†	1576.0	1822.2	-17.166 ug/L	-17.166 ppb	16:57:35
3	Ba 233.527†	-1531.3	-1548.7	-6.1461 ug/L	-6.1461 ppb	16:57:35
3	Be 313.107†	-9201.9	2.0	0.0002 ug/L	0.0002 ppb	16:57:35
3	Cd 226.502†	2628.5	2847.9	-0.5473 ug/L	-0.5473 ppb	16:57:35
3	Co 228.616†	492.9	564.2	11.166 ug/L	11.166 ppb	16:57:55
3	Cr 267.716†	-452.6	-520.1	0.4827 ug/L	0.4827 ppb	16:57:35
3	Cu 324.752†	1452.3	-6251.1	-2.7468 ug/L	-2.7468 ppb	16:57:35
3	Mn 257.610†	-26281.8	-27079.6	-4.5811 ug/L	-4.5811 ppb	16:57:35
3	Mo 202.031†	-274.2	-290.0	3.6289 ug/L	3.6289 ppb	16:57:35
3	Ni 231.604†	112.3	33.4	1.0201 ug/L	1.0201 ppb	16:57:55
3	P 214.914†	574.5	383.7	-96.972 ug/L	-96.972 ppb	16:57:55
3	Pb 220.353†	147.7	207.3	2.0424 ug/L	2.0424 ppb	16:57:55
3	S 181.975 Axial†	55.4	15.1	18.744 ug/L	18.744 ppb	16:57:55
3	Sb 206.836†	15.3	-17.4	-11.531 ug/L	-11.531 ppb	16:57:55
3	Se 196.026†	-1367.1	-1367.2	48.911 ug/L	48.911 ppb	16:57:55
3	Si 251.611†	-221.0	-775.3	-27.327 ug/L	-27.327 ppb	16:57:35
3	Sn 189.927†	-1.9	-15.0	-25.499 ug/L	-25.499 ppb	16:57:55
3	Ti 334.940†	-1452.2	-137.7	-0.3209 ug/L	-0.3209 ppb	16:57:35
3	Tl 190.801†	-45.0	-9.9	-4.8850 ug/L	-4.8850 ppb	16:57:55
3	U 409.014†	-207.3	2158.5	27.757 ug/L	27.757 ppb	16:57:35
3	V 292.402†	5076.7	6807.0	-3.3609 ug/L	-3.3609 ppb	16:57:35
3	Zn 213.857†	3625.5	2878.9	-26.576 ug/L	-26.576 ppb	16:57:55
3	SiO2†	-270.5	-834.6	-63.154 ug/L	-63.154 ppb	16:58:10

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	780405.8	98.684 %	0.4483			0.45%
Sc Radial	4676.4	98.5 %	0.27			0.27%
Y 371.029	695036.6	98.309 %	0.5046			0.51%
Y RADIAL	4945.8	98.13 %	0.585			0.60%
Ag 328.068†	-22166.9	6.5989 ug/L	0.93251	6.5989 ppb	0.93251	14.13%
Al 396.153Radial†	-23.5	-20.222 ug/L	5.1668	-20.222 ppb	5.1668	25.55%
As 188.979†	-135.8	30.795 ug/L	0.9177	30.795 ppb	0.9177	2.98%
B 249.677†	1843.5	-16.434 ug/L	0.6661	-16.434 ppb	0.6661	4.05%
Ba 233.527†	-1526.9	-5.9319 ug/L	0.37680	-5.9319 ppb	0.37680	6.35%
Be 313.107†	44.4	0.0169 ug/L	0.02618	0.0169 ppb	0.02618	155.10%
Ca 317.933Radial†	-4.4	-7.8671 ug/L	1.59081	-7.8671 ppb	1.59081	20.22%
Cd 226.502†	2836.4	-0.5764 ug/L	0.02544	-0.5764 ppb	0.02544	4.41%
Co 228.616†	560.0	11.059 ug/L	0.4628	11.059 ppb	0.4628	4.18%
Cr 267.716†	-549.8	0.0623 ug/L	0.52179	0.0623 ppb	0.52179	837.58%
Cu 324.752†	-6145.3	-2.4224 ug/L	0.28092	-2.4224 ppb	0.28092	11.60%
Fe 238.204 Radial†	36922.8	383210 ug/L	1195.1	383210 ppb	1195.1	0.31%
K 766.490 Radial†	36.4	6.9226 ug/L	7.85244	6.9226 ppb	7.85244	113.43%

Mg 279.077 IEC†	7.8	-95.179 ug/L	85.7152	-95.179 ppb	85.7152	90.06%
Mn 257.610†	-27256.3	-4.9857 ug/L	0.35145	-4.9857 ppb	0.35145	7.05%
Mo 202.031†	-296.5	2.9428 ug/L	0.59720	2.9428 ppb	0.59720	20.29%
Na 589.592 Radial†	22.9	6.9741 ug/L	1.75841	6.9741 ppb	1.75841	25.21%
Ni 231.604†	28.3	0.8624 ug/L	0.22969	0.8624 ppb	0.22969	26.63%
P 214.914†	384.1	-95.845 ug/L	10.5412	-95.845 ppb	10.5412	11.00%
Pb 220.353†	218.5	3.9221 ug/L	2.67634	3.9221 ppb	2.67634	68.24%
S 181.975 Axial†	10.5	13.058 ug/L	5.1804	13.058 ppb	5.1804	39.67%
Sb 206.836†	-10.3	-8.7822 ug/L	2.39679	-8.7822 ppb	2.39679	27.29%
Se 196.026†	-1383.0	36.761 ug/L	10.6883	36.761 ppb	10.6883	29.07%
Si 251.611†	-763.7	-26.906 ug/L	0.5379	-26.906 ppb	0.5379	2.00%
Sn 189.927†	-24.5	-27.608 ug/L	1.8326	-27.608 ppb	1.8326	6.64%
Sr 421.552†	56.5	0.4028 ug/L	0.13217	0.4028 ppb	0.13217	32.81%
Ti 334.940†	-109.2	-0.2710 ug/L	0.07066	-0.2710 ppb	0.07066	26.08%
Tl 190.801†	-3.3	-1.8753 ug/L	2.64779	-1.8753 ppb	2.64779	141.19%
U 409.014†	2151.4	27.667 ug/L	0.5286	27.667 ppb	0.5286	1.91%
V 292.402†	6782.9	-3.3732 ug/L	0.37661	-3.3732 ppb	0.37661	11.16%
Zn 213.857†	2895.8	-26.206 ug/L	0.4078	-26.206 ppb	0.4078	1.56%
SiO2†	-780.4	-58.990 ug/L	3.8511	-58.990 ppb	3.8511	6.53%

Sequence No.: 4

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/4/2010 17:00:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4878.8	4878.8	103 %		17:02:14
1	Y RADIAL	5109.7	5109.7	101.4 %		17:02:14
1	Al 396.153Radial†	5354.4	5293.2	4823.2 ug/L	4823.2 ppb	17:02:14
1	Ca 317.933Radial†	2814.8	2721.0	4869.4 ug/L	4869.4 ppb	17:02:34
1	Fe 238.204 Radial†	502.5	481.8	5015.1 ug/L	5015.1 ppb	17:02:34
1	K 766.490 Radial†	29813.5	26707.0	5036.8 ug/L	5036.8 ppb	17:02:14
1	Mg 279.077 IEC†	132.8	127.1	5007.6 ug/L	5007.6 ppb	17:02:34
1	Na 589.592 Radial†	32860.5	32716.1	9955.1 ug/L	9955.1 ppb	17:02:14
1	Sr 421.552†	72629.0	70661.8	503.49 ug/L	503.49 ppb	17:02:14
1	Sc 361.383	805084.9	805084.9	101.80 %		17:03:31
1	Y 371.029	712449.3	712449.3	100.77 %		17:03:31
1	Ag 328.068†	99041.0	97108.7	490.83 ug/L	490.83 ppb	17:03:36
1	As 188.979†	1122.9	1131.6	496.10 ug/L	496.10 ppb	17:03:57
1	B 249.677†	19877.3	19749.1	488.88 ug/L	488.88 ppb	17:03:36
1	Ba 233.527†	42995.6	42237.4	491.04 ug/L	491.04 ppb	17:03:36
1	Be 313.107†	1254680.7	1241769.7	486.93 ug/L	486.93 ppb	17:03:31
1	Cd 226.502†	36350.0	35888.2	493.25 ug/L	493.25 ppb	17:03:36
1	Co 228.616†	17100.2	16861.4	501.72 ug/L	501.72 ppb	17:03:36
1	Cr 267.716†	37567.9	36840.7	491.84 ug/L	491.84 ppb	17:03:36
1	Cu 324.752†	141287.0	131058.5	483.39 ug/L	483.39 ppb	17:03:36
1	Mn 257.610†	317722.4	311659.3	489.93 ug/L	489.93 ppb	17:03:36
1	Mo 202.031†	5495.6	5386.2	487.41 ug/L	487.41 ppb	17:03:57
1	Ni 231.604†	16331.6	15961.5	492.48 ug/L	492.48 ppb	17:03:36
1	P 214.914†	4768.9	4485.5	2339.0 ug/L	2339.0 ppb	17:03:57
1	Pb 220.353†	3095.3	3098.0	493.54 ug/L	493.54 ppb	17:03:57
1	S 181.975 Axial†	844.1	788.1	978.10 ug/L	978.10 ppb	17:03:57
1	Sb 206.836†	1259.1	1203.9	489.51 ug/L	489.51 ppb	17:03:57
1	Se 196.026†	815.7	820.2	500.12 ug/L	500.12 ppb	17:03:57
1	Si 251.611†	69873.9	68084.0	2422.1 ug/L	2422.1 ppb	17:03:36
1	Sn 189.927†	2182.9	2131.1	487.62 ug/L	487.62 ppb	17:03:57
1	Ti 334.940†	248374.9	245306.3	485.83 ug/L	485.83 ppb	17:03:36
1	Tl 190.801†	1063.5	1080.3	493.00 ug/L	493.00 ppb	17:03:57
1	U 409.014†	12509.0	14655.9	484.29 ug/L	484.29 ppb	17:03:36
1	V 292.402†	62342.3	62896.4	494.90 ug/L	494.90 ppb	17:03:36
1	Zn 213.857†	47247.9	45613.0	485.58 ug/L	485.58 ppb	17:03:36
1	SiO2†	70676.2	68862.9	5256.3 ug/L	5256.3 ppb	17:05:04
2	Sc Radial	4751.5	4751.5	100 %		17:02:39
2	Y RADIAL	5026.2	5026.2	99.72 %		17:02:39
2	Al 396.153Radial†	5197.6	5276.2	4807.7 ug/L	4807.7 ppb	17:02:39
2	Ca 317.933Radial†	2782.7	2762.3	4943.3 ug/L	4943.3 ppb	17:02:59
2	Fe 238.204 Radial†	496.4	488.8	5087.9 ug/L	5087.9 ppb	17:02:59
2	K 766.490 Radial†	29228.9	26900.3	5073.3 ug/L	5073.3 ppb	17:02:39
2	Mg 279.077 IEC†	135.8	133.6	5263.4 ug/L	5263.4 ppb	17:02:59
2	Na 589.592 Radial†	32100.2	32813.2	9984.7 ug/L	9984.7 ppb	17:02:39
2	Sr 421.552†	70734.0	70662.0	503.49 ug/L	503.49 ppb	17:02:39
2	Sc 361.383	806603.0	806603.0	102.00 %		17:04:02
2	Y 371.029	712985.5	712985.5	100.85 %		17:04:02
2	Ag 328.068†	98105.2	96008.2	485.31 ug/L	485.31 ppb	17:04:07
2	As 188.979†	1117.0	1123.8	492.67 ug/L	492.67 ppb	17:04:27
2	B 249.677†	19677.3	19516.3	483.09 ug/L	483.09 ppb	17:04:07
2	Ba 233.527†	42801.8	41967.9	487.90 ug/L	487.90 ppb	17:04:07
2	Be 313.107†	1263239.3	1247841.3	489.29 ug/L	489.29 ppb	17:04:02
2	Cd 226.502†	36268.2	35740.8	491.21 ug/L	491.21 ppb	17:04:07
2	Co 228.616†	17045.6	16776.2	499.19 ug/L	499.19 ppb	17:04:07
2	Cr 267.716†	37363.2	36570.5	488.23 ug/L	488.23 ppb	17:04:07
2	Cu 324.752†	139742.8	129283.3	476.85 ug/L	476.85 ppb	17:04:07
2	Mn 257.610†	315857.8	309243.8	486.13 ug/L	486.13 ppb	17:04:07
2	Mo 202.031†	5489.6	5370.1	485.96 ug/L	485.96 ppb	17:04:27
2	Ni 231.604†	16305.9	15906.2	490.77 ug/L	490.77 ppb	17:04:07

2	P 214.914†	4785.7	4493.2	2344.4 ug/L	2344.4 ppb	17:04:27
2	Pb 220.353†	3082.5	3079.7	490.64 ug/L	490.64 ppb	17:04:27
2	S 181.975 Axial†	837.2	779.8	967.78 ug/L	967.78 ppb	17:04:27
2	Sb 206.836†	1278.9	1221.0	496.17 ug/L	496.17 ppb	17:04:27
2	Se 196.026†	805.4	808.6	493.39 ug/L	493.39 ppb	17:04:27
2	Si 251.611†	69269.2	67362.0	2396.4 ug/L	2396.4 ppb	17:04:07
2	Sn 189.927†	2188.7	2132.8	488.01 ug/L	488.01 ppb	17:04:27
2	Ti 334.940†	246033.0	242551.2	480.37 ug/L	480.37 ppb	17:04:07
2	Tl 190.801†	1061.8	1076.7	491.33 ug/L	491.33 ppb	17:04:27
2	U 409.014†	12337.3	14464.4	477.94 ug/L	477.94 ppb	17:04:07
2	V 292.402†	61867.0	62315.1	490.36 ug/L	490.36 ppb	17:04:07
2	Zn 213.857†	46945.7	45229.4	481.46 ug/L	481.46 ppb	17:04:07
2	SiO2†	69750.1	67824.3	5176.9 ug/L	5176.9 ppb	17:05:09
3	Sc Radial	4820.6	4820.6	102 %		17:03:04
3	Y RADIAL	5055.0	5055.0	100.3 %		17:03:04
3	Al 396.153Radial†	5241.0	5244.5	4778.4 ug/L	4778.4 ppb	17:03:04
3	Ca 317.933Radial†	2769.2	2709.3	4848.3 ug/L	4848.3 ppb	17:03:24
3	Fe 238.204 Radial†	492.0	477.3	4968.8 ug/L	4968.8 ppb	17:03:24
3	K 766.490 Radial†	29323.6	26575.0	5012.0 ug/L	5012.0 ppb	17:03:04
3	Mg 279.077 IEC†	130.7	126.6	4990.1 ug/L	4990.1 ppb	17:03:24
3	Na 589.592 Radial†	32138.6	32391.3	9856.3 ug/L	9856.3 ppb	17:03:04
3	Sr 421.552†	71179.1	70087.4	499.40 ug/L	499.40 ppb	17:03:04
3	Sc 361.383	798141.5	798141.5	100.93 %		17:04:33
3	Y 371.029	705830.0	705830.0	99.836 %		17:04:33
3	Ag 328.068†	98723.2	97640.2	493.50 ug/L	493.50 ppb	17:04:38
3	As 188.979†	1110.9	1129.3	495.12 ug/L	495.12 ppb	17:04:58
3	B 249.677†	19823.6	19865.8	491.78 ug/L	491.78 ppb	17:04:38
3	Ba 233.527†	43035.4	42644.2	495.76 ug/L	495.76 ppb	17:04:38
3	Be 313.107†	1250939.3	1248784.3	489.68 ug/L	489.68 ppb	17:04:33
3	Cd 226.502†	36400.2	36248.6	498.21 ug/L	498.21 ppb	17:04:38
3	Co 228.616†	17135.3	17042.3	507.11 ug/L	507.11 ppb	17:04:38
3	Cr 267.716†	37627.8	37221.1	496.92 ug/L	496.92 ppb	17:04:38
3	Cu 324.752†	140905.0	131887.3	486.45 ug/L	486.45 ppb	17:04:38
3	Mn 257.610†	317738.2	314389.9	494.21 ug/L	494.21 ppb	17:04:38
3	Mo 202.031†	5487.8	5425.4	490.95 ug/L	490.95 ppb	17:04:58
3	Ni 231.604†	16346.1	16115.5	497.23 ug/L	497.23 ppb	17:04:38
3	P 214.914†	4750.6	4508.1	2350.7 ug/L	2350.7 ppb	17:04:58
3	Pb 220.353†	3072.8	3102.1	494.19 ug/L	494.19 ppb	17:04:58
3	S 181.975 Axial†	829.4	780.7	968.93 ug/L	968.93 ppb	17:04:58
3	Sb 206.836†	1270.7	1226.2	498.36 ug/L	498.36 ppb	17:04:58
3	Se 196.026†	804.3	815.9	497.45 ug/L	497.45 ppb	17:04:58
3	Si 251.611†	69698.5	68507.3	2437.2 ug/L	2437.2 ppb	17:04:38
3	Sn 189.927†	2174.4	2141.3	489.95 ug/L	489.95 ppb	17:04:58
3	Ti 334.940†	247823.8	246882.7	488.95 ug/L	488.95 ppb	17:04:38
3	Tl 190.801†	1042.4	1068.5	487.67 ug/L	487.67 ppb	17:04:58
3	U 409.014†	12336.1	14591.4	482.15 ug/L	482.15 ppb	17:04:38
3	V 292.402†	62384.6	63471.0	499.41 ug/L	499.41 ppb	17:04:38
3	Zn 213.857†	47323.6	46091.8	490.69 ug/L	490.69 ppb	17:04:38
3	SiO2†	69103.6	67908.7	5183.2 ug/L	5183.2 ppb	17:05:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	803276.5	101.58 %	0.570			0.56%
Sc Radial	4816.9	101 %	1.3			1.32%
Y 371.029	710421.6	100.49 %	0.564			0.56%
Y RADIAL	5063.6	100.5 %	0.84			0.84%
Ag 328.068†	96919.0	489.88 ug/L	4.179	489.88 ppb	4.179	0.85%
QC value within limits for Ag 328.068 Recovery = 97.98%						
Al 396.153Radial†	5271.3	4803.1 ug/L	22.76	4803.1 ppb	22.76	0.47%
QC value within limits for Al 396.153Radial Recovery = 96.06%						
As 188.979†	1128.2	494.63 ug/L	1.767	494.63 ppb	1.767	0.36%
QC value within limits for As 188.979 Recovery = 98.93%						
B 249.677†	19710.4	487.92 ug/L	4.424	487.92 ppb	4.424	0.91%
QC value within limits for B 249.677 Recovery = 97.58%						
Ba 233.527†	42283.2	491.57 ug/L	3.956	491.57 ppb	3.956	0.80%
QC value within limits for Ba 233.527 Recovery = 98.31%						
Be 313.107†	1246131.8	488.63 ug/L	1.489	488.63 ppb	1.489	0.30%
QC value within limits for Be 313.107 Recovery = 97.73%						
Ca 317.933Radial†	2730.9	4887.0 ug/L	49.86	4887.0 ppb	49.86	1.02%

QC value within limits for Ca 317.933 Radial Recovery = 97.74%

Cd 226.502†	35959.2	494.22 ug/L	3.600	494.22 ppb	3.600	0.73%
QC value within limits for Cd 226.502 Recovery = 98.84%						
Co 228.616†	16893.3	502.67 ug/L	4.041	502.67 ppb	4.041	0.80%
QC value within limits for Co 228.616 Recovery = 100.53%						
Cr 267.716†	36877.4	492.33 ug/L	4.363	492.33 ppb	4.363	0.89%
QC value within limits for Cr 267.716 Recovery = 98.47%						
Cu 324.752†	130743.1	482.23 ug/L	4.902	482.23 ppb	4.902	1.02%
QC value within limits for Cu 324.752 Recovery = 96.45%						
Fe 238.204 Radial†	482.6	5023.9 ug/L	60.02	5023.9 ppb	60.02	1.19%
QC value within limits for Fe 238.204 Radial Recovery = 100.48%						
K 766.490 Radial†	26727.4	5040.7 ug/L	30.86	5040.7 ppb	30.86	0.61%
QC value within limits for K 766.490 Radial Recovery = 100.81%						
Mg 279.077 IEC†	129.1	5087.0 ug/L	153.01	5087.0 ppb	153.01	3.01%
QC value within limits for Mg 279.077 IEC Recovery = 101.74%						
Mn 257.610†	311764.3	490.09 ug/L	4.045	490.09 ppb	4.045	0.83%
QC value within limits for Mn 257.610 Recovery = 98.02%						
Mo 202.031†	5393.9	488.11 ug/L	2.567	488.11 ppb	2.567	0.53%
QC value within limits for Mo 202.031 Recovery = 97.62%						
Na 589.592 Radial†	32640.2	9932.0 ug/L	67.23	9932.0 ppb	67.23	0.68%
QC value within limits for Na 589.592 Radial Recovery = 99.32%						
Ni 231.604†	15994.4	493.49 ug/L	3.347	493.49 ppb	3.347	0.68%
QC value within limits for Ni 231.604 Recovery = 98.70%						
P 214.914†	4495.6	2344.7 ug/L	5.87	2344.7 ppb	5.87	0.25%
QC value within limits for P 214.914 Recovery = 93.79%						
Pb 220.353†	3093.2	492.79 ug/L	1.894	492.79 ppb	1.894	0.38%
QC value within limits for Pb 220.353 Recovery = 98.56%						
S 181.975 Axial†	782.9	971.60 ug/L	5.657	971.60 ppb	5.657	0.58%
QC value within limits for S 181.975 Axial Recovery = 97.16%						
Sb 206.836†	1217.0	494.68 ug/L	4.609	494.68 ppb	4.609	0.93%
QC value within limits for Sb 206.836 Recovery = 98.94%						
Se 196.026†	814.9	496.99 ug/L	3.390	496.99 ppb	3.390	0.68%
QC value within limits for Se 196.026 Recovery = 99.40%						
Si 251.611†	67984.4	2418.6 ug/L	20.62	2418.6 ppb	20.62	0.85%
QC value within limits for Si 251.611 Recovery = 96.74%						
Sn 189.927†	2135.1	488.53 ug/L	1.251	488.53 ppb	1.251	0.26%
QC value within limits for Sn 189.927 Recovery = 97.71%						
Sr 421.552†	70470.4	502.12 ug/L	2.363	502.12 ppb	2.363	0.47%
QC value within limits for Sr 421.552 Recovery = 100.42%						
Ti 334.940†	244913.4	485.05 ug/L	4.346	485.05 ppb	4.346	0.90%
QC value within limits for Ti 334.940 Recovery = 97.01%						
Tl 190.801†	1075.2	490.67 ug/L	2.726	490.67 ppb	2.726	0.56%
QC value within limits for Tl 190.801 Recovery = 98.13%						
U 409.014†	14570.6	481.46 ug/L	3.229	481.46 ppb	3.229	0.67%
QC value within limits for U 409.014 Recovery = 96.29%						
V 292.402†	62894.2	494.89 ug/L	4.527	494.89 ppb	4.527	0.91%
QC value within limits for V 292.402 Recovery = 98.98%						
Zn 213.857†	45644.7	485.91 ug/L	4.624	485.91 ppb	4.624	0.95%
QC value within limits for Zn 213.857 Recovery = 97.18%						
SiO2†	68198.6	5205.5 ug/L	44.15	5205.5 ppb	44.15	0.85%
QC value within limits for SiO2 Recovery = 97.34%						

All analyte(s) passed QC.

Sequence No.: 5

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/4/2010 17:07:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4796.4	4796.4	101 %		17:09:16
1	Y RADIAL	5076.9	5076.9	100.7 %		17:09:16
1	Al 396.153Radial†	-90.7	-7.3	-6.6782 ug/L	-6.6782 ppb	17:09:36
1	Ca 317.933Radial†	23.3	4.8	8.5893 ug/L	8.5893 ppb	17:09:36
1	Fe 238.204 Radial†	9.8	2.4	24.933 ug/L	24.933 ppb	17:09:36
1	K 766.490 Radial†	2521.7	189.4	35.771 ug/L	35.771 ppb	17:09:16
1	Mg 279.077 IEC†	0.9	-1.3	-50.045 ug/L	-50.045 ppb	17:09:36
1	Na 589.592 Radial†	-760.1	-15.3	-4.6588 ug/L	-4.6588 ppb	17:09:16
1	Sr 421.552†	4.5	-14.5	-0.1034 ug/L	-0.1034 ppb	17:09:16
1	Sc 361.383	786234.8	786234.8	99.421 %		17:10:33
1	Y 371.029	704344.5	704344.5	99.626 %		17:10:33
1	Ag 328.068†	159.7	-15.8	-0.0677 ug/L	-0.0677 ppb	17:10:33
1	As 188.979†	-14.3	14.3	6.2026 ug/L	6.2026 ppb	17:10:53
1	B 249.677†	139.3	364.3	9.0556 ug/L	9.0556 ppb	17:10:53
1	Ba 233.527†	7.9	12.0	0.1398 ug/L	0.1398 ppb	17:10:53
1	Be 313.107†	-9317.1	-38.8	-0.0156 ug/L	-0.0156 ppb	17:10:33
1	Cd 226.502†	-182.8	-1.2	-0.0204 ug/L	-0.0204 ppb	17:10:53
1	Co 228.616†	-51.5	12.5	0.3735 ug/L	0.3735 ppb	17:10:53
1	Cr 267.716†	68.2	7.4	0.1011 ug/L	0.1011 ppb	17:10:53
1	Cu 324.752†	7576.7	-103.0	-0.3763 ug/L	-0.3763 ppb	17:10:33
1	Mn 257.610†	431.7	3.8	0.0104 ug/L	0.0104 ppb	17:10:53
1	Mo 202.031†	14.3	2.4	0.2156 ug/L	0.2156 ppb	17:10:53
1	Ni 231.604†	83.5	3.5	0.1080 ug/L	0.1080 ppb	17:10:53
1	P 214.914†	209.9	12.3	6.7461 ug/L	6.7461 ppb	17:10:53
1	Pb 220.353†	-53.0	4.2	0.6664 ug/L	0.6664 ppb	17:10:53
1	S 181.975 Axial†	39.0	-1.8	-2.2918 ug/L	-2.2918 ppb	17:10:53
1	Sb 206.836†	31.7	-1.0	-0.3308 ug/L	-0.3308 ppb	17:10:53
1	Se 196.026†	-13.5	5.4	3.2495 ug/L	3.2495 ppb	17:10:53
1	Si 251.611†	582.3	34.5	1.2274 ug/L	1.2274 ppb	17:10:53
1	Sn 189.927†	24.0	11.0	2.5231 ug/L	2.5231 ppb	17:10:53
1	Ti 334.940†	-1423.1	-96.7	-0.1845 ug/L	-0.1845 ppb	17:10:33
1	Tl 190.801†	-26.2	9.4	4.2573 ug/L	4.2573 ppb	17:10:53
1	U 409.014†	-2474.2	-120.0	-3.9827 ug/L	-3.9827 ppb	17:10:33
1	V 292.402†	-1624.3	25.6	0.1898 ug/L	0.1898 ppb	17:10:33
1	Zn 213.857†	732.1	-61.0	-0.6589 ug/L	-0.6589 ppb	17:10:53
1	SiO2†	562.2	5.2	0.3899 ug/L	0.3899 ppb	17:11:49
2	Sc Radial	4691.6	4691.6	98.8 %		17:09:41
2	Y RADIAL	4963.5	4963.5	98.48 %		17:09:41
2	Al 396.153Radial†	-80.9	0.6	0.5261 ug/L	0.5261 ppb	17:10:02
2	Ca 317.933Radial†	17.8	-0.3	-0.5182 ug/L	-0.5182 ppb	17:10:02
2	Fe 238.204 Radial†	7.1	-0.1	-1.2262 ug/L	-1.2262 ppb	17:10:02
2	K 766.490 Radial†	2451.4	174.1	32.870 ug/L	32.870 ppb	17:09:41
2	Mg 279.077 IEC†	0.7	-1.4	-56.154 ug/L	-56.154 ppb	17:10:02
2	Na 589.592 Radial†	-733.6	-5.4	-1.6328 ug/L	-1.6328 ppb	17:09:41
2	Sr 421.552†	51.7	33.4	0.2380 ug/L	0.2380 ppb	17:09:41
2	Sc 361.383	796740.0	796740.0	100.75 %		17:10:59
2	Y 371.029	714042.7	714042.7	101.00 %		17:10:59
2	Ag 328.068†	227.5	49.4	0.2515 ug/L	0.2515 ppb	17:10:59
2	As 188.979†	-23.6	5.2	2.2453 ug/L	2.2453 ppb	17:11:19
2	B 249.677†	94.0	317.5	7.8957 ug/L	7.8957 ppb	17:11:19
2	Ba 233.527†	-12.2	-8.1	-0.0941 ug/L	-0.0941 ppb	17:11:19
2	Be 313.107†	-9386.7	15.6	0.0063 ug/L	0.0063 ppb	17:10:59
2	Cd 226.502†	-179.6	4.4	0.0592 ug/L	0.0592 ppb	17:11:19
2	Co 228.616†	-59.2	5.6	0.1664 ug/L	0.1664 ppb	17:11:19
2	Cr 267.716†	66.7	5.0	0.0687 ug/L	0.0687 ppb	17:11:19
2	Cu 324.752†	7751.3	-30.1	-0.1081 ug/L	-0.1081 ppb	17:10:59
2	Mn 257.610†	439.5	5.7	0.0112 ug/L	0.0112 ppb	17:11:19
2	Mo 202.031†	12.4	0.4	0.0340 ug/L	0.0340 ppb	17:11:19
2	Ni 231.604†	85.8	4.7	0.1445 ug/L	0.1445 ppb	17:11:19

2	P 214.914†	203.8	3.4	1.8676 ug/L	1.8676 ppb	17:11:19
2	Pb 220.353†	-41.1	16.7	2.6532 ug/L	2.6532 ppb	17:11:19
2	S 181.975 Axial†	43.1	1.8	2.2160 ug/L	2.2160 ppb	17:11:19
2	Sb 206.836†	32.8	-0.3	-0.1154 ug/L	-0.1154 ppb	17:11:19
2	Se 196.026†	-26.9	-7.7	-4.5852 ug/L	-4.5852 ppb	17:11:19
2	Si 251.611†	576.0	20.5	0.7311 ug/L	0.7311 ppb	17:11:19
2	Sn 189.927†	13.9	0.8	0.1750 ug/L	0.1750 ppb	17:11:19
2	Ti 334.940†	-1305.1	39.4	0.0850 ug/L	0.0850 ppb	17:10:59
2	Tl 190.801†	-34.8	1.2	0.5438 ug/L	0.5438 ppb	17:11:19
2	U 409.014†	-2557.1	-169.4	-5.6176 ug/L	-5.6176 ppb	17:10:59
2	V 292.402†	-1696.0	-24.1	-0.1983 ug/L	-0.1983 ppb	17:10:59
2	Zn 213.857†	722.5	-80.2	-0.8620 ug/L	-0.8620 ppb	17:11:19
2	SiO2†	595.3	30.6	2.3391 ug/L	2.3391 ppb	17:11:54
3	Sc Radial	4738.8	4738.8	99.8 %		17:10:07
3	Y RADIAL	4993.9	4993.9	99.08 %		17:10:07
3	Al 396.153Radial†	-98.6	-16.3	-14.958 ug/L	-14.958 ppb	17:10:27
3	Ca 317.933Radial†	19.9	1.7	3.0657 ug/L	3.0657 ppb	17:10:27
3	Fe 238.204 Radial†	9.0	1.7	17.805 ug/L	17.805 ppb	17:10:27
3	K 766.490 Radial†	2409.4	107.3	20.262 ug/L	20.262 ppb	17:10:07
3	Mg 279.077 IEC†	0.9	-1.2	-48.729 ug/L	-48.729 ppb	17:10:27
3	Na 589.592 Radial†	-763.9	-28.3	-8.6091 ug/L	-8.6091 ppb	17:10:07
3	Sr 421.552†	15.9	-3.0	-0.0214 ug/L	-0.0214 ppb	17:10:07
3	Sc 361.383	794472.1	794472.1	100.46 %		17:11:24
3	Y 371.029	710811.7	710811.7	100.54 %		17:11:24
3	Ag 328.068†	79.9	-97.0	-0.4872 ug/L	-0.4872 ppb	17:11:24
3	As 188.979†	-25.9	2.8	1.2294 ug/L	1.2294 ppb	17:11:44
3	B 249.677†	75.1	299.0	7.4319 ug/L	7.4319 ppb	17:11:44
3	Ba 233.527†	-14.0	-9.9	-0.1139 ug/L	-0.1139 ppb	17:11:44
3	Be 313.107†	-9449.2	-73.2	-0.0286 ug/L	-0.0286 ppb	17:11:24
3	Cd 226.502†	-165.2	18.2	0.2493 ug/L	0.2493 ppb	17:11:44
3	Co 228.616†	-59.1	5.5	0.1631 ug/L	0.1631 ppb	17:11:44
3	Cr 267.716†	85.9	24.3	0.3217 ug/L	0.3217 ppb	17:11:44
3	Cu 324.752†	7782.4	22.9	0.0810 ug/L	0.0810 ppb	17:11:24
3	Mn 257.610†	424.3	-8.1	-0.0090 ug/L	-0.0090 ppb	17:11:44
3	Mo 202.031†	10.4	-1.7	-0.1482 ug/L	-0.1482 ppb	17:11:44
3	Ni 231.604†	70.3	-10.5	-0.3253 ug/L	-0.3253 ppb	17:11:44
3	P 214.914†	214.1	14.3	7.7136 ug/L	7.7136 ppb	17:11:44
3	Pb 220.353†	-77.6	-19.7	-3.1366 ug/L	-3.1366 ppb	17:11:44
3	S 181.975 Axial†	47.1	5.9	7.2705 ug/L	7.2705 ppb	17:11:44
3	Sb 206.836†	42.5	9.4	3.6912 ug/L	3.6912 ppb	17:11:44
3	Se 196.026†	-25.4	-6.4	-3.7345 ug/L	-3.7345 ppb	17:11:44
3	Si 251.611†	584.9	31.1	1.1094 ug/L	1.1094 ppb	17:11:44
3	Sn 189.927†	13.4	0.2	0.0556 ug/L	0.0556 ppb	17:11:44
3	Ti 334.940†	-1338.1	2.8	0.0065 ug/L	0.0065 ppb	17:11:24
3	Tl 190.801†	-29.5	6.3	2.8516 ug/L	2.8516 ppb	17:11:44
3	U 409.014†	-2145.3	233.2	7.7298 ug/L	7.7298 ppb	17:11:24
3	V 292.402†	-1644.0	22.9	0.1868 ug/L	0.1868 ppb	17:11:24
3	Zn 213.857†	721.0	-79.6	-0.8561 ug/L	-0.8561 ppb	17:11:44
3	SiO2†	573.2	10.2	0.7874 ug/L	0.7874 ppb	17:11:59

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	792482.3	100.21 %		0.699			0.70%
Sc Radial	4742.3	99.9 %		1.11			1.11%
Y 371.029	709733.0	100.39 %		0.698			0.70%
Y RADIAL	5011.4	99.43 %		1.164			1.17%
Ag 328.068†	-21.1	-0.1012 ug/L		0.37049	-0.1012 ppb	0.37049	366.25%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-7.7	-7.0367 ug/L		7.74835	-7.0367 ppb	7.74835	110.11%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	7.4	3.2258 ug/L		2.62760	3.2258 ppb	2.62760	81.46%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	326.9	8.1278 ug/L		0.83635	8.1278 ppb	0.83635	10.29%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-2.0	-0.0227 ug/L		0.14112	-0.0227 ppb	0.14112	621.33%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-32.1	-0.0127 ug/L		0.01764	-0.0127 ppb	0.01764	139.43%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	2.1	3.7123 ug/L		4.58803	3.7123 ppb	4.58803	123.59%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	7.1	0.0961 ug/L	0.13855	0.0961 ppb	0.13855	144.25%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	7.9	0.2343 ug/L	0.12052	0.2343 ppb	0.12052	51.44%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	12.2	0.1638 ug/L	0.13768	0.1638 ppb	0.13768	84.03%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-36.7	-0.1345 ug/L	0.22977	-0.1345 ppb	0.22977	170.89%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.3	13.837 ug/L	13.5233	13.837 ppb	13.5233	97.73%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	156.9	29.634 ug/L	8.2454	29.634 ppb	8.2454	27.82%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.3	-51.643 ug/L	3.9621	-51.643 ppb	3.9621	7.67%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	0.5	0.0042 ug/L	0.01145	0.0042 ppb	0.01145	273.30%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	0.4	0.0338 ug/L	0.18192	0.0338 ppb	0.18192	538.03%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-16.3	-4.9669 ug/L	3.49834	-4.9669 ppb	3.49834	70.43%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-0.8	-0.0243 ug/L	0.26137	-0.0243 ppb	0.26137	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	10.0	5.4424 ug/L	3.13348	5.4424 ppb	3.13348	57.58%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	0.4	0.0610 ug/L	2.94202	0.0610 ppb	2.94202	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.9	2.3982 ug/L	4.78378	2.3982 ppb	4.78378	199.47%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.7	1.0817 ug/L	2.26252	1.0817 ppb	2.26252	209.17%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.9	-1.6901 ug/L	4.29887	-1.6901 ppb	4.29887	254.36%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	28.7	1.0226 ug/L	0.25930	1.0226 ppb	0.25930	25.36%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.0	0.9179 ug/L	1.39142	0.9179 ppb	1.39142	151.59%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	5.3	0.0377 ug/L	0.17822	0.0377 ppb	0.17822	472.81%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-18.2	-0.0310 ug/L	0.13861	-0.0310 ppb	0.13861	446.55%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.6	2.5509 ug/L	1.87492	2.5509 ppb	1.87492	73.50%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-18.7	-0.6235 ug/L	7.28025	-0.6235 ppb	7.28025	>999.9%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	8.1	0.0594 ug/L	0.22319	0.0594 ppb	0.22319	375.50%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-73.6	-0.7924 ug/L	0.11560	-0.7924 ppb	0.11560	14.59%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	15.3	1.1721 ug/L	1.03000	1.1721 ppb	1.03000	87.87%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/4/2010 18:00:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4751.7	4751.7	100 %		18:02:42
1	Y RADIAL	5014.3	5014.3	99.49 %		18:02:42
1	Al 396.153Radial†	5378.4	5456.6	4973.1 ug/L	4973.1 ppb	18:02:42
1	Ca 317.933Radial†	2802.5	2782.0	4978.4 ug/L	4978.4 ppb	18:03:02
1	Fe 238.204 Radial†	493.9	486.3	5061.1 ug/L	5061.1 ppb	18:03:02
1	K 766.490 Radial†	29714.1	27383.7	5164.7 ug/L	5164.7 ppb	18:02:42
1	Mg 279.077 IEC†	132.2	130.0	5123.1 ug/L	5123.1 ppb	18:03:02
1	Na 589.592 Radial†	30826.9	31539.4	9597.1 ug/L	9597.1 ppb	18:02:42
1	Sr 421.552†	70782.3	70707.0	503.81 ug/L	503.81 ppb	18:02:42
1	Sc 361.383	819744.7	819744.7	103.66 %		18:04:00
1	Y 371.029	723686.7	723686.7	102.36 %		18:04:00
1	Ag 328.068†	100182.3	96469.9	487.62 ug/L	487.62 ppb	18:04:05
1	As 188.979†	1126.1	1115.0	488.88 ug/L	488.88 ppb	18:04:25
1	B 249.677†	19844.5	19368.3	479.47 ug/L	479.47 ppb	18:04:05
1	Ba 233.527†	43580.2	42046.0	488.81 ug/L	488.81 ppb	18:04:05
1	Be 313.107†	1289580.7	1253397.9	491.47 ug/L	491.47 ppb	18:04:00
1	Cd 226.502†	36787.4	35671.6	490.26 ug/L	490.26 ppb	18:04:05
1	Co 228.616†	16673.1	16149.0	480.51 ug/L	480.51 ppb	18:04:25
1	Cr 267.716†	38026.3	36622.9	488.93 ug/L	488.93 ppb	18:04:05
1	Cu 324.752†	143534.2	130744.4	482.24 ug/L	482.24 ppb	18:04:05
1	Mn 257.610†	322143.8	310343.4	487.86 ug/L	487.86 ppb	18:04:05
1	Mo 202.031†	5513.4	5306.8	480.24 ug/L	480.24 ppb	18:04:25
1	Ni 231.604†	16540.5	15876.2	489.85 ug/L	489.85 ppb	18:04:05
1	P 214.914†	4782.0	4414.4	2300.6 ug/L	2300.6 ppb	18:04:25
1	Pb 220.353†	3080.0	3028.8	482.58 ug/L	482.58 ppb	18:04:25
1	S 181.975 Axial†	842.7	771.9	957.90 ug/L	957.90 ppb	18:04:25
1	Sb 206.836†	1287.3	1209.0	491.24 ug/L	491.24 ppb	18:04:25
1	Se 196.026†	822.2	812.1	495.41 ug/L	495.41 ppb	18:04:25
1	Si 251.611†	70998.6	67941.5	2417.1 ug/L	2417.1 ppb	18:04:05
1	Sn 189.927†	2189.4	2099.0	480.30 ug/L	480.30 ppb	18:04:25
1	Ti 334.940†	251788.1	244236.1	483.72 ug/L	483.72 ppb	18:04:05
1	Tl 190.801†	1060.7	1059.0	483.40 ug/L	483.40 ppb	18:04:25
1	U 409.014†	12708.3	14628.4	483.38 ug/L	483.38 ppb	18:04:05
1	V 292.402†	63089.5	62522.1	491.89 ug/L	491.89 ppb	18:04:05
1	Zn 213.857†	47844.3	45358.4	482.85 ug/L	482.85 ppb	18:04:05
1	SiO2†	70757.8	67700.1	5167.5 ug/L	5167.5 ppb	18:05:32
2	Sc Radial	4774.1	4774.1	101 %		18:03:07
2	Y RADIAL	5026.9	5026.9	99.74 %		18:03:07
2	Al 396.153Radial†	5315.1	5368.4	4891.5 ug/L	4891.5 ppb	18:03:07
2	Ca 317.933Radial†	2798.0	2764.5	4947.1 ug/L	4947.1 ppb	18:03:27
2	Fe 238.204 Radial†	489.8	479.8	4995.1 ug/L	4995.1 ppb	18:03:27
2	K 766.490 Radial†	29558.7	27090.0	5109.3 ug/L	5109.3 ppb	18:03:07
2	Mg 279.077 IEC†	132.4	129.5	5104.6 ug/L	5104.6 ppb	18:03:27
2	Na 589.592 Radial†	30962.5	31530.0	9594.2 ug/L	9594.2 ppb	18:03:07
2	Sr 421.552†	70556.4	70150.9	499.85 ug/L	499.85 ppb	18:03:07
2	Sc 361.383	794607.5	794607.5	100.48 %		18:04:30
2	Y 371.029	702673.5	702673.5	99.389 %		18:04:30
2	Ag 328.068†	100688.3	100030.9	505.55 ug/L	505.55 ppb	18:04:36
2	As 188.979†	1132.0	1155.3	506.49 ug/L	506.49 ppb	18:04:56
2	B 249.677†	20025.3	20153.9	498.96 ug/L	498.96 ppb	18:04:36
2	Ba 233.527†	43929.5	43723.7	508.30 ug/L	508.30 ppb	18:04:36
2	Be 313.107†	1250438.7	1253798.5	491.67 ug/L	491.67 ppb	18:04:30
2	Cd 226.502†	37080.0	37085.5	509.72 ug/L	509.72 ppb	18:04:36
2	Co 228.616†	16797.5	16781.6	499.34 ug/L	499.34 ppb	18:04:56
2	Cr 267.716†	38265.6	38021.6	507.60 ug/L	507.60 ppb	18:04:36
2	Cu 324.752†	144275.2	135862.4	501.11 ug/L	501.11 ppb	18:04:36
2	Mn 257.610†	323973.8	321995.9	506.16 ug/L	506.16 ppb	18:04:36
2	Mo 202.031†	5553.5	5515.0	499.05 ug/L	499.05 ppb	18:04:56
2	Ni 231.604†	16636.3	16476.3	508.37 ug/L	508.37 ppb	18:04:36

2	P 214.914†	4823.7	4601.8	2398.7 ug/L	2398.7 ppb	18:04:56
2	Pb 220.353†	3127.7	3170.3	505.07 ug/L	505.07 ppb	18:04:56
2	S 181.975 Axial†	841.5	796.5	988.47 ug/L	988.47 ppb	18:04:56
2	Sb 206.836†	1311.1	1272.0	516.67 ug/L	516.67 ppb	18:04:56
2	Se 196.026†	830.5	845.5	515.11 ug/L	515.11 ppb	18:04:56
2	Si 251.611†	71476.9	70584.4	2511.1 ug/L	2511.1 ppb	18:04:36
2	Sn 189.927†	2217.2	2193.5	501.90 ug/L	501.90 ppb	18:04:56
2	Ti 334.940†	253184.9	253310.3	501.68 ug/L	501.68 ppb	18:04:36
2	Tl 190.801†	1067.2	1097.8	501.13 ug/L	501.13 ppb	18:04:56
2	U 409.014†	12646.0	14954.2	494.15 ug/L	494.15 ppb	18:04:36
2	V 292.402†	63462.5	64818.7	510.00 ug/L	510.00 ppb	18:04:36
2	Zn 213.857†	48113.1	47086.0	501.28 ug/L	501.28 ppb	18:04:36
2	SiO2†	71546.5	70644.4	5392.3 ug/L	5392.3 ppb	18:05:37
3	Sc Radial	4744.7	4744.7	99.9 %		18:03:33
3	Y RADIAL	4940.2	4940.2	98.02 %		18:03:33
3	Al 396.153Radial†	5243.8	5329.9	4856.7 ug/L	4856.7 ppb	18:03:33
3	Ca 317.933Radial†	2783.6	2767.3	4952.1 ug/L	4952.1 ppb	18:03:53
3	Fe 238.204 Radial†	493.5	486.6	5065.0 ug/L	5065.0 ppb	18:03:53
3	K 766.490 Radial†	29296.8	27010.1	5094.2 ug/L	5094.2 ppb	18:03:33
3	Mg 279.077 IEC†	133.8	131.8	5194.1 ug/L	5194.1 ppb	18:03:53
3	Na 589.592 Radial†	30548.3	31306.3	9526.1 ug/L	9526.1 ppb	18:03:33
3	Sr 421.552†	69659.5	69688.3	496.55 ug/L	496.55 ppb	18:03:33
3	Sc 361.383	812202.0	812202.0	102.70 %		18:05:01
3	Y 371.029	716903.6	716903.6	101.40 %		18:05:01
3	Ag 328.068†	99626.0	96825.8	489.42 ug/L	489.42 ppb	18:05:06
3	As 188.979†	1136.6	1135.3	497.73 ug/L	497.73 ppb	18:05:26
3	B 249.677†	19848.5	19550.0	483.96 ug/L	483.96 ppb	18:05:06
3	Ba 233.527†	43446.4	42306.3	491.83 ug/L	491.83 ppb	18:05:06
3	Be 313.107†	1274630.3	1250394.5	490.30 ug/L	490.30 ppb	18:05:01
3	Cd 226.502†	36683.3	35899.9	493.40 ug/L	493.40 ppb	18:05:06
3	Co 228.616†	16814.9	16436.4	489.08 ug/L	489.08 ppb	18:05:26
3	Cr 267.716†	37796.2	36739.6	490.49 ug/L	490.49 ppb	18:05:06
3	Cu 324.752†	142640.8	131160.5	483.77 ug/L	483.77 ppb	18:05:06
3	Mn 257.610†	320554.3	311681.8	489.96 ug/L	489.96 ppb	18:05:06
3	Mo 202.031†	5562.6	5404.2	489.04 ug/L	489.04 ppb	18:05:26
3	Ni 231.604†	16437.9	15924.5	491.34 ug/L	491.34 ppb	18:05:06
3	P 214.914†	4835.9	4509.7	2352.1 ug/L	2352.1 ppb	18:05:26
3	Pb 220.353†	3111.7	3087.2	491.85 ug/L	491.85 ppb	18:05:26
3	S 181.975 Axial†	849.6	786.2	975.66 ug/L	975.66 ppb	18:05:26
3	Sb 206.836†	1298.5	1231.5	500.40 ug/L	500.40 ppb	18:05:26
3	Se 196.026†	825.4	822.6	501.68 ug/L	501.68 ppb	18:05:26
3	Si 251.611†	70686.9	68274.1	2428.9 ug/L	2428.9 ppb	18:05:06
3	Sn 189.927†	2219.6	2148.1	491.50 ug/L	491.50 ppb	18:05:26
3	Ti 334.940†	250529.9	245266.8	485.75 ug/L	485.75 ppb	18:05:06
3	Tl 190.801†	1071.7	1079.2	492.55 ug/L	492.55 ppb	18:05:26
3	U 409.014†	12510.3	14549.4	480.76 ug/L	480.76 ppb	18:05:06
3	V 292.402†	62791.7	62797.3	494.15 ug/L	494.15 ppb	18:05:06
3	Zn 213.857†	47575.0	45524.8	484.63 ug/L	484.63 ppb	18:05:06
3	SiO2†	70837.3	68411.4	5221.7 ug/L	5221.7 ppb	18:05:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	808851.4	102.28 %	1.631			1.59%
Sc Radial	4756.8	100 %	0.3			0.32%
Y 371.029	714421.3	101.05 %	1.517			1.50%
Y RADIAL	4993.8	99.08 %	0.930			0.94%
Ag 328.068†	97775.5	494.20 ug/L	9.873	494.20 ppb	9.873	2.00%
QC value within limits for Ag 328.068 Recovery = 98.84%						
Al 396.153Radial†	5385.0	4907.1 ug/L	59.78	4907.1 ppb	59.78	1.22%
QC value within limits for Al 396.153Radial Recovery = 98.14%						
As 188.979†	1135.2	497.70 ug/L	8.806	497.70 ppb	8.806	1.77%
QC value within limits for As 188.979 Recovery = 99.54%						
B 249.677†	19690.8	487.46 ug/L	10.208	487.46 ppb	10.208	2.09%
QC value within limits for B 249.677 Recovery = 97.49%						
Ba 233.527†	42692.0	496.32 ug/L	10.491	496.32 ppb	10.491	2.11%
QC value within limits for Ba 233.527 Recovery = 99.26%						
Be 313.107†	1252530.3	491.15 ug/L	0.739	491.15 ppb	0.739	0.15%
QC value within limits for Be 313.107 Recovery = 98.23%						
Ca 317.933Radial†	2771.2	4959.2 ug/L	16.82	4959.2 ppb	16.82	0.34%

QC value within limits for Ca 317.933 Radial Recovery = 99.18%							
Cd	226.502†	36219.0	497.79 ug/L	10.446	497.79 ppb	10.446	2.10%
QC value within limits for Cd 226.502 Recovery = 99.56%							
Co	228.616†	16455.7	489.65 ug/L	9.428	489.65 ppb	9.428	1.93%
QC value within limits for Co 228.616 Recovery = 97.93%							
Cr	267.716†	37128.1	495.68 ug/L	10.358	495.68 ppb	10.358	2.09%
QC value within limits for Cr 267.716 Recovery = 99.14%							
Cu	324.752†	132589.1	489.04 ug/L	10.478	489.04 ppb	10.478	2.14%
QC value within limits for Cu 324.752 Recovery = 97.81%							
Fe	238.204 Radial†	484.2	5040.4 ug/L	39.26	5040.4 ppb	39.26	0.78%
QC value within limits for Fe 238.204 Radial Recovery = 100.81%							
K	766.490 Radial†	27161.3	5122.7 ug/L	37.14	5122.7 ppb	37.14	0.72%
QC value within limits for K 766.490 Radial Recovery = 102.45%							
Mg	279.077 IEC†	130.5	5140.6 ug/L	47.24	5140.6 ppb	47.24	0.92%
QC value within limits for Mg 279.077 IEC Recovery = 102.81%							
Mn	257.610†	314673.7	494.66 ug/L	10.015	494.66 ppb	10.015	2.02%
QC value within limits for Mn 257.610 Recovery = 98.93%							
Mo	202.031†	5408.7	489.44 ug/L	9.414	489.44 ppb	9.414	1.92%
QC value within limits for Mo 202.031 Recovery = 97.89%							
Na	589.592 Radial†	31458.6	9572.5 ug/L	40.15	9572.5 ppb	40.15	0.42%
QC value within limits for Na 589.592 Radial Recovery = 95.72%							
Ni	231.604†	16092.3	496.52 ug/L	10.288	496.52 ppb	10.288	2.07%
QC value within limits for Ni 231.604 Recovery = 99.30%							
P	214.914†	4508.6	2350.5 ug/L	49.09	2350.5 ppb	49.09	2.09%
QC value within limits for P 214.914 Recovery = 94.02%							
Pb	220.353†	3095.4	493.16 ug/L	11.300	493.16 ppb	11.300	2.29%
QC value within limits for Pb 220.353 Recovery = 98.63%							
S	181.975 Axial†	784.8	974.01 ug/L	15.350	974.01 ppb	15.350	1.58%
QC value within limits for S 181.975 Axial Recovery = 97.40%							
Sb	206.836†	1237.5	502.77 ug/L	12.877	502.77 ppb	12.877	2.56%
QC value within limits for Sb 206.836 Recovery = 100.55%							
Se	196.026†	826.7	504.07 ug/L	10.066	504.07 ppb	10.066	2.00%
QC value within limits for Se 196.026 Recovery = 100.81%							
Si	251.611†	68933.3	2452.4 ug/L	51.23	2452.4 ppb	51.23	2.09%
QC value within limits for Si 251.611 Recovery = 98.10%							
Sn	189.927†	2146.9	491.23 ug/L	10.801	491.23 ppb	10.801	2.20%
QC value within limits for Sn 189.927 Recovery = 98.25%							
Sr	421.552†	70182.1	500.07 ug/L	3.635	500.07 ppb	3.635	0.73%
QC value within limits for Sr 421.552 Recovery = 100.01%							
Ti	334.940†	247604.4	490.38 ug/L	9.837	490.38 ppb	9.837	2.01%
QC value within limits for Ti 334.940 Recovery = 98.08%							
Tl	190.801†	1078.7	492.36 ug/L	8.863	492.36 ppb	8.863	1.80%
QC value within limits for Tl 190.801 Recovery = 98.47%							
U	409.014†	14710.7	486.10 ug/L	7.097	486.10 ppb	7.097	1.46%
QC value within limits for U 409.014 Recovery = 97.22%							
V	292.402†	63379.4	498.68 ug/L	9.866	498.68 ppb	9.866	1.98%
QC value within limits for V 292.402 Recovery = 99.74%							
Zn	213.857†	45989.7	489.59 ug/L	10.167	489.59 ppb	10.167	2.08%
QC value within limits for Zn 213.857 Recovery = 97.92%							
SiO2†		68918.6	5260.5 ug/L	117.32	5260.5 ppb	117.32	2.23%
QC value within limits for SiO2 Recovery = 98.37%							

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/4/2010 18:07:53

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4876.4	4876.4	103 %			18:09:46
1	Y RADIAL	5203.7	5203.7	103.2 %			18:09:46
1	Al 396.153Radial†	-84.4	0.3	0.3331 ug/L		0.3331 ppb	18:10:06
1	Ca 317.933Radial†	17.7	-1.0	-1.7610 ug/L		-1.7610 ppb	18:10:06
1	Fe 238.204 Radial†	6.0	-1.5	-15.175 ug/L		-15.175 ppb	18:10:06
1	K 766.490 Radial†	2488.4	116.1	21.917 ug/L		21.917 ppb	18:09:46
1	Mg 279.077 IEC†	1.7	-0.4	-16.735 ug/L		-16.735 ppb	18:10:06
1	Na 589.592 Radial†	-740.5	16.1	4.8839 ug/L		4.8839 ppb	18:09:46
1	Sr 421.552†	21.0	1.5	0.0107 ug/L		0.0107 ppb	18:09:46
1	Sc 361.383	798323.8	798323.8	100.95 %			18:11:03
1	Y 371.029	711661.2	711661.2	100.66 %			18:11:03
1	Ag 328.068†	93.8	-83.5	-0.4242 ug/L		-0.4242 ppb	18:11:03
1	As 188.979†	-33.2	-4.2	-1.8412 ug/L		-1.8412 ppb	18:11:23
1	B 249.677†	-153.6	72.1	1.7954 ug/L		1.7954 ppb	18:11:23
1	Ba 233.527†	5.7	9.7	0.1119 ug/L		0.1119 ppb	18:11:23
1	Be 313.107†	-9536.0	-113.8	-0.0445 ug/L		-0.0445 ppb	18:11:03
1	Cd 226.502†	-177.6	6.7	0.0936 ug/L		0.0936 ppb	18:11:23
1	Co 228.616†	-69.7	-4.7	-0.1406 ug/L		-0.1406 ppb	18:11:23
1	Cr 267.716†	82.4	20.4	0.2715 ug/L		0.2715 ppb	18:11:23
1	Cu 324.752†	7768.3	-28.5	-0.1058 ug/L		-0.1058 ppb	18:11:03
1	Mn 257.610†	440.7	6.1	0.0088 ug/L		0.0088 ppb	18:11:23
1	Mo 202.031†	6.4	-5.6	-0.5077 ug/L		-0.5077 ppb	18:11:23
1	Ni 231.604†	82.3	1.1	0.0329 ug/L		0.0329 ppb	18:11:23
1	P 214.914†	214.1	13.2	7.2104 ug/L		7.2104 ppb	18:11:23
1	Pb 220.353†	-64.9	-6.8	-1.0756 ug/L		-1.0756 ppb	18:11:23
1	S 181.975 Axial†	56.0	14.5	17.988 ug/L		17.988 ppb	18:11:23
1	Sb 206.836†	35.4	2.2	0.8730 ug/L		0.8730 ppb	18:11:23
1	Se 196.026†	-19.3	-0.2	-0.1493 ug/L		-0.1493 ppb	18:11:23
1	Si 251.611†	627.5	70.4	2.5167 ug/L		2.5167 ppb	18:11:23
1	Sn 189.927†	14.7	1.4	0.3311 ug/L		0.3311 ppb	18:11:23
1	Ti 334.940†	-1345.7	1.8	0.0046 ug/L		0.0046 ppb	18:11:03
1	Tl 190.801†	-39.3	-3.2	-1.4535 ug/L		-1.4535 ppb	18:11:23
1	U 409.014†	-2398.0	-6.8	-0.2236 ug/L		-0.2236 ppb	18:11:03
1	V 292.402†	-1677.6	-2.4	-0.0248 ug/L		-0.0248 ppb	18:11:03
1	Zn 213.857†	706.4	-97.5	-1.0460 ug/L		-1.0460 ppb	18:11:23
1	SiO2†	604.4	38.4	2.9549 ug/L		2.9549 ppb	18:12:19
2	Sc Radial	4784.0	4784.0	101 %			18:10:11
2	Y RADIAL	5048.0	5048.0	100.2 %			18:10:11
2	Al 396.153Radial†	-86.7	-3.5	-3.2272 ug/L		-3.2272 ppb	18:10:31
2	Ca 317.933Radial†	20.2	1.8	3.1387 ug/L		3.1387 ppb	18:10:31
2	Fe 238.204 Radial†	8.3	0.9	9.6787 ug/L		9.6787 ppb	18:10:31
2	K 766.490 Radial†	2449.5	124.3	23.478 ug/L		23.478 ppb	18:10:11
2	Mg 279.077 IEC†	0.7	-1.4	-56.384 ug/L		-56.384 ppb	18:10:31
2	Na 589.592 Radial†	-720.0	22.5	6.8460 ug/L		6.8460 ppb	18:10:11
2	Sr 421.552†	4.8	-14.1	-0.1009 ug/L		-0.1009 ppb	18:10:11
2	Sc 361.383	801618.9	801618.9	101.37 %			18:11:28
2	Y 371.029	715479.0	715479.0	101.20 %			18:11:28
2	Ag 328.068†	115.7	-62.3	-0.3150 ug/L		-0.3150 ppb	18:11:28
2	As 188.979†	-29.4	-0.4	-0.1641 ug/L		-0.1641 ppb	18:11:48
2	B 249.677†	-105.2	120.5	2.9957 ug/L		2.9957 ppb	18:11:48
2	Ba 233.527†	-12.1	-7.9	-0.0930 ug/L		-0.0930 ppb	18:11:48
2	Be 313.107†	-9576.3	-114.7	-0.0449 ug/L		-0.0449 ppb	18:11:28
2	Cd 226.502†	-189.9	-4.7	-0.0651 ug/L		-0.0651 ppb	18:11:48
2	Co 228.616†	-70.0	-4.7	-0.1413 ug/L		-0.1413 ppb	18:11:48
2	Cr 267.716†	61.5	-0.5	-0.0087 ug/L		-0.0087 ppb	18:11:48
2	Cu 324.752†	7920.9	90.4	0.3320 ug/L		0.3320 ppb	18:11:28
2	Mn 257.610†	437.4	1.0	0.0048 ug/L		0.0048 ppb	18:11:48
2	Mo 202.031†	8.5	-3.6	-0.3231 ug/L		-0.3231 ppb	18:11:48
2	Ni 231.604†	68.7	-12.7	-0.3919 ug/L		-0.3919 ppb	18:11:48

2	P 214.914†	216.5	14.7	7.9144 ug/L	7.9144 ppb	18:11:48
2	Pb 220.353†	-72.2	-13.7	-2.1850 ug/L	-2.1850 ppb	18:11:48
2	S 181.975 Axial†	42.5	0.9	1.1615 ug/L	1.1615 ppb	18:11:48
2	Sb 206.836†	32.7	-0.6	-0.2482 ug/L	-0.2482 ppb	18:11:48
2	Se 196.026†	-12.7	6.4	3.8485 ug/L	3.8485 ppb	18:11:48
2	Si 251.611†	602.7	43.4	1.5534 ug/L	1.5534 ppb	18:11:48
2	Sn 189.927†	10.5	-2.7	-0.6202 ug/L	-0.6202 ppb	18:11:48
2	Ti 334.940†	-1353.5	-0.5	0.0026 ug/L	0.0026 ppb	18:11:28
2	Tl 190.801†	-44.7	-8.4	-3.8180 ug/L	-3.8180 ppb	18:11:48
2	U 409.014†	-2299.9	99.7	3.3064 ug/L	3.3064 ppb	18:11:28
2	V 292.402†	-1751.0	-68.1	-0.5296 ug/L	-0.5296 ppb	18:11:28
2	Zn 213.857†	696.8	-109.9	-1.1798 ug/L	-1.1798 ppb	18:11:48
2	SiO2†	634.6	65.8	5.0406 ug/L	5.0406 ppb	18:12:24
3	Sc Radial	4812.0	4812.0	101 %		18:10:36
3	Y RADIAL	5104.2	5104.2	101.3 %		18:10:36
3	Al 396.153Radial†	-91.1	-7.4	-6.7524 ug/L	-6.7524 ppb	18:10:56
3	Ca 317.933Radial†	16.1	-2.4	-4.2629 ug/L	-4.2629 ppb	18:10:56
3	Fe 238.204 Radial†	8.6	1.2	12.302 ug/L	12.302 ppb	18:10:56
3	K 766.490 Radial†	2512.1	171.9	32.464 ug/L	32.464 ppb	18:10:36
3	Mg 279.077 IEC†	-1.0	-3.1	-121.24 ug/L	-121.24 ppb	18:10:56
3	Na 589.592 Radial†	-728.2	18.5	5.6338 ug/L	5.6338 ppb	18:10:36
3	Sr 421.552†	51.8	32.1	0.2290 ug/L	0.2290 ppb	18:10:36
3	Sc 361.383	795961.6	795961.6	100.65 %		18:11:53
3	Y 371.029	708976.0	708976.0	100.28 %		18:11:53
3	Ag 328.068†	211.8	33.9	0.1771 ug/L	0.1771 ppb	18:11:53
3	As 188.979†	-24.5	4.3	1.8684 ug/L	1.8684 ppb	18:12:13
3	B 249.677†	-140.3	84.9	2.1079 ug/L	2.1079 ppb	18:12:13
3	Ba 233.527†	-9.3	-5.2	-0.0602 ug/L	-0.0602 ppb	18:12:13
3	Be 313.107†	-9571.5	-177.1	-0.0695 ug/L	-0.0695 ppb	18:11:53
3	Cd 226.502†	-179.3	4.5	0.0603 ug/L	0.0603 ppb	18:12:13
3	Co 228.616†	-61.5	3.3	0.0970 ug/L	0.0970 ppb	18:12:13
3	Cr 267.716†	71.7	10.0	0.1357 ug/L	0.1357 ppb	18:12:13
3	Cu 324.752†	7758.4	-15.6	-0.0544 ug/L	-0.0544 ppb	18:11:53
3	Mn 257.610†	436.2	2.9	0.0108 ug/L	0.0108 ppb	18:12:13
3	Mo 202.031†	11.9	-0.2	-0.0170 ug/L	-0.0170 ppb	18:12:13
3	Ni 231.604†	89.8	8.8	0.2707 ug/L	0.2707 ppb	18:12:13
3	P 214.914†	207.4	7.2	3.9175 ug/L	3.9175 ppb	18:12:13
3	Pb 220.353†	-52.5	5.4	0.8489 ug/L	0.8489 ppb	18:12:13
3	S 181.975 Axial†	49.3	7.9	9.8329 ug/L	9.8329 ppb	18:12:13
3	Sb 206.836†	41.5	8.3	3.2659 ug/L	3.2659 ppb	18:12:13
3	Se 196.026†	-21.1	-2.0	-1.1800 ug/L	-1.1800 ppb	18:12:13
3	Si 251.611†	625.8	70.6	2.5188 ug/L	2.5188 ppb	18:12:13
3	Sn 189.927†	14.6	1.4	0.3159 ug/L	0.3159 ppb	18:12:13
3	Ti 334.940†	-1388.1	-44.4	-0.0767 ug/L	-0.0767 ppb	18:11:53
3	Tl 190.801†	-28.9	7.0	3.1878 ug/L	3.1878 ppb	18:12:13
3	U 409.014†	-2518.1	-133.2	-4.4175 ug/L	-4.4175 ppb	18:11:53
3	V 292.402†	-1695.4	-25.2	-0.2081 ug/L	-0.2081 ppb	18:11:53
3	Zn 213.857†	712.6	-89.3	-0.9628 ug/L	-0.9628 ppb	18:12:13
3	SiO2†	629.7	65.3	4.9989 ug/L	4.9989 ppb	18:12:29

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	798634.7	100.99 %	0.359			0.36%
Sc Radial	4824.1	102 %	1.0			0.98%
Y 371.029	712038.8	100.71 %	0.462			0.46%
Y RADIAL	5118.7	101.6 %	1.56			1.54%
Ag 328.068†	-37.3	-0.1873 ug/L	0.32032	-0.1873 ppb	0.32032	170.99%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.5	-3.2155 ug/L	3.54273	-3.2155 ppb	3.54273	110.18%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.1	-0.0456 ug/L	1.85766	-0.0456 ppb	1.85766	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	92.5	2.2997 ug/L	0.62267	2.2997 ppb	0.62267	27.08%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.1	-0.0138 ug/L	0.11005	-0.0138 ppb	0.11005	799.94%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-135.2	-0.0530 ug/L	0.01432	-0.0530 ppb	0.01432	27.04%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.5	-0.9617 ug/L	3.76498	-0.9617 ppb	3.76498	391.48%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	2.2	0.0296 ug/L	0.08365	0.0296 ppb	0.08365	282.72%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-2.0	-0.0616 ug/L	0.13742	-0.0616 ppb	0.13742	222.91%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	10.0	0.1328 ug/L	0.14016	0.1328 ppb	0.14016	105.52%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	15.4	0.0573 ug/L	0.23929	0.0573 ppb	0.23929	417.79%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.2	2.2685 ug/L	15.16337	2.2685 ppb	15.16337	668.44%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	137.4	25.953 ug/L	5.6924	25.953 ppb	5.6924	21.93%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.6	-64.786 ug/L	52.7566	-64.786 ppb	52.7566	81.43%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	3.4	0.0081 ug/L	0.00301	0.0081 ppb	0.00301	36.99%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-3.1	-0.2826 ug/L	0.24782	-0.2826 ppb	0.24782	87.70%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	19.0	5.7879 ug/L	0.99008	5.7879 ppb	0.99008	17.11%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-1.0	-0.0294 ug/L	0.33569	-0.0294 ppb	0.33569	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	11.7	6.3474 ug/L	2.13361	6.3474 ppb	2.13361	33.61%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.1	-0.8039 ug/L	1.53510	-0.8039 ppb	1.53510	190.96%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	7.8	9.6606 ug/L	8.41434	9.6606 ppb	8.41434	87.10%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.3	1.2969 ug/L	1.79500	1.2969 ppb	1.79500	138.41%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.4	0.8397 ug/L	2.65613	0.8397 ppb	2.65613	316.31%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	61.5	2.1963 ug/L	0.55676	2.1963 ppb	0.55676	25.35%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	0.0	0.0089 ug/L	0.54485	0.0089 ppb	0.54485	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	6.5	0.0463 ug/L	0.16776	0.0463 ppb	0.16776	362.41%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-14.4	-0.0231 ug/L	0.04636	-0.0231 ppb	0.04636	200.34%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-1.5	-0.6946 ug/L	3.56405	-0.6946 ppb	3.56405	513.13%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-13.4	-0.4449 ug/L	3.86670	-0.4449 ppb	3.86670	869.10%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-31.9	-0.2542 ug/L	0.25555	-0.2542 ppb	0.25555	100.54%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-98.9	-1.0629 ug/L	0.10951	-1.0629 ppb	0.10951	10.30%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	56.5	4.3315 ug/L	1.19237	4.3315 ppb	1.19237	27.53%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/4/2010 18:29:05

Plasma On Time: 3/1/2010 06:57:40

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\030410.sif

Batch ID:

Results Data Set: 030410

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 1

Sample ID: CCV

Date Collected: 3/4/2010 18:29:06

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	4808.1	4808.1	101 %		18:30:58
1	Y RADIAL	5039.6	5039.6	99.99 %		18:30:58
1	Al 396.153Radial†	5254.3	5271.0	4802.9 ug/L	4802.9 ppb	18:30:58
1	Ca 317.933Radial†	2810.6	2757.1	4934.0 ug/L	4934.0 ppb	18:31:18
1	Fe 238.204 Radial†	495.6	482.1	5018.7 ug/L	5018.7 ppb	18:31:18
1	K 766.490 Radial†	29197.2	26525.1	5002.7 ug/L	5002.7 ppb	18:30:58
1	Mg 279.077 IEC†	133.7	129.9	5118.3 ug/L	5118.3 ppb	18:31:18
1	Na 589.592 Radial†	30344.4	30701.8	9342.2 ug/L	9342.2 ppb	18:30:58
1	Sr 421.552†	69626.0	68735.8	489.76 ug/L	489.76 ppb	18:30:58
1	Sc 361.383	814248.9	814248.9	102.96 %		18:32:15
1	Y 371.029	717262.5	717262.5	101.45 %		18:32:15
1	Ag 328.068†	98577.8	95563.9	483.05 ug/L	483.05 ppb	18:32:20
1	As 188.979†	1130.0	1126.1	493.68 ug/L	493.68 ppb	18:32:40
1	B 249.677†	19555.1	19216.5	475.64 ug/L	475.64 ppb	18:32:20
1	Ba 233.527†	43132.8	41895.3	487.06 ug/L	487.06 ppb	18:32:20
1	Be 313.107†	1258594.2	1231700.1	482.98 ug/L	482.98 ppb	18:32:15
1	Cd 226.502†	36369.6	35505.4	487.98 ug/L	487.98 ppb	18:32:20
1	Co 228.616†	17263.1	16830.6	500.81 ug/L	500.81 ppb	18:32:20
1	Cr 267.716†	37447.5	36308.4	484.74 ug/L	484.74 ppb	18:32:20
1	Cu 324.752†	141494.2	129697.8	478.38 ug/L	478.38 ppb	18:32:20
1	Mn 257.610†	318797.2	309190.7	486.04 ug/L	486.04 ppb	18:32:20
1	Mo 202.031†	5540.1	5368.7	485.82 ug/L	485.82 ppb	18:32:40
1	Ni 231.604†	16318.2	15768.0	486.50 ug/L	486.50 ppb	18:32:20
1	P 214.914†	4856.2	4517.6	2357.4 ug/L	2357.4 ppb	18:32:40
1	Pb 220.353†	3111.3	3079.3	490.57 ug/L	490.57 ppb	18:32:40
1	S 181.975 Axial†	861.2	795.4	987.13 ug/L	987.13 ppb	18:32:40
1	Sb 206.836†	1303.8	1233.4	501.05 ug/L	501.05 ppb	18:32:40
1	Se 196.026†	832.0	827.1	504.19 ug/L	504.19 ppb	18:32:40
1	Si 251.611†	70126.4	67556.8	2403.3 ug/L	2403.3 ppb	18:32:20
1	Sn 189.927†	2210.0	2133.3	488.13 ug/L	488.13 ppb	18:32:40
1	Ti 334.940†	248717.4	242893.2	481.06 ug/L	481.06 ppb	18:32:20
1	Tl 190.801†	1073.6	1078.4	492.11 ug/L	492.11 ppb	18:32:40
1	U 409.014†	12417.7	14428.9	476.78 ug/L	476.78 ppb	18:32:20
1	V 292.402†	62197.4	62066.4	488.43 ug/L	488.43 ppb	18:32:20
1	Zn 213.857†	47279.8	45121.7	480.34 ug/L	480.34 ppb	18:32:20
1	SiO2†	70770.7	68173.4	5203.6 ug/L	5203.6 ppb	18:33:47
2	Sc Radial	4828.9	4828.9	102 %		18:31:23
2	Y RADIAL	5055.9	5055.9	100.3 %		18:31:23
2	Al 396.153Radial†	5275.9	5269.9	4802.0 ug/L	4802.0 ppb	18:31:23
2	Ca 317.933Radial†	2779.0	2714.1	4857.0 ug/L	4857.0 ppb	18:31:43
2	Fe 238.204 Radial†	485.8	470.4	4896.7 ug/L	4896.7 ppb	18:31:43
2	K 766.490 Radial†	29079.1	26284.7	4957.4 ug/L	4957.4 ppb	18:31:23
2	Mg 279.077 IEC†	132.2	127.9	5038.7 ug/L	5038.7 ppb	18:31:43
2	Na 589.592 Radial†	30286.8	30515.9	9285.6 ug/L	9285.6 ppb	18:31:23
2	Sr 421.552†	69712.5	68524.4	488.26 ug/L	488.26 ppb	18:31:23
2	Sc 361.383	816093.6	816093.6	103.20 %		18:32:46
2	Y 371.029	718659.4	718659.4	101.65 %		18:32:46

2	Ag 328.068†	98739.2	95503.9	482.71 ug/L	482.71 ppb	18:32:51
2	As 188.979†	1115.9	1109.9	486.60 ug/L	486.60 ppb	18:33:11
2	B 249.677†	19566.0	19184.1	474.87 ug/L	474.87 ppb	18:32:51
2	Ba 233.527†	43012.1	41683.6	484.59 ug/L	484.59 ppb	18:32:51
2	Be 313.107†	1261592.3	1231842.4	483.03 ug/L	483.03 ppb	18:32:46
2	Cd 226.502†	36256.6	35316.1	485.39 ug/L	485.39 ppb	18:32:51
2	Co 228.616†	17150.5	16683.6	496.44 ug/L	496.44 ppb	18:32:51
2	Cr 267.716†	37335.5	36117.7	482.19 ug/L	482.19 ppb	18:32:51
2	Cu 324.752†	141787.9	129671.7	478.28 ug/L	478.28 ppb	18:32:51
2	Mn 257.610†	318340.2	308048.0	484.24 ug/L	484.24 ppb	18:32:51
2	Mo 202.031†	5527.2	5344.0	483.59 ug/L	483.59 ppb	18:33:11
2	Ni 231.604†	16320.3	15734.2	485.46 ug/L	485.46 ppb	18:32:51
2	P 214.914†	4834.8	4486.1	2340.5 ug/L	2340.5 ppb	18:33:11
2	Pb 220.353†	3092.5	3054.2	486.60 ug/L	486.60 ppb	18:33:11
2	S 181.975 Axial†	850.8	783.4	972.18 ug/L	972.18 ppb	18:33:11
2	Sb 206.836†	1295.8	1222.8	496.81 ug/L	496.81 ppb	18:33:11
2	Se 196.026†	823.6	817.0	497.96 ug/L	497.96 ppb	18:33:11
2	Si 251.611†	70105.6	67382.7	2397.2 ug/L	2397.2 ppb	18:32:51
2	Sn 189.927†	2210.4	2128.8	487.10 ug/L	487.10 ppb	18:33:11
2	Ti 334.940†	248841.7	242467.6	480.21 ug/L	480.21 ppb	18:32:51
2	Tl 190.801†	1069.6	1072.2	489.29 ug/L	489.29 ppb	18:33:11
2	U 409.014†	12334.4	14320.9	473.22 ug/L	473.22 ppb	18:32:51
2	V 292.402†	62116.4	61851.4	486.74 ug/L	486.74 ppb	18:32:51
2	Zn 213.857†	47235.7	44975.1	478.79 ug/L	478.79 ppb	18:32:51
2	SiO2†	70429.2	67687.0	5166.4 ug/L	5166.4 ppb	18:33:53
3	Sc Radial	4816.8	4816.8	101 %		18:31:48
3	Y RADIAL	5068.8	5068.8	100.6 %		18:31:48
3	Al 396.153Radial†	5272.7	5279.8	4810.9 ug/L	4810.9 ppb	18:31:48
3	Ca 317.933Radial†	2798.5	2740.2	4903.8 ug/L	4903.8 ppb	18:32:08
3	Fe 238.204 Radial†	493.3	479.0	4986.2 ug/L	4986.2 ppb	18:32:08
3	K 766.490 Radial†	29120.0	26396.9	4978.5 ug/L	4978.5 ppb	18:31:48
3	Mg 279.077 IEC†	129.4	125.4	4942.5 ug/L	4942.5 ppb	18:32:08
3	Na 589.592 Radial†	30255.0	30559.5	9298.9 ug/L	9298.9 ppb	18:31:48
3	Sr 421.552†	69572.2	68558.5	488.50 ug/L	488.50 ppb	18:31:48
3	Sc 361.383	810878.1	810878.1	102.54 %		18:33:17
3	Y 371.029	714633.4	714633.4	101.08 %		18:33:17
3	Ag 328.068†	99493.1	96854.6	489.53 ug/L	489.53 ppb	18:33:22
3	As 188.979†	1133.3	1133.9	497.11 ug/L	497.11 ppb	18:33:42
3	B 249.677†	19781.0	19515.7	483.08 ug/L	483.08 ppb	18:33:22
3	Ba 233.527†	43351.4	42282.7	491.56 ug/L	491.56 ppb	18:33:22
3	Be 313.107†	1255633.3	1233894.0	483.85 ug/L	483.85 ppb	18:33:17
3	Cd 226.502†	36376.4	35658.8	490.10 ug/L	490.10 ppb	18:33:22
3	Co 228.616†	17308.5	16944.5	504.19 ug/L	504.19 ppb	18:33:22
3	Cr 267.716†	37590.6	36599.2	488.62 ug/L	488.62 ppb	18:33:22
3	Cu 324.752†	143408.7	132136.1	487.37 ug/L	487.37 ppb	18:33:22
3	Mn 257.610†	320561.8	312198.7	490.77 ug/L	490.77 ppb	18:33:22
3	Mo 202.031†	5518.7	5370.1	485.95 ug/L	485.95 ppb	18:33:42
3	Ni 231.604†	16392.4	15906.2	490.77 ug/L	490.77 ppb	18:33:22
3	P 214.914†	4829.6	4511.3	2352.2 ug/L	2352.2 ppb	18:33:42
3	Pb 220.353†	3116.6	3097.0	493.39 ug/L	493.39 ppb	18:33:42
3	S 181.975 Axial†	847.4	785.4	974.73 ug/L	974.73 ppb	18:33:42
3	Sb 206.836†	1289.0	1224.2	497.43 ug/L	497.43 ppb	18:33:42
3	Se 196.026†	820.4	819.1	499.38 ug/L	499.38 ppb	18:33:42
3	Si 251.611†	70762.2	68460.0	2435.5 ug/L	2435.5 ppb	18:33:22
3	Sn 189.927†	2202.0	2134.4	488.38 ug/L	488.38 ppb	18:33:42
3	Ti 334.940†	250799.1	245927.6	487.07 ug/L	487.07 ppb	18:33:22
3	Tl 190.801†	1064.3	1073.7	490.00 ug/L	490.00 ppb	18:33:42
3	U 409.014†	12646.8	14702.5	485.85 ug/L	485.85 ppb	18:33:22
3	V 292.402†	62534.0	62645.8	492.94 ug/L	492.94 ppb	18:33:22
3	Zn 213.857†	47482.7	45510.4	484.48 ug/L	484.48 ppb	18:33:22
3	SiO2†	71246.2	68922.8	5260.9 ug/L	5260.9 ppb	18:33:58

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813740.2	102.90 %	0.334			0.33%
Sc Radial	4817.9	101 %	0.2			0.22%
Y 371.029	716851.8	101.39 %	0.289			0.29%
Y RADIAL	5054.8	100.3 %	0.29			0.29%
Ag 328.068†	95974.1	485.10 ug/L	3.846	485.10 ppb	3.846	0.79%

QC value within limits for Ag 328.068 Recovery = 97.02%					
Al 396.153Radial†	5273.6	4805.3 ug/L	4.92	4805.3 ppb	4.92 0.10%
QC value within limits for Al 396.153Radial Recovery = 96.11%					
As 188.979†	1123.3	492.46 ug/L	5.356	492.46 ppb	5.356 1.09%
QC value within limits for As 188.979 Recovery = 98.49%					
B 249.677†	19305.4	477.86 ug/L	4.533	477.86 ppb	4.533 0.95%
QC value within limits for B 249.677 Recovery = 95.57%					
Ba 233.527†	41953.9	487.73 ug/L	3.531	487.73 ppb	3.531 0.72%
QC value within limits for Ba 233.527 Recovery = 97.55%					
Be 313.107†	1232478.8	483.29 ug/L	0.489	483.29 ppb	0.489 0.10%
QC value within limits for Be 313.107 Recovery = 96.66%					
Ca 317.933Radial†	2737.2	4898.3 ug/L	38.79	4898.3 ppb	38.79 0.79%
QC value within limits for Ca 317.933Radial Recovery = 97.97%					
Cd 226.502†	35493.4	487.82 ug/L	2.358	487.82 ppb	2.358 0.48%
QC value within limits for Cd 226.502 Recovery = 97.56%					
Co 228.616†	16819.6	500.48 ug/L	3.888	500.48 ppb	3.888 0.78%
QC value within limits for Co 228.616 Recovery = 100.10%					
Cr 267.716†	36341.8	485.18 ug/L	3.236	485.18 ppb	3.236 0.67%
QC value within limits for Cr 267.716 Recovery = 97.04%					
Cu 324.752†	130501.9	481.34 ug/L	5.218	481.34 ppb	5.218 1.08%
QC value within limits for Cu 324.752 Recovery = 96.27%					
Fe 238.204 Radial†	477.2	4967.2 ug/L	63.20	4967.2 ppb	63.20 1.27%
QC value within limits for Fe 238.204 Radial Recovery = 99.34%					
K 766.490 Radial†	26402.2	4979.5 ug/L	22.69	4979.5 ppb	22.69 0.46%
QC value within limits for K 766.490 Radial Recovery = 99.59%					
Mg 279.077 IEC†	127.7	5033.2 ug/L	88.05	5033.2 ppb	88.05 1.75%
QC value within limits for Mg 279.077 IEC Recovery = 100.66%					
Mn 257.610†	309812.5	487.02 ug/L	3.374	487.02 ppb	3.374 0.69%
QC value within limits for Mn 257.610 Recovery = 97.40%					
Mo 202.031†	5360.9	485.12 ug/L	1.330	485.12 ppb	1.330 0.27%
QC value within limits for Mo 202.031 Recovery = 97.02%					
Na 589.592 Radial†	30592.4	9308.9 ug/L	29.59	9308.9 ppb	29.59 0.32%
QC value within limits for Na 589.592 Radial Recovery = 93.09%					
Ni 231.604†	15802.8	487.58 ug/L	2.811	487.58 ppb	2.811 0.58%
QC value within limits for Ni 231.604 Recovery = 97.52%					
P 214.914†	4505.0	2350.0 ug/L	8.69	2350.0 ppb	8.69 0.37%
QC value within limits for P 214.914 Recovery = 94.00%					
Pb 220.353†	3076.8	490.19 ug/L	3.412	490.19 ppb	3.412 0.70%
QC value within limits for Pb 220.353 Recovery = 98.04%					
S 181.975 Axial†	788.0	978.01 ug/L	7.995	978.01 ppb	7.995 0.82%
QC value within limits for S 181.975 Axial Recovery = 97.80%					
Sb 206.836†	1226.8	498.43 ug/L	2.289	498.43 ppb	2.289 0.46%
QC value within limits for Sb 206.836 Recovery = 99.69%					
Se 196.026†	821.1	500.51 ug/L	3.268	500.51 ppb	3.268 0.65%
QC value within limits for Se 196.026 Recovery = 100.10%					
Si 251.611†	67799.8	2412.0 ug/L	20.61	2412.0 ppb	20.61 0.85%
QC value within limits for Si 251.611 Recovery = 96.48%					
Sn 189.927†	2132.2	487.87 ug/L	0.678	487.87 ppb	0.678 0.14%
QC value within limits for Sn 189.927 Recovery = 97.57%					
Sr 421.552†	68606.2	488.84 ug/L	0.809	488.84 ppb	0.809 0.17%
QC value within limits for Sr 421.552 Recovery = 97.77%					
Ti 334.940†	243762.8	482.78 ug/L	3.741	482.78 ppb	3.741 0.77%
QC value within limits for Ti 334.940 Recovery = 96.56%					
Tl 190.801†	1074.8	490.47 ug/L	1.462	490.47 ppb	1.462 0.30%
QC value within limits for Tl 190.801 Recovery = 98.09%					
U 409.014†	14484.1	478.62 ug/L	6.510	478.62 ppb	6.510 1.36%
QC value within limits for U 409.014 Recovery = 95.72%					
V 292.402†	62187.9	489.37 ug/L	3.206	489.37 ppb	3.206 0.66%
QC value within limits for V 292.402 Recovery = 97.87%					
Zn 213.857†	45202.4	481.20 ug/L	2.943	481.20 ppb	2.943 0.61%
QC value within limits for Zn 213.857 Recovery = 96.24%					
SiO2†	68261.1	5210.3 ug/L	47.61	5210.3 ppb	47.61 0.91%
QC value within limits for SiO2 Recovery = 97.43%					
All analyte(s) passed QC.					

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/4/2010 18:36:07

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	4755.8	4755.8	100 %		18:37:59
1	Y RADIAL	5024.0	5024.0	99.68 %		18:37:59
1	Al 396.153Radial†	-88.3	-5.7	-5.1891 ug/L	-5.1891 ppb	18:38:19
1	Ca 317.933Radial†	24.3	6.0	10.773 ug/L	10.773 ppb	18:38:19
1	Fe 238.204 Radial†	10.3	3.0	31.158 ug/L	31.158 ppb	18:38:19
1	K 766.490 Radial†	2468.4	157.6	29.754 ug/L	29.754 ppb	18:37:59
1	Mg 279.077 IEC†	0.8	-1.3	-50.354 ug/L	-50.354 ppb	18:38:19
1	Na 589.592 Radial†	-745.1	-6.8	-2.0579 ug/L	-2.0579 ppb	18:37:59
1	Sr 421.552†	12.9	-6.1	-0.0436 ug/L	-0.0436 ppb	18:37:59
1	Sc 361.383	791113.3	791113.3	100.04 %		18:39:16
1	Y 371.029	706020.4	706020.4	99.863 %		18:39:16
1	Ag 328.068†	168.1	-8.4	-0.0320 ug/L	-0.0320 ppb	18:39:16
1	As 188.979†	-34.4	-5.7	-2.4877 ug/L	-2.4877 ppb	18:39:36
1	B 249.677†	-144.4	79.9	1.9818 ug/L	1.9818 ppb	18:39:36
1	Ba 233.527†	1.7	5.8	0.0665 ug/L	0.0665 ppb	18:39:36
1	Be 313.107†	-9566.9	-230.8	-0.0902 ug/L	-0.0902 ppb	18:39:16
1	Cd 226.502†	-170.5	12.2	0.1637 ug/L	0.1637 ppb	18:39:36
1	Co 228.616†	-68.2	-3.8	-0.1133 ug/L	-0.1133 ppb	18:39:36
1	Cr 267.716†	68.3	7.1	0.0960 ug/L	0.0960 ppb	18:39:36
1	Cu 324.752†	7749.8	23.1	0.0892 ug/L	0.0892 ppb	18:39:16
1	Mn 257.610†	431.6	1.0	0.0067 ug/L	0.0067 ppb	18:39:36
1	Mo 202.031†	14.6	2.6	0.2402 ug/L	0.2402 ppb	18:39:36
1	Ni 231.604†	81.3	0.8	0.0244 ug/L	0.0244 ppb	18:39:36
1	P 214.914†	211.3	12.4	6.6747 ug/L	6.6747 ppb	18:39:36
1	Pb 220.353†	-56.9	0.7	0.1013 ug/L	0.1013 ppb	18:39:36
1	S 181.975 Axial†	44.7	3.6	4.4734 ug/L	4.4734 ppb	18:39:36
1	Sb 206.836†	44.9	12.0	4.7283 ug/L	4.7283 ppb	18:39:36
1	Se 196.026†	-22.1	-3.1	-1.7791 ug/L	-1.7791 ppb	18:39:36
1	Si 251.611†	583.3	31.9	1.1349 ug/L	1.1349 ppb	18:39:36
1	Sn 189.927†	18.8	5.7	1.3094 ug/L	1.3094 ppb	18:39:36
1	Ti 334.940†	-1318.8	16.4	0.0399 ug/L	0.0399 ppb	18:39:16
1	Tl 190.801†	-30.8	4.9	2.2417 ug/L	2.2417 ppb	18:39:36
1	U 409.014†	-2497.6	-128.0	-4.2490 ug/L	-4.2490 ppb	18:39:16
1	V 292.402†	-1742.2	-82.2	-0.6490 ug/L	-0.6490 ppb	18:39:16
1	Zn 213.857†	738.0	-59.6	-0.6449 ug/L	-0.6449 ppb	18:39:36
1	SiO2†	555.2	-5.3	-0.4131 ug/L	-0.4131 ppb	18:40:32
2	Sc Radial	4768.0	4768.0	100 %		18:38:24
2	Y RADIAL	5102.7	5102.7	101.2 %		18:38:24
2	Al 396.153Radial†	-94.0	-11.1	-10.164 ug/L	-10.164 ppb	18:38:44
2	Ca 317.933Radial†	25.0	6.7	11.916 ug/L	11.916 ppb	18:38:44
2	Fe 238.204 Radial†	8.3	1.0	10.187 ug/L	10.187 ppb	18:38:44
2	K 766.490 Radial†	2303.0	-13.5	-2.5446 ug/L	-2.5446 ppb	18:38:24
2	Mg 279.077 IEC†	3.8	1.7	67.296 ug/L	67.296 ppb	18:38:44
2	Na 589.592 Radial†	-767.2	-26.9	-8.1794 ug/L	-8.1794 ppb	18:38:24
2	Sr 421.552†	34.0	14.9	0.1061 ug/L	0.1061 ppb	18:38:24
2	Sc 361.383	794486.2	794486.2	100.46 %		18:39:41
2	Y 371.029	708073.0	708073.0	100.15 %		18:39:41
2	Ag 328.068†	129.4	-47.7	-0.2375 ug/L	-0.2375 ppb	18:39:41
2	As 188.979†	-28.6	0.1	0.0597 ug/L	0.0597 ppb	18:40:01
2	B 249.677†	-147.1	77.8	1.9339 ug/L	1.9339 ppb	18:40:01
2	Ba 233.527†	-12.6	-8.6	-0.0989 ug/L	-0.0989 ppb	18:40:01
2	Be 313.107†	-9621.3	-244.3	-0.0954 ug/L	-0.0954 ppb	18:39:41
2	Cd 226.502†	-182.7	0.8	0.0101 ug/L	0.0101 ppb	18:40:01
2	Co 228.616†	-69.1	-4.4	-0.1306 ug/L	-0.1306 ppb	18:40:01
2	Cr 267.716†	89.7	28.1	0.3741 ug/L	0.3741 ppb	18:40:01
2	Cu 324.752†	7885.5	125.3	0.4619 ug/L	0.4619 ppb	18:39:41
2	Mn 257.610†	411.0	-21.3	-0.0353 ug/L	-0.0353 ppb	18:40:01
2	Mo 202.031†	15.0	3.0	0.2679 ug/L	0.2679 ppb	18:40:01
2	Ni 231.604†	71.1	-9.7	-0.3006 ug/L	-0.3006 ppb	18:40:01

2	P 214.914†	217.0	17.1	9.2009 ug/L	9.2009 ppb	18:40:01
2	Pb 220.353†	-70.7	-12.8	-2.0367 ug/L	-2.0367 ppb	18:40:01
2	S 181.975 Axial†	51.7	10.5	12.999 ug/L	12.999 ppb	18:40:01
2	Sb 206.836†	28.8	-4.1	-1.6216 ug/L	-1.6216 ppb	18:40:01
2	Se 196.026†	-16.5	2.6	1.5570 ug/L	1.5570 ppb	18:40:01
2	Si 251.611†	590.8	36.9	1.3120 ug/L	1.3120 ppb	18:40:01
2	Sn 189.927†	13.2	0.1	0.0176 ug/L	0.0176 ppb	18:40:01
2	Ti 334.940†	-1293.1	47.6	0.0898 ug/L	0.0898 ppb	18:39:41
2	Tl 190.801†	-39.1	-3.2	-1.4459 ug/L	-1.4459 ppb	18:40:01
2	U 409.014†	-2342.5	37.0	1.2237 ug/L	1.2237 ppb	18:39:41
2	V 292.402†	-1664.0	3.0	0.0293 ug/L	0.0293 ppb	18:39:41
2	Zn 213.857†	743.0	-57.8	-0.6209 ug/L	-0.6209 ppb	18:40:01
2	SiO2†	583.1	20.1	1.5326 ug/L	1.5326 ppb	18:40:37
3	Sc Radial	4820.9	4820.9	102 %		18:38:49
3	Y RADIAL	5108.4	5108.4	101.4 %		18:38:49
3	Al 396.153Radial†	-92.5	-8.6	-7.8774 ug/L	-7.8774 ppb	18:39:09
3	Ca 317.933Radial†	18.7	0.1	0.2598 ug/L	0.2598 ppb	18:39:09
3	Fe 238.204 Radial†	9.1	1.7	17.952 ug/L	17.952 ppb	18:39:09
3	K 766.490 Radial†	2464.2	120.1	22.682 ug/L	22.682 ppb	18:38:49
3	Mg 279.077 IEC†	3.3	1.1	45.185 ug/L	45.185 ppb	18:39:09
3	Na 589.592 Radial†	-750.6	-2.1	-0.6493 ug/L	-0.6493 ppb	18:38:49
3	Sr 421.552†	23.8	4.5	0.0319 ug/L	0.0319 ppb	18:38:49
3	Sc 361.383	798650.1	798650.1	100.99 %		18:40:07
3	Y 371.029	713547.7	713547.7	100.93 %		18:40:07
3	Ag 328.068†	180.6	2.4	0.0169 ug/L	0.0169 ppb	18:40:07
3	As 188.979†	-23.4	5.5	2.3796 ug/L	2.3796 ppb	18:40:27
3	B 249.677†	-190.3	35.8	0.8859 ug/L	0.8859 ppb	18:40:27
3	Ba 233.527†	-0.4	3.6	0.0415 ug/L	0.0415 ppb	18:40:27
3	Be 313.107†	-9613.6	-186.7	-0.0730 ug/L	-0.0730 ppb	18:40:07
3	Cd 226.502†	-185.5	-1.1	-0.0171 ug/L	-0.0171 ppb	18:40:27
3	Co 228.616†	-54.7	10.2	0.3006 ug/L	0.3006 ppb	18:40:27
3	Cr 267.716†	85.2	23.2	0.3091 ug/L	0.3091 ppb	18:40:27
3	Cu 324.752†	7866.9	66.0	0.2450 ug/L	0.2450 ppb	18:40:07
3	Mn 257.610†	429.4	-5.2	-0.0083 ug/L	-0.0083 ppb	18:40:27
3	Mo 202.031†	5.4	-6.6	-0.5967 ug/L	-0.5967 ppb	18:40:27
3	Ni 231.604†	81.0	-0.2	-0.0077 ug/L	-0.0077 ppb	18:40:27
3	P 214.914†	204.6	3.8	1.9681 ug/L	1.9681 ppb	18:40:27
3	Pb 220.353†	-58.3	-0.2	-0.0411 ug/L	-0.0411 ppb	18:40:27
3	S 181.975 Axial†	48.1	6.6	8.2036 ug/L	8.2036 ppb	18:40:27
3	Sb 206.836†	34.3	1.1	0.4175 ug/L	0.4175 ppb	18:40:27
3	Se 196.026†	-16.3	2.8	1.6888 ug/L	1.6888 ppb	18:40:27
3	Si 251.611†	579.5	22.7	0.8165 ug/L	0.8165 ppb	18:40:27
3	Sn 189.927†	12.2	-1.0	-0.2331 ug/L	-0.2331 ppb	18:40:27
3	Ti 334.940†	-1326.8	21.0	0.0383 ug/L	0.0383 ppb	18:40:07
3	Tl 190.801†	-42.1	-6.0	-2.7142 ug/L	-2.7142 ppb	18:40:27
3	U 409.014†	-2429.0	-36.5	-1.2131 ug/L	-1.2131 ppb	18:40:07
3	V 292.402†	-1725.3	-49.0	-0.3934 ug/L	-0.3934 ppb	18:40:07
3	Zn 213.857†	738.8	-65.7	-0.7088 ug/L	-0.7088 ppb	18:40:27
3	SiO2†	588.4	22.3	1.7199 ug/L	1.7199 ppb	18:40:42

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	794749.9	100.50 %		0.477			0.48%
Sc Radial	4781.6	101 %		0.7			0.72%
Y 371.029	709213.7	100.31 %		0.550			0.55%
Y RADIAL	5078.4	100.8 %		0.94			0.93%
Ag 328.068†	-17.9	-0.0842 ug/L		0.13502	-0.0842 ppb	0.13502	160.34%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-8.5	-7.7435 ug/L		2.49019	-7.7435 ppb	2.49019	32.16%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-0.0	-0.0161 ug/L		2.43453	-0.0161 ppb	2.43453	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	64.5	1.6005 ug/L		0.61934	1.6005 ppb	0.61934	38.70%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	0.3	0.0030 ug/L		0.08917	0.0030 ppb	0.08917	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-220.6	-0.0862 ug/L		0.01173	-0.0862 ppb	0.01173	13.61%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.3	7.6496 ug/L		6.42528	7.6496 ppb	6.42528	84.00%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	4.0	0.0522 ug/L	0.09748	0.0522 ppb	0.09748	186.68%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.7	0.0189 ug/L	0.24414	0.0189 ppb	0.24414	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	19.4	0.2597 ug/L	0.14549	0.2597 ppb	0.14549	56.02%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	71.4	0.2653 ug/L	0.18720	0.2653 ppb	0.18720	70.55%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.9	19.766 ug/L	10.6024	19.766 ppb	10.6024	53.64%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	88.1	16.630 ug/L	16.9782	16.630 ppb	16.9782	102.09%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.5	20.709 ug/L	62.5273	20.709 ppb	62.5273	301.93%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-8.5	-0.0123 ug/L	0.02129	-0.0123 ppb	0.02129	173.22%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-0.3	-0.0295 ug/L	0.49141	-0.0295 ppb	0.49141	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-11.9	-3.6289 ug/L	4.00332	-3.6289 ppb	4.00332	110.32%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-3.1	-0.0947 ug/L	0.17908	-0.0947 ppb	0.17908	189.19%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	11.1	5.9479 ug/L	3.67075	5.9479 ppb	3.67075	61.71%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-4.1	-0.6588 ug/L	1.19540	-0.6588 ppb	1.19540	181.44%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	6.9	8.5588 ug/L	4.27401	8.5588 ppb	4.27401	49.94%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.0	1.1747 ug/L	3.24193	1.1747 ppb	3.24193	275.97%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.8	0.4889 ug/L	1.96526	0.4889 ppb	1.96526	401.99%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	30.5	1.0878 ug/L	0.25112	1.0878 ppb	0.25112	23.08%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	1.6	0.3647 ug/L	0.82773	0.3647 ppb	0.82773	226.99%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	4.4	0.0315 ug/L	0.07485	0.0315 ppb	0.07485	237.80%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	28.3	0.0560 ug/L	0.02928	0.0560 ppb	0.02928	52.29%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-1.4	-0.6395 ug/L	2.57448	-0.6395 ppb	2.57448	402.60%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-42.5	-1.4128 ug/L	2.74185	-1.4128 ppb	2.74185	194.07%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-42.7	-0.3377 ug/L	0.34255	-0.3377 ppb	0.34255	101.43%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-61.0	-0.6582 ug/L	0.04542	-0.6582 ppb	0.04542	6.90%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	12.4	0.9465 ug/L	1.18114	0.9465 ppb	1.18114	124.79%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 12
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/4/2010 19:43:53
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4457.4	4457.4	93.9	%		19:45:45
1	Y RADIAL	4720.1	4720.1	93.65	%		19:45:45
1	Al 396.153Radial†	5390.1	5823.9	5308.9	ug/L	5308.9 ppb	19:45:45
1	Ca 317.933Radial†	2840.2	3007.1	5381.3	ug/L	5381.3 ppb	19:46:05
1	Fe 238.204 Radial†	500.8	526.2	5476.2	ug/L	5476.2 ppb	19:46:05
1	K 766.490 Radial†	29212.2	28809.5	5433.7	ug/L	5433.7 ppb	19:45:45
1	Mg 279.077 IEC†	133.5	140.1	5520.8	ug/L	5520.8 ppb	19:46:05
1	Na 589.592 Radial†	30084.1	32782.0	9975.2	ug/L	9975.2 ppb	19:45:45
1	Sr 421.552†	70117.5	74668.8	532.04	ug/L	532.04 ppb	19:45:45
1	Sc 361.383	804239.0	804239.0	101.70	%		19:47:02
1	Y 371.029	709259.1	709259.1	100.32	%		19:47:02
1	Ag 328.068†	100267.4	98416.9	497.55	ug/L	497.55 ppb	19:47:07
1	As 188.979†	1135.6	1145.2	502.19	ug/L	502.19 ppb	19:47:27
1	B 249.677†	19750.7	19645.2	486.20	ug/L	486.20 ppb	19:47:07
1	Ba 233.527†	43663.6	42938.7	499.19	ug/L	499.19 ppb	19:47:07
1	Be 313.107†	1280779.3	1268729.0	497.50	ug/L	497.50 ppb	19:47:02
1	Cd 226.502†	36650.0	36220.8	497.78	ug/L	497.78 ppb	19:47:07
1	Co 228.616†	17325.7	17100.8	508.83	ug/L	508.83 ppb	19:47:07
1	Cr 267.716†	37827.7	37135.0	495.78	ug/L	495.78 ppb	19:47:07
1	Cu 324.752†	144445.8	134310.5	495.41	ug/L	495.41 ppb	19:47:07
1	Mn 257.610†	322353.1	316541.0	497.62	ug/L	497.62 ppb	19:47:07
1	Mo 202.031†	5546.6	5442.0	492.50	ug/L	492.50 ppb	19:47:27
1	Ni 231.604†	16485.4	16129.7	497.66	ug/L	497.66 ppb	19:47:07
1	P 214.914†	4858.1	4578.2	2386.7	ug/L	2386.7 ppb	19:47:27
1	Pb 220.353†	3119.6	3125.0	497.93	ug/L	497.93 ppb	19:47:27
1	S 181.975 Axial†	850.7	795.4	987.11	ug/L	987.11 ppb	19:47:27
1	Sb 206.836†	1308.1	1253.4	509.05	ug/L	509.05 ppb	19:47:27
1	Se 196.026†	833.0	838.1	511.81	ug/L	511.81 ppb	19:47:27
1	Si 251.611†	71338.8	69596.7	2476.0	ug/L	2476.0 ppb	19:47:07
1	Sn 189.927†	2199.0	2149.2	491.82	ug/L	491.82 ppb	19:47:27
1	Ti 334.940†	252765.5	249880.3	494.92	ug/L	494.92 ppb	19:47:07
1	Tl 190.801†	1075.5	1093.2	498.94	ug/L	498.94 ppb	19:47:27
1	U 409.014†	12714.4	14870.7	491.35	ug/L	491.35 ppb	19:47:07
1	V 292.402†	62904.1	63513.3	499.71	ug/L	499.71 ppb	19:47:07
1	Zn 213.857†	47898.8	46301.8	492.86	ug/L	492.86 ppb	19:47:07
1	SiO2†	70667.5	68927.3	5261.1	ug/L	5261.1 ppb	19:48:34
2	Sc Radial	4745.0	4745.0	99.9	%		19:46:10
2	Y RADIAL	4992.2	4992.2	99.05	%		19:46:10
2	Al 396.153Radial†	5367.9	5453.6	4969.8	ug/L	4969.8 ppb	19:46:10
2	Ca 317.933Radial†	2813.7	2797.2	5005.7	ug/L	5005.7 ppb	19:46:30
2	Fe 238.204 Radial†	494.0	487.0	5069.3	ug/L	5069.3 ppb	19:46:30
2	K 766.490 Radial†	29371.2	27082.2	5107.9	ug/L	5107.9 ppb	19:46:10
2	Mg 279.077 IEC†	131.6	129.6	5107.2	ug/L	5107.2 ppb	19:46:30
2	Na 589.592 Radial†	30132.8	30888.0	9398.9	ug/L	9398.9 ppb	19:46:10
2	Sr 421.552†	70243.9	70267.3	500.68	ug/L	500.68 ppb	19:46:10
2	Sc 361.383	809629.4	809629.4	102.38	%		19:47:33
2	Y 371.029	714095.9	714095.9	101.01	%		19:47:33
2	Ag 328.068†	99653.8	97161.2	491.11	ug/L	491.11 ppb	19:47:38
2	As 188.979†	1138.4	1140.5	500.01	ug/L	500.01 ppb	19:47:58
2	B 249.677†	19704.2	19470.5	481.94	ug/L	481.94 ppb	19:47:38
2	Ba 233.527†	43539.8	42531.9	494.46	ug/L	494.46 ppb	19:47:38
2	Be 313.107†	1288860.9	1268238.0	497.29	ug/L	497.29 ppb	19:47:33
2	Cd 226.502†	36701.2	36030.8	495.20	ug/L	495.20 ppb	19:47:38
2	Co 228.616†	17290.1	16952.6	504.44	ug/L	504.44 ppb	19:47:38
2	Cr 267.716†	37839.1	36898.5	492.61	ug/L	492.61 ppb	19:47:38
2	Cu 324.752†	143249.3	132196.2	487.59	ug/L	487.59 ppb	19:47:38
2	Mn 257.610†	321838.4	313927.8	493.49	ug/L	493.49 ppb	19:47:38
2	Mo 202.031†	5594.6	5452.5	493.41	ug/L	493.41 ppb	19:47:58
2	Ni 231.604†	16557.8	16092.5	496.52	ug/L	496.52 ppb	19:47:38

2	P 214.914†	4858.4	4546.7	2371.4 ug/L	2371.4 ppb	19:47:58
2	Pb 220.353†	3122.5	3107.4	495.09 ug/L	495.09 ppb	19:47:58
2	S 181.975 Axial†	862.7	801.6	994.80 ug/L	994.80 ppb	19:47:58
2	Sb 206.836†	1306.7	1243.5	505.17 ug/L	505.17 ppb	19:47:58
2	Se 196.026†	831.5	831.1	506.75 ug/L	506.75 ppb	19:47:58
2	Si 251.611†	71080.6	68877.4	2450.3 ug/L	2450.3 ppb	19:47:38
2	Sn 189.927†	2206.9	2142.6	490.25 ug/L	490.25 ppb	19:47:58
2	Ti 334.940†	251681.3	247166.5	489.53 ug/L	489.53 ppb	19:47:38
2	Tl 190.801†	1070.6	1081.4	493.52 ug/L	493.52 ppb	19:47:58
2	U 409.014†	12689.6	14763.3	487.85 ug/L	487.85 ppb	19:47:38
2	V 292.402†	62979.8	63175.3	497.15 ug/L	497.15 ppb	19:47:38
2	Zn 213.857†	47766.2	45858.7	488.18 ug/L	488.18 ppb	19:47:38
2	SiO2†	72013.2	69779.2	5326.3 ug/L	5326.3 ppb	19:48:39
3	Sc Radial	4742.6	4742.6	99.9 %		19:46:35
3	Y RADIAL	4982.3	4982.3	98.85 %		19:46:35
3	Al 396.153Radial†	5350.5	5439.0	4956.3 ug/L	4956.3 ppb	19:46:35
3	Ca 317.933Radial†	2837.3	2822.2	5050.4 ug/L	5050.4 ppb	19:46:55
3	Fe 238.204 Radial†	496.9	490.2	5102.8 ug/L	5102.8 ppb	19:46:55
3	K 766.490 Radial†	29384.2	27110.5	5113.2 ug/L	5113.2 ppb	19:46:35
3	Mg 279.077 IEC†	132.0	130.0	5124.1 ug/L	5124.1 ppb	19:46:55
3	Na 589.592 Radial†	30075.6	30846.5	9386.2 ug/L	9386.2 ppb	19:46:35
3	Sr 421.552†	70109.7	70169.5	499.98 ug/L	499.98 ppb	19:46:35
3	Sc 361.383	806083.6	806083.6	101.93 %		19:48:03
3	Y 371.029	710271.3	710271.3	100.46 %		19:48:03
3	Ag 328.068†	100231.9	98156.6	496.14 ug/L	496.14 ppb	19:48:09
3	As 188.979†	1138.7	1145.8	502.35 ug/L	502.35 ppb	19:48:29
3	B 249.677†	19839.3	19687.7	487.31 ug/L	487.31 ppb	19:48:09
3	Ba 233.527†	43923.1	43095.0	501.00 ug/L	501.00 ppb	19:48:09
3	Be 313.107†	1282795.2	1267824.8	497.14 ug/L	497.14 ppb	19:48:03
3	Cd 226.502†	36959.4	36441.8	500.85 ug/L	500.85 ppb	19:48:09
3	Co 228.616†	17468.6	17202.0	511.85 ug/L	511.85 ppb	19:48:09
3	Cr 267.716†	38118.7	37335.3	498.45 ug/L	498.45 ppb	19:48:09
3	Cu 324.752†	144399.7	133940.3	494.03 ug/L	494.03 ppb	19:48:09
3	Mn 257.610†	324141.4	317570.0	499.22 ug/L	499.22 ppb	19:48:09
3	Mo 202.031†	5585.8	5468.0	494.81 ug/L	494.81 ppb	19:48:29
3	Ni 231.604†	16660.6	16264.5	501.82 ug/L	501.82 ppb	19:48:09
3	P 214.914†	4874.8	4583.6	2390.1 ug/L	2390.1 ppb	19:48:29
3	Pb 220.353†	3139.0	3137.0	499.79 ug/L	499.79 ppb	19:48:29
3	S 181.975 Axial†	870.0	812.4	1008.3 ug/L	1008.3 ppb	19:48:29
3	Sb 206.836†	1304.8	1247.2	506.66 ug/L	506.66 ppb	19:48:29
3	Se 196.026†	828.9	832.2	507.45 ug/L	507.45 ppb	19:48:29
3	Si 251.611†	71708.9	69799.2	2483.2 ug/L	2483.2 ppb	19:48:09
3	Sn 189.927†	2200.4	2145.7	490.97 ug/L	490.97 ppb	19:48:29
3	Ti 334.940†	253576.1	250106.8	495.35 ug/L	495.35 ppb	19:48:09
3	Tl 190.801†	1082.7	1097.9	501.03 ug/L	501.03 ppb	19:48:29
3	U 409.014†	12580.9	14711.2	486.10 ug/L	486.10 ppb	19:48:09
3	V 292.402†	63360.5	63819.5	502.15 ug/L	502.15 ppb	19:48:09
3	Zn 213.857†	48003.4	46296.6	492.83 ug/L	492.83 ppb	19:48:09
3	SiO2†	71107.5	69200.0	5281.9 ug/L	5281.9 ppb	19:48:44

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	806650.6	102.00 %	0.346			0.34%
Sc Radial	4648.3	97.9 %	3.48			3.56%
Y 371.029	711208.7	100.60 %	0.361			0.36%
Y RADIAL	4898.2	97.18 %	3.062			3.15%
Ag 328.068†	97911.6	494.94 ug/L	3.384	494.94 ppb	3.384	0.68%
QC value within limits for Ag 328.068 Recovery = 98.99%						
Al 396.153Radial†	5572.2	5078.3 ug/L	199.80	5078.3 ppb	199.80	3.93%
QC value within limits for Al 396.153Radial Recovery = 101.57%						
As 188.979†	1143.8	501.52 ug/L	1.311	501.52 ppb	1.311	0.26%
QC value within limits for As 188.979 Recovery = 100.30%						
B 249.677†	19601.1	485.15 ug/L	2.838	485.15 ppb	2.838	0.58%
QC value within limits for B 249.677 Recovery = 97.03%						
Ba 233.527†	42855.2	498.22 ug/L	3.379	498.22 ppb	3.379	0.68%
QC value within limits for Ba 233.527 Recovery = 99.64%						
Be 313.107†	1268263.9	497.31 ug/L	0.177	497.31 ppb	0.177	0.04%
QC value within limits for Be 313.107 Recovery = 99.46%						
Ca 317.933Radial†	2875.5	5145.8 ug/L	205.17	5145.8 ppb	205.17	3.99%

QC value within limits for Ca 317.933 Radial Recovery = 102.92%

Cd 226.502†	36231.1	497.94 ug/L	2.829	497.94 ppb	2.829	0.57%
QC value within limits for Cd 226.502 Recovery = 99.59%						
Co 228.616†	17085.1	508.38 ug/L	3.728	508.38 ppb	3.728	0.73%
QC value within limits for Co 228.616 Recovery = 101.68%						
Cr 267.716†	37122.9	495.61 ug/L	2.920	495.61 ppb	2.920	0.59%
QC value within limits for Cr 267.716 Recovery = 99.12%						
Cu 324.752†	133482.3	492.34 ug/L	4.172	492.34 ppb	4.172	0.85%
QC value within limits for Cu 324.752 Recovery = 98.47%						
Fe 238.204 Radial†	501.1	5216.1 ug/L	225.85	5216.1 ppb	225.85	4.33%
QC value within limits for Fe 238.204 Radial Recovery = 104.32%						
K 766.490 Radial†	27667.4	5218.2 ug/L	186.59	5218.2 ppb	186.59	3.58%
QC value within limits for K 766.490 Radial Recovery = 104.36%						
Mg 279.077 IEC†	133.3	5250.7 ug/L	234.06	5250.7 ppb	234.06	4.46%
QC value within limits for Mg 279.077 IEC Recovery = 105.01%						
Mn 257.610†	316012.9	496.78 ug/L	2.954	496.78 ppb	2.954	0.59%
QC value within limits for Mn 257.610 Recovery = 99.36%						
Mo 202.031†	5454.2	493.57 ug/L	1.165	493.57 ppb	1.165	0.24%
QC value within limits for Mo 202.031 Recovery = 98.71%						
Na 589.592 Radial†	31505.5	9586.7 ug/L	336.44	9586.7 ppb	336.44	3.51%
QC value within limits for Na 589.592 Radial Recovery = 95.87%						
Ni 231.604†	16162.2	498.67 ug/L	2.793	498.67 ppb	2.793	0.56%
QC value within limits for Ni 231.604 Recovery = 99.73%						
P 214.914†	4569.5	2382.7 ug/L	9.97	2382.7 ppb	9.97	0.42%
QC value within limits for P 214.914 Recovery = 95.31%						
Pb 220.353†	3123.2	497.60 ug/L	2.365	497.60 ppb	2.365	0.48%
QC value within limits for Pb 220.353 Recovery = 99.52%						
S 181.975 Axial†	803.2	996.73 ug/L	10.722	996.73 ppb	10.722	1.08%
QC value within limits for S 181.975 Axial Recovery = 99.67%						
Sb 206.836†	1248.0	506.96 ug/L	1.958	506.96 ppb	1.958	0.39%
QC value within limits for Sb 206.836 Recovery = 101.39%						
Se 196.026†	833.8	508.67 ug/L	2.743	508.67 ppb	2.743	0.54%
QC value within limits for Se 196.026 Recovery = 101.73%						
Si 251.611†	69424.4	2469.8 ug/L	17.27	2469.8 ppb	17.27	0.70%
QC value within limits for Si 251.611 Recovery = 98.79%						
Sn 189.927†	2145.8	491.01 ug/L	0.784	491.01 ppb	0.784	0.16%
QC value within limits for Sn 189.927 Recovery = 98.20%						
Sr 421.552†	71701.9	510.90 ug/L	18.311	510.90 ppb	18.311	3.58%
QC value within limits for Sr 421.552 Recovery = 102.18%						
Ti 334.940†	249051.2	493.27 ug/L	3.246	493.27 ppb	3.246	0.66%
QC value within limits for Ti 334.940 Recovery = 98.65%						
Tl 190.801†	1090.8	497.83 ug/L	3.875	497.83 ppb	3.875	0.78%
QC value within limits for Tl 190.801 Recovery = 99.57%						
U 409.014†	14781.7	488.43 ug/L	2.676	488.43 ppb	2.676	0.55%
QC value within limits for U 409.014 Recovery = 97.69%						
V 292.402†	63502.7	499.67 ug/L	2.503	499.67 ppb	2.503	0.50%
QC value within limits for V 292.402 Recovery = 99.93%						
Zn 213.857†	46152.4	491.29 ug/L	2.696	491.29 ppb	2.696	0.55%
QC value within limits for Zn 213.857 Recovery = 98.26%						
SiO2†	69302.2	5289.8 ug/L	33.28	5289.8 ppb	33.28	0.63%
QC value within limits for SiO2 Recovery = 98.92%						

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/4/2010 19:50:55

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	4801.3	4801.3	101 %		19:52:46
1	Y RADIAL	5114.1	5114.1	101.5 %		19:52:46
1	Al 396.153Radial†	-90.0	-6.6	-6.0204 ug/L	-6.0204 ppb	19:53:06
1	Ca 317.933Radial†	27.4	8.8	15.771 ug/L	15.771 ppb	19:53:06
1	Fe 238.204 Radial†	5.8	-1.6	-16.096 ug/L	-16.096 ppb	19:53:06
1	K 766.490 Radial†	2552.1	217.0	40.973 ug/L	40.973 ppb	19:52:46
1	Mg 279.077 IEC†	1.3	-0.8	-32.315 ug/L	-32.315 ppb	19:53:06
1	Na 589.592 Radial†	-773.3	-27.6	-8.4052 ug/L	-8.4052 ppb	19:52:46
1	Sr 421.552†	53.0	33.5	0.2383 ug/L	0.2383 ppb	19:52:46
1	Sc 361.383	790407.7	790407.7	99.949 %		19:54:03
1	Y 371.029	706608.7	706608.7	99.946 %		19:54:03
1	Ag 328.068†	170.6	-5.7	-0.0346 ug/L	-0.0346 ppb	19:54:03
1	As 188.979†	-38.5	-9.9	-4.3074 ug/L	-4.3074 ppb	19:54:23
1	B 249.677†	-218.4	5.7	0.1442 ug/L	0.1442 ppb	19:54:23
1	Ba 233.527†	3.4	7.5	0.0850 ug/L	0.0850 ppb	19:54:23
1	Be 313.107†	-9535.2	-207.6	-0.0812 ug/L	-0.0812 ppb	19:54:03
1	Cd 226.502†	-181.7	0.9	0.0139 ug/L	0.0139 ppb	19:54:23
1	Co 228.616†	-58.6	5.7	0.1703 ug/L	0.1703 ppb	19:54:23
1	Cr 267.716†	67.1	5.9	0.0779 ug/L	0.0779 ppb	19:54:23
1	Cu 324.752†	7974.9	255.2	0.9413 ug/L	0.9413 ppb	19:54:03
1	Mn 257.610†	453.3	23.1	0.0360 ug/L	0.0360 ppb	19:54:23
1	Mo 202.031†	15.3	3.3	0.3000 ug/L	0.3000 ppb	19:54:23
1	Ni 231.604†	112.3	31.8	0.9828 ug/L	0.9828 ppb	19:54:23
1	P 214.914†	189.1	-9.6	-5.3813 ug/L	-5.3813 ppb	19:54:23
1	Pb 220.353†	-76.0	-18.5	-2.9331 ug/L	-2.9331 ppb	19:54:23
1	S 181.975 Axial†	38.1	-2.9	-3.6336 ug/L	-3.6336 ppb	19:54:23
1	Sb 206.836†	37.3	4.5	1.7520 ug/L	1.7520 ppb	19:54:23
1	Se 196.026†	-25.6	-6.7	-4.0091 ug/L	-4.0091 ppb	19:54:23
1	Si 251.611†	729.7	178.9	6.3782 ug/L	6.3782 ppb	19:54:23
1	Sn 189.927†	12.2	-0.8	-0.1832 ug/L	-0.1832 ppb	19:54:23
1	Ti 334.940†	-1328.0	6.1	0.0173 ug/L	0.0173 ppb	19:54:03
1	Tl 190.801†	-40.9	-5.2	-2.3568 ug/L	-2.3568 ppb	19:54:23
1	U 409.014†	-2407.5	-40.1	-1.3286 ug/L	-1.3286 ppb	19:54:03
1	V 292.402†	-1711.3	-52.9	-0.4071 ug/L	-0.4071 ppb	19:54:03
1	Zn 213.857†	767.1	-29.8	-0.3253 ug/L	-0.3253 ppb	19:54:23
1	SiO2†	732.6	172.7	13.206 ug/L	13.206 ppb	19:55:19
2	Sc Radial	4839.6	4839.6	102 %		19:53:11
2	Y RADIAL	5115.3	5115.3	101.5 %		19:53:11
2	Al 396.153Radial†	-73.3	10.5	9.6475 ug/L	9.6475 ppb	19:53:31
2	Ca 317.933Radial†	21.1	2.4	4.3490 ug/L	4.3490 ppb	19:53:31
2	Fe 238.204 Radial†	6.8	-0.6	-6.3349 ug/L	-6.3349 ppb	19:53:31
2	K 766.490 Radial†	2555.4	200.2	37.807 ug/L	37.807 ppb	19:53:11
2	Mg 279.077 IEC†	0.1	-2.0	-77.708 ug/L	-77.708 ppb	19:53:31
2	Na 589.592 Radial†	-780.1	-28.3	-8.6030 ug/L	-8.6030 ppb	19:53:11
2	Sr 421.552†	43.4	23.7	0.1686 ug/L	0.1686 ppb	19:53:11
2	Sc 361.383	788301.0	788301.0	99.682 %		19:54:28
2	Y 371.029	704239.0	704239.0	99.611 %		19:54:28
2	Ag 328.068†	232.3	56.6	0.2783 ug/L	0.2783 ppb	19:54:28
2	As 188.979†	-41.6	-13.2	-5.7214 ug/L	-5.7214 ppb	19:54:49
2	B 249.677†	-197.7	25.9	0.6454 ug/L	0.6454 ppb	19:54:49
2	Ba 233.527†	4.1	8.1	0.0941 ug/L	0.0941 ppb	19:54:49
2	Be 313.107†	-9571.5	-269.5	-0.1055 ug/L	-0.1055 ppb	19:54:28
2	Cd 226.502†	-185.6	-3.6	-0.0476 ug/L	-0.0476 ppb	19:54:49
2	Co 228.616†	-57.5	6.7	0.1989 ug/L	0.1989 ppb	19:54:49
2	Cr 267.716†	45.5	-15.6	-0.2104 ug/L	-0.2104 ppb	19:54:49
2	Cu 324.752†	7953.7	255.3	0.9384 ug/L	0.9384 ppb	19:54:28
2	Mn 257.610†	473.1	44.2	0.0719 ug/L	0.0719 ppb	19:54:49
2	Mo 202.031†	12.5	0.5	0.0476 ug/L	0.0476 ppb	19:54:49
2	Ni 231.604†	78.1	-2.2	-0.0665 ug/L	-0.0665 ppb	19:54:49

2	P 214.914†	209.8	11.7	6.1628 ug/L	6.1628 ppb	19:54:49
2	Pb 220.353†	-47.2	10.1	1.6091 ug/L	1.6091 ppb	19:54:49
2	S 181.975 Axial†	43.0	2.1	2.5911 ug/L	2.5911 ppb	19:54:49
2	Sb 206.836†	33.5	0.8	0.3119 ug/L	0.3119 ppb	19:54:49
2	Se 196.026†	-19.3	-0.4	-0.2230 ug/L	-0.2230 ppb	19:54:49
2	Si 251.611†	736.5	187.7	6.6947 ug/L	6.6947 ppb	19:54:49
2	Sn 189.927†	15.9	2.9	0.6572 ug/L	0.6572 ppb	19:54:49
2	Ti 334.940†	-1350.6	-20.1	-0.0350 ug/L	-0.0350 ppb	19:54:28
2	Tl 190.801†	-36.8	-1.2	-0.5536 ug/L	-0.5536 ppb	19:54:49
2	U 409.014†	-2209.3	152.3	5.0514 ug/L	5.0514 ppb	19:54:28
2	V 292.402†	-1653.4	0.7	0.0151 ug/L	0.0151 ppb	19:54:28
2	Zn 213.857†	757.9	-37.0	-0.3972 ug/L	-0.3972 ppb	19:54:49
2	SiO2†	701.6	143.5	10.983 ug/L	10.983 ppb	19:55:24
3	Sc Radial	4853.5	4853.5	102 %		19:53:36
3	Y RADIAL	5129.8	5129.8	101.8 %		19:53:36
3	Al 396.153Radial†	-82.5	1.8	1.6015 ug/L	1.6015 ppb	19:53:56
3	Ca 317.933Radial†	20.5	1.7	3.1294 ug/L	3.1294 ppb	19:53:56
3	Fe 238.204 Radial†	8.5	1.0	10.436 ug/L	10.436 ppb	19:53:56
3	K 766.490 Radial†	2604.2	240.8	45.470 ug/L	45.470 ppb	19:53:36
3	Mg 279.077 IEC†	1.8	-0.4	-14.995 ug/L	-14.995 ppb	19:53:56
3	Na 589.592 Radial†	-777.0	-23.0	-7.0023 ug/L	-7.0023 ppb	19:53:36
3	Sr 421.552†	18.1	-1.3	-0.0090 ug/L	-0.0090 ppb	19:53:36
3	Sc 361.383	801602.0	801602.0	101.36 %		19:54:54
3	Y 371.029	715201.6	715201.6	101.16 %		19:54:54
3	Ag 328.068†	131.6	-46.6	-0.2259 ug/L	-0.2259 ppb	19:54:54
3	As 188.979†	-35.4	-6.3	-2.7285 ug/L	-2.7285 ppb	19:55:14
3	B 249.677†	-214.4	12.8	0.3143 ug/L	0.3143 ppb	19:55:14
3	Ba 233.527†	-4.0	0.1	0.0018 ug/L	0.0018 ppb	19:55:14
3	Be 313.107†	-9660.4	-197.8	-0.0770 ug/L	-0.0770 ppb	19:54:54
3	Cd 226.502†	-184.0	1.1	0.0134 ug/L	0.0134 ppb	19:55:14
3	Co 228.616†	-48.5	16.5	0.4907 ug/L	0.4907 ppb	19:55:14
3	Cr 267.716†	66.0	3.9	0.0543 ug/L	0.0543 ppb	19:55:14
3	Cu 324.752†	8039.7	207.8	0.7697 ug/L	0.7697 ppb	19:54:54
3	Mn 257.610†	472.6	35.8	0.0579 ug/L	0.0579 ppb	19:55:14
3	Mo 202.031†	13.4	1.2	0.1111 ug/L	0.1111 ppb	19:55:14
3	Ni 231.604†	96.2	14.5	0.4460 ug/L	0.4460 ppb	19:55:14
3	P 214.914†	207.0	5.4	2.7556 ug/L	2.7556 ppb	19:55:14
3	Pb 220.353†	-46.7	11.4	1.8111 ug/L	1.8111 ppb	19:55:14
3	S 181.975 Axial†	43.5	1.9	2.3773 ug/L	2.3773 ppb	19:55:14
3	Sb 206.836†	38.9	5.5	2.1899 ug/L	2.1899 ppb	19:55:14
3	Se 196.026†	-23.5	-4.2	-2.4611 ug/L	-2.4611 ppb	19:55:14
3	Si 251.611†	727.0	166.1	5.9225 ug/L	5.9225 ppb	19:55:14
3	Sn 189.927†	16.8	3.5	0.8009 ug/L	0.8009 ppb	19:55:14
3	Ti 334.940†	-1264.2	87.6	0.1774 ug/L	0.1774 ppb	19:54:54
3	Tl 190.801†	-24.7	11.3	5.1310 ug/L	5.1310 ppb	19:55:14
3	U 409.014†	-2558.0	-155.0	-5.1394 ug/L	-5.1394 ppb	19:54:54
3	V 292.402†	-1652.7	28.8	0.2135 ug/L	0.2135 ppb	19:54:54
3	Zn 213.857†	751.0	-56.4	-0.6110 ug/L	-0.6110 ppb	19:55:14
3	SiO2†	754.2	183.7	14.052 ug/L	14.052 ppb	19:55:29

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793436.9	100.33 %		0.904			0.90%
Sc Radial	4831.5	102 %		0.6			0.56%
Y 371.029	708683.1	100.24 %		0.816			0.81%
Y RADIAL	5119.7	101.6 %		0.17			0.17%
Ag 328.068†	1.4	0.0060 ug/L		0.25453	0.0060 ppb	0.25453	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	1.9	1.7429 ug/L		7.83488	1.7429 ppb	7.83488	449.53%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-9.8	-4.2524 ug/L		1.49720	-4.2524 ppb	1.49720	35.21%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	14.8	0.3680 ug/L		0.25491	0.3680 ppb	0.25491	69.28%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	5.2	0.0603 ug/L		0.05085	0.0603 ppb	0.05085	84.29%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-225.0	-0.0879 ug/L		0.01540	-0.0879 ppb	0.01540	17.52%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.3	7.7497 ug/L		6.97320	7.7497 ppb	6.97320	89.98%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-0.5	-0.0068 ug/L	0.03533	-0.0068 ppb	0.03533 522.73%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	9.6	0.2866 ug/L	0.17732	0.2866 ppb	0.17732 61.86%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-2.0	-0.0261 ug/L	0.16012	-0.0261 ppb	0.16012 614.17%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	239.4	0.8832 ug/L	0.09828	0.8832 ppb	0.09828 11.13%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-0.4	-3.9985 ug/L	13.41951	-3.9985 ppb	13.41951 335.62%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	219.3	41.417 ug/L	3.8508	41.417 ppb	3.8508 9.30%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-1.1	-41.673 ug/L	32.3871	-41.673 ppb	32.3871 77.72%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	34.4	0.0553 ug/L	0.01809	0.0553 ppb	0.01809 32.72%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	1.7	0.1529 ug/L	0.13130	0.1529 ppb	0.13130 85.88%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-26.3	-8.0035 ug/L	0.87272	-8.0035 ppb	0.87272 10.90%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	14.7	0.4541 ug/L	0.52469	0.4541 ppb	0.52469 115.55%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	2.5	1.1790 ug/L	5.93136	1.1790 ppb	5.93136 503.07%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	1.0	0.1624 ug/L	2.68266	0.1624 ppb	2.68266 >999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	0.4	0.4449 ug/L	3.53372	0.4449 ppb	3.53372 794.24%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	3.6	1.4179 ug/L	0.98255	1.4179 ppb	0.98255 69.29%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-3.7	-2.2311 ug/L	1.90348	-2.2311 ppb	1.90348 85.32%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	177.6	6.3318 ug/L	0.38819	6.3318 ppb	0.38819 6.13%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	1.9	0.4250 ug/L	0.53157	0.4250 ppb	0.53157 125.08%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	18.6	0.1326 ug/L	0.12748	0.1326 ppb	0.12748 96.12%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	24.5	0.0532 ug/L	0.11069	0.0532 ppb	0.11069 207.90%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	1.6	0.7402 ug/L	3.90799	0.7402 ppb	3.90799 527.96%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-14.3	-0.4722 ug/L	5.14911	-0.4722 ppb	5.14911 >999.9%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-7.8	-0.0595 ug/L	0.31694	-0.0595 ppb	0.31694 532.93%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-41.0	-0.4445 ug/L	0.14861	-0.4445 ppb	0.14861 33.43%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	166.6	12.747 ug/L	1.5850	12.747 ppb	1.5850 12.43%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: 1202059110|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 47

Date Collected: 3/4/2010 19:57:39

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202059110|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4819.2	4819.2	102 %		19:59:32
1	Y RADIAL	5119.8	5119.8	101.6 %		19:59:32
1	Al 396.153Radial†	-76.4	7.2	6.5266 ug/L	6.5266 ppb	19:59:52
1	Ca 317.933Radial†	24.8	6.2	11.014 ug/L	11.014 ppb	19:59:52
1	Fe 238.204 Radial†	12.5	5.0	52.310 ug/L	52.310 ppb	19:59:52
1	K 766.490 Radial†	2529.4	185.2	34.968 ug/L	34.968 ppb	19:59:32
1	Mg 279.077 IEC†	5.4	3.2	124.58 ug/L	124.58 ppb	19:59:52
1	Na 589.592 Radial†	-741.9	6.1	1.8642 ug/L	1.8642 ppb	19:59:32
1	Sr 421.552†	9.2	-9.8	-0.0702 ug/L	-0.0702 ppb	19:59:32
1	Sc 361.383	798200.5	798200.5	100.93 %		20:00:49
1	Y 371.029	713647.8	713647.8	100.94 %		20:00:49
1	Ag 328.068†	228.5	49.9	0.2652 ug/L	0.2652 ppb	20:00:49
1	As 188.979†	-31.1	-2.2	-0.9598 ug/L	-0.9598 ppb	20:01:09
1	B 249.677†	-275.3	-48.5	-1.2147 ug/L	-1.2147 ppb	20:01:09
1	Ba 233.527†	9.7	13.6	0.1600 ug/L	0.1600 ppb	20:01:09
1	Be 313.107†	-9519.6	-99.0	-0.0378 ug/L	-0.0378 ppb	20:00:49
1	Cd 226.502†	-177.4	6.9	0.0902 ug/L	0.0902 ppb	20:01:09
1	Co 228.616†	-52.4	12.4	0.3703 ug/L	0.3703 ppb	20:01:09
1	Cr 267.716†	106.2	44.0	0.5869 ug/L	0.5869 ppb	20:01:09
1	Cu 324.752†	8014.4	216.5	0.8001 ug/L	0.8001 ppb	20:00:49
1	Mn 257.610†	831.8	393.7	0.6185 ug/L	0.6185 ppb	20:01:09
1	Mo 202.031†	22.0	9.8	0.8928 ug/L	0.8928 ppb	20:01:09
1	Ni 231.604†	103.7	22.2	0.6854 ug/L	0.6854 ppb	20:01:09
1	P 214.914†	207.9	7.1	3.6966 ug/L	3.6966 ppb	20:01:09
1	Pb 220.353†	-57.3	0.8	0.1194 ug/L	0.1194 ppb	20:01:09
1	S 181.975 Axial†	44.7	3.3	4.0416 ug/L	4.0416 ppb	20:01:09
1	Sb 206.836†	27.7	-5.4	-2.0778 ug/L	-2.0778 ppb	20:01:09
1	Se 196.026†	-19.9	-0.8	-0.3305 ug/L	-0.3305 ppb	20:01:09
1	Si 251.611†	1055.8	494.9	17.637 ug/L	17.637 ppb	20:01:09
1	Sn 189.927†	22.3	9.0	2.0576 ug/L	2.0576 ppb	20:01:09
1	Ti 334.940†	-1142.5	202.8	0.3920 ug/L	0.3920 ppb	20:00:49
1	Tl 190.801†	-33.5	2.5	1.1319 ug/L	1.1319 ppb	20:01:09
1	U 409.014†	-2330.6	59.6	1.9679 ug/L	1.9679 ppb	20:00:49
1	V 292.402†	-1666.5	8.3	0.0747 ug/L	0.0747 ppb	20:00:49
1	Zn 213.857†	890.2	84.7	0.8964 ug/L	0.8964 ppb	20:01:09
1	SiO2†	1095.1	524.6	40.119 ug/L	40.119 ppb	20:02:05
2	Sc Radial	4745.8	4745.8	100.0 %		19:59:57
2	Y RADIAL	5020.8	5020.8	99.62 %		19:59:57
2	Al 396.153Radial†	-83.5	-1.1	-0.9268 ug/L	-0.9268 ppb	20:00:17
2	Ca 317.933Radial†	31.3	13.0	23.316 ug/L	23.316 ppb	20:00:17
2	Fe 238.204 Radial†	12.7	5.4	56.569 ug/L	56.569 ppb	20:00:17
2	K 766.490 Radial†	2563.2	257.6	48.637 ug/L	48.637 ppb	19:59:57
2	Mg 279.077 IEC†	1.1	-1.0	-39.595 ug/L	-39.595 ppb	20:00:17
2	Na 589.592 Radial†	-690.2	46.6	14.170 ug/L	14.170 ppb	19:59:57
2	Sr 421.552†	54.9	36.0	0.2562 ug/L	0.2562 ppb	19:59:57
2	Sc 361.383	789747.1	789747.1	99.865 %		20:01:14
2	Y 371.029	704939.3	704939.3	99.710 %		20:01:14
2	Ag 328.068†	300.1	124.1	0.6354 ug/L	0.6354 ppb	20:01:14
2	As 188.979†	-27.7	0.8	0.3844 ug/L	0.3844 ppb	20:01:34
2	B 249.677†	-282.0	-58.2	-1.4573 ug/L	-1.4573 ppb	20:01:34
2	Ba 233.527†	20.8	24.9	0.2891 ug/L	0.2891 ppb	20:01:34
2	Be 313.107†	-9489.2	-169.5	-0.0654 ug/L	-0.0654 ppb	20:01:14
2	Cd 226.502†	-178.6	3.7	0.0464 ug/L	0.0464 ppb	20:01:34
2	Co 228.616†	-50.2	14.1	0.4153 ug/L	0.4153 ppb	20:01:34
2	Cr 267.716†	110.7	49.6	0.6607 ug/L	0.6607 ppb	20:01:34
2	Cu 324.752†	7842.4	129.3	0.4777 ug/L	0.4777 ppb	20:01:14
2	Mn 257.610†	823.7	394.4	0.6268 ug/L	0.6268 ppb	20:01:34
2	Mo 202.031†	4.0	-7.9	-0.7140 ug/L	-0.7140 ppb	20:01:34
2	Ni 231.604†	94.1	13.7	0.4232 ug/L	0.4232 ppb	20:01:34

2	P 214.914†	204.4	5.8	3.0252 ug/L	3.0252 ppb	20:01:34
2	Pb 220.353†	-74.1	-16.7	-2.6562 ug/L	-2.6562 ppb	20:01:34
2	S 181.975 Axial†	45.2	4.3	5.3038 ug/L	5.3038 ppb	20:01:34
2	Sb 206.836†	34.4	1.6	0.6207 ug/L	0.6207 ppb	20:01:34
2	Se 196.026†	-17.7	1.2	0.8458 ug/L	0.8458 ppb	20:01:34
2	Si 251.611†	1069.1	519.4	18.534 ug/L	18.534 ppb	20:01:34
2	Sn 189.927†	19.8	6.8	1.5560 ug/L	1.5560 ppb	20:01:34
2	Ti 334.940†	-1118.6	214.6	0.4297 ug/L	0.4297 ppb	20:01:14
2	Tl 190.801†	-34.0	1.6	0.7512 ug/L	0.7512 ppb	20:01:34
2	U 409.014†	-2255.4	110.2	3.6455 ug/L	3.6455 ppb	20:01:14
2	V 292.402†	-1717.2	-60.2	-0.4806 ug/L	-0.4806 ppb	20:01:14
2	Zn 213.857†	898.4	102.3	1.0873 ug/L	1.0873 ppb	20:01:34
2	SiO2†	1129.7	570.8	43.702 ug/L	43.702 ppb	20:02:10
3	Sc Radial	4804.2	4804.2	101 %		20:00:22
3	Y RADIAL	5089.7	5089.7	101.0 %		20:00:22
3	Al 396.153Radial†	-77.5	5.9	5.3489 ug/L	5.3489 ppb	20:00:42
3	Ca 317.933Radial†	28.5	9.9	17.788 ug/L	17.788 ppb	20:00:42
3	Fe 238.204 Radial†	11.3	3.9	40.905 ug/L	40.905 ppb	20:00:42
3	K 766.490 Radial†	2487.3	151.4	28.589 ug/L	28.589 ppb	20:00:22
3	Mg 279.077 IEC†	2.7	0.5	20.808 ug/L	20.808 ppb	20:00:42
3	Na 589.592 Radial†	-738.9	6.8	2.0734 ug/L	2.0734 ppb	20:00:22
3	Sr 421.552†	34.8	15.5	0.1101 ug/L	0.1101 ppb	20:00:22
3	Sc 361.383	793750.8	793750.8	100.37 %		20:01:40
3	Y 371.029	708065.1	708065.1	100.15 %		20:01:40
3	Ag 328.068†	147.6	-29.4	-0.1339 ug/L	-0.1339 ppb	20:01:40
3	As 188.979†	-37.6	-8.8	-3.8335 ug/L	-3.8335 ppb	20:02:00
3	B 249.677†	-275.2	-50.0	-1.2501 ug/L	-1.2501 ppb	20:02:00
3	Ba 233.527†	15.2	19.2	0.2236 ug/L	0.2236 ppb	20:02:00
3	Be 313.107†	-9426.3	-58.9	-0.0224 ug/L	-0.0224 ppb	20:01:40
3	Cd 226.502†	-176.3	7.0	0.0916 ug/L	0.0916 ppb	20:02:00
3	Co 228.616†	-57.8	6.8	0.2019 ug/L	0.2019 ppb	20:02:00
3	Cr 267.716†	98.1	36.5	0.4882 ug/L	0.4882 ppb	20:02:00
3	Cu 324.752†	7841.4	88.6	0.3306 ug/L	0.3306 ppb	20:01:40
3	Mn 257.610†	857.7	424.1	0.6694 ug/L	0.6694 ppb	20:02:00
3	Mo 202.031†	16.9	4.9	0.4465 ug/L	0.4465 ppb	20:02:00
3	Ni 231.604†	86.3	5.5	0.1693 ug/L	0.1693 ppb	20:02:00
3	P 214.914†	223.8	24.1	13.009 ug/L	13.009 ppb	20:02:00
3	Pb 220.353†	-55.2	2.5	0.4001 ug/L	0.4001 ppb	20:02:00
3	S 181.975 Axial†	41.7	0.5	0.5988 ug/L	0.5988 ppb	20:02:00
3	Sb 206.836†	30.0	-2.9	-1.1324 ug/L	-1.1324 ppb	20:02:00
3	Se 196.026†	-21.2	-2.1	-1.1589 ug/L	-1.1589 ppb	20:02:00
3	Si 251.611†	1047.2	492.1	17.546 ug/L	17.546 ppb	20:02:00
3	Sn 189.927†	16.6	3.5	0.8049 ug/L	0.8049 ppb	20:02:00
3	Ti 334.940†	-1190.6	148.6	0.2962 ug/L	0.2962 ppb	20:01:40
3	Tl 190.801†	-30.1	5.7	2.5950 ug/L	2.5950 ppb	20:02:00
3	U 409.014†	-2468.6	-90.9	-3.0189 ug/L	-3.0189 ppb	20:01:40
3	V 292.402†	-1690.3	-24.7	-0.1977 ug/L	-0.1977 ppb	20:01:40
3	Zn 213.857†	882.2	81.6	0.8694 ug/L	0.8694 ppb	20:02:00
3	SiO2†	1073.9	509.6	38.982 ug/L	38.982 ppb	20:02:15

Mean Data: 1202059110|960016|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793899.5	100.39 %		0.535			0.53%
Sc Radial	4789.7	101 %		0.8			0.81%
Y 371.029	708884.0	100.27 %		0.624			0.62%
Y RADIAL	5076.8	100.7 %		1.01			1.00%
Ag 328.068†	48.2	0.2556 ug/L		0.38475	0.2556 ppb	0.38475	150.54%
Al 396.153Radial†	4.0	3.6496 ug/L		4.00677	3.6496 ppb	4.00677	109.79%
As 188.979†	-3.4	-1.4697 ug/L		2.15464	-1.4697 ppb	2.15464	146.61%
B 249.677†	-52.2	-1.3074 ug/L		0.13105	-1.3074 ppb	0.13105	10.02%
Ba 233.527†	19.2	0.2242 ug/L		0.06454	0.2242 ppb	0.06454	28.78%
Be 313.107†	-109.1	-0.0419 ug/L		0.02177	-0.0419 ppb	0.02177	52.01%
Ca 317.933Radial†	9.7	17.373 ug/L		6.1613	17.373 ppb	6.1613	35.47%
Cd 226.502†	5.9	0.0761 ug/L		0.02567	0.0761 ppb	0.02567	33.75%
Co 228.616†	11.1	0.3291 ug/L		0.11249	0.3291 ppb	0.11249	34.18%
Cr 267.716†	43.4	0.5786 ug/L		0.08653	0.5786 ppb	0.08653	14.96%
Cu 324.752†	144.8	0.5361 ug/L		0.24015	0.5361 ppb	0.24015	44.79%
Fe 238.204 Radial†	4.8	49.928 ug/L		8.0992	49.928 ppb	8.0992	16.22%
K 766.490 Radial†	198.1	37.398 ug/L		10.2425	37.398 ppb	10.2425	27.39%

Mg 279.077 IEC†	0.9	35.265 ug/L	83.0379	35.265 ppb	83.0379	235.47%
Mn 257.610†	404.0	0.6382 ug/L	0.02733	0.6382 ppb	0.02733	4.28%
Mo 202.031†	2.3	0.2084 ug/L	0.82941	0.2084 ppb	0.82941	397.90%
Na 589.592 Radial†	19.8	6.0359 ug/L	7.04522	6.0359 ppb	7.04522	116.72%
Ni 231.604†	13.8	0.4260 ug/L	0.25808	0.4260 ppb	0.25808	60.58%
P 214.914†	12.4	6.5769 ug/L	5.58035	6.5769 ppb	5.58035	84.85%
Pb 220.353†	-4.5	-0.7122 ug/L	1.68934	-0.7122 ppb	1.68934	237.19%
S 181.975 Axial†	2.7	3.3147 ug/L	2.43527	3.3147 ppb	2.43527	73.47%
Sb 206.836†	-2.3	-0.8631 ug/L	1.36928	-0.8631 ppb	1.36928	158.64%
Se 196.026†	-0.6	-0.2145 ug/L	1.00740	-0.2145 ppb	1.00740	469.54%
Si 251.611†	502.1	17.906 ug/L	0.5459	17.906 ppb	0.5459	3.05%
Sn 189.927†	6.4	1.4728 ug/L	0.63048	1.4728 ppb	0.63048	42.81%
Sr 421.552†	13.9	0.0987 ug/L	0.16352	0.0987 ppb	0.16352	165.65%
Ti 334.940†	188.7	0.3726 ug/L	0.06878	0.3726 ppb	0.06878	18.46%
Tl 190.801†	3.3	1.4927 ug/L	0.97344	1.4927 ppb	0.97344	65.21%
U 409.014†	26.3	0.8648 ug/L	3.46643	0.8648 ppb	3.46643	400.82%
V 292.402†	-25.6	-0.2012 ug/L	0.27767	-0.2012 ppb	0.27767	138.02%
Zn 213.857†	89.5	0.9510 ug/L	0.11878	0.9510 ppb	0.11878	12.49%
SiO2†	535.0	40.934 ug/L	2.4636	40.934 ppb	2.4636	6.02%

Sequence No.: 15

Sample ID: 1202059111|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 48

Date Collected: 3/4/2010 20:04:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202059111|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4905.9	4905.9	103 %		20:06:40
1	Y RADIAL	5709.0	5709.0	113.3 %		20:06:40
1	Al 396.153Radial†	96361.5	93340.5	85445 ug/L	85445 ppb	20:06:20
1	Ca 317.933Radial†	55401.7	53599.1	95918 ug/L	95918 ppb	20:06:20
1	Fe 238.204 Radial†	17727.7	17149.5	178020 ug/L	178020 ppb	20:06:20
1	K 766.490 Radial†	225748.0	216170.6	40782 ug/L	40782 ppb	20:06:20
1	Mg 279.077 IEC†	985.5	951.7	37321 ug/L	37321 ppb	20:06:40
1	Na 589.592 Radial†	28300.4	28126.0	8558.4 ug/L	8558.4 ppb	20:06:20
1	Sr 421.552†	311012.0	300976.4	2144.0 ug/L	2144.0 ppb	20:06:20
1	Sc 361.383	879198.3	879198.3	111.18 %		20:07:39
1	Y 371.029	843861.6	843861.6	119.36 %		20:07:39
1	Ag 328.068†	50405.2	45161.5	284.96 ug/L	284.96 ppb	20:07:39
1	As 188.979†	2386.4	2175.2	1031.4 ug/L	1031.4 ppb	20:07:59
1	B 249.677†	61376.5	55430.5	1347.1 ug/L	1347.1 ppb	20:07:39
1	Ba 233.527†	161642.4	145396.5	1694.0 ug/L	1694.0 ppb	20:07:39
1	Be 313.107†	1944672.4	1758506.2	699.87 ug/L	699.87 ppb	20:07:39
1	Cd 226.502†	43701.1	39490.4	525.24 ug/L	525.24 ppb	20:07:59
1	Co 228.616†	32693.8	29471.4	864.25 ug/L	864.25 ppb	20:07:59
1	Cr 267.716†	181924.2	163574.1	2186.2 ug/L	2186.2 ppb	20:07:39
1	Cu 324.752†	526396.4	465753.8	1727.4 ug/L	1727.4 ppb	20:07:39
1	Mn 257.610†	3439861.6	3093620.4	4876.3 ug/L	4876.3 ppb	20:07:39
1	Mo 202.031†	5819.4	5222.4	487.11 ug/L	487.11 ppb	20:07:59
1	Ni 231.604†	43916.8	39421.4	1216.5 ug/L	1216.5 ppb	20:07:39
1	P 214.914†	16015.0	14206.2	7251.9 ug/L	7251.9 ppb	20:07:59
1	Pb 220.353†	5526.8	5028.7	806.30 ug/L	806.30 ppb	20:07:59
1	S 181.975 Axial†	3234.4	2868.2	3546.9 ug/L	3546.9 ppb	20:07:59
1	Sb 206.836†	5210.1	4653.4	1830.9 ug/L	1830.9 ppb	20:07:59
1	Se 196.026†	4590.0	4147.6	2870.6 ug/L	2870.6 ppb	20:07:59
1	Si 251.611†	315427.6	283166.4	10093 ug/L	10093 ppb	20:07:39
1	Sn 189.927†	4500.2	4034.7	928.91 ug/L	928.91 ppb	20:07:59
1	Ti 334.940†	2934028.9	2640404.5	5240.0 ug/L	5240.0 ppb	20:07:39
1	Tl 190.801†	2638.6	2409.0	1152.8 ug/L	1152.8 ppb	20:07:59
1	U 409.014†	-7454.4	-4336.4	-168.96 ug/L	-168.96 ppb	20:07:39
1	V 292.402†	160775.7	146272.2	1110.7 ug/L	1110.7 ppb	20:07:39
1	Zn 213.857†	539217.1	484212.1	5166.2 ug/L	5166.2 ppb	20:07:39
1	SiO2†	323458.9	290381.1	22208 ug/L	22208 ppb	20:09:00
2	Sc Radial	4936.5	4936.5	104 %		20:07:05
2	Y RADIAL	5741.8	5741.8	113.9 %		20:07:05
2	Al 396.153Radial†	98142.4	94476.0	86483 ug/L	86483 ppb	20:06:45
2	Ca 317.933Radial†	56439.5	54265.4	97110 ug/L	97110 ppb	20:06:45
2	Fe 238.204 Radial†	18050.7	17353.9	180140 ug/L	180140 ppb	20:06:45
2	K 766.490 Radial†	229478.3	218406.0	41203 ug/L	41203 ppb	20:06:45
2	Mg 279.077 IEC†	976.7	937.3	36753 ug/L	36753 ppb	20:07:05
2	Na 589.592 Radial†	28665.6	28307.7	8613.7 ug/L	8613.7 ppb	20:06:45
2	Sr 421.552†	315899.2	303813.5	2164.2 ug/L	2164.2 ppb	20:06:45
2	Sc 361.383	823045.3	823045.3	104.08 %		20:08:07
2	Y 371.029	798910.0	798910.0	113.00 %		20:08:07
2	Ag 328.068†	52115.3	49897.8	309.88 ug/L	309.88 ppb	20:08:07
2	As 188.979†	2406.9	2341.3	1108.7 ug/L	1108.7 ppb	20:08:27
2	B 249.677†	63413.7	61154.5	1488.9 ug/L	1488.9 ppb	20:08:07
2	Ba 233.527†	167045.5	160507.5	1869.6 ug/L	1869.6 ppb	20:08:07
2	Be 313.107†	2011524.8	1942079.3	772.92 ug/L	772.92 ppb	20:08:07
2	Cd 226.502†	44018.9	42477.6	566.16 ug/L	566.16 ppb	20:08:27
2	Co 228.616†	32904.0	31679.7	928.84 ug/L	928.84 ppb	20:08:27
2	Cr 267.716†	187961.7	180539.3	2412.7 ug/L	2412.7 ppb	20:08:07
2	Cu 324.752†	545115.9	516043.6	1913.0 ug/L	1913.0 ppb	20:08:07
2	Mn 257.610†	3547171.8	3407822.3	5370.2 ug/L	5370.2 ppb	20:08:07
2	Mo 202.031†	5850.6	5609.5	522.29 ug/L	522.29 ppb	20:08:27
2	Ni 231.604†	45403.1	43544.5	1343.8 ug/L	1343.8 ppb	20:08:07

2	P 214.914†	16145.5	15314.4	7815.5 ug/L	7815.5 ppb	20:08:27
2	Pb 220.353†	5558.5	5398.3	865.06 ug/L	865.06 ppb	20:08:27
2	S 181.975 Axial†	3262.2	3093.4	3826.4 ug/L	3826.4 ppb	20:08:27
2	Sb 206.836†	5237.4	4999.4	1967.0 ug/L	1967.0 ppb	20:08:27
2	Se 196.026†	4656.8	4493.4	3080.8 ug/L	3080.8 ppb	20:08:27
2	Si 251.611†	326870.8	313518.3	11175 ug/L	11175 ppb	20:08:07
2	Sn 189.927†	4549.2	4358.0	1002.9 ug/L	1002.9 ppb	20:08:27
2	Ti 334.940†	3031776.9	2914377.2	5782.9 ug/L	5782.9 ppb	20:08:07
2	Tl 190.801†	2672.9	2604.0	1247.5 ug/L	1247.5 ppb	20:08:27
2	U 409.014†	-7749.5	-5077.4	-194.28 ug/L	-194.28 ppb	20:08:07
2	V 292.402†	166220.6	161370.1	1227.4 ug/L	1227.4 ppb	20:08:07
2	Zn 213.857†	556329.5	533744.5	5697.1 ug/L	5697.1 ppb	20:08:07
2	SiO2†	322428.7	309241.0	23650 ug/L	23650 ppb	20:09:05
3	Sc Radial	4863.1	4863.1	102 %		20:07:30
3	Y RADIAL	5662.5	5662.5	112.3 %		20:07:30
3	Al 396.153Radial†	96920.5	94707.1	86695 ug/L	86695 ppb	20:07:10
3	Ca 317.933Radial†	55689.5	54352.1	97265 ug/L	97265 ppb	20:07:10
3	Fe 238.204 Radial†	17817.4	17388.1	180490 ug/L	180490 ppb	20:07:10
3	K 766.490 Radial†	228011.8	220303.9	41562 ug/L	41562 ppb	20:07:10
3	Mg 279.077 IEC†	978.3	953.0	37371 ug/L	37371 ppb	20:07:30
3	Na 589.592 Radial†	28571.2	28631.5	8712.2 ug/L	8712.2 ppb	20:07:10
3	Sr 421.552†	313898.0	306443.5	2182.9 ug/L	2182.9 ppb	20:07:10
3	Sc 361.383	807133.3	807133.3	102.06 %		20:08:34
3	Y 371.029	782760.0	782760.0	110.72 %		20:08:34
3	Ag 328.068†	51094.4	49884.8	309.95 ug/L	309.95 ppb	20:08:34
3	As 188.979†	2449.4	2428.5	1146.9 ug/L	1146.9 ppb	20:08:54
3	B 249.677†	62393.0	61355.5	1493.7 ug/L	1493.7 ppb	20:08:34
3	Ba 233.527†	164614.3	161289.6	1878.7 ug/L	1878.7 ppb	20:08:34
3	Be 313.107†	1977843.8	1947182.1	774.97 ug/L	774.97 ppb	20:08:34
3	Cd 226.502†	43989.7	43282.8	577.19 ug/L	577.19 ppb	20:08:54
3	Co 228.616†	32983.0	32380.4	949.66 ug/L	949.66 ppb	20:08:54
3	Cr 267.716†	185435.7	181624.7	2427.2 ug/L	2427.2 ppb	20:08:34
3	Cu 324.752†	533827.7	515309.4	1910.3 ug/L	1910.3 ppb	20:08:34
3	Mn 257.610†	3493747.7	3422669.6	5393.5 ug/L	5393.5 ppb	20:08:34
3	Mo 202.031†	5848.7	5718.5	532.17 ug/L	532.17 ppb	20:08:54
3	Ni 231.604†	44766.3	43780.6	1351.1 ug/L	1351.1 ppb	20:08:34
3	P 214.914†	16120.7	15595.9	7968.7 ug/L	7968.7 ppb	20:08:54
3	Pb 220.353†	5602.1	5546.4	888.61 ug/L	888.61 ppb	20:08:54
3	S 181.975 Axial†	3259.3	3152.3	3899.6 ug/L	3899.6 ppb	20:08:54
3	Sb 206.836†	5237.2	5098.4	2006.3 ug/L	2006.3 ppb	20:08:54
3	Se 196.026†	4665.4	4590.0	3139.0 ug/L	3139.0 ppb	20:08:54
3	Si 251.611†	320511.8	313479.6	11173 ug/L	11173 ppb	20:08:34
3	Sn 189.927†	4558.8	4453.6	1024.7 ug/L	1024.7 ppb	20:08:54
3	Ti 334.940†	2984428.2	2925414.3	5804.7 ug/L	5804.7 ppb	20:08:34
3	Tl 190.801†	2669.6	2651.3	1269.1 ug/L	1269.1 ppb	20:08:54
3	U 409.014†	-7559.8	-5038.3	-193.05 ug/L	-193.05 ppb	20:08:34
3	V 292.402†	163721.4	162070.1	1232.9 ug/L	1232.9 ppb	20:08:34
3	Zn 213.857†	548041.1	536161.8	5722.9 ug/L	5722.9 ppb	20:08:34
3	SiO2†	322383.9	315304.6	24114 ug/L	24114 ppb	20:09:10

Mean Data: 1202059111|960016|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	836458.9	105.77 %	4.787			4.53%
Sc Radial	4901.8	103 %	0.8			0.75%
Y 371.029	808510.5	114.36 %	4.478			3.92%
Y RADIAL	5704.5	113.2 %	0.79			0.70%
Ag 328.068†	48314.7	301.60 ug/L	14.406	301.60 ppb	14.406	4.78%
Al 396.153Radial†	94174.5	86208 ug/L	668.6	86208 ppb	668.6	0.78%
As 188.979†	2315.0	1095.7 ug/L	58.85	1095.7 ppb	58.85	5.37%
B 249.677†	59313.5	1443.2 ug/L	83.32	1443.2 ppb	83.32	5.77%
Ba 233.527†	155731.2	1814.1 ug/L	104.08	1814.1 ppb	104.08	5.74%
Be 313.107†	1882589.2	749.25 ug/L	42.780	749.25 ppb	42.780	5.71%
Ca 317.933Radial†	54072.2	96764 ug/L	737.3	96764 ppb	737.3	0.76%
Cd 226.502†	41750.3	556.20 ug/L	27.374	556.20 ppb	27.374	4.92%
Co 228.616†	31177.2	914.25 ug/L	44.539	914.25 ppb	44.539	4.87%
Cr 267.716†	175246.0	2342.0 ug/L	135.11	2342.0 ppb	135.11	5.77%
Cu 324.752†	499035.6	1850.2 ug/L	106.40	1850.2 ppb	106.40	5.75%
Fe 238.204 Radial†	17297.2	179550 ug/L	1340.5	179550 ppb	1340.5	0.75%
K 766.490 Radial†	218293.5	41182 ug/L	390.3	41182 ppb	390.3	0.95%

Mg 279.077 IEC†	947.3	37148 ug/L	343.4	37148 ppb	343.4	0.92%
Mn 257.610†	3308037.4	5213.3 ug/L	292.10	5213.3 ppb	292.10	5.60%
Mo 202.031†	5516.8	513.86 ug/L	23.684	513.86 ppb	23.684	4.61%
Na 589.592 Radial†	28355.1	8628.1 ug/L	77.91	8628.1 ppb	77.91	0.90%
Ni 231.604†	42248.8	1303.8 ug/L	75.66	1303.8 ppb	75.66	5.80%
P 214.914†	15038.8	7678.7 ug/L	377.47	7678.7 ppb	377.47	4.92%
Pb 220.353†	5324.4	853.33 ug/L	42.392	853.33 ppb	42.392	4.97%
S 181.975 Axial†	3038.0	3757.6 ug/L	186.15	3757.6 ppb	186.15	4.95%
Sb 206.836†	4917.1	1934.8 ug/L	92.04	1934.8 ppb	92.04	4.76%
Se 196.026†	4410.3	3030.1 ug/L	141.23	3030.1 ppb	141.23	4.66%
Si 251.611†	303388.1	10814 ug/L	624.3	10814 ppb	624.3	5.77%
Sn 189.927†	4282.1	985.50 ug/L	50.214	985.50 ppb	50.214	5.10%
Sr 421.552†	303744.5	2163.7 ug/L	19.48	2163.7 ppb	19.48	0.90%
Ti 334.940†	2826732.0	5609.2 ug/L	319.93	5609.2 ppb	319.93	5.70%
Tl 190.801†	2554.8	1223.1 ug/L	61.89	1223.1 ppb	61.89	5.06%
U 409.014†	-4817.4	-185.43 ug/L	14.276	-185.43 ppb	14.276	7.70%
V 292.402†	156570.8	1190.4 ug/L	69.03	1190.4 ppb	69.03	5.80%
Zn 213.857†	518039.5	5528.7 ug/L	314.22	5528.7 ppb	314.22	5.68%
SiO2†	304975.5	23324 ug/L	994.0	23324 ppb	994.0	4.26%

Sequence No.: 16

Sample ID: 246872001|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 3/4/2010 20:11:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872001|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4949.3	4949.3	104 %		20:13:15
1	Y RADIAL	5999.2	5999.2	119.0 %		20:13:15
1	Al 396.153Radial†	23280.7	22415.7	20525 ug/L	20525 ppb	20:13:15
1	Ca 317.933Radial†	2980.2	2840.7	5083.4 ug/L	5083.4 ppb	20:13:35
1	Fe 238.204 Radial†	6912.1	6623.6	68744 ug/L	68744 ppb	20:13:15
1	K 766.490 Radial†	24118.4	20830.1	3930.7 ug/L	3930.7 ppb	20:13:15
1	Mg 279.077 IEC†	122.5	115.4	4475.1 ug/L	4475.1 ppb	20:13:35
1	Na 589.592 Radial†	431.4	1150.9	350.21 ug/L	350.21 ppb	20:13:15
1	Sr 421.552†	5994.6	5731.7	40.805 ug/L	40.805 ppb	20:13:15
1	Sc 361.383	807797.3	807797.3	102.15 %		20:14:33
1	Y 371.029	816058.5	816058.5	115.43 %		20:14:33
1	Ag 328.068†	-3824.9	-3921.0	1.7586 ug/L	1.7586 ppb	20:14:33
1	As 188.979†	-35.6	-6.3	33.202 ug/L	33.202 ppb	20:14:53
1	B 249.677†	663.8	874.1	10.519 ug/L	10.519 ppb	20:14:33
1	Ba 233.527†	23658.9	23165.4	270.89 ug/L	270.89 ppb	20:14:33
1	Be 313.107†	-16971.8	-7282.5	2.3466 ug/L	2.3466 ppb	20:14:33
1	Cd 226.502†	395.9	570.2	0.7299 ug/L	0.7299 ppb	20:14:53
1	Co 228.616†	602.8	654.5	13.811 ug/L	13.811 ppb	20:14:53
1	Cr 267.716†	1692.4	1595.6	22.745 ug/L	22.745 ppb	20:14:53
1	Cu 324.752†	15377.0	7330.0	30.740 ug/L	30.740 ppb	20:14:33
1	Mn 257.610†	1385541.4	1355977.7	2136.9 ug/L	2136.9 ppb	20:14:33
1	Mo 202.031†	43.3	30.4	8.1425 ug/L	8.1425 ppb	20:14:53
1	Ni 231.604†	857.2	758.7	23.412 ug/L	23.412 ppb	20:14:53
1	P 214.914†	1247.6	1022.5	499.04 ug/L	499.04 ppb	20:14:53
1	Pb 220.353†	433.5	481.9	76.051 ug/L	76.051 ppb	20:14:53
1	S 181.975 Axial†	191.7	146.6	178.30 ug/L	178.30 ppb	20:14:53
1	Sb 206.836†	43.3	9.5	-4.8796 ug/L	-4.8796 ppb	20:14:53
1	Se 196.026†	-289.0	-264.0	-0.8564 ug/L	-0.8564 ppb	20:14:53
1	Si 251.611†	199759.7	195008.2	6954.6 ug/L	6954.6 ppb	20:14:33
1	Sn 189.927†	7.0	-6.2	-4.4638 ug/L	-4.4638 ppb	20:14:53
1	Ti 334.940†	1178667.5	1155218.9	2289.0 ug/L	2289.0 ppb	20:14:33
1	Tl 190.801†	-105.3	-67.4	-1.6030 ug/L	-1.6030 ppb	20:14:53
1	U 409.014†	-6045.9	-3550.2	-125.60 ug/L	-125.60 ppb	20:14:33
1	V 292.402†	7954.7	9446.7	60.815 ug/L	60.815 ppb	20:14:33
1	Zn 213.857†	33705.6	32199.6	335.52 ug/L	335.52 ppb	20:14:33
1	SiO2†	204364.4	199507.0	15267 ug/L	15267 ppb	20:15:50
2	Sc Radial	4851.5	4851.5	102 %		20:13:40
2	Y RADIAL	5847.1	5847.1	116.0 %		20:13:40
2	Al 396.153Radial†	22844.3	22439.2	20546 ug/L	20546 ppb	20:13:40
2	Ca 317.933Radial†	2964.6	2883.1	5159.4 ug/L	5159.4 ppb	20:14:01
2	Fe 238.204 Radial†	6758.7	6607.2	68574 ug/L	68574 ppb	20:13:40
2	K 766.490 Radial†	23681.3	20869.0	3938.0 ug/L	3938.0 ppb	20:13:40
2	Mg 279.077 IEC†	118.7	114.1	4424.0 ug/L	4424.0 ppb	20:14:01
2	Na 589.592 Radial†	406.3	1134.7	345.26 ug/L	345.26 ppb	20:13:40
2	Sr 421.552†	5801.5	5658.7	40.285 ug/L	40.285 ppb	20:13:40
2	Sc 361.383	813564.0	813564.0	102.88 %		20:14:59
2	Y 371.029	821182.6	821182.6	116.15 %		20:14:59
2	Ag 328.068†	-3801.9	-3872.1	1.9515 ug/L	1.9515 ppb	20:14:59
2	As 188.979†	-39.3	-9.6	31.733 ug/L	31.733 ppb	20:15:19
2	B 249.677†	574.8	782.9	8.2782 ug/L	8.2782 ppb	20:14:59
2	Ba 233.527†	23942.6	23277.0	272.18 ug/L	272.18 ppb	20:14:59
2	Be 313.107†	-16968.3	-7161.3	2.4016 ug/L	2.4016 ppb	20:14:59
2	Cd 226.502†	415.2	586.2	0.9662 ug/L	0.9662 ppb	20:15:19
2	Co 228.616†	611.3	658.5	13.929 ug/L	13.929 ppb	20:15:19
2	Cr 267.716†	1716.1	1606.9	22.892 ug/L	22.892 ppb	20:15:19
2	Cu 324.752†	15408.4	7253.8	30.451 ug/L	30.451 ppb	20:14:59
2	Mn 257.610†	1400321.4	1360729.9	2144.4 ug/L	2144.4 ppb	20:14:59
2	Mo 202.031†	52.1	38.6	8.8766 ug/L	8.8766 ppb	20:15:19
2	Ni 231.604†	841.0	737.0	22.742 ug/L	22.742 ppb	20:15:19

2	P 214.914†	1265.0	1030.8	503.77 ug/L	503.77 ppb	20:15:19
2	Pb 220.353†	458.4	503.1	79.440 ug/L	79.440 ppb	20:15:19
2	S 181.975 Axial†	193.3	146.9	178.60 ug/L	178.60 ppb	20:15:19
2	Sb 206.836†	45.0	10.8	-4.2974 ug/L	-4.2974 ppb	20:15:19
2	Se 196.026†	-281.9	-255.0	4.0893 ug/L	4.0893 ppb	20:15:19
2	Si 251.611†	202464.4	196251.2	6999.0 ug/L	6999.0 ppb	20:14:59
2	Sn 189.927†	28.0	14.1	0.2100 ug/L	0.2100 ppb	20:15:19
2	Ti 334.940†	1188823.1	1156911.5	2292.3 ug/L	2292.3 ppb	20:14:59
2	Tl 190.801†	-109.3	-70.6	-2.9825 ug/L	-2.9825 ppb	20:15:19
2	U 409.014†	-6142.2	-3601.8	-127.29 ug/L	-127.29 ppb	20:14:59
2	V 292.402†	7990.5	9426.4	60.684 ug/L	60.684 ppb	20:14:59
2	Zn 213.857†	33985.1	32237.4	335.95 ug/L	335.95 ppb	20:14:59
2	SiO2†	199016.1	192890.1	14760 ug/L	14760 ppb	20:15:56
3	Sc Radial	4984.9	4984.9	105 %		20:14:06
3	Y RADIAL	5948.7	5948.7	118.0 %		20:14:06
3	Al 396.153Radial†	22475.2	21489.4	19677 ug/L	19677 ppb	20:14:06
3	Ca 317.933Radial†	2959.1	2800.2	5011.0 ug/L	5011.0 ppb	20:14:26
3	Fe 238.204 Radial†	6619.7	6297.7	65363 ug/L	65363 ppb	20:14:06
3	K 766.490 Radial†	23258.9	19846.5	3745.0 ug/L	3745.0 ppb	20:14:06
3	Mg 279.077 IEC†	121.5	113.6	4407.1 ug/L	4407.1 ppb	20:14:26
3	Na 589.592 Radial†	423.9	1140.8	347.14 ug/L	347.14 ppb	20:14:06
3	Sr 421.552†	5764.5	5471.5	38.952 ug/L	38.952 ppb	20:14:06
3	Sc 361.383	812875.9	812875.9	102.79 %		20:15:25
3	Y 371.029	820272.3	820272.3	116.02 %		20:15:25
3	Ag 328.068†	-3877.4	-3948.6	0.5807 ug/L	0.5807 ppb	20:15:25
3	As 188.979†	-38.7	-9.0	31.250 ug/L	31.250 ppb	20:15:45
3	B 249.677†	511.5	721.8	7.2819 ug/L	7.2819 ppb	20:15:25
3	Ba 233.527†	23897.9	23253.3	271.81 ug/L	271.81 ppb	20:15:25
3	Be 313.107†	-17067.3	-7271.5	2.3584 ug/L	2.3584 ppb	20:15:25
3	Cd 226.502†	405.0	576.6	1.1677 ug/L	1.1677 ppb	20:15:45
3	Co 228.616†	591.5	639.8	13.417 ug/L	13.417 ppb	20:15:45
3	Cr 267.716†	1705.7	1598.2	22.714 ug/L	22.714 ppb	20:15:45
3	Cu 324.752†	15569.9	7423.6	30.904 ug/L	30.904 ppb	20:15:25
3	Mn 257.610†	1399742.4	1361318.8	2145.0 ug/L	2145.0 ppb	20:15:25
3	Mo 202.031†	44.7	31.5	7.9829 ug/L	7.9829 ppb	20:15:45
3	Ni 231.604†	856.5	752.8	23.229 ug/L	23.229 ppb	20:15:45
3	P 214.914†	1260.3	1027.3	504.09 ug/L	504.09 ppb	20:15:45
3	Pb 220.353†	452.5	497.7	78.615 ug/L	78.615 ppb	20:15:45
3	S 181.975 Axial†	191.3	145.1	176.52 ug/L	176.52 ppb	20:15:45
3	Sb 206.836†	49.6	15.4	-2.5077 ug/L	-2.5077 ppb	20:15:45
3	Se 196.026†	-283.5	-256.9	-4.2834 ug/L	-4.2834 ppb	20:15:45
3	Si 251.611†	201710.8	195684.6	6978.8 ug/L	6978.8 ppb	20:15:25
3	Sn 189.927†	10.4	-2.9	-3.5294 ug/L	-3.5294 ppb	20:15:45
3	Ti 334.940†	1187801.4	1156895.7	2292.3 ug/L	2292.3 ppb	20:15:25
3	Tl 190.801†	-99.7	-61.3	1.2398 ug/L	1.2398 ppb	20:15:45
3	U 409.014†	-5981.1	-3450.1	-121.90 ug/L	-121.90 ppb	20:15:25
3	V 292.402†	8071.8	9512.1	61.818 ug/L	61.818 ppb	20:15:25
3	Zn 213.857†	34076.8	32354.5	337.69 ug/L	337.69 ppb	20:15:25
3	SiO2†	202208.9	196160.0	15011 ug/L	15011 ppb	20:16:01

Mean Data: 246872001|960016|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	811412.4	102.60 %	0.398			0.39%
Sc Radial	4928.5	104 %	1.5			1.40%
Y 371.029	819171.1	115.87 %	0.387			0.33%
Y RADIAL	5931.6	117.7 %	1.54			1.31%
Ag 328.068†	-3913.9	1.4302 ug/L	0.74206	1.4302 ppb	0.74206	51.88%
Al 396.153Radial†	22114.8	20249 ug/L	496.0	20249 ppb	496.0	2.45%
As 188.979†	-8.3	32.062 ug/L	1.0168	32.062 ppb	1.0168	3.17%
B 249.677†	793.0	8.6929 ug/L	1.65770	8.6929 ppb	1.65770	19.07%
Ba 233.527†	23231.9	271.63 ug/L	0.663	271.63 ppb	0.663	0.24%
Be 313.107†	-7238.4	2.3689 ug/L	0.02897	2.3689 ppb	0.02897	1.22%
Ca 317.933Radial†	2841.3	5084.6 ug/L	74.17	5084.6 ppb	74.17	1.46%
Cd 226.502†	577.7	0.9546 ug/L	0.21917	0.9546 ppb	0.21917	22.96%
Co 228.616†	650.9	13.719 ug/L	0.2681	13.719 ppb	0.2681	1.95%
Cr 267.716†	1600.2	22.784 ug/L	0.0952	22.784 ppb	0.0952	0.42%
Cu 324.752†	7335.8	30.698 ug/L	0.2296	30.698 ppb	0.2296	0.75%
Fe 238.204 Radial†	6509.5	67560 ug/L	1905.1	67560 ppb	1905.1	2.82%
K 766.490 Radial†	20515.2	3871.2 ug/L	109.39	3871.2 ppb	109.39	2.83%

Mg 279.077 IEC†	114.4	4435.4 ug/L	35.43	4435.4 ppb	35.43	0.80%
Mn 257.610†	1359342.1	2142.1 ug/L	4.49	2142.1 ppb	4.49	0.21%
Mo 202.031†	33.5	8.3340 ug/L	0.47662	8.3340 ppb	0.47662	5.72%
Na 589.592 Radial†	1142.1	347.53 ug/L	2.495	347.53 ppb	2.495	0.72%
Ni 231.604†	749.5	23.127 ug/L	0.3461	23.127 ppb	0.3461	1.50%
P 214.914†	1026.8	502.30 ug/L	2.828	502.30 ppb	2.828	0.56%
Pb 220.353†	494.3	78.035 ug/L	1.7672	78.035 ppb	1.7672	2.26%
S 181.975 Axial†	146.2	177.80 ug/L	1.124	177.80 ppb	1.124	0.63%
Sb 206.836†	11.9	-3.8949 ug/L	1.23614	-3.8949 ppb	1.23614	31.74%
Se 196.026†	-258.6	-0.3502 ug/L	4.20927	-0.3502 ppb	4.20927	>999.9%
Si 251.611†	195648.0	6977.4 ug/L	22.19	6977.4 ppb	22.19	0.32%
Sn 189.927†	1.7	-2.5944 ug/L	2.47325	-2.5944 ppb	2.47325	95.33%
Sr 421.552†	5620.7	40.014 ug/L	0.9558	40.014 ppb	0.9558	2.39%
Ti 334.940†	1156342.0	2291.2 ug/L	1.93	2291.2 ppb	1.93	0.08%
Tl 190.801†	-66.4	-1.1152 ug/L	2.15297	-1.1152 ppb	2.15297	193.05%
U 409.014†	-3534.0	-124.93 ug/L	2.759	-124.93 ppb	2.759	2.21%
V 292.402†	9461.7	61.106 ug/L	0.6201	61.106 ppb	0.6201	1.01%
Zn 213.857†	32263.8	336.38 ug/L	1.149	336.38 ppb	1.149	0.34%
SiO2†	196185.7	15013 ug/L	253.2	15013 ppb	253.2	1.69%

Sequence No.: 17

Sample ID: 1202042577|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 50

Date Collected: 3/4/2010 20:18:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042577|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4947.1	4947.1	104 %			20:20:05
1	Y RADIAL	5857.5	5857.5	116.2 %			20:20:05
1	Al 396.153Radial†	23688.1	22816.8	20892 ug/L		20892 ppb	20:20:05
1	Ca 317.933Radial†	2988.8	2850.2	5100.5 ug/L		5100.5 ppb	20:20:25
1	Fe 238.204 Radial†	6099.7	5846.9	60683 ug/L		60683 ppb	20:20:05
1	K 766.490 Radial†	21311.6	18146.8	3424.2 ug/L		3424.2 ppb	20:20:05
1	Mg 279.077 IEC†	106.3	99.9	3871.9 ug/L		3871.9 ppb	20:20:25
1	Na 589.592 Radial†	280.7	1006.5	306.26 ug/L		306.26 ppb	20:20:05
1	Sr 421.552†	6329.6	6055.8	43.115 ug/L		43.115 ppb	20:20:05
1	Sc 361.383	812757.5	812757.5	102.78 %			20:21:22
1	Y 371.029	806675.3	806675.3	114.10 %			20:21:22
1	Ag 328.068†	-3489.7	-3572.0	1.0216 ug/L		1.0216 ppb	20:21:27
1	As 188.979†	-36.6	-7.0	28.264 ug/L		28.264 ppb	20:21:47
1	B 249.677†	302.0	518.1	2.9802 ug/L		2.9802 ppb	20:21:27
1	Ba 233.527†	24029.8	23385.0	273.19 ug/L		273.19 ppb	20:21:27
1	Be 313.107†	-15263.6	-5519.0	2.3202 ug/L		2.3202 ppb	20:21:27
1	Cd 226.502†	320.4	494.4	0.5210 ug/L		0.5210 ppb	20:21:47
1	Co 228.616†	542.3	592.0	12.730 ug/L		12.730 ppb	20:21:47
1	Cr 267.716†	1828.6	1718.0	24.217 ug/L		24.217 ppb	20:21:27
1	Cu 324.752†	16144.9	7985.2	32.727 ug/L		32.727 ppb	20:21:27
1	Mn 257.610†	1167035.6	1135093.8	1789.1 ug/L		1789.1 ppb	20:21:22
1	Mo 202.031†	38.1	25.1	7.0414 ug/L		7.0414 ppb	20:21:47
1	Ni 231.604†	857.8	754.2	23.273 ug/L		23.273 ppb	20:21:47
1	P 214.914†	1086.6	858.4	416.14 ug/L		416.14 ppb	20:21:47
1	Pb 220.353†	348.4	396.5	63.228 ug/L		63.228 ppb	20:21:47
1	S 181.975 Axial†	193.2	146.9	178.56 ug/L		178.56 ppb	20:21:47
1	Sb 206.836†	58.0	23.5	1.7283 ug/L		1.7283 ppb	20:21:47
1	Se 196.026†	-259.2	-233.2	-0.5868 ug/L		-0.5868 ppb	20:21:47
1	Si 251.611†	192590.3	186838.9	6663.3 ug/L		6663.3 ppb	20:21:22
1	Sn 189.927†	12.7	-0.7	-2.7400 ug/L		-2.7400 ppb	20:21:47
1	Ti 334.940†	1022208.6	995942.5	1973.5 ug/L		1973.5 ppb	20:21:22
1	Tl 190.801†	-102.3	-63.8	-4.2502 ug/L		-4.2502 ppb	20:21:47
1	U 409.014†	-5900.4	-3372.4	-118.79 ug/L		-118.79 ppb	20:21:22
1	V 292.402†	7766.0	9215.6	60.521 ug/L		60.521 ppb	20:21:27
1	Zn 213.857†	25466.0	23981.1	248.41 ug/L		248.41 ppb	20:21:27
1	SiO2†	193005.7	187234.0	14328 ug/L		14328 ppb	20:22:54
2	Sc Radial	4874.8	4874.8	103 %			20:20:30
2	Y RADIAL	5766.6	5766.6	114.4 %			20:20:30
2	Al 396.153Radial†	23347.9	22822.6	20898 ug/L		20898 ppb	20:20:30
2	Ca 317.933Radial†	2977.1	2881.4	5156.3 ug/L		5156.3 ppb	20:20:50
2	Fe 238.204 Radial†	5991.9	5828.6	60494 ug/L		60494 ppb	20:20:30
2	K 766.490 Radial†	20971.5	18118.8	3418.9 ug/L		3418.9 ppb	20:20:30
2	Mg 279.077 IEC†	103.9	99.1	3840.2 ug/L		3840.2 ppb	20:20:50
2	Na 589.592 Radial†	295.1	1024.5	311.75 ug/L		311.75 ppb	20:20:30
2	Sr 421.552†	6102.4	5924.6	42.180 ug/L		42.180 ppb	20:20:30
2	Sc 361.383	824307.0	824307.0	104.24 %			20:21:52
2	Y 371.029	816797.7	816797.7	115.53 %			20:21:52
2	Ag 328.068†	-3276.9	-3320.2	2.2253 ug/L		2.2253 ppb	20:21:57
2	As 188.979†	-35.5	-5.5	28.869 ug/L		28.869 ppb	20:22:17
2	B 249.677†	253.5	467.4	1.7527 ug/L		1.7527 ppb	20:21:57
2	Ba 233.527†	23907.1	22939.7	268.02 ug/L		268.02 ppb	20:21:57
2	Be 313.107†	-15150.2	-5202.1	2.4407 ug/L		2.4407 ppb	20:21:57
2	Cd 226.502†	321.1	490.7	0.4891 ug/L		0.4891 ppb	20:22:17
2	Co 228.616†	516.1	559.5	11.765 ug/L		11.765 ppb	20:22:17
2	Cr 267.716†	1797.1	1662.9	23.478 ug/L		23.478 ppb	20:21:57
2	Cu 324.752†	16038.7	7663.2	31.530 ug/L		31.530 ppb	20:21:57
2	Mn 257.610†	1185409.1	1136810.7	1791.8 ug/L		1791.8 ppb	20:21:52
2	Mo 202.031†	31.8	18.5	6.4335 ug/L		6.4335 ppb	20:22:17
2	Ni 231.604†	840.5	725.9	22.400 ug/L		22.400 ppb	20:22:17

2	P 214.914†	1069.9	827.6	399.81 ug/L	399.81 ppb	20:22:17
2	Pb 220.353†	338.0	381.8	60.908 ug/L	60.908 ppb	20:22:17
2	S 181.975 Axial†	190.1	141.3	171.62 ug/L	171.62 ppb	20:22:17
2	Sb 206.836†	46.7	11.9	-2.8450 ug/L	-2.8450 ppb	20:22:17
2	Se 196.026†	-260.1	-230.5	0.5669 ug/L	0.5669 ppb	20:22:17
2	Si 251.611†	195599.2	187100.1	6672.6 ug/L	6672.6 ppb	20:21:52
2	Sn 189.927†	5.1	-8.1	-4.4156 ug/L	-4.4156 ppb	20:22:17
2	Ti 334.940†	1035932.0	995172.7	1972.0 ug/L	1972.0 ppb	20:21:52
2	Tl 190.801†	-95.5	-55.9	-0.6552 ug/L	-0.6552 ppb	20:22:17
2	U 409.014†	-6018.1	-3405.0	-119.85 ug/L	-119.85 ppb	20:21:52
2	V 292.402†	7775.9	9119.2	59.790 ug/L	59.790 ppb	20:21:57
2	Zn 213.857†	25261.0	23437.3	242.60 ug/L	242.60 ppb	20:21:57
2	SiO2†	196086.2	187558.1	14352 ug/L	14352 ppb	20:22:59
3	Sc Radial	4853.9	4853.9	102 %		20:20:55
3	Y RADIAL	5736.5	5736.5	113.8 %		20:20:55
3	Al 396.153Radial†	23283.4	22857.3	20929 ug/L	20929 ppb	20:20:55
3	Ca 317.933Radial†	2983.1	2899.7	5189.1 ug/L	5189.1 ppb	20:21:15
3	Fe 238.204 Radial†	5963.5	5826.0	60467 ug/L	60467 ppb	20:20:55
3	K 766.490 Radial†	20972.6	18207.8	3435.6 ug/L	3435.6 ppb	20:20:55
3	Mg 279.077 IEC†	101.9	97.6	3783.1 ug/L	3783.1 ppb	20:21:15
3	Na 589.592 Radial†	278.4	1009.4	307.15 ug/L	307.15 ppb	20:20:55
3	Sr 421.552†	6134.2	5981.3	42.583 ug/L	42.583 ppb	20:20:55
3	Sc 361.383	811855.1	811855.1	102.66 %		20:22:23
3	Y 371.029	804309.3	804309.3	113.77 %		20:22:23
3	Ag 328.068†	-3244.3	-3336.6	2.1422 ug/L	2.1422 ppb	20:22:28
3	As 188.979†	-36.4	-6.8	28.233 ug/L	28.233 ppb	20:22:48
3	B 249.677†	329.3	545.0	3.6840 ug/L	3.6840 ppb	20:22:28
3	Ba 233.527†	24017.3	23398.8	273.35 ug/L	273.35 ppb	20:22:28
3	Be 313.107†	-15213.6	-5486.7	2.3203 ug/L	2.3203 ppb	20:22:28
3	Cd 226.502†	316.4	490.8	0.4935 ug/L	0.4935 ppb	20:22:48
3	Co 228.616†	530.3	581.0	12.414 ug/L	12.414 ppb	20:22:48
3	Cr 267.716†	1771.8	1664.6	23.504 ug/L	23.504 ppb	20:22:28
3	Cu 324.752†	16057.8	7917.8	32.468 ug/L	32.468 ppb	20:22:28
3	Mn 257.610†	1165485.6	1134846.2	1788.7 ug/L	1788.7 ppb	20:22:23
3	Mo 202.031†	31.7	18.9	6.4616 ug/L	6.4616 ppb	20:22:48
3	Ni 231.604†	849.8	747.3	23.060 ug/L	23.060 ppb	20:22:48
3	P 214.914†	1074.4	847.7	410.61 ug/L	410.61 ppb	20:22:48
3	Pb 220.353†	317.3	366.6	58.496 ug/L	58.496 ppb	20:22:48
3	S 181.975 Axial†	186.5	140.6	170.73 ug/L	170.73 ppb	20:22:48
3	Sb 206.836†	53.8	19.5	0.1743 ug/L	0.1743 ppb	20:22:48
3	Se 196.026†	-243.2	-217.9	8.0077 ug/L	8.0077 ppb	20:22:48
3	Si 251.611†	192294.9	186759.5	6660.5 ug/L	6660.5 ppb	20:22:23
3	Sn 189.927†	16.8	3.3	-1.8027 ug/L	-1.8027 ppb	20:22:48
3	Ti 334.940†	1018220.4	993163.3	1968.0 ug/L	1968.0 ppb	20:22:23
3	Tl 190.801†	-103.0	-64.6	-4.6516 ug/L	-4.6516 ppb	20:22:48
3	U 409.014†	-5987.9	-3464.1	-121.81 ug/L	-121.81 ppb	20:22:23
3	V 292.402†	7884.6	9339.6	61.506 ug/L	61.506 ppb	20:22:28
3	Zn 213.857†	25442.6	23985.9	248.50 ug/L	248.50 ppb	20:22:28
3	SiO2†	195870.9	190233.6	14557 ug/L	14557 ppb	20:23:04

Mean Data: 1202042577|960016|1

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units			
Sc 361.383	816306.5	103.22 %		0.878				0.85%
Sc Radial	4891.9	103 %		1.0				1.00%
Y 371.029	809260.8	114.47 %		0.938				0.82%
Y RADIAL	5786.9	114.8 %		1.25				1.09%
Ag 328.068†	-3409.6	1.7964 ug/L		0.67227	1.7964 ppb	0.67227		37.42%
Al 396.153Radial†	22832.3	20907 ug/L		20.1	20907 ppb	20.1		0.10%
As 188.979†	-6.4	28.455 ug/L		0.3583	28.455 ppb	0.3583		1.26%
B 249.677†	510.2	2.8056 ug/L		0.97739	2.8056 ppb	0.97739		34.84%
Ba 233.527†	23241.1	271.52 ug/L		3.032	271.52 ppb	3.032		1.12%
Be 313.107†	-5402.6	2.3604 ug/L		0.06955	2.3604 ppb	0.06955		2.95%
Ca 317.933Radial†	2877.1	5148.6 ug/L		44.79	5148.6 ppb	44.79		0.87%
Cd 226.502†	491.9	0.5012 ug/L		0.01732	0.5012 ppb	0.01732		3.46%
Co 228.616†	577.5	12.303 ug/L		0.4918	12.303 ppb	0.4918		4.00%
Cr 267.716†	1681.8	23.733 ug/L		0.4192	23.733 ppb	0.4192		1.77%
Cu 324.752†	7855.4	32.241 ug/L		0.6299	32.241 ppb	0.6299		1.95%
Fe 238.204 Radial†	5833.8	60548 ug/L		118.0	60548 ppb	118.0		0.19%
K 766.490 Radial†	18157.8	3426.2 ug/L		8.58	3426.2 ppb	8.58		0.25%

Mg 279.077 IEC†	98.8	3831.8 ug/L	45.01	3831.8 ppb	45.01	1.17%
Mn 257.610†	1135583.6	1789.9 ug/L	1.68	1789.9 ppb	1.68	0.09%
Mo 202.031†	20.8	6.6455 ug/L	0.34315	6.6455 ppb	0.34315	5.16%
Na 589.592 Radial†	1013.5	308.39 ug/L	2.943	308.39 ppb	2.943	0.95%
Ni 231.604†	742.4	22.911 ug/L	0.4554	22.911 ppb	0.4554	1.99%
P 214.914†	844.6	408.85 ug/L	8.305	408.85 ppb	8.305	2.03%
Pb 220.353†	381.6	60.877 ug/L	2.3662	60.877 ppb	2.3662	3.89%
S 181.975 Axial†	142.9	173.64 ug/L	4.290	173.64 ppb	4.290	2.47%
Sb 206.836†	18.3	-0.3141 ug/L	2.32547	-0.3141 ppb	2.32547	740.27%
Se 196.026†	-227.2	2.6626 ug/L	4.66481	2.6626 ppb	4.66481	175.20%
Si 251.611†	186899.5	6665.5 ug/L	6.36	6665.5 ppb	6.36	0.10%
Sn 189.927†	-1.9	-2.9861 ug/L	1.32370	-2.9861 ppb	1.32370	44.33%
Sr 421.552†	5987.2	42.626 ug/L	0.4691	42.626 ppb	0.4691	1.10%
Ti 334.940†	994759.5	1971.1 ug/L	2.83	1971.1 ppb	2.83	0.14%
Tl 190.801†	-61.4	-3.1857 ug/L	2.20060	-3.1857 ppb	2.20060	69.08%
U 409.014†	-3413.8	-120.15 ug/L	1.529	-120.15 ppb	1.529	1.27%
V 292.402†	9224.8	60.606 ug/L	0.8607	60.606 ppb	0.8607	1.42%
Zn 213.857†	23801.4	246.50 ug/L	3.378	246.50 ppb	3.378	1.37%
SiO2†	188341.9	14412 ug/L	126.0	14412 ppb	126.0	0.87%

Sequence No.: 18

Sample ID: 1202042579|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 51

Date Collected: 3/4/2010 20:25:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042579|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4869.4	4869.4	103 %		20:27:08
1	Y RADIAL	5856.4	5856.4	116.2 %		20:27:08
1	Al 396.153Radial†	45742.1	44683.6	40893 ug/L	40893 ppb	20:27:08
1	Ca 317.933Radial†	5727.7	5566.6	9961.6 ug/L	9961.6 ppb	20:27:08
1	Fe 238.204 Radial†	6826.5	6649.0	69023 ug/L	69023 ppb	20:27:08
1	K 766.490 Radial†	53550.7	49908.1	9417.1 ug/L	9417.1 ppb	20:27:08
1	Mg 279.077 IEC†	262.7	254.0	9942.3 ug/L	9942.3 ppb	20:27:28
1	Na 589.592 Radial†	14013.4	14400.9	4382.0 ug/L	4382.0 ppb	20:27:08
1	Sr 421.552†	73442.1	71591.2	510.07 ug/L	510.07 ppb	20:27:08
1	Sc 361.383	821860.0	821860.0	103.93 %		20:28:27
1	Y 371.029	825691.1	825691.1	116.79 %		20:28:27
1	Ag 328.068†	91758.4	88115.5	465.61 ug/L	465.61 ppb	20:28:27
1	As 188.979†	1099.4	1086.5	510.80 ug/L	510.80 ppb	20:28:47
1	B 249.677†	19800.5	19276.7	466.64 ug/L	466.64 ppb	20:28:27
1	Ba 233.527†	82639.8	79521.8	925.47 ug/L	925.47 ppb	20:28:27
1	Be 313.107†	1265596.0	1227117.3	486.24 ug/L	486.24 ppb	20:28:27
1	Cd 226.502†	35231.3	34083.0	461.79 ug/L	461.79 ppb	20:28:47
1	Co 228.616†	18643.6	18003.6	530.28 ug/L	530.28 ppb	20:28:47
1	Cr 267.716†	38249.6	36743.4	491.91 ug/L	491.91 ppb	20:28:27
1	Cu 324.752†	156787.0	143140.2	531.44 ug/L	531.44 ppb	20:28:27
1	Mn 257.610†	2696889.1	2594576.7	4082.7 ug/L	4082.7 ppb	20:28:27
1	Mo 202.031†	5322.2	5109.2	467.39 ug/L	467.39 ppb	20:28:47
1	Ni 231.604†	16951.4	16230.5	500.76 ug/L	500.76 ppb	20:28:47
1	P 214.914†	2084.4	1806.8	834.22 ug/L	834.22 ppb	20:28:47
1	Pb 220.353†	3601.1	3522.6	564.59 ug/L	564.59 ppb	20:28:47
1	S 181.975 Axial†	4196.0	3996.4	4956.7 ug/L	4956.7 ppb	20:28:47
1	Sb 206.836†	1291.8	1210.1	482.13 ug/L	482.13 ppb	20:28:47
1	Se 196.026†	565.2	562.8	493.95 ug/L	493.95 ppb	20:28:47
1	Si 251.611†	303762.7	291736.1	10399 ug/L	10399 ppb	20:28:27
1	Sn 189.927†	2100.1	2007.7	456.64 ug/L	456.64 ppb	20:28:47
1	Ti 334.940†	1418197.5	1365956.2	2706.3 ug/L	2706.3 ppb	20:28:27
1	Tl 190.801†	954.6	954.2	471.16 ug/L	471.16 ppb	20:28:47
1	U 409.014†	7563.6	9646.5	310.90 ug/L	310.90 ppb	20:28:27
1	V 292.402†	70583.8	69576.6	534.53 ug/L	534.53 ppb	20:28:27
1	Zn 213.857†	73805.9	70220.4	740.29 ug/L	740.29 ppb	20:28:27
1	SiO2†	306922.3	294767.2	22544 ug/L	22544 ppb	20:29:47
2	Sc Radial	4935.1	4935.1	104 %		20:27:33
2	Y RADIAL	5896.7	5896.7	117.0 %		20:27:33
2	Al 396.153Radial†	45917.4	44258.6	40503 ug/L	40503 ppb	20:27:33
2	Ca 317.933Radial†	5742.5	5506.5	9854.0 ug/L	9854.0 ppb	20:27:33
2	Fe 238.204 Radial†	6801.0	6535.8	67849 ug/L	67849 ppb	20:27:33
2	K 766.490 Radial†	53899.3	49548.6	9349.2 ug/L	9349.2 ppb	20:27:33
2	Mg 279.077 IEC†	258.8	246.8	9661.0 ug/L	9661.0 ppb	20:27:53
2	Na 589.592 Radial†	14094.7	14297.3	4350.5 ug/L	4350.5 ppb	20:27:33
2	Sr 421.552†	73849.2	71029.7	506.07 ug/L	506.07 ppb	20:27:33
2	Sc 361.383	821669.7	821669.7	103.90 %		20:28:54
2	Y 371.029	823161.1	823161.1	116.43 %		20:28:54
2	Ag 328.068†	91344.9	87738.0	463.36 ug/L	463.36 ppb	20:28:54
2	As 188.979†	1094.1	1081.6	508.36 ug/L	508.36 ppb	20:29:14
2	B 249.677†	19874.6	19352.4	468.72 ug/L	468.72 ppb	20:28:54
2	Ba 233.527†	82787.9	79682.9	927.30 ug/L	927.30 ppb	20:28:54
2	Be 313.107†	1265079.5	1226902.2	486.15 ug/L	486.15 ppb	20:28:54
2	Cd 226.502†	35304.1	34160.9	462.98 ug/L	462.98 ppb	20:29:14
2	Co 228.616†	18654.3	18018.1	530.73 ug/L	530.73 ppb	20:29:14
2	Cr 267.716†	38361.9	36860.0	493.45 ug/L	493.45 ppb	20:28:54
2	Cu 324.752†	156131.3	142544.1	529.18 ug/L	529.18 ppb	20:28:54
2	Mn 257.610†	2702212.5	2600301.0	4091.5 ug/L	4091.5 ppb	20:28:54
2	Mo 202.031†	5333.0	5120.8	468.35 ug/L	468.35 ppb	20:29:14
2	Ni 231.604†	16930.2	16213.9	500.25 ug/L	500.25 ppb	20:29:14

2	P 214.914†	2080.1	1803.2	833.56 ug/L	833.56 ppb	20:29:14
2	Pb 220.353†	3616.0	3537.7	566.98 ug/L	566.98 ppb	20:29:14
2	S 181.975 Axial†	4183.8	3985.7	4943.4 ug/L	4943.4 ppb	20:29:14
2	Sb 206.836†	1302.1	1220.4	486.26 ug/L	486.26 ppb	20:29:14
2	Se 196.026†	561.3	559.2	489.15 ug/L	489.15 ppb	20:29:14
2	Si 251.611†	304814.8	292816.4	10437 ug/L	10437 ppb	20:28:54
2	Sn 189.927†	2118.5	2025.9	460.84 ug/L	460.84 ppb	20:29:14
2	Ti 334.940†	1417211.3	1365323.0	2705.1 ug/L	2705.1 ppb	20:28:54
2	Tl 190.801†	964.4	963.9	475.58 ug/L	475.58 ppb	20:29:14
2	U 409.014†	7160.2	9259.9	298.21 ug/L	298.21 ppb	20:28:54
2	V 292.402†	70574.0	69582.9	534.73 ug/L	534.73 ppb	20:28:54
2	Zn 213.857†	73795.1	70226.5	740.54 ug/L	740.54 ppb	20:28:54
2	SiO2†	310022.1	297818.9	22777 ug/L	22777 ppb	20:29:53
3	Sc Radial	4874.5	4874.5	103 %		20:27:58
3	Y RADIAL	5807.9	5807.9	115.2 %		20:27:58
3	Al 396.153Radial†	45521.9	44421.8	40653 ug/L	40653 ppb	20:27:58
3	Ca 317.933Radial†	5678.8	5513.0	9865.8 ug/L	9865.8 ppb	20:27:58
3	Fe 238.204 Radial†	6726.6	6544.5	67940 ug/L	67940 ppb	20:27:58
3	K 766.490 Radial†	53493.8	49797.3	9396.2 ug/L	9396.2 ppb	20:27:58
3	Mg 279.077 IEC†	259.2	250.4	9799.2 ug/L	9799.2 ppb	20:28:18
3	Na 589.592 Radial†	13805.7	14184.1	4316.0 ug/L	4316.0 ppb	20:27:58
3	Sr 421.552†	72884.8	70972.3	505.66 ug/L	505.66 ppb	20:27:58
3	Sc 361.383	825236.7	825236.7	104.35 %		20:29:22
3	Y 371.029	827729.8	827729.8	117.08 %		20:29:22
3	Ag 328.068†	91993.0	87979.1	464.59 ug/L	464.59 ppb	20:29:22
3	As 188.979†	1112.0	1094.2	513.87 ug/L	513.87 ppb	20:29:42
3	B 249.677†	19907.2	19301.0	467.42 ug/L	467.42 ppb	20:29:22
3	Ba 233.527†	82907.3	79452.9	924.64 ug/L	924.64 ppb	20:29:22
3	Be 313.107†	1268047.9	1224484.0	485.20 ug/L	485.20 ppb	20:29:22
3	Cd 226.502†	35485.3	34187.7	463.34 ug/L	463.34 ppb	20:29:42
3	Co 228.616†	18769.3	18050.7	531.70 ug/L	531.70 ppb	20:29:42
3	Cr 267.716†	38467.0	36801.1	492.66 ug/L	492.66 ppb	20:29:22
3	Cu 324.752†	157531.8	143236.7	531.74 ug/L	531.74 ppb	20:29:22
3	Mn 257.610†	2706553.5	2593219.6	4080.4 ug/L	4080.4 ppb	20:29:22
3	Mo 202.031†	5356.9	5121.5	468.42 ug/L	468.42 ppb	20:29:42
3	Ni 231.604†	17037.9	16246.7	501.26 ug/L	501.26 ppb	20:29:42
3	P 214.914†	2097.6	1811.3	837.41 ug/L	837.41 ppb	20:29:42
3	Pb 220.353†	3632.5	3538.5	567.14 ug/L	567.14 ppb	20:29:42
3	S 181.975 Axial†	4226.7	4009.3	4972.8 ug/L	4972.8 ppb	20:29:42
3	Sb 206.836†	1296.3	1209.4	481.91 ug/L	481.91 ppb	20:29:42
3	Se 196.026†	552.8	548.7	483.13 ug/L	483.13 ppb	20:29:42
3	Si 251.611†	306599.5	293258.6	10453 ug/L	10453 ppb	20:29:22
3	Sn 189.927†	2121.8	2020.2	459.54 ug/L	459.54 ppb	20:29:42
3	Ti 334.940†	1423264.7	1365228.2	2704.9 ug/L	2704.9 ppb	20:29:22
3	Tl 190.801†	971.8	967.0	476.92 ug/L	476.92 ppb	20:29:42
3	U 409.014†	7523.9	9578.7	308.77 ug/L	308.77 ppb	20:29:22
3	V 292.402†	70859.0	69562.5	534.59 ug/L	534.59 ppb	20:29:22
3	Zn 213.857†	74020.5	70135.4	739.54 ug/L	739.54 ppb	20:29:22
3	SiO2†	308226.9	294808.9	22547 ug/L	22547 ppb	20:29:58

Mean Data: 1202042579|960016|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	822922.1	104.06 %	0.254			0.24%
Sc Radial	4893.0	103 %	0.8			0.75%
Y 371.029	825527.4	116.77 %	0.324			0.28%
Y RADIAL	5853.7	116.1 %	0.88			0.76%
Ag 328.068†	87944.2	464.52 ug/L	1.124	464.52 ppb	1.124	0.24%
Al 396.153Radial†	44454.6	40683 ug/L	196.3	40683 ppb	196.3	0.48%
As 188.979†	1087.4	511.01 ug/L	2.758	511.01 ppb	2.758	0.54%
B 249.677†	19310.1	467.59 ug/L	1.047	467.59 ppb	1.047	0.22%
Ba 233.527†	79552.5	925.80 ug/L	1.363	925.80 ppb	1.363	0.15%
Be 313.107†	1226167.8	485.86 ug/L	0.573	485.86 ppb	0.573	0.12%
Ca 317.933Radial†	5528.7	9893.8 ug/L	59.04	9893.8 ppb	59.04	0.60%
Cd 226.502†	34143.9	462.71 ug/L	0.812	462.71 ppb	0.812	0.18%
Co 228.616†	18024.1	530.90 ug/L	0.726	530.90 ppb	0.726	0.14%
Cr 267.716†	36801.5	492.67 ug/L	0.769	492.67 ppb	0.769	0.16%
Cu 324.752†	142973.7	530.78 ug/L	1.396	530.78 ppb	1.396	0.26%
Fe 238.204 Radial†	6576.4	68271 ug/L	653.4	68271 ppb	653.4	0.96%
K 766.490 Radial†	49751.3	9387.5 ug/L	34.75	9387.5 ppb	34.75	0.37%

Mg 279.077 IEC†	250.4	9800.8 ug/L	140.65	9800.8 ppb	140.65	1.44%
Mn 257.610†	2596032.4	4084.9 ug/L	5.88	4084.9 ppb	5.88	0.14%
Mo 202.031†	5117.1	468.05 ug/L	0.573	468.05 ppb	0.573	0.12%
Na 589.592 Radial†	14294.1	4349.5 ug/L	32.99	4349.5 ppb	32.99	0.76%
Ni 231.604†	16230.4	500.76 ug/L	0.507	500.76 ppb	0.507	0.10%
P 214.914†	1807.1	835.06 ug/L	2.061	835.06 ppb	2.061	0.25%
Pb 220.353†	3532.9	566.24 ug/L	1.431	566.24 ppb	1.431	0.25%
S 181.975 Axial†	3997.1	4957.6 ug/L	14.69	4957.6 ppb	14.69	0.30%
Sb 206.836†	1213.3	483.43 ug/L	2.447	483.43 ppb	2.447	0.51%
Se 196.026†	556.9	488.74 ug/L	5.421	488.74 ppb	5.421	1.11%
Si 251.611†	292603.7	10430 ug/L	27.9	10430 ppb	27.9	0.27%
Sn 189.927†	2017.9	459.01 ug/L	2.152	459.01 ppb	2.152	0.47%
Sr 421.552†	71197.8	507.27 ug/L	2.436	507.27 ppb	2.436	0.48%
Ti 334.940†	1365502.4	2705.4 ug/L	0.78	2705.4 ppb	0.78	0.03%
Tl 190.801†	961.7	474.55 ug/L	3.014	474.55 ppb	3.014	0.64%
U 409.014†	9495.0	305.96 ug/L	6.796	305.96 ppb	6.796	2.22%
V 292.402†	69574.0	534.62 ug/L	0.106	534.62 ppb	0.106	0.02%
Zn 213.857†	70194.1	740.12 ug/L	0.522	740.12 ppb	0.522	0.07%
SiO2†	295798.3	22623 ug/L	133.9	22623 ppb	133.9	0.59%

Sequence No.: 19

Sample ID: 1202042580|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 52

Date Collected: 3/4/2010 20:32:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202042580|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4864.8	4864.8	102 %		20:34:01
1	Y RADIAL	5990.4	5990.4	118.9 %		20:34:01
1	Al 396.153Radial†	42185.6	41254.7	37752 ug/L	37752 ppb	20:34:01
1	Ca 317.933Radial†	5687.0	5532.2	9900.0 ug/L	9900.0 ppb	20:34:01
1	Fe 238.204 Radial†	7152.1	6973.0	72386 ug/L	72386 ppb	20:34:01
1	K 766.490 Radial†	51574.4	48028.7	9062.8 ug/L	9062.8 ppb	20:34:01
1	Mg 279.077 IEC†	252.2	244.0	9545.3 ug/L	9545.3 ppb	20:34:21
1	Na 589.592 Radial†	14778.8	15160.9	4613.3 ug/L	4613.3 ppb	20:34:01
1	Sr 421.552†	74988.7	73168.3	521.31 ug/L	521.31 ppb	20:34:01
1	Sc 361.383	818830.9	818830.9	103.54 %		20:35:20
1	Y 371.029	847174.0	847174.0	119.83 %		20:35:20
1	Ag 328.068†	92917.6	89561.6	473.89 ug/L	473.89 ppb	20:35:20
1	As 188.979†	1118.8	1109.2	521.98 ug/L	521.98 ppb	20:35:40
1	B 249.677†	20108.4	19644.5	475.34 ug/L	475.34 ppb	20:35:20
1	Ba 233.527†	65381.6	63148.4	735.69 ug/L	735.69 ppb	20:35:20
1	Be 313.107†	1287352.3	1252634.0	496.37 ug/L	496.37 ppb	20:35:20
1	Cd 226.502†	35958.9	34911.1	472.83 ug/L	472.83 ppb	20:35:40
1	Co 228.616†	17385.0	16854.5	495.84 ug/L	495.84 ppb	20:35:40
1	Cr 267.716†	38858.7	37467.8	501.63 ug/L	501.63 ppb	20:35:20
1	Cu 324.752†	158148.1	145012.9	538.52 ug/L	538.52 ppb	20:35:20
1	Mn 257.610†	1483989.0	1432779.3	2257.7 ug/L	2257.7 ppb	20:35:20
1	Mo 202.031†	5457.2	5258.5	481.15 ug/L	481.15 ppb	20:35:40
1	Ni 231.604†	17085.9	16420.8	506.66 ug/L	506.66 ppb	20:35:40
1	P 214.914†	2153.1	1880.6	869.54 ug/L	869.54 ppb	20:35:40
1	Pb 220.353†	3549.5	3485.5	557.69 ug/L	557.69 ppb	20:35:40
1	S 181.975 Axial†	4252.9	4066.3	5044.1 ug/L	5044.1 ppb	20:35:40
1	Sb 206.836†	1332.9	1254.4	499.87 ug/L	499.87 ppb	20:35:40
1	Se 196.026†	581.1	580.2	511.55 ug/L	511.55 ppb	20:35:40
1	Si 251.611†	212642.5	204815.1	7298.6 ug/L	7298.6 ppb	20:35:20
1	Sn 189.927†	2174.7	2087.2	474.61 ug/L	474.61 ppb	20:35:40
1	Ti 334.940†	1447987.4	1399774.8	2773.3 ug/L	2773.3 ppb	20:35:20
1	Tl 190.801†	1019.6	1020.4	493.17 ug/L	493.17 ppb	20:35:40
1	U 409.014†	7640.9	9748.0	313.86 ug/L	313.86 ppb	20:35:20
1	V 292.402†	70013.2	69276.8	531.82 ug/L	531.82 ppb	20:35:20
1	Zn 213.857†	78355.1	74876.7	789.78 ug/L	789.78 ppb	20:35:20
1	SiO2†	216406.0	208440.6	15938 ug/L	15938 ppb	20:36:40
2	Sc Radial	4903.0	4903.0	103 %		20:34:26
2	Y RADIAL	6057.4	6057.4	120.2 %		20:34:26
2	Al 396.153Radial†	42180.7	40929.1	37454 ug/L	37454 ppb	20:34:26
2	Ca 317.933Radial†	5681.5	5483.6	9813.1 ug/L	9813.1 ppb	20:34:26
2	Fe 238.204 Radial†	7139.9	6906.8	71698 ug/L	71698 ppb	20:34:26
2	K 766.490 Radial†	51570.2	47632.4	8988.0 ug/L	8988.0 ppb	20:34:26
2	Mg 279.077 IEC†	250.0	240.0	9388.4 ug/L	9388.4 ppb	20:34:46
2	Na 589.592 Radial†	14738.0	15008.9	4567.0 ug/L	4567.0 ppb	20:34:26
2	Sr 421.552†	74868.6	72481.7	516.42 ug/L	516.42 ppb	20:34:26
2	Sc 361.383	819066.0	819066.0	103.57 %		20:35:47
2	Y 371.029	845050.5	845050.5	119.53 %		20:35:47
2	Ag 328.068†	93216.0	89824.0	475.00 ug/L	475.00 ppb	20:35:47
2	As 188.979†	1116.8	1106.9	520.89 ug/L	520.89 ppb	20:36:08
2	B 249.677†	20187.6	19715.4	477.22 ug/L	477.22 ppb	20:35:47
2	Ba 233.527†	65642.8	63382.4	738.38 ug/L	738.38 ppb	20:35:47
2	Be 313.107†	1282180.9	1247284.2	494.29 ug/L	494.29 ppb	20:35:47
2	Cd 226.502†	35810.4	34757.7	470.79 ug/L	470.79 ppb	20:36:08
2	Co 228.616†	17316.8	16783.8	493.73 ug/L	493.73 ppb	20:36:08
2	Cr 267.716†	38799.6	37400.0	500.71 ug/L	500.71 ppb	20:35:47
2	Cu 324.752†	158759.6	145559.4	540.50 ug/L	540.50 ppb	20:35:47
2	Mn 257.610†	1488957.2	1437164.7	2264.6 ug/L	2264.6 ppb	20:35:47
2	Mo 202.031†	5412.3	5213.7	477.04 ug/L	477.04 ppb	20:36:08
2	Ni 231.604†	17016.6	16349.1	504.44 ug/L	504.44 ppb	20:36:08

2	P 214.914†	2135.9	1863.3	860.26 ug/L	860.26 ppb	20:36:08
2	Pb 220.353†	3524.9	3460.9	553.75 ug/L	553.75 ppb	20:36:08
2	S 181.975 Axial†	4220.1	4033.5	5003.4 ug/L	5003.4 ppb	20:36:08
2	Sb 206.836†	1325.4	1246.8	496.81 ug/L	496.81 ppb	20:36:08
2	Se 196.026†	563.0	562.5	499.50 ug/L	499.50 ppb	20:36:08
2	Si 251.611†	214117.2	206180.0	7347.3 ug/L	7347.3 ppb	20:35:47
2	Sn 189.927†	2175.7	2087.6	474.71 ug/L	474.71 ppb	20:36:08
2	Ti 334.940†	1451091.0	1402370.0	2778.5 ug/L	2778.5 ppb	20:35:47
2	Tl 190.801†	1024.1	1024.5	495.08 ug/L	495.08 ppb	20:36:08
2	U 409.014†	7698.4	9801.4	315.71 ug/L	315.71 ppb	20:35:47
2	V 292.402†	70035.5	69278.9	531.88 ug/L	531.88 ppb	20:35:47
2	Zn 213.857†	78419.3	74916.9	790.32 ug/L	790.32 ppb	20:35:47
2	SiO2†	218327.4	210235.8	16075 ug/L	16075 ppb	20:36:46
3	Sc Radial	4866.9	4866.9	103 %		20:34:51
3	Y RADIAL	6003.9	6003.9	119.1 %		20:34:51
3	Al 396.153Radial†	41849.7	40908.7	37435 ug/L	37435 ppb	20:34:51
3	Ca 317.933Radial†	5613.2	5457.7	9766.8 ug/L	9766.8 ppb	20:34:51
3	Fe 238.204 Radial†	7028.0	6848.8	71097 ug/L	71097 ppb	20:34:51
3	K 766.490 Radial†	50893.9	47342.5	8933.3 ug/L	8933.3 ppb	20:34:51
3	Mg 279.077 IEC†	249.2	241.0	9427.3 ug/L	9427.3 ppb	20:35:11
3	Na 589.592 Radial†	14510.7	14892.9	4531.7 ug/L	4531.7 ppb	20:34:51
3	Sr 421.552†	74251.8	72416.9	515.96 ug/L	515.96 ppb	20:34:51
3	Sc 361.383	814333.1	814333.1	102.97 %		20:36:15
3	Y 371.029	840859.9	840859.9	118.94 %		20:36:15
3	Ag 328.068†	92498.1	89650.0	473.95 ug/L	473.95 ppb	20:36:15
3	As 188.979†	1123.9	1120.0	526.41 ug/L	526.41 ppb	20:36:35
3	B 249.677†	20085.6	19729.7	477.67 ug/L	477.67 ppb	20:36:15
3	Ba 233.527†	65048.2	63173.4	735.94 ug/L	735.94 ppb	20:36:15
3	Be 313.107†	1275427.1	1247920.4	494.53 ug/L	494.53 ppb	20:36:15
3	Cd 226.502†	35784.9	34933.9	473.28 ug/L	473.28 ppb	20:36:35
3	Co 228.616†	17320.8	16884.8	496.76 ug/L	496.76 ppb	20:36:35
3	Cr 267.716†	38661.2	37483.3	501.81 ug/L	501.81 ppb	20:36:15
3	Cu 324.752†	157408.5	145138.2	538.91 ug/L	538.91 ppb	20:36:15
3	Mn 257.610†	1477244.6	1434145.7	2259.8 ug/L	2259.8 ppb	20:36:15
3	Mo 202.031†	5439.9	5270.8	482.17 ug/L	482.17 ppb	20:36:35
3	Ni 231.604†	17041.8	16469.0	508.14 ug/L	508.14 ppb	20:36:35
3	P 214.914†	2129.2	1868.9	864.08 ug/L	864.08 ppb	20:36:35
3	Pb 220.353†	3539.9	3495.1	559.25 ug/L	559.25 ppb	20:36:35
3	S 181.975 Axial†	4238.5	4075.1	5055.1 ug/L	5055.1 ppb	20:36:35
3	Sb 206.836†	1324.1	1253.0	499.37 ug/L	499.37 ppb	20:36:35
3	Se 196.026†	562.5	565.2	499.76 ug/L	499.76 ppb	20:36:35
3	Si 251.611†	212484.9	205796.4	7333.5 ug/L	7333.5 ppb	20:36:15
3	Sn 189.927†	2169.0	2093.2	476.04 ug/L	476.04 ppb	20:36:35
3	Ti 334.940†	1440957.3	1400671.7	2775.1 ug/L	2775.1 ppb	20:36:15
3	Tl 190.801†	991.9	998.9	483.44 ug/L	483.44 ppb	20:36:35
3	U 409.014†	7507.0	9658.8	311.05 ug/L	311.05 ppb	20:36:15
3	V 292.402†	69694.0	69340.3	532.51 ug/L	532.51 ppb	20:36:15
3	Zn 213.857†	77876.6	74830.0	789.46 ug/L	789.46 ppb	20:36:15
3	SiO2†	214122.4	207377.4	15856 ug/L	15856 ppb	20:36:51

Mean Data: 1202042580|960016|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	817410.0	103.36 %	0.337			0.33%
Sc Radial	4878.2	103 %	0.5			0.44%
Y 371.029	844361.4	119.43 %	0.454			0.38%
Y RADIAL	6017.2	119.4 %	0.70			0.59%
Ag 328.068†	89678.5	474.28 ug/L	0.624	474.28 ppb	0.624	0.13%
Al 396.153Radial†	41030.8	37547 ug/L	177.7	37547 ppb	177.7	0.47%
As 188.979†	1112.0	523.09 ug/L	2.919	523.09 ppb	2.919	0.56%
B 249.677†	19696.6	476.74 ug/L	1.235	476.74 ppb	1.235	0.26%
Ba 233.527†	63234.8	736.67 ug/L	1.487	736.67 ppb	1.487	0.20%
Be 313.107†	1249279.6	495.06 ug/L	1.138	495.06 ppb	1.138	0.23%
Ca 317.933Radial†	5491.1	9826.6 ug/L	67.63	9826.6 ppb	67.63	0.69%
Cd 226.502†	34867.6	472.30 ug/L	1.325	472.30 ppb	1.325	0.28%
Co 228.616†	16841.0	495.44 ug/L	1.555	495.44 ppb	1.555	0.31%
Cr 267.716†	37450.4	501.38 ug/L	0.590	501.38 ppb	0.590	0.12%
Cu 324.752†	145236.8	539.31 ug/L	1.047	539.31 ppb	1.047	0.19%
Fe 238.204 Radial†	6909.5	71727 ug/L	644.9	71727 ppb	644.9	0.90%
K 766.490 Radial†	47667.9	8994.7 ug/L	65.01	8994.7 ppb	65.01	0.72%

Mg 279.077 IEC†	241.7	9453.7 ug/L	81.71	9453.7 ppb	81.71	0.86%
Mn 257.610†	1434696.6	2260.7 ug/L	3.51	2260.7 ppb	3.51	0.16%
Mo 202.031†	5247.7	480.12 ug/L	2.712	480.12 ppb	2.712	0.56%
Na 589.592 Radial†	15020.9	4570.7 ug/L	40.89	4570.7 ppb	40.89	0.89%
Ni 231.604†	16413.0	506.42 ug/L	1.862	506.42 ppb	1.862	0.37%
P 214.914†	1870.9	864.63 ug/L	4.661	864.63 ppb	4.661	0.54%
Pb 220.353†	3480.5	556.90 ug/L	2.834	556.90 ppb	2.834	0.51%
S 181.975 Axial†	4058.3	5034.2 ug/L	27.23	5034.2 ppb	27.23	0.54%
Sb 206.836†	1251.4	498.68 ug/L	1.643	498.68 ppb	1.643	0.33%
Se 196.026†	569.3	503.60 ug/L	6.886	503.60 ppb	6.886	1.37%
Si 251.611†	205597.2	7326.5 ug/L	25.12	7326.5 ppb	25.12	0.34%
Sn 189.927†	2089.3	475.12 ug/L	0.795	475.12 ppb	0.795	0.17%
Sr 421.552†	72689.0	517.90 ug/L	2.967	517.90 ppb	2.967	0.57%
Ti 334.940†	1400938.8	2775.6 ug/L	2.61	2775.6 ppb	2.61	0.09%
Tl 190.801†	1014.6	490.56 ug/L	6.242	490.56 ppb	6.242	1.27%
U 409.014†	9736.1	313.54 ug/L	2.348	313.54 ppb	2.348	0.75%
V 292.402†	69298.7	532.07 ug/L	0.382	532.07 ppb	0.382	0.07%
Zn 213.857†	74874.5	789.85 ug/L	0.438	789.85 ppb	0.438	0.06%
SiO2†	208684.6	15956 ug/L	110.6	15956 ppb	110.6	0.69%

Sequence No.: 20
 Sample ID: 1202042578|960016|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 53
 Date Collected: 3/4/2010 20:39:02
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202042578|960016|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4927.9	4927.9	104 %		20:40:55
1	Y RADIAL	5364.8	5364.8	106.4 %		20:40:55
1	Al 396.153Radial†	4297.3	4222.8	3866.6 ug/L	3866.6 ppb	20:40:55
1	Ca 317.933Radial†	611.9	571.3	1022.3 ug/L	1022.3 ppb	20:41:15
1	Fe 238.204 Radial†	1367.8	1310.5	13602 ug/L	13602 ppb	20:41:15
1	K 766.490 Radial†	6524.1	3979.1	750.84 ug/L	750.84 ppb	20:40:55
1	Mg 279.077 IEC†	24.5	21.5	834.42 ug/L	834.42 ppb	20:41:15
1	Na 589.592 Radial†	-547.2	209.8	63.849 ug/L	63.849 ppb	20:40:55
1	Sr 421.552†	1210.0	1146.9	8.1649 ug/L	8.1649 ppb	20:40:55
1	Sc 361.383	823517.1	823517.1	104.14 %		20:42:12
1	Y 371.029	746534.7	746534.7	105.59 %		20:42:12
1	Ag 328.068†	-544.1	-699.0	0.7297 ug/L	0.7297 ppb	20:42:12
1	As 188.979†	-21.2	8.3	10.647 ug/L	10.647 ppb	20:42:32
1	B 249.677†	-116.8	112.1	0.5686 ug/L	0.5686 ppb	20:42:12
1	Ba 233.527†	4594.6	4416.1	51.657 ug/L	51.657 ppb	20:42:12
1	Be 313.107†	-10784.4	-1023.6	0.6123 ug/L	0.6123 ppb	20:42:12
1	Cd 226.502†	-61.9	123.2	0.2880 ug/L	0.2880 ppb	20:42:32
1	Co 228.616†	65.1	126.9	2.6702 ug/L	2.6702 ppb	20:42:32
1	Cr 267.716†	385.2	308.7	4.4045 ug/L	4.4045 ppb	20:42:32
1	Cu 324.752†	9411.9	1314.4	5.5783 ug/L	5.5783 ppb	20:42:12
1	Mn 257.610†	279432.8	267905.0	422.20 ug/L	422.20 ppb	20:42:12
1	Mo 202.031†	28.2	15.1	2.4316 ug/L	2.4316 ppb	20:42:32
1	Ni 231.604†	248.7	158.4	4.8870 ug/L	4.8870 ppb	20:42:32
1	P 214.914†	401.7	186.9	90.429 ug/L	90.429 ppb	20:42:32
1	Pb 220.353†	38.0	94.0	14.789 ug/L	14.789 ppb	20:42:32
1	S 181.975 Axial†	75.7	31.7	38.600 ug/L	38.600 ppb	20:42:32
1	Sb 206.836†	34.5	0.3	-1.5601 ug/L	-1.5601 ppb	20:42:32
1	Se 196.026†	-70.5	-48.8	1.8654 ug/L	1.8654 ppb	20:42:32
1	Si 251.611†	39864.9	37730.5	1345.6 ug/L	1345.6 ppb	20:42:12
1	Sn 189.927†	11.0	-2.5	-1.1742 ug/L	-1.1742 ppb	20:42:32
1	Ti 334.940†	233090.9	225168.7	446.16 ug/L	446.16 ppb	20:42:12
1	Tl 190.801†	-43.7	-6.3	2.8300 ug/L	2.8300 ppb	20:42:32
1	U 409.014†	-3058.8	-568.7	-20.417 ug/L	-20.417 ppb	20:42:12
1	V 292.402†	204.9	1856.1	11.958 ug/L	11.958 ppb	20:42:12
1	Zn 213.857†	7115.3	6035.4	62.778 ug/L	62.778 ppb	20:42:12
1	SiO2†	39443.3	37316.6	2855.5 ug/L	2855.5 ppb	20:43:28
2	Sc Radial	4853.8	4853.8	102 %		20:41:20
2	Y RADIAL	5277.8	5277.8	104.7 %		20:41:20
2	Al 396.153Radial†	4247.5	4237.3	3879.9 ug/L	3879.9 ppb	20:41:20
2	Ca 317.933Radial†	596.6	565.4	1011.7 ug/L	1011.7 ppb	20:41:40
2	Fe 238.204 Radial†	1348.8	1312.0	13617 ug/L	13617 ppb	20:41:40
2	K 766.490 Radial†	6465.6	4017.7	758.14 ug/L	758.14 ppb	20:41:20
2	Mg 279.077 IEC†	24.4	21.7	842.29 ug/L	842.29 ppb	20:41:40
2	Na 589.592 Radial†	-537.7	211.1	64.222 ug/L	64.222 ppb	20:41:20
2	Sr 421.552†	1151.8	1107.8	7.8862 ug/L	7.8862 ppb	20:41:20
2	Sc 361.383	825331.7	825331.7	104.37 %		20:42:38
2	Y 371.029	747546.3	747546.3	105.74 %		20:42:38
2	Ag 328.068†	-611.4	-762.2	0.4212 ug/L	0.4212 ppb	20:42:38
2	As 188.979†	-31.7	-1.8	6.2803 ug/L	6.2803 ppb	20:42:58
2	B 249.677†	-59.9	166.8	1.9257 ug/L	1.9257 ppb	20:42:38
2	Ba 233.527†	4696.7	4504.3	52.681 ug/L	52.681 ppb	20:42:38
2	Be 313.107†	-10808.3	-1023.7	0.6126 ug/L	0.6126 ppb	20:42:38
2	Cd 226.502†	-68.1	117.4	0.2051 ug/L	0.2051 ppb	20:42:58
2	Co 228.616†	67.7	129.3	2.7389 ug/L	2.7389 ppb	20:42:58
2	Cr 267.716†	373.2	296.4	4.2431 ug/L	4.2431 ppb	20:42:58
2	Cu 324.752†	9322.0	1208.4	5.1912 ug/L	5.1912 ppb	20:42:38
2	Mn 257.610†	280992.7	268809.7	423.63 ug/L	423.63 ppb	20:42:38
2	Mo 202.031†	20.4	7.5	1.7501 ug/L	1.7501 ppb	20:42:58
2	Ni 231.604†	246.8	156.0	4.8143 ug/L	4.8143 ppb	20:42:58

2	P 214.914†	399.1	183.6	88.705 ug/L	88.705 ppb	20:42:58
2	Pb 220.353†	40.0	95.9	15.087 ug/L	15.087 ppb	20:42:58
2	S 181.975 Axial†	76.2	31.9	38.934 ug/L	38.934 ppb	20:42:58
2	Sb 206.836†	22.7	-11.1	-6.0118 ug/L	-6.0118 ppb	20:42:58
2	Se 196.026†	-64.4	-42.8	5.4757 ug/L	5.4757 ppb	20:42:58
2	Si 251.611†	39772.8	37558.1	1339.4 ug/L	1339.4 ppb	20:42:38
2	Sn 189.927†	19.3	5.4	0.6413 ug/L	0.6413 ppb	20:42:58
2	Ti 334.940†	233700.4	225260.6	446.34 ug/L	446.34 ppb	20:42:38
2	Tl 190.801†	-48.9	-11.2	0.6199 ug/L	0.6199 ppb	20:42:58
2	U 409.014†	-3232.0	-728.2	-25.708 ug/L	-25.708 ppb	20:42:38
2	V 292.402†	210.0	1860.5	11.970 ug/L	11.970 ppb	20:42:38
2	Zn 213.857†	7178.2	6080.7	63.263 ug/L	63.263 ppb	20:42:38
2	SiO2†	38764.8	36583.2	2799.4 ug/L	2799.4 ppb	20:43:34
3	Sc Radial	4931.3	4931.3	104 %		20:41:45
3	Y RADIAL	5350.9	5350.9	106.2 %		20:41:45
3	Al 396.153Radial†	4315.1	4237.1	3879.7 ug/L	3879.7 ppb	20:41:45
3	Ca 317.933Radial†	615.1	574.0	1027.1 ug/L	1027.1 ppb	20:42:05
3	Fe 238.204 Radial†	1365.7	1307.6	13572 ug/L	13572 ppb	20:42:05
3	K 766.490 Radial†	6572.2	4021.0	758.76 ug/L	758.76 ppb	20:41:45
3	Mg 279.077 IEC†	23.1	20.2	780.55 ug/L	780.55 ppb	20:42:05
3	Na 589.592 Radial†	-609.1	150.6	45.824 ug/L	45.824 ppb	20:41:45
3	Sr 421.552†	1191.5	1128.3	8.0323 ug/L	8.0323 ppb	20:41:45
3	Sc 361.383	808356.0	808356.0	102.22 %		20:43:03
3	Y 371.029	734611.3	734611.3	103.91 %		20:43:03
3	Ag 328.068†	-522.0	-687.1	0.7820 ug/L	0.7820 ppb	20:43:03
3	As 188.979†	-35.7	-6.3	4.3231 ug/L	4.3231 ppb	20:43:23
3	B 249.677†	-54.1	171.3	2.0444 ug/L	2.0444 ppb	20:43:03
3	Ba 233.527†	4607.7	4511.7	52.766 ug/L	52.766 ppb	20:43:03
3	Be 313.107†	-10818.4	-1251.1	0.5250 ug/L	0.5250 ppb	20:43:03
3	Cd 226.502†	-56.5	127.4	0.3482 ug/L	0.3482 ppb	20:43:23
3	Co 228.616†	72.4	135.2	2.9151 ug/L	2.9151 ppb	20:43:23
3	Cr 267.716†	402.5	332.5	4.7226 ug/L	4.7226 ppb	20:43:23
3	Cu 324.752†	9262.5	1337.7	5.6634 ug/L	5.6634 ppb	20:43:03
3	Mn 257.610†	275319.1	268913.3	423.79 ug/L	423.79 ppb	20:43:03
3	Mo 202.031†	15.0	2.7	1.3058 ug/L	1.3058 ppb	20:43:23
3	Ni 231.604†	220.7	135.5	4.1794 ug/L	4.1794 ppb	20:43:23
3	P 214.914†	405.8	198.1	96.536 ug/L	96.536 ppb	20:43:23
3	Pb 220.353†	42.4	98.9	15.575 ug/L	15.575 ppb	20:43:23
3	S 181.975 Axial†	75.9	33.3	40.582 ug/L	40.582 ppb	20:43:23
3	Sb 206.836†	24.5	-8.9	-5.1458 ug/L	-5.1458 ppb	20:43:23
3	Se 196.026†	-75.8	-55.2	-2.0229 ug/L	-2.0229 ppb	20:43:23
3	Si 251.611†	38877.3	37482.3	1336.7 ug/L	1336.7 ppb	20:43:03
3	Sn 189.927†	15.9	2.5	-0.0284 ug/L	-0.0284 ppb	20:43:23
3	Ti 334.940†	229202.0	225562.3	446.94 ug/L	446.94 ppb	20:43:03
3	Tl 190.801†	-46.4	-9.7	1.3028 ug/L	1.3028 ppb	20:43:23
3	U 409.014†	-3037.1	-602.6	-21.538 ug/L	-21.538 ppb	20:43:03
3	V 292.402†	243.4	1897.5	12.264 ug/L	12.264 ppb	20:43:03
3	Zn 213.857†	7071.3	6120.5	63.701 ug/L	63.701 ppb	20:43:03
3	SiO2†	39453.8	38037.2	2910.7 ug/L	2910.7 ppb	20:43:39

Mean Data: 1202042578|960016|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	819068.3	103.57 %		1.179			1.14%
Sc Radial	4904.4	103 %		0.9			0.89%
Y 371.029	742897.4	105.08 %		1.018			0.97%
Y RADIAL	5331.2	105.8 %		0.93			0.88%
Ag 328.068†	-716.1	0.6443 ug/L		0.19497	0.6443 ppb	0.19497	30.26%
Al 396.153Radial†	4232.4	3875.4 ug/L		7.63	3875.4 ppb	7.63	0.20%
As 188.979†	0.1	7.0834 ug/L		3.23731	7.0834 ppb	3.23731	45.70%
B 249.677†	150.1	1.5129 ug/L		0.81993	1.5129 ppb	0.81993	54.20%
Ba 233.527†	4477.4	52.368 ug/L		0.6169	52.368 ppb	0.6169	1.18%
Be 313.107†	-1099.5	0.5833 ug/L		0.05048	0.5833 ppb	0.05048	8.65%
Ca 317.933Radial†	570.2	1020.4 ug/L		7.90	1020.4 ppb	7.90	0.77%
Cd 226.502†	122.6	0.2804 ug/L		0.07184	0.2804 ppb	0.07184	25.62%
Co 228.616†	130.5	2.7747 ug/L		0.12634	2.7747 ppb	0.12634	4.55%
Cr 267.716†	312.5	4.4567 ug/L		0.24400	4.4567 ppb	0.24400	5.47%
Cu 324.752†	1286.8	5.4776 ug/L		0.25168	5.4776 ppb	0.25168	4.59%
Fe 238.204 Radial†	1310.1	13597 ug/L		23.3	13597 ppb	23.3	0.17%
K 766.490 Radial†	4005.9	755.92 ug/L		4.408	755.92 ppb	4.408	0.58%

Mg 279.077 IEC†	21.1	819.09 ug/L	33.609	819.09 ppb	33.609	4.10%
Mn 257.610†	268542.7	423.21 ug/L	0.871	423.21 ppb	0.871	0.21%
Mo 202.031†	8.4	1.8292 ug/L	0.56708	1.8292 ppb	0.56708	31.00%
Na 589.592 Radial†	190.5	57.965 ug/L	10.5162	57.965 ppb	10.5162	18.14%
Ni 231.604†	149.9	4.6269 ug/L	0.38925	4.6269 ppb	0.38925	8.41%
P 214.914†	189.5	91.890 ug/L	4.1151	91.890 ppb	4.1151	4.48%
Pb 220.353†	96.3	15.150 ug/L	0.3970	15.150 ppb	0.3970	2.62%
S 181.975 Axial†	32.3	39.372 ug/L	1.0612	39.372 ppb	1.0612	2.70%
Sb 206.836†	-6.6	-4.2392 ug/L	2.36028	-4.2392 ppb	2.36028	55.68%
Se 196.026†	-48.9	1.7727 ug/L	3.75015	1.7727 ppb	3.75015	211.55%
Si 251.611†	37590.3	1340.6 ug/L	4.53	1340.6 ppb	4.53	0.34%
Sn 189.927†	1.8	-0.1871 ug/L	0.91810	-0.1871 ppb	0.91810	490.62%
Sr 421.552†	1127.6	8.0278 ug/L	0.13943	8.0278 ppb	0.13943	1.74%
Ti 334.940†	225330.5	446.48 ug/L	0.411	446.48 ppb	0.411	0.09%
Tl 190.801†	-9.0	1.5843 ug/L	1.13158	1.5843 ppb	1.13158	71.43%
U 409.014†	-633.2	-22.554 ug/L	2.7882	-22.554 ppb	2.7882	12.36%
V 292.402†	1871.4	12.064 ug/L	0.1729	12.064 ppb	0.1729	1.43%
Zn 213.857†	6078.9	63.247 ug/L	0.4619	63.247 ppb	0.4619	0.73%
SiO2†	37312.3	2855.2 ug/L	55.64	2855.2 ppb	55.64	1.95%

Sequence No.: 21

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/4/2010 20:45:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4495.4	4495.4	94.7 %		20:48:01
1	Y RADIAL	5001.8	5001.8	99.24 %		20:47:41
1	Al 396.153Radial†	5295.5	5675.4	5173.3 ug/L	5173.3 ppb	20:47:41
1	Ca 317.933Radial†	2784.9	2923.0	5230.9 ug/L	5230.9 ppb	20:48:01
1	Fe 238.204 Radial†	466.7	485.7	5055.3 ug/L	5055.3 ppb	20:48:01
1	K 766.490 Radial†	28815.3	28127.1	5305.4 ug/L	5305.4 ppb	20:47:41
1	Mg 279.077 IEC†	130.9	136.1	5363.7 ug/L	5363.7 ppb	20:48:01
1	Na 589.592 Radial†	26602.4	28833.7	8773.8 ug/L	8773.8 ppb	20:47:41
1	Sr 421.552†	66002.8	69691.2	496.57 ug/L	496.57 ppb	20:47:41
1	Sc 361.383	811483.8	811483.8	102.61 %		20:48:58
1	Y 371.029	716325.5	716325.5	101.32 %		20:48:58
1	Ag 328.068†	101161.0	98407.5	497.38 ug/L	497.38 ppb	20:49:03
1	As 188.979†	1142.2	1141.7	500.58 ug/L	500.58 ppb	20:49:23
1	B 249.677†	20055.1	19768.4	489.40 ug/L	489.40 ppb	20:49:03
1	Ba 233.527†	43956.1	42840.4	498.04 ug/L	498.04 ppb	20:49:03
1	Be 313.107†	1281853.4	1258532.0	493.51 ug/L	493.51 ppb	20:48:58
1	Cd 226.502†	36790.9	36036.3	495.28 ug/L	495.28 ppb	20:49:03
1	Co 228.616†	16710.7	16349.4	486.47 ug/L	486.47 ppb	20:49:23
1	Cr 267.716†	38121.6	37089.3	495.16 ug/L	495.16 ppb	20:49:03
1	Cu 324.752†	145951.8	134510.1	496.12 ug/L	496.12 ppb	20:49:03
1	Mn 257.610†	324568.1	315869.6	496.53 ug/L	496.53 ppb	20:49:03
1	Mo 202.031†	5514.1	5361.6	485.20 ug/L	485.20 ppb	20:49:23
1	Ni 231.604†	16573.9	16071.2	495.87 ug/L	495.87 ppb	20:49:03
1	P 214.914†	4799.9	4478.8	2332.8 ug/L	2332.8 ppb	20:49:23
1	Pb 220.353†	3091.8	3070.5	489.26 ug/L	489.26 ppb	20:49:23
1	S 181.975 Axial†	841.7	779.3	967.03 ug/L	967.03 ppb	20:49:23
1	Sb 206.836†	1291.9	1226.1	498.02 ug/L	498.02 ppb	20:49:23
1	Se 196.026†	827.6	825.5	503.40 ug/L	503.40 ppb	20:49:23
1	Si 251.611†	72016.1	69630.4	2477.3 ug/L	2477.3 ppb	20:49:03
1	Sn 189.927†	2164.0	2095.8	479.61 ug/L	479.61 ppb	20:49:23
1	Ti 334.940†	254588.4	249437.8	494.03 ug/L	494.03 ppb	20:49:03
1	Tl 190.801†	1065.3	1073.9	490.25 ug/L	490.25 ppb	20:49:23
1	U 409.014†	12943.7	14982.6	495.11 ug/L	495.11 ppb	20:49:03
1	V 292.402†	63616.7	63655.4	500.78 ug/L	500.78 ppb	20:49:03
1	Zn 213.857†	48174.4	46149.9	491.30 ug/L	491.30 ppb	20:49:03
1	SiO2†	71188.1	68814.4	5252.7 ug/L	5252.7 ppb	20:50:30
2	Sc Radial	4486.9	4486.9	94.5 %		20:48:26
2	Y RADIAL	5015.6	5015.6	99.51 %		20:48:06
2	Al 396.153Radial†	5348.4	5742.0	5234.0 ug/L	5234.0 ppb	20:48:06
2	Ca 317.933Radial†	2784.4	2928.1	5240.0 ug/L	5240.0 ppb	20:48:26
2	Fe 238.204 Radial†	469.0	489.0	5089.8 ug/L	5089.8 ppb	20:48:26
2	K 766.490 Radial†	28982.3	28361.7	5349.6 ug/L	5349.6 ppb	20:48:06
2	Mg 279.077 IEC†	128.9	134.3	5291.0 ug/L	5291.0 ppb	20:48:26
2	Na 589.592 Radial†	26799.2	29095.4	8853.4 ug/L	8853.4 ppb	20:48:06
2	Sr 421.552†	66329.2	70169.2	499.98 ug/L	499.98 ppb	20:48:06
2	Sc 361.383	808478.5	808478.5	102.23 %		20:49:29
2	Y 371.029	713164.5	713164.5	100.87 %		20:49:29
2	Ag 328.068†	100003.9	97642.2	493.54 ug/L	493.54 ppb	20:49:34
2	As 188.979†	1134.7	1138.5	499.18 ug/L	499.18 ppb	20:49:54
2	B 249.677†	19813.3	19604.6	485.30 ug/L	485.30 ppb	20:49:34
2	Ba 233.527†	43603.5	42654.7	495.88 ug/L	495.88 ppb	20:49:34
2	Be 313.107†	1279752.2	1261120.3	494.51 ug/L	494.51 ppb	20:49:29
2	Cd 226.502†	36627.5	36009.8	494.91 ug/L	494.91 ppb	20:49:34
2	Co 228.616†	16854.1	16550.2	492.46 ug/L	492.46 ppb	20:49:54
2	Cr 267.716†	37887.0	36997.9	493.94 ug/L	493.94 ppb	20:49:34
2	Cu 324.752†	143970.3	133100.6	490.93 ug/L	490.93 ppb	20:49:34
2	Mn 257.610†	322171.1	314700.8	494.70 ug/L	494.70 ppb	20:49:34
2	Mo 202.031†	5557.2	5423.7	490.81 ug/L	490.81 ppb	20:49:54
2	Ni 231.604†	16507.0	16065.8	495.70 ug/L	495.70 ppb	20:49:34

2	P 214.914†	4858.1	4553.1	2374.2 ug/L	2374.2 ppb	20:49:54
2	Pb 220.353†	3123.4	3112.6	495.98 ug/L	495.98 ppb	20:49:54
2	S 181.975 Axial†	855.6	795.8	987.61 ug/L	987.61 ppb	20:49:54
2	Sb 206.836†	1311.7	1250.2	507.69 ug/L	507.69 ppb	20:49:54
2	Se 196.026†	837.0	837.6	510.69 ug/L	510.69 ppb	20:49:54
2	Si 251.611†	71472.4	69359.5	2467.6 ug/L	2467.6 ppb	20:49:34
2	Sn 189.927†	2191.7	2130.7	487.59 ug/L	487.59 ppb	20:49:54
2	Ti 334.940†	252170.0	247994.4	491.18 ug/L	491.18 ppb	20:49:34
2	Tl 190.801†	1080.7	1092.7	498.74 ug/L	498.74 ppb	20:49:54
2	U 409.014†	12683.8	14775.3	488.24 ug/L	488.24 ppb	20:49:34
2	V 292.402†	62990.0	63272.9	497.87 ug/L	497.87 ppb	20:49:34
2	Zn 213.857†	47781.8	45940.5	489.05 ug/L	489.05 ppb	20:49:34
2	SiO2†	71392.5	69272.2	5287.5 ug/L	5287.5 ppb	20:50:35
3	Sc Radial	4478.3	4478.3	94.3 %		20:48:51
3	Y RADIAL	4943.3	4943.3	98.08 %		20:48:31
3	Al 396.153Radial†	5281.8	5682.3	5179.5 ug/L	5179.5 ppb	20:48:31
3	Ca 317.933Radial†	2762.9	2911.0	5209.4 ug/L	5209.4 ppb	20:48:51
3	Fe 238.204 Radial†	469.2	490.2	5101.8 ug/L	5101.8 ppb	20:48:51
3	K 766.490 Radial†	28789.7	28216.3	5322.2 ug/L	5322.2 ppb	20:48:31
3	Mg 279.077 IEC†	128.6	134.3	5290.5 ug/L	5290.5 ppb	20:48:51
3	Na 589.592 Radial†	26349.1	28672.6	8724.7 ug/L	8724.7 ppb	20:48:31
3	Sr 421.552†	65522.3	69448.4	494.84 ug/L	494.84 ppb	20:48:31
3	Sc 361.383	813529.8	813529.8	102.87 %		20:50:00
3	Y 371.029	718397.9	718397.9	101.61 %		20:50:00
3	Ag 328.068†	100134.8	97162.1	491.12 ug/L	491.12 ppb	20:50:05
3	As 188.979†	1121.5	1118.8	490.60 ug/L	490.60 ppb	20:50:25
3	B 249.677†	19860.1	19529.7	483.46 ug/L	483.46 ppb	20:50:05
3	Ba 233.527†	43522.1	42310.7	491.89 ug/L	491.89 ppb	20:50:05
3	Be 313.107†	1289567.5	1262888.9	495.20 ug/L	495.20 ppb	20:50:00
3	Cd 226.502†	36636.2	35795.7	491.97 ug/L	491.97 ppb	20:50:05
3	Co 228.616†	16727.9	16325.2	485.76 ug/L	485.76 ppb	20:50:25
3	Cr 267.716†	37846.7	36728.6	490.35 ug/L	490.35 ppb	20:50:05
3	Cu 324.752†	143970.4	132226.3	487.71 ug/L	487.71 ppb	20:50:05
3	Mn 257.610†	321611.0	312199.6	490.77 ug/L	490.77 ppb	20:50:05
3	Mo 202.031†	5528.8	5362.4	485.27 ug/L	485.27 ppb	20:50:25
3	Ni 231.604†	16480.7	15940.0	491.82 ug/L	491.82 ppb	20:50:05
3	P 214.914†	4802.9	4470.0	2329.7 ug/L	2329.7 ppb	20:50:25
3	Pb 220.353†	3083.7	3055.1	486.82 ug/L	486.82 ppb	20:50:25
3	S 181.975 Axial†	845.1	780.4	968.49 ug/L	968.49 ppb	20:50:25
3	Sb 206.836†	1286.2	1217.4	494.61 ug/L	494.61 ppb	20:50:25
3	Se 196.026†	824.1	820.1	500.26 ug/L	500.26 ppb	20:50:25
3	Si 251.611†	71389.5	68844.8	2449.3 ug/L	2449.3 ppb	20:50:05
3	Sn 189.927†	2173.0	2099.3	480.40 ug/L	480.40 ppb	20:50:25
3	Ti 334.940†	252204.2	246496.2	488.21 ug/L	488.21 ppb	20:50:05
3	Tl 190.801†	1073.7	1079.4	492.69 ug/L	492.69 ppb	20:50:25
3	U 409.014†	12659.7	14674.8	484.91 ug/L	484.91 ppb	20:50:05
3	V 292.402†	63032.0	62931.1	495.13 ug/L	495.13 ppb	20:50:05
3	Zn 213.857†	47747.4	45616.8	485.60 ug/L	485.60 ppb	20:50:05
3	SiO2†	71547.3	68989.0	5266.0 ug/L	5266.0 ppb	20:50:40

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	811164.0	102.57 %	0.321			0.31%
Sc Radial	4486.8	94.5 %	0.18			0.19%
Y 371.029	715962.6	101.27 %	0.373			0.37%
Y RADIAL	4986.9	98.94 %	0.761			0.77%
Ag 328.068†	97737.3	494.01 ug/L	3.155	494.01 ppb	3.155	0.64%
QC value within limits for Ag 328.068 Recovery = 98.80%						
Al 396.153Radial†	5699.9	5195.6 ug/L	33.40	5195.6 ppb	33.40	0.64%
QC value within limits for Al 396.153Radial Recovery = 103.91%						
As 188.979†	1133.0	496.79 ug/L	5.403	496.79 ppb	5.403	1.09%
QC value within limits for As 188.979 Recovery = 99.36%						
B 249.677†	19634.3	486.05 ug/L	3.041	486.05 ppb	3.041	0.63%
QC value within limits for B 249.677 Recovery = 97.21%						
Ba 233.527†	42601.9	495.27 ug/L	3.122	495.27 ppb	3.122	0.63%
QC value within limits for Ba 233.527 Recovery = 99.05%						
Be 313.107†	1260847.1	494.40 ug/L	0.851	494.40 ppb	0.851	0.17%
QC value within limits for Be 313.107 Recovery = 98.88%						
Ca 317.933Radial†	2920.7	5226.7 ug/L	15.73	5226.7 ppb	15.73	0.30%

QC value within limits for Ca 317.933 Radial Recovery = 104.53%

Cd 226.502†	35947.3	494.05 ug/L	1.817	494.05 ppb	1.817	0.37%
QC value within limits for Cd 226.502 Recovery = 98.81%						
Co 228.616†	16408.2	488.23 ug/L	3.682	488.23 ppb	3.682	0.75%
QC value within limits for Co 228.616 Recovery = 97.65%						
Cr 267.716†	36938.6	493.15 ug/L	2.502	493.15 ppb	2.502	0.51%
QC value within limits for Cr 267.716 Recovery = 98.63%						
Cu 324.752†	133279.0	491.58 ug/L	4.246	491.58 ppb	4.246	0.86%
QC value within limits for Cu 324.752 Recovery = 98.32%						
Fe 238.204 Radial†	488.3	5082.3 ug/L	24.13	5082.3 ppb	24.13	0.47%
QC value within limits for Fe 238.204 Radial Recovery = 101.65%						
K 766.490 Radial†	28235.1	5325.7 ug/L	22.34	5325.7 ppb	22.34	0.42%
QC value within limits for K 766.490 Radial Recovery = 106.51%						
Mg 279.077 IEC†	134.9	5315.1 ug/L	42.13	5315.1 ppb	42.13	0.79%
QC value within limits for Mg 279.077 IEC Recovery = 106.30%						
Mn 257.610†	314256.7	494.00 ug/L	2.942	494.00 ppb	2.942	0.60%
QC value within limits for Mn 257.610 Recovery = 98.80%						
Mo 202.031†	5382.6	487.09 ug/L	3.222	487.09 ppb	3.222	0.66%
QC value within limits for Mo 202.031 Recovery = 97.42%						
Na 589.592 Radial†	28867.2	8784.0 ug/L	64.92	8784.0 ppb	64.92	0.74%
QC value less than the lower limit for Na 589.592 Radial Recovery = 87.84%						
Ni 231.604†	16025.7	494.46 ug/L	2.291	494.46 ppb	2.291	0.46%
QC value within limits for Ni 231.604 Recovery = 98.89%						
P 214.914†	4500.6	2345.6 ug/L	24.86	2345.6 ppb	24.86	1.06%
QC value within limits for P 214.914 Recovery = 93.82%						
Pb 220.353†	3079.4	490.69 ug/L	4.742	490.69 ppb	4.742	0.97%
QC value within limits for Pb 220.353 Recovery = 98.14%						
S 181.975 Axial†	785.2	974.37 ug/L	11.483	974.37 ppb	11.483	1.18%
QC value within limits for S 181.975 Axial Recovery = 97.44%						
Sb 206.836†	1231.2	500.11 ug/L	6.783	500.11 ppb	6.783	1.36%
QC value within limits for Sb 206.836 Recovery = 100.02%						
Se 196.026†	827.7	504.78 ug/L	5.353	504.78 ppb	5.353	1.06%
QC value within limits for Se 196.026 Recovery = 100.96%						
Si 251.611†	69278.2	2464.7 ug/L	14.22	2464.7 ppb	14.22	0.58%
QC value within limits for Si 251.611 Recovery = 98.59%						
Sn 189.927†	2108.6	482.53 ug/L	4.399	482.53 ppb	4.399	0.91%
QC value within limits for Sn 189.927 Recovery = 96.51%						
Sr 421.552†	69769.6	497.13 ug/L	2.613	497.13 ppb	2.613	0.53%
QC value within limits for Sr 421.552 Recovery = 99.43%						
Ti 334.940†	247976.1	491.14 ug/L	2.909	491.14 ppb	2.909	0.59%
QC value within limits for Ti 334.940 Recovery = 98.23%						
Tl 190.801†	1082.0	493.89 ug/L	4.374	493.89 ppb	4.374	0.89%
QC value within limits for Tl 190.801 Recovery = 98.78%						
U 409.014†	14810.9	489.42 ug/L	5.202	489.42 ppb	5.202	1.06%
QC value within limits for U 409.014 Recovery = 97.88%						
V 292.402†	63286.5	497.93 ug/L	2.822	497.93 ppb	2.822	0.57%
QC value within limits for V 292.402 Recovery = 99.59%						
Zn 213.857†	45902.4	488.65 ug/L	2.870	488.65 ppb	2.870	0.59%
QC value within limits for Zn 213.857 Recovery = 97.73%						
SiO2†	69025.2	5268.7 ug/L	17.60	5268.7 ppb	17.60	0.33%
QC value within limits for SiO2 Recovery = 98.53%						

QC Failed. Continue with analysis.

Sequence No.: 22
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/4/2010 20:52:50
 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	4721.7	4721.7	99.4 %		20:54:42
1	Y RADIAL	5019.8	5019.8	99.60 %		20:54:42
1	Al 396.153Radial†	-84.7	-2.7	-2.4351 ug/L	-2.4351 ppb	20:55:02
1	Ca 317.933Radial†	23.5	5.4	9.5793 ug/L	9.5793 ppb	20:55:02
1	Fe 238.204 Radial†	8.7	1.4	14.906 ug/L	14.906 ppb	20:55:02
1	K 766.490 Radial†	2541.5	248.8	46.995 ug/L	46.995 ppb	20:54:42
1	Mg 279.077 IEC†	2.5	0.4	14.338 ug/L	14.338 ppb	20:55:02
1	Na 589.592 Radial†	-822.4	-89.9	-27.346 ug/L	-27.346 ppb	20:54:42
1	Sr 421.552†	52.9	34.3	0.2442 ug/L	0.2442 ppb	20:54:42
1	Sc 361.383	775745.1	775745.1	98.095 %		20:55:59
1	Y 371.029	694577.3	694577.3	98.244 %		20:55:59
1	Ag 328.068†	209.8	37.4	0.1940 ug/L	0.1940 ppb	20:55:59
1	As 188.979†	-30.4	-2.4	-1.0181 ug/L	-1.0181 ppb	20:56:19
1	B 249.677†	-145.8	75.6	1.8775 ug/L	1.8775 ppb	20:56:19
1	Ba 233.527†	5.7	9.8	0.1116 ug/L	0.1116 ppb	20:56:19
1	Be 313.107†	-9270.3	-117.8	-0.0460 ug/L	-0.0460 ppb	20:55:59
1	Cd 226.502†	-179.0	0.2	-0.0002 ug/L	-0.0002 ppb	20:56:19
1	Co 228.616†	-60.8	2.4	0.0702 ug/L	0.0702 ppb	20:56:19
1	Cr 267.716†	67.2	7.3	0.0990 ug/L	0.0990 ppb	20:56:19
1	Cu 324.752†	7755.0	181.9	0.6762 ug/L	0.6762 ppb	20:55:59
1	Mn 257.610†	479.6	58.4	0.0927 ug/L	0.0927 ppb	20:56:19
1	Mo 202.031†	8.6	-3.2	-0.2911 ug/L	-0.2911 ppb	20:56:19
1	Ni 231.604†	93.7	15.1	0.4650 ug/L	0.4650 ppb	20:56:19
1	P 214.914†	201.7	6.8	3.5495 ug/L	3.5495 ppb	20:56:19
1	Pb 220.353†	-65.2	-8.9	-1.4195 ug/L	-1.4195 ppb	20:56:19
1	S 181.975 Axial†	47.6	7.5	9.2972 ug/L	9.2972 ppb	20:56:19
1	Sb 206.836†	41.0	8.9	3.4771 ug/L	3.4771 ppb	20:56:19
1	Se 196.026†	-17.9	0.7	0.4341 ug/L	0.4341 ppb	20:56:19
1	Si 251.611†	756.2	219.7	7.8404 ug/L	7.8404 ppb	20:56:19
1	Sn 189.927†	11.2	-1.6	-0.3731 ug/L	-0.3731 ppb	20:56:19
1	Ti 334.940†	-1297.9	11.6	0.0268 ug/L	0.0268 ppb	20:55:59
1	Tl 190.801†	-24.6	10.7	4.8344 ug/L	4.8344 ppb	20:56:19
1	U 409.014†	-2569.3	-250.6	-8.3126 ug/L	-8.3126 ppb	20:55:59
1	V 292.402†	-1785.3	-160.6	-1.2695 ug/L	-1.2695 ppb	20:55:59
1	Zn 213.857†	766.7	-15.7	-0.1748 ug/L	-0.1748 ppb	20:56:19
1	SiO2†	744.2	198.3	15.184 ug/L	15.184 ppb	20:57:15
2	Sc Radial	4619.9	4619.9	97.3 %		20:55:07
2	Y RADIAL	4893.2	4893.2	97.08 %		20:55:07
2	Al 396.153Radial†	-85.3	-5.2	-4.7775 ug/L	-4.7775 ppb	20:55:27
2	Ca 317.933Radial†	22.5	4.9	8.7358 ug/L	8.7358 ppb	20:55:27
2	Fe 238.204 Radial†	8.3	1.2	12.743 ug/L	12.743 ppb	20:55:27
2	K 766.490 Radial†	2480.9	242.9	45.872 ug/L	45.872 ppb	20:55:07
2	Mg 279.077 IEC†	-0.2	-2.3	-92.292 ug/L	-92.292 ppb	20:55:27
2	Na 589.592 Radial†	-805.4	-90.7	-27.592 ug/L	-27.592 ppb	20:55:07
2	Sr 421.552†	25.5	7.3	0.0517 ug/L	0.0517 ppb	20:55:07
2	Sc 361.383	779871.4	779871.4	98.617 %		20:56:24
2	Y 371.029	697275.7	697275.7	98.626 %		20:56:24
2	Ag 328.068†	160.2	-14.0	-0.0648 ug/L	-0.0648 ppb	20:56:24
2	As 188.979†	-30.0	-1.8	-0.7854 ug/L	-0.7854 ppb	20:56:44
2	B 249.677†	-167.1	54.8	1.3586 ug/L	1.3586 ppb	20:56:44
2	Ba 233.527†	5.0	9.0	0.1034 ug/L	0.1034 ppb	20:56:44
2	Be 313.107†	-9268.7	-66.3	-0.0258 ug/L	-0.0258 ppb	20:56:24
2	Cd 226.502†	-180.1	-0.0	-0.0022 ug/L	-0.0022 ppb	20:56:44
2	Co 228.616†	-53.1	10.5	0.3136 ug/L	0.3136 ppb	20:56:44
2	Cr 267.716†	62.8	2.5	0.0348 ug/L	0.0348 ppb	20:56:44
2	Cu 324.752†	7753.2	138.2	0.5139 ug/L	0.5139 ppb	20:56:24
2	Mn 257.610†	464.8	40.8	0.0692 ug/L	0.0692 ppb	20:56:44
2	Mo 202.031†	13.0	1.2	0.1116 ug/L	0.1116 ppb	20:56:44
2	Ni 231.604†	99.9	20.8	0.6410 ug/L	0.6410 ppb	20:56:44

2	P 214.914†	206.7	10.8	5.7468 ug/L	5.7468 ppb	20:56:44
2	Pb 220.353†	-55.6	1.2	0.1827 ug/L	0.1827 ppb	20:56:44
2	S 181.975 Axial†	51.8	11.5	14.281 ug/L	14.281 ppb	20:56:44
2	Sb 206.836†	42.9	10.7	4.1810 ug/L	4.1810 ppb	20:56:44
2	Se 196.026†	-21.3	-2.6	-1.5064 ug/L	-1.5064 ppb	20:56:44
2	Si 251.611†	752.5	211.9	7.5547 ug/L	7.5547 ppb	20:56:44
2	Sn 189.927†	12.8	-0.1	-0.0269 ug/L	-0.0269 ppb	20:56:44
2	Ti 334.940†	-1287.2	29.5	0.0699 ug/L	0.0699 ppb	20:56:24
2	Tl 190.801†	-40.3	-5.2	-2.3467 ug/L	-2.3467 ppb	20:56:44
2	U 409.014†	-2519.7	-186.4	-6.1828 ug/L	-6.1828 ppb	20:56:24
2	V 292.402†	-1742.7	-107.8	-0.8509 ug/L	-0.8509 ppb	20:56:24
2	Zn 213.857†	773.5	-12.9	-0.1453 ug/L	-0.1453 ppb	20:56:44
2	SiO2†	754.1	204.4	15.637 ug/L	15.637 ppb	20:57:20
3	Sc Radial	4729.0	4729.0	99.6 %		20:55:32
3	Y RADIAL	5029.1	5029.1	99.78 %		20:55:32
3	Al 396.153Radial†	-78.5	3.7	3.3698 ug/L	3.3698 ppb	20:55:52
3	Ca 317.933Radial†	18.5	0.3	0.5211 ug/L	0.5211 ppb	20:55:52
3	Fe 238.204 Radial†	9.3	2.1	21.361 ug/L	21.361 ppb	20:55:52
3	K 766.490 Radial†	2657.9	361.7	68.320 ug/L	68.320 ppb	20:55:32
3	Mg 279.077 IEC†	4.3	2.2	86.056 ug/L	86.056 ppb	20:55:52
3	Na 589.592 Radial†	-826.3	-92.6	-28.166 ug/L	-28.166 ppb	20:55:32
3	Sr 421.552†	-21.2	-40.2	-0.2866 ug/L	-0.2866 ppb	20:55:32
3	Sc 361.383	782157.2	782157.2	98.906 %		20:56:50
3	Y 371.029	698268.0	698268.0	98.766 %		20:56:50
3	Ag 328.068†	164.5	-10.2	-0.0416 ug/L	-0.0416 ppb	20:56:50
3	As 188.979†	-30.8	-2.5	-1.0809 ug/L	-1.0809 ppb	20:57:10
3	B 249.677†	-154.8	67.7	1.6798 ug/L	1.6798 ppb	20:57:10
3	Ba 233.527†	17.0	21.2	0.2467 ug/L	0.2467 ppb	20:57:10
3	Be 313.107†	-9344.6	-115.5	-0.0453 ug/L	-0.0453 ppb	20:56:50
3	Cd 226.502†	-175.6	5.1	0.0674 ug/L	0.0674 ppb	20:57:10
3	Co 228.616†	-51.2	12.6	0.3765 ug/L	0.3765 ppb	20:57:10
3	Cr 267.716†	80.2	19.9	0.2668 ug/L	0.2668 ppb	20:57:10
3	Cu 324.752†	7744.4	106.4	0.3949 ug/L	0.3949 ppb	20:56:50
3	Mn 257.610†	470.4	45.2	0.0696 ug/L	0.0696 ppb	20:57:10
3	Mo 202.031†	18.4	6.6	0.5989 ug/L	0.5989 ppb	20:57:10
3	Ni 231.604†	100.9	21.5	0.6631 ug/L	0.6631 ppb	20:57:10
3	P 214.914†	192.3	-4.4	-2.4925 ug/L	-2.4925 ppb	20:57:10
3	Pb 220.353†	-76.6	-19.9	-3.1606 ug/L	-3.1606 ppb	20:57:10
3	S 181.975 Axial†	47.0	6.5	8.0810 ug/L	8.0810 ppb	20:57:10
3	Sb 206.836†	42.6	10.2	4.0104 ug/L	4.0104 ppb	20:57:10
3	Se 196.026†	-24.6	-5.9	-3.4625 ug/L	-3.4625 ppb	20:57:10
3	Si 251.611†	735.8	192.8	6.8694 ug/L	6.8694 ppb	20:57:10
3	Sn 189.927†	11.4	-1.5	-0.3540 ug/L	-0.3540 ppb	20:57:10
3	Ti 334.940†	-1344.5	-24.6	-0.0546 ug/L	-0.0546 ppb	20:56:50
3	Tl 190.801†	-29.0	6.3	2.8705 ug/L	2.8705 ppb	20:57:10
3	U 409.014†	-2424.1	-82.3	-2.7313 ug/L	-2.7313 ppb	20:56:50
3	V 292.402†	-1619.2	22.2	0.1743 ug/L	0.1743 ppb	20:56:50
3	Zn 213.857†	785.5	-3.1	-0.0409 ug/L	-0.0409 ppb	20:57:10
3	SiO2†	792.2	240.6	18.397 ug/L	18.397 ppb	20:57:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	779257.9	98.539 %	0.4109			0.42%
Sc Radial	4690.2	98.8 %	1.28			1.30%
Y 371.029	696707.0	98.545 %	0.2702			0.27%
Y RADIAL	4980.7	98.82 %	1.506			1.52%
Ag 328.068†	4.4	0.0292 ug/L	0.14318	0.0292 ppb	0.14318	490.76%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.4	-1.2809 ug/L	4.19450	-1.2809 ppb	4.19450	327.47%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.2	-0.9615 ug/L	0.15567	-0.9615 ppb	0.15567	16.19%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	66.0	1.6386 ug/L	0.26189	1.6386 ppb	0.26189	15.98%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	13.4	0.1539 ug/L	0.08045	0.1539 ppb	0.08045	52.27%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-99.9	-0.0390 ug/L	0.01148	-0.0390 ppb	0.01148	29.41%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.5	6.2788 ug/L	5.00405	6.2788 ppb	5.00405	79.70%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	1.8	0.0217 ug/L	0.03964	0.0217 ppb	0.03964	182.87%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	8.5	0.2534 ug/L	0.16174	0.2534 ppb	0.16174	63.82%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	9.9	0.1335 ug/L	0.11978	0.1335 ppb	0.11978	89.71%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	142.1	0.5283 ug/L	0.14117	0.5283 ppb	0.14117	26.72%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.6	16.337 ug/L	4.4833	16.337 ppb	4.4833	27.44%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	284.5	53.729 ug/L	12.6486	53.729 ppb	12.6486	23.54%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.1	2.7004 ug/L	89.74170	2.7004 ppb	89.74170	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	48.1	0.0771 ug/L	0.01343	0.0771 ppb	0.01343	17.41%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	1.5	0.1398 ug/L	0.44569	0.1398 ppb	0.44569	318.84%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-91.0	-27.702 ug/L	0.4209	-27.702 ppb	0.4209	1.52%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	19.1	0.5897 ug/L	0.10856	0.5897 ppb	0.10856	18.41%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	4.4	2.2679 ug/L	4.26656	2.2679 ppb	4.26656	188.13%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-9.2	-1.4658 ug/L	1.67212	-1.4658 ppb	1.67212	114.08%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	8.5	10.553 ug/L	3.2852	10.553 ppb	3.2852	31.13%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	9.9	3.8895 ug/L	0.36720	3.8895 ppb	0.36720	9.44%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.6	-1.5116 ug/L	1.94832	-1.5116 ppb	1.94832	128.89%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	208.1	7.4215 ug/L	0.49904	7.4215 ppb	0.49904	6.72%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.1	-0.2513 ug/L	0.19457	-0.2513 ppb	0.19457	77.41%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	0.4	0.0031 ug/L	0.26871	0.0031 ppb	0.26871	>999.9%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	5.5	0.0140 ug/L	0.06322	0.0140 ppb	0.06322	450.72%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	3.9	1.7861 ug/L	3.71134	1.7861 ppb	3.71134	207.79%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-173.1	-5.7422 ug/L	2.81658	-5.7422 ppb	2.81658	49.05%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-82.1	-0.6487 ug/L	0.74282	-0.6487 ppb	0.74282	114.51%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-10.6	-0.1203 ug/L	0.07035	-0.1203 ppb	0.07035	58.46%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	214.4	16.406 ug/L	1.7390	16.406 ppb	1.7390	10.60%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 23
 Sample ID: 246872002|960016|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 54
 Date Collected: 3/4/2010 20:59:35
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 246872002|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4959.4	4959.4	104 %		21:01:28
1	Y RADIAL	5911.2	5911.2	117.3 %		21:01:28
1	Al 396.153Radial†	14845.9	14295.3	13090 ug/L	13090 ppb	21:01:28
1	Ca 317.933Radial†	5233.1	4991.7	8932.9 ug/L	8932.9 ppb	21:01:28
1	Fe 238.204 Radial†	4820.7	4607.9	47824 ug/L	47824 ppb	21:01:28
1	K 766.490 Radial†	20058.9	16896.9	3187.0 ug/L	3187.0 ppb	21:01:28
1	Mg 279.077 IEC†	88.5	82.6	3205.2 ug/L	3205.2 ppb	21:01:48
1	Na 589.592 Radial†	1260.9	1944.2	591.60 ug/L	591.60 ppb	21:01:28
1	Sr 421.552†	9813.2	9375.9	66.744 ug/L	66.744 ppb	21:01:28
1	Sc 361.383	819261.2	819261.2	103.60 %		21:02:45
1	Y 371.029	816001.9	816001.9	115.42 %		21:02:45
1	Ag 328.068†	-2658.6	-2742.8	1.0934 ug/L	1.0934 ppb	21:02:45
1	As 188.979†	-31.6	-1.9	24.216 ug/L	24.216 ppb	21:03:05
1	B 249.677†	337.9	550.4	5.8891 ug/L	5.8891 ppb	21:02:45
1	Ba 233.527†	23403.1	22594.5	263.58 ug/L	263.58 ppb	21:02:45
1	Be 313.107†	-13568.7	-3765.1	2.1549 ug/L	2.1549 ppb	21:02:45
1	Cd 226.502†	226.4	401.2	0.5721 ug/L	0.5721 ppb	21:03:05
1	Co 228.616†	337.5	390.1	7.6844 ug/L	7.6844 ppb	21:03:05
1	Cr 267.716†	2485.7	2338.2	32.209 ug/L	32.209 ppb	21:03:05
1	Cu 324.752†	16082.4	7800.2	31.362 ug/L	31.362 ppb	21:02:45
1	Mn 257.610†	795570.1	767513.2	1210.4 ug/L	1210.4 ppb	21:02:45
1	Mo 202.031†	32.0	18.9	5.5270 ug/L	5.5270 ppb	21:03:05
1	Ni 231.604†	1025.5	909.4	28.070 ug/L	28.070 ppb	21:03:05
1	P 214.914†	1563.0	1309.9	669.56 ug/L	669.56 ppb	21:03:05
1	Pb 220.353†	236.1	285.4	44.776 ug/L	44.776 ppb	21:03:05
1	S 181.975 Axial†	658.9	595.0	736.61 ug/L	736.61 ppb	21:03:05
1	Sb 206.836†	39.7	5.4	-3.9146 ug/L	-3.9146 ppb	21:03:05
1	Se 196.026†	-208.9	-182.7	-0.1518 ug/L	-0.1518 ppb	21:03:05
1	Si 251.611†	130015.8	124949.8	4456.1 ug/L	4456.1 ppb	21:02:45
1	Sn 189.927†	-11.4	-24.1	-6.6648 ug/L	-6.6648 ppb	21:03:05
1	Ti 334.940†	834258.1	806623.0	1599.0 ug/L	1599.0 ppb	21:02:45
1	Tl 190.801†	-73.1	-34.8	3.0925 ug/L	3.0925 ppb	21:03:05
1	U 409.014†	-5848.3	-3276.6	-114.17 ug/L	-114.17 ppb	21:02:45
1	V 292.402†	4990.0	6476.0	41.499 ug/L	41.499 ppb	21:02:45
1	Zn 213.857†	22197.7	20629.6	214.29 ug/L	214.29 ppb	21:02:45
1	SiO2†	130153.4	125073.4	9570.9 ug/L	9570.9 ppb	21:04:02
2	Sc Radial	4896.4	4896.4	103 %		21:01:53
2	Y RADIAL	5858.9	5858.9	116.2 %		21:01:53
2	Al 396.153Radial†	14786.8	14420.9	13205 ug/L	13205 ppb	21:01:53
2	Ca 317.933Radial†	5208.4	5032.2	9005.3 ug/L	9005.3 ppb	21:01:53
2	Fe 238.204 Radial†	4787.9	4635.5	48110 ug/L	48110 ppb	21:01:53
2	K 766.490 Radial†	20005.4	17092.0	3223.8 ug/L	3223.8 ppb	21:01:53
2	Mg 279.077 IEC†	92.5	87.6	3401.8 ug/L	3401.8 ppb	21:02:13
2	Na 589.592 Radial†	1266.7	1965.3	598.03 ug/L	598.03 ppb	21:01:53
2	Sr 421.552†	9736.7	9422.5	67.076 ug/L	67.076 ppb	21:01:53
2	Sc 361.383	819226.6	819226.6	103.59 %		21:03:11
2	Y 371.029	814230.0	814230.0	115.17 %		21:03:11
2	Ag 328.068†	-2682.1	-2765.5	1.0625 ug/L	1.0625 ppb	21:03:11
2	As 188.979†	-29.9	-0.3	25.001 ug/L	25.001 ppb	21:03:31
2	B 249.677†	339.8	552.2	5.8881 ug/L	5.8881 ppb	21:03:11
2	Ba 233.527†	23505.8	22694.5	264.75 ug/L	264.75 ppb	21:03:11
2	Be 313.107†	-13537.0	-3735.0	2.1710 ug/L	2.1710 ppb	21:03:11
2	Cd 226.502†	229.2	403.9	0.5805 ug/L	0.5805 ppb	21:03:31
2	Co 228.616†	325.5	378.6	7.3362 ug/L	7.3362 ppb	21:03:31
2	Cr 267.716†	2457.4	2310.9	31.849 ug/L	31.849 ppb	21:03:31
2	Cu 324.752†	16010.4	7731.3	31.119 ug/L	31.119 ppb	21:03:11
2	Mn 257.610†	797695.9	769597.7	1213.7 ug/L	1213.7 ppb	21:03:11
2	Mo 202.031†	40.8	27.4	6.3230 ug/L	6.3230 ppb	21:03:31
2	Ni 231.604†	1019.7	903.8	27.897 ug/L	27.897 ppb	21:03:31

2	P 214.914†	1570.5	1317.2	673.35 ug/L	673.35 ppb	21:03:31
2	Pb 220.353†	214.5	264.6	41.470 ug/L	41.470 ppb	21:03:31
2	S 181.975 Axial†	651.7	588.1	728.07 ug/L	728.07 ppb	21:03:31
2	Sb 206.836†	47.3	12.8	-1.0321 ug/L	-1.0321 ppb	21:03:31
2	Se 196.026†	-201.7	-175.7	4.6427 ug/L	4.6427 ppb	21:03:31
2	Si 251.611†	130050.3	124988.4	4457.5 ug/L	4457.5 ppb	21:03:11
2	Sn 189.927†	-11.1	-23.8	-6.5948 ug/L	-6.5948 ppb	21:03:31
2	Ti 334.940†	835219.2	807584.7	1600.9 ug/L	1600.9 ppb	21:03:11
2	Tl 190.801†	-77.7	-39.3	1.1113 ug/L	1.1113 ppb	21:03:31
2	U 409.014†	-5625.0	-3061.3	-107.06 ug/L	-107.06 ppb	21:03:11
2	V 292.402†	5068.1	6551.6	42.070 ug/L	42.070 ppb	21:03:11
2	Zn 213.857†	22225.7	20657.5	214.55 ug/L	214.55 ppb	21:03:11
2	SiO2†	130769.4	125673.4	9616.8 ug/L	9616.8 ppb	21:04:08
3	Sc Radial	4982.0	4982.0	105 %		21:02:18
3	Y RADIAL	5926.5	5926.5	117.6 %		21:02:18
3	Al 396.153Radial†	14914.1	14295.9	13090 ug/L	13090 ppb	21:02:18
3	Ca 317.933Radial†	5232.9	4968.8	8891.8 ug/L	8891.8 ppb	21:02:18
3	Fe 238.204 Radial†	4811.1	4577.8	47512 ug/L	47512 ppb	21:02:18
3	K 766.490 Radial†	20131.5	16879.0	3183.6 ug/L	3183.6 ppb	21:02:18
3	Mg 279.077 IEC†	89.4	83.1	3225.7 ug/L	3225.7 ppb	21:02:38
3	Na 589.592 Radial†	1335.1	2009.4	611.45 ug/L	611.45 ppb	21:02:18
3	Sr 421.552†	9791.0	9312.0	66.289 ug/L	66.289 ppb	21:02:18
3	Sc 361.383	816721.1	816721.1	103.28 %		21:03:37
3	Y 371.029	811397.1	811397.1	114.77 %		21:03:37
3	Ag 328.068†	-2723.9	-2813.9	0.6415 ug/L	0.6415 ppb	21:03:37
3	As 188.979†	-35.4	-5.6	22.545 ug/L	22.545 ppb	21:03:57
3	B 249.677†	281.0	496.3	4.5943 ug/L	4.5943 ppb	21:03:37
3	Ba 233.527†	23354.8	22618.0	263.85 ug/L	263.85 ppb	21:03:37
3	Be 313.107†	-13466.0	-3706.3	2.1821 ug/L	2.1821 ppb	21:03:37
3	Cd 226.502†	235.5	410.6	0.7341 ug/L	0.7341 ppb	21:03:57
3	Co 228.616†	331.6	385.5	7.5464 ug/L	7.5464 ppb	21:03:57
3	Cr 267.716†	2463.5	2324.1	32.016 ug/L	32.016 ppb	21:03:57
3	Cu 324.752†	16000.5	7769.2	31.230 ug/L	31.230 ppb	21:03:37
3	Mn 257.610†	795545.9	769878.2	1214.1 ug/L	1214.1 ppb	21:03:37
3	Mo 202.031†	29.8	16.9	5.3176 ug/L	5.3176 ppb	21:03:57
3	Ni 231.604†	1001.8	889.6	27.456 ug/L	27.456 ppb	21:03:57
3	P 214.914†	1582.0	1333.0	682.36 ug/L	682.36 ppb	21:03:57
3	Pb 220.353†	211.2	262.0	41.076 ug/L	41.076 ppb	21:03:57
3	S 181.975 Axial†	655.1	593.2	734.46 ug/L	734.46 ppb	21:03:57
3	Sb 206.836†	44.1	9.8	-2.2423 ug/L	-2.2423 ppb	21:03:57
3	Se 196.026†	-202.9	-177.5	2.2447 ug/L	2.2447 ppb	21:03:57
3	Si 251.611†	129070.2	124424.5	4437.4 ug/L	4437.4 ppb	21:03:37
3	Sn 189.927†	-21.5	-33.9	-8.8891 ug/L	-8.8891 ppb	21:03:57
3	Ti 334.940†	832641.3	807562.0	1600.8 ug/L	1600.8 ppb	21:03:37
3	Tl 190.801†	-86.8	-48.4	-3.0196 ug/L	-3.0196 ppb	21:03:57
3	U 409.014†	-5773.5	-3221.7	-112.31 ug/L	-112.31 ppb	21:03:37
3	V 292.402†	5050.3	6549.4	42.113 ug/L	42.113 ppb	21:03:37
3	Zn 213.857†	22195.8	20694.4	215.04 ug/L	215.04 ppb	21:03:37
3	SiO2†	130821.4	126111.0	9650.3 ug/L	9650.3 ppb	21:04:13

Mean Data: 246872002|960016|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	818403.0	103.49 %		0.184				0.18%
Sc Radial	4945.9	104 %		0.9				0.90%
Y 371.029	813876.4	115.12 %		0.329				0.29%
Y RADIAL	5898.9	117.0 %		0.70				0.60%
Ag 328.068†	-2774.1	0.9325 ug/L		0.25247	0.9325 ppb		0.25247	27.08%
Al 396.153Radial†	14337.3	13128 ug/L		66.2	13128 ppb		66.2	0.50%
As 188.979†	-2.6	23.921 ug/L		1.2545	23.921 ppb		1.2545	5.24%
B 249.677†	533.0	5.4572 ug/L		0.74725	5.4572 ppb		0.74725	13.69%
Ba 233.527†	22635.6	264.06 ug/L		0.614	264.06 ppb		0.614	0.23%
Be 313.107†	-3735.4	2.1693 ug/L		0.01369	2.1693 ppb		0.01369	0.63%
Ca 317.933Radial†	4997.6	8943.3 ug/L		57.45	8943.3 ppb		57.45	0.64%
Cd 226.502†	405.2	0.6289 ug/L		0.09119	0.6289 ppb		0.09119	14.50%
Co 228.616†	384.7	7.5223 ug/L		0.17537	7.5223 ppb		0.17537	2.33%
Cr 267.716†	2324.4	32.025 ug/L		0.1801	32.025 ppb		0.1801	0.56%
Cu 324.752†	7766.9	31.237 ug/L		0.1216	31.237 ppb		0.1216	0.39%
Fe 238.204 Radial†	4607.1	47816 ug/L		299.2	47816 ppb		299.2	0.63%
K 766.490 Radial†	16956.0	3198.1 ug/L		22.30	3198.1 ppb		22.30	0.70%

Mg 279.077 IEC†	84.4	3277.6 ug/L	108.08	3277.6 ppb	108.08	3.30%
Mn 257.610†	768996.4	1212.7 ug/L	2.02	1212.7 ppb	2.02	0.17%
Mo 202.031†	21.1	5.7225 ug/L	0.53042	5.7225 ppb	0.53042	9.27%
Na 589.592 Radial†	1973.0	600.36 ug/L	10.125	600.36 ppb	10.125	1.69%
Ni 231.604†	900.9	27.808 ug/L	0.3166	27.808 ppb	0.3166	1.14%
P 214.914†	1320.0	675.09 ug/L	6.576	675.09 ppb	6.576	0.97%
Pb 220.353†	270.7	42.441 ug/L	2.0320	42.441 ppb	2.0320	4.79%
S 181.975 Axial†	592.1	733.05 ug/L	4.444	733.05 ppb	4.444	0.61%
Sb 206.836†	9.4	-2.3964 ug/L	1.44738	-2.3964 ppb	1.44738	60.40%
Se 196.026†	-178.6	2.2452 ug/L	2.39724	2.2452 ppb	2.39724	106.77%
Si 251.611†	124787.6	4450.3 ug/L	11.23	4450.3 ppb	11.23	0.25%
Sn 189.927†	-27.2	-7.3829 ug/L	1.30486	-7.3829 ppb	1.30486	17.67%
Sr 421.552†	9370.1	66.703 ug/L	0.3949	66.703 ppb	0.3949	0.59%
Ti 334.940†	807256.5	1600.2 ug/L	1.08	1600.2 ppb	1.08	0.07%
Tl 190.801†	-40.8	0.3948 ug/L	3.11843	0.3948 ppb	3.11843	789.94%
U 409.014†	-3186.5	-111.18 ug/L	3.687	-111.18 ppb	3.687	3.32%
V 292.402†	6525.7	41.894 ug/L	0.3432	41.894 ppb	0.3432	0.82%
Zn 213.857†	20660.5	214.63 ug/L	0.379	214.63 ppb	0.379	0.18%
SiO2†	125619.3	9612.7 ug/L	39.86	9612.7 ppb	39.86	0.41%

Sequence No.: 24

Sample ID: 246872003|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 55

Date Collected: 3/4/2010 21:06:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872003|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4951.3	4951.3	104 %		21:08:16
1	Y RADIAL	6079.0	6079.0	120.6 %		21:08:16
1	Al 396.153Radial†	20370.6	19616.1	17962 ug/L	17962 ppb	21:08:16
1	Ca 317.933Radial†	3498.1	3336.1	5970.0 ug/L	5970.0 ppb	21:08:36
1	Fe 238.204 Radial†	4622.4	4425.2	45928 ug/L	45928 ppb	21:08:16
1	K 766.490 Radial†	21093.6	17920.2	3381.1 ug/L	3381.1 ppb	21:08:16
1	Mg 279.077 IEC†	91.4	85.5	3321.0 ug/L	3321.0 ppb	21:08:36
1	Na 589.592 Radial†	530.8	1246.1	379.16 ug/L	379.16 ppb	21:08:16
1	Sr 421.552†	7068.8	6759.4	48.122 ug/L	48.122 ppb	21:08:16
1	Sc 361.383	826623.6	826623.6	104.53 %		21:09:33
1	Y 371.029	843824.2	843824.2	119.35 %		21:09:33
1	Ag 328.068†	-2409.5	-2481.6	1.8590 ug/L	1.8590 ppb	21:09:33
1	As 188.979†	-23.9	5.7	24.833 ug/L	24.833 ppb	21:09:54
1	B 249.677†	115.6	334.9	0.8306 ug/L	0.8306 ppb	21:09:33
1	Ba 233.527†	26626.0	25476.5	296.94 ug/L	296.94 ppb	21:09:33
1	Be 313.107†	-10852.6	-1050.0	2.6253 ug/L	2.6253 ppb	21:09:33
1	Cd 226.502†	208.4	382.0	0.5062 ug/L	0.5062 ppb	21:09:54
1	Co 228.616†	402.8	449.7	10.037 ug/L	10.037 ppb	21:09:54
1	Cr 267.716†	4277.0	4030.5	54.739 ug/L	54.739 ppb	21:09:54
1	Cu 324.752†	15760.3	7353.8	29.624 ug/L	29.624 ppb	21:09:33
1	Mn 257.610†	1158143.2	1107538.9	1744.4 ug/L	1744.4 ppb	21:09:33
1	Mo 202.031†	27.9	14.7	4.9650 ug/L	4.9650 ppb	21:09:54
1	Ni 231.604†	1319.0	1181.4	36.464 ug/L	36.464 ppb	21:09:54
1	P 214.914†	1072.5	827.2	410.84 ug/L	410.84 ppb	21:09:54
1	Pb 220.353†	330.3	373.5	60.051 ug/L	60.051 ppb	21:09:54
1	S 181.975 Axial†	224.8	174.0	212.83 ug/L	212.83 ppb	21:09:54
1	Sb 206.836†	49.5	14.5	0.4338 ug/L	0.4338 ppb	21:09:54
1	Se 196.026†	-202.5	-174.8	0.7864 ug/L	0.7864 ppb	21:09:54
1	Si 251.611†	198851.6	189685.7	6764.8 ug/L	6764.8 ppb	21:09:33
1	Sn 189.927†	5.0	-8.3	-3.4635 ug/L	-3.4635 ppb	21:09:54
1	Ti 334.940†	704222.4	675048.4	1337.9 ug/L	1337.9 ppb	21:09:33
1	Tl 190.801†	-79.7	-40.5	0.8901 ug/L	0.8901 ppb	21:09:54
1	U 409.014†	-6410.7	-3764.4	-130.18 ug/L	-130.18 ppb	21:09:33
1	V 292.402†	4466.6	5932.4	37.787 ug/L	37.787 ppb	21:09:54
1	Zn 213.857†	21851.5	20107.5	208.92 ug/L	208.92 ppb	21:09:33
1	SiO2†	197655.9	188532.6	14427 ug/L	14427 ppb	21:10:51
2	Sc Radial	4963.2	4963.2	105 %		21:08:41
2	Y RADIAL	6067.6	6067.6	120.4 %		21:08:41
2	Al 396.153Radial†	20371.3	19570.1	17919 ug/L	17919 ppb	21:08:41
2	Ca 317.933Radial†	3535.8	3364.2	6020.3 ug/L	6020.3 ppb	21:09:01
2	Fe 238.204 Radial†	4630.4	4422.3	45898 ug/L	45898 ppb	21:08:41
2	K 766.490 Radial†	21251.2	18022.6	3400.4 ug/L	3400.4 ppb	21:08:41
2	Mg 279.077 IEC†	96.4	90.1	3501.1 ug/L	3501.1 ppb	21:09:01
2	Na 589.592 Radial†	508.0	1223.1	372.16 ug/L	372.16 ppb	21:08:41
2	Sr 421.552†	6953.0	6632.4	47.217 ug/L	47.217 ppb	21:08:41
2	Sc 361.383	825792.0	825792.0	104.42 %		21:09:59
2	Y 371.029	843170.8	843170.8	119.26 %		21:09:59
2	Ag 328.068†	-2563.1	-2631.0	1.1070 ug/L	1.1070 ppb	21:09:59
2	As 188.979†	-14.8	14.5	28.667 ug/L	28.667 ppb	21:10:19
2	B 249.677†	133.5	352.1	1.2646 ug/L	1.2646 ppb	21:09:59
2	Ba 233.527†	26716.4	25588.7	298.24 ug/L	298.24 ppb	21:09:59
2	Be 313.107†	-10894.1	-1100.1	2.6176 ug/L	2.6176 ppb	21:09:59
2	Cd 226.502†	210.1	383.8	0.5333 ug/L	0.5333 ppb	21:10:19
2	Co 228.616†	406.7	453.8	10.149 ug/L	10.149 ppb	21:10:19
2	Cr 267.716†	4269.8	4027.7	54.705 ug/L	54.705 ppb	21:10:19
2	Cu 324.752†	15913.1	7515.3	30.223 ug/L	30.223 ppb	21:09:59
2	Mn 257.610†	1163611.1	1113890.9	1754.4 ug/L	1754.4 ppb	21:09:59
2	Mo 202.031†	30.4	17.2	5.1875 ug/L	5.1875 ppb	21:10:19
2	Ni 231.604†	1334.2	1197.2	36.954 ug/L	36.954 ppb	21:10:19

2	P 214.914†	1073.0	828.7	411.55 ug/L	411.55 ppb	21:10:19
2	Pb 220.353†	318.1	362.1	58.240 ug/L	58.240 ppb	21:10:19
2	S 181.975 Axial†	230.1	179.3	219.34 ug/L	219.34 ppb	21:10:19
2	Sb 206.836†	41.0	6.4	-2.7217 ug/L	-2.7217 ppb	21:10:19
2	Se 196.026†	-198.0	-170.6	3.1630 ug/L	3.1630 ppb	21:10:19
2	Si 251.611†	199871.1	190853.5	6806.5 ug/L	6806.5 ppb	21:09:59
2	Sn 189.927†	16.1	2.4	-1.0235 ug/L	-1.0235 ppb	21:10:19
2	Ti 334.940†	706275.6	677693.1	1343.1 ug/L	1343.1 ppb	21:09:59
2	Tl 190.801†	-92.9	-53.3	-4.7941 ug/L	-4.7941 ppb	21:10:19
2	U 409.014†	-6672.0	-4020.7	-138.67 ug/L	-138.67 ppb	21:09:59
2	V 292.402†	4505.1	5973.6	38.096 ug/L	38.096 ppb	21:10:19
2	Zn 213.857†	21988.9	20260.2	210.56 ug/L	210.56 ppb	21:09:59
2	SiO2†	199961.7	190931.2	14611 ug/L	14611 ppb	21:10:56
3	Sc Radial	4978.8	4978.8	105 %		21:09:06
3	Y RADIAL	6075.2	6075.2	120.5 %		21:09:06
3	Al 396.153Radial†	20471.2	19604.3	17951 ug/L	17951 ppb	21:09:06
3	Ca 317.933Radial†	3567.7	3384.0	6055.8 ug/L	6055.8 ppb	21:09:26
3	Fe 238.204 Radial†	4639.3	4416.8	45841 ug/L	45841 ppb	21:09:06
3	K 766.490 Radial†	21175.8	17887.0	3374.8 ug/L	3374.8 ppb	21:09:06
3	Mg 279.077 IEC†	94.3	87.8	3411.3 ug/L	3411.3 ppb	21:09:26
3	Na 589.592 Radial†	456.3	1172.2	356.69 ug/L	356.69 ppb	21:09:06
3	Sr 421.552†	6984.6	6641.7	47.283 ug/L	47.283 ppb	21:09:06
3	Sc 361.383	823199.2	823199.2	104.10 %		21:10:25
3	Y 371.029	841118.4	841118.4	118.97 %		21:10:25
3	Ag 328.068†	-2446.5	-2526.7	1.6098 ug/L	1.6098 ppb	21:10:25
3	As 188.979†	-22.9	6.6	25.234 ug/L	25.234 ppb	21:10:45
3	B 249.677†	-5.9	218.6	-2.0469 ug/L	-2.0469 ppb	21:10:25
3	Ba 233.527†	26656.0	25611.3	298.50 ug/L	298.50 ppb	21:10:25
3	Be 313.107†	-10760.8	-1004.9	2.6570 ug/L	2.6570 ppb	21:10:25
3	Cd 226.502†	210.0	384.4	0.5470 ug/L	0.5470 ppb	21:10:45
3	Co 228.616†	404.4	452.9	10.120 ug/L	10.120 ppb	21:10:45
3	Cr 267.716†	4254.5	4025.9	54.678 ug/L	54.678 ppb	21:10:45
3	Cu 324.752†	15749.2	7405.8	29.814 ug/L	29.814 ppb	21:10:25
3	Mn 257.610†	1160879.6	1114776.7	1755.8 ug/L	1755.8 ppb	21:10:25
3	Mo 202.031†	30.0	16.9	5.1570 ug/L	5.1570 ppb	21:10:45
3	Ni 231.604†	1325.4	1192.8	36.816 ug/L	36.816 ppb	21:10:45
3	P 214.914†	1052.6	812.3	402.78 ug/L	402.78 ppb	21:10:45
3	Pb 220.353†	310.0	355.3	57.164 ug/L	57.164 ppb	21:10:45
3	S 181.975 Axial†	233.2	183.0	223.90 ug/L	223.90 ppb	21:10:45
3	Sb 206.836†	46.1	11.4	-0.7803 ug/L	-0.7803 ppb	21:10:45
3	Se 196.026†	-201.9	-175.0	0.4704 ug/L	0.4704 ppb	21:10:45
3	Si 251.611†	199411.2	191014.7	6812.2 ug/L	6812.2 ppb	21:10:25
3	Sn 189.927†	9.6	-3.9	-2.4432 ug/L	-2.4432 ppb	21:10:45
3	Ti 334.940†	704553.4	678168.9	1344.1 ug/L	1344.1 ppb	21:10:25
3	Tl 190.801†	-84.4	-45.4	-1.2194 ug/L	-1.2194 ppb	21:10:45
3	U 409.014†	-6533.2	-3907.5	-134.91 ug/L	-134.91 ppb	21:10:25
3	V 292.402†	4496.7	5979.1	38.152 ug/L	38.152 ppb	21:10:45
3	Zn 213.857†	21944.7	20284.1	210.82 ug/L	210.82 ppb	21:10:25
3	SiO2†	199759.9	191340.5	14642 ug/L	14642 ppb	21:11:01

Mean Data: 246872003|960016|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825204.9	104.35 %		0.226			0.22%
Sc Radial	4964.4	105 %		0.3			0.28%
Y 371.029	842704.5	119.20 %		0.200			0.17%
Y RADIAL	6073.9	120.5 %		0.12			0.10%
Ag 328.068†	-2546.4	1.5253 ug/L		0.38310	1.5253 ppb	0.38310	25.12%
Al 396.153Radial†	19596.8	17944 ug/L		21.9	17944 ppb	21.9	0.12%
As 188.979†	8.9	26.245 ug/L		2.1072	26.245 ppb	2.1072	8.03%
B 249.677†	301.9	0.0161 ug/L		1.79972	0.0161 ppb	1.79972	>999.9%
Ba 233.527†	25558.8	297.89 ug/L		0.836	297.89 ppb	0.836	0.28%
Be 313.107†	-1051.7	2.6333 ug/L		0.02087	2.6333 ppb	0.02087	0.79%
Ca 317.933Radial†	3361.4	6015.4 ug/L		43.10	6015.4 ppb	43.10	0.72%
Cd 226.502†	383.4	0.5288 ug/L		0.02072	0.5288 ppb	0.02072	3.92%
Co 228.616†	452.1	10.102 ug/L		0.0582	10.102 ppb	0.0582	0.58%
Cr 267.716†	4028.0	54.707 ug/L		0.0307	54.707 ppb	0.0307	0.06%
Cu 324.752†	7425.0	29.887 ug/L		0.3059	29.887 ppb	0.3059	1.02%
Fe 238.204 Radial†	4421.4	45889 ug/L		44.2	45889 ppb	44.2	0.10%
K 766.490 Radial†	17943.3	3385.4 ug/L		13.35	3385.4 ppb	13.35	0.39%

Mg 279.077 IEC†	87.8	3411.1 ug/L	90.10	3411.1 ppb	90.10	2.64%
Mn 257.610†	1112068.8	1751.5 ug/L	6.20	1751.5 ppb	6.20	0.35%
Mo 202.031†	16.3	5.1032 ug/L	0.12066	5.1032 ppb	0.12066	2.36%
Na 589.592 Radial†	1213.8	369.34 ug/L	11.497	369.34 ppb	11.497	3.11%
Ni 231.604†	1190.5	36.745 ug/L	0.2528	36.745 ppb	0.2528	0.69%
P 214.914†	822.7	408.39 ug/L	4.872	408.39 ppb	4.872	1.19%
Pb 220.353†	363.6	58.485 ug/L	1.4589	58.485 ppb	1.4589	2.49%
S 181.975 Axial†	178.8	218.69 ug/L	5.567	218.69 ppb	5.567	2.55%
Sb 206.836†	10.8	-1.0227 ug/L	1.59165	-1.0227 ppb	1.59165	155.63%
Se 196.026†	-173.4	1.4733 ug/L	1.47183	1.4733 ppb	1.47183	99.90%
Si 251.611†	190518.0	6794.5 ug/L	25.86	6794.5 ppb	25.86	0.38%
Sn 189.927†	-3.3	-2.3101 ug/L	1.22544	-2.3101 ppb	1.22544	53.05%
Sr 421.552†	6677.9	47.540 ug/L	0.5046	47.540 ppb	0.5046	1.06%
Ti 334.940†	676970.1	1341.7 ug/L	3.33	1341.7 ppb	3.33	0.25%
Tl 190.801†	-46.4	-1.7078 ug/L	2.87340	-1.7078 ppb	2.87340	168.25%
U 409.014†	-3897.5	-134.59 ug/L	4.258	-134.59 ppb	4.258	3.16%
V 292.402†	5961.7	38.012 ug/L	0.1965	38.012 ppb	0.1965	0.52%
Zn 213.857†	20217.3	210.10 ug/L	1.033	210.10 ppb	1.033	0.49%
SiO2†	190268.1	14560 ug/L	116.1	14560 ppb	116.1	0.80%

Sequence No.: 25

Sample ID: 246872004|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 56

Date Collected: 3/4/2010 21:13:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872004|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4906.7	4906.7	103	%		21:15:05
1	Y RADIAL	6382.0	6382.0	126.6	%		21:15:05
1	Al 396.153Radial†	18722.1	18198.5	16664	ug/L	16664 ppb	21:15:05
1	Ca 317.933Radial†	2781.2	2672.9	4783.2	ug/L	4783.2 ppb	21:15:25
1	Fe 238.204 Radial†	6227.2	6018.3	62462	ug/L	62462 ppb	21:15:05
1	K 766.490 Radial†	19078.8	16154.5	3047.7	ug/L	3047.7 ppb	21:15:05
1	Mg 279.077 IEC†	86.1	81.2	3133.6	ug/L	3133.6 ppb	21:15:25
1	Na 589.592 Radial†	834.3	1544.4	469.94	ug/L	469.94 ppb	21:15:05
1	Sr 421.552†	5734.5	5529.9	39.370	ug/L	39.370 ppb	21:15:05
1	Sc 361.383	821502.9	821502.9	103.88	%		21:16:23
1	Y 371.029	888093.4	888093.4	125.62	%		21:16:23
1	Ag 328.068†	-3521.3	-3566.2	1.6568	ug/L	1.6568 ppb	21:16:28
1	As 188.979†	-23.0	6.5	32.582	ug/L	32.582 ppb	21:16:48
1	B 249.677†	175.5	393.1	-0.4089	ug/L	-0.4089 ppb	21:16:28
1	Ba 233.527†	26294.4	25316.1	295.62	ug/L	295.62 ppb	21:16:28
1	Be 313.107†	-11618.6	-1852.1	3.2460	ug/L	3.2460 ppb	21:16:28
1	Cd 226.502†	354.8	524.2	0.7502	ug/L	0.7502 ppb	21:16:48
1	Co 228.616†	450.0	497.6	10.343	ug/L	10.343 ppb	21:16:48
1	Cr 267.716†	7854.9	7500.3	101.39	ug/L	101.39 ppb	21:16:48
1	Cu 324.752†	21841.8	13302.1	52.490	ug/L	52.490 ppb	21:16:28
1	Mn 257.610†	1610401.6	1549807.6	2440.9	ug/L	2440.9 ppb	21:16:23
1	Mo 202.031†	53.5	39.6	8.4818	ug/L	8.4818 ppb	21:16:48
1	Ni 231.604†	2106.4	1947.2	60.108	ug/L	60.108 ppb	21:16:48
1	P 214.914†	1330.6	1082.0	531.14	ug/L	531.14 ppb	21:16:48
1	Pb 220.353†	374.0	417.6	65.381	ug/L	65.381 ppb	21:16:48
1	S 181.975 Axial†	165.9	118.7	144.33	ug/L	144.33 ppb	21:16:48
1	Sb 206.836†	38.8	4.5	-4.7568	ug/L	-4.7568 ppb	21:16:48
1	Se 196.026†	-257.4	-228.8	5.5833	ug/L	5.5833 ppb	21:16:48
1	Si 251.611†	104281.7	99834.6	3560.4	ug/L	3560.4 ppb	21:16:28
1	Sn 189.927†	41.7	27.1	3.4510	ug/L	3.4510 ppb	21:16:48
1	Ti 334.940†	915701.9	882826.6	1749.4	ug/L	1749.4 ppb	21:16:23
1	Tl 190.801†	-106.8	-67.1	-4.4463	ug/L	-4.4463 ppb	21:16:48
1	U 409.014†	-9247.6	-6533.5	-223.98	ug/L	-223.98 ppb	21:16:23
1	V 292.402†	6844.9	8248.5	52.764	ug/L	52.764 ppb	21:16:28
1	Zn 213.857†	36325.2	34170.8	357.37	ug/L	357.37 ppb	21:16:28
1	SiO2†	102979.8	98572.3	7542.9	ug/L	7542.9 ppb	21:17:55
2	Sc Radial	4842.6	4842.6	102	%		21:15:30
2	Y RADIAL	6235.0	6235.0	123.7	%		21:15:30
2	Al 396.153Radial†	18468.9	18190.3	16656	ug/L	16656 ppb	21:15:30
2	Ca 317.933Radial†	2810.9	2737.7	4899.2	ug/L	4899.2 ppb	21:15:50
2	Fe 238.204 Radial†	6173.2	6045.3	62742	ug/L	62742 ppb	21:15:30
2	K 766.490 Radial†	18650.1	15978.7	3014.5	ug/L	3014.5 ppb	21:15:30
2	Mg 279.077 IEC†	92.0	88.1	3404.6	ug/L	3404.6 ppb	21:15:50
2	Na 589.592 Radial†	765.6	1487.7	452.68	ug/L	452.68 ppb	21:15:30
2	Sr 421.552†	5649.6	5520.2	39.299	ug/L	39.299 ppb	21:15:30
2	Sc 361.383	832681.0	832681.0	105.29	%		21:16:54
2	Y 371.029	899783.8	899783.8	127.27	%		21:16:54
2	Ag 328.068†	-3546.5	-3544.6	1.8518	ug/L	1.8518 ppb	21:16:59
2	As 188.979†	-29.7	0.4	30.021	ug/L	30.021 ppb	21:17:19
2	B 249.677†	11.4	235.1	-4.3854	ug/L	-4.3854 ppb	21:16:59
2	Ba 233.527†	26569.2	25237.2	294.71	ug/L	294.71 ppb	21:16:59
2	Be 313.107†	-11597.6	-1681.9	3.3149	ug/L	3.3149 ppb	21:16:59
2	Cd 226.502†	359.9	524.4	0.7225	ug/L	0.7225 ppb	21:17:19
2	Co 228.616†	453.0	494.6	10.248	ug/L	10.248 ppb	21:17:19
2	Cr 267.716†	7872.9	7415.8	100.27	ug/L	100.27 ppb	21:17:19
2	Cu 324.752†	21828.3	13007.0	51.418	ug/L	51.418 ppb	21:16:59
2	Mn 257.610†	1629704.3	1547329.0	2437.0	ug/L	2437.0 ppb	21:16:54
2	Mo 202.031†	53.1	38.4	8.4041	ug/L	8.4041 ppb	21:17:19
2	Ni 231.604†	2100.8	1914.7	59.103	ug/L	59.103 ppb	21:17:19

2	P 214.914†	1340.2	1074.0	526.75 ug/L	526.75 ppb	21:17:19
2	Pb 220.353†	381.1	419.4	65.656 ug/L	65.656 ppb	21:17:19
2	S 181.975 Axial†	168.6	119.1	144.80 ug/L	144.80 ppb	21:17:19
2	Sb 206.836†	55.5	19.9	1.2229 ug/L	1.2229 ppb	21:17:19
2	Se 196.026†	-264.4	-232.2	4.2191 ug/L	4.2191 ppb	21:17:19
2	Si 251.611†	104977.8	99148.2	3535.9 ug/L	3535.9 ppb	21:16:59
2	Sn 189.927†	32.2	17.5	1.2744 ug/L	1.2744 ppb	21:17:19
2	Ti 334.940†	928705.3	883342.8	1750.4 ug/L	1750.4 ppb	21:16:54
2	Tl 190.801†	-109.9	-68.7	-5.1721 ug/L	-5.1721 ppb	21:17:19
2	U 409.014†	-9517.7	-6670.5	-228.55 ug/L	-228.55 ppb	21:16:54
2	V 292.402†	6879.8	8193.2	52.288 ug/L	52.288 ppb	21:16:59
2	Zn 213.857†	36524.8	33891.0	354.33 ug/L	354.33 ppb	21:16:59
2	SiO2†	101977.7	96289.8	7368.3 ug/L	7368.3 ppb	21:18:00
3	Sc Radial	4917.0	4917.0	104 %		21:15:55
3	Y RADIAL	6330.3	6330.3	125.6 %		21:15:55
3	Al 396.153Radial†	18691.5	18131.1	16602 ug/L	16602 ppb	21:15:55
3	Ca 317.933Radial†	2823.0	2707.7	4845.5 ug/L	4845.5 ppb	21:16:15
3	Fe 238.204 Radial†	6238.6	6016.8	62447 ug/L	62447 ppb	21:15:55
3	K 766.490 Radial†	19020.0	16059.1	3029.7 ug/L	3029.7 ppb	21:15:55
3	Mg 279.077 IEC†	90.5	85.2	3293.7 ug/L	3293.7 ppb	21:16:15
3	Na 589.592 Radial†	791.7	1501.6	456.91 ug/L	456.91 ppb	21:15:55
3	Sr 421.552†	5755.4	5538.5	39.431 ug/L	39.431 ppb	21:15:55
3	Sc 361.383	837940.6	837940.6	105.96 %		21:17:25
3	Y 371.029	903602.2	903602.2	127.81 %		21:17:25
3	Ag 328.068†	-3564.2	-3540.2	1.7729 ug/L	1.7729 ppb	21:17:30
3	As 188.979†	-26.0	4.1	31.565 ug/L	31.565 ppb	21:17:50
3	B 249.677†	112.5	330.4	-1.9657 ug/L	-1.9657 ppb	21:17:30
3	Ba 233.527†	26107.5	24643.2	287.81 ug/L	287.81 ppb	21:17:30
3	Be 313.107†	-11497.9	-1518.7	3.3843 ug/L	3.3843 ppb	21:17:30
3	Cd 226.502†	343.2	506.5	0.5082 ug/L	0.5082 ppb	21:17:50
3	Co 228.616†	437.9	477.6	9.7382 ug/L	9.7382 ppb	21:17:50
3	Cr 267.716†	7812.2	7311.6	98.865 ug/L	98.865 ppb	21:17:50
3	Cu 324.752†	21581.0	12643.4	50.057 ug/L	50.057 ppb	21:17:30
3	Mn 257.610†	1644595.9	1551668.1	2443.8 ug/L	2443.8 ppb	21:17:25
3	Mo 202.031†	50.0	35.2	8.0893 ug/L	8.0893 ppb	21:17:50
3	Ni 231.604†	2097.3	1898.8	58.613 ug/L	58.613 ppb	21:17:50
3	P 214.914†	1304.4	1032.2	504.59 ug/L	504.59 ppb	21:17:50
3	Pb 220.353†	376.6	412.9	64.635 ug/L	64.635 ppb	21:17:50
3	S 181.975 Axial†	162.3	112.1	136.16 ug/L	136.16 ppb	21:17:50
3	Sb 206.836†	48.7	13.1	-1.4075 ug/L	-1.4075 ppb	21:17:50
3	Se 196.026†	-262.8	-229.1	5.3955 ug/L	5.3955 ppb	21:17:50
3	Si 251.611†	103021.0	96675.6	3447.7 ug/L	3447.7 ppb	21:17:30
3	Sn 189.927†	41.9	26.4	3.3206 ug/L	3.3206 ppb	21:17:50
3	Ti 334.940†	935866.8	884565.4	1752.9 ug/L	1752.9 ppb	21:17:25
3	Tl 190.801†	-99.8	-58.5	-0.5005 ug/L	-0.5005 ppb	21:17:50
3	U 409.014†	-9306.6	-6414.6	-220.03 ug/L	-220.03 ppb	21:17:25
3	V 292.402†	6786.6	8064.3	51.338 ug/L	51.338 ppb	21:17:30
3	Zn 213.857†	36011.6	33188.9	346.84 ug/L	346.84 ppb	21:17:30
3	SiO2†	103942.9	97536.5	7463.7 ug/L	7463.7 ppb	21:18:05

Mean Data: 246872004|960016|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830708.2	105.04 %		1.062			1.01%
Sc Radial	4888.8	103 %		0.8			0.83%
Y 371.029	897159.8	126.90 %		1.143			0.90%
Y RADIAL	6315.8	125.3 %		1.48			1.18%
Ag 328.068†	-3550.3	1.7605 ug/L		0.09812	1.7605 ppb	0.09812	5.57%
Al 396.153Radial†	18173.3	16640 ug/L		33.6	16640 ppb	33.6	0.20%
As 188.979†	3.6	31.389 ug/L		1.2891	31.389 ppb	1.2891	4.11%
B 249.677†	319.5	-2.2533 ug/L		2.00377	-2.2533 ppb	2.00377	88.92%
Ba 233.527†	25065.5	292.72 ug/L		4.270	292.72 ppb	4.270	1.46%
Be 313.107†	-1684.2	3.3151 ug/L		0.06912	3.3151 ppb	0.06912	2.09%
Ca 317.933Radial†	2706.1	4842.7 ug/L		58.04	4842.7 ppb	58.04	1.20%
Cd 226.502†	518.4	0.6603 ug/L		0.13245	0.6603 ppb	0.13245	20.06%
Co 228.616†	489.9	10.110 ug/L		0.3253	10.110 ppb	0.3253	3.22%
Cr 267.716†	7409.2	100.17 ug/L		1.263	100.17 ppb	1.263	1.26%
Cu 324.752†	12984.2	51.322 ug/L		1.2191	51.322 ppb	1.2191	2.38%
Fe 238.204 Radial†	6026.8	62551 ug/L		166.4	62551 ppb	166.4	0.27%
K 766.490 Radial†	16064.1	3030.7 ug/L		16.62	3030.7 ppb	16.62	0.55%

Mg 279.077 IEC†	84.8	3277.3 ug/L	136.24	3277.3 ppb	136.24	4.16%
Mn 257.610†	1549601.5	2440.6 ug/L	3.41	2440.6 ppb	3.41	0.14%
Mo 202.031†	37.7	8.3251 ug/L	0.20787	8.3251 ppb	0.20787	2.50%
Na 589.592 Radial†	1511.2	459.85 ug/L	8.993	459.85 ppb	8.993	1.96%
Ni 231.604†	1920.2	59.275 ug/L	0.7619	59.275 ppb	0.7619	1.29%
P 214.914†	1062.7	520.83 ug/L	14.228	520.83 ppb	14.228	2.73%
Pb 220.353†	416.6	65.224 ug/L	0.5285	65.224 ppb	0.5285	0.81%
S 181.975 Axial†	116.6	141.76 ug/L	4.859	141.76 ppb	4.859	3.43%
Sb 206.836†	12.5	-1.6471 ug/L	2.99707	-1.6471 ppb	2.99707	181.96%
Se 196.026†	-230.0	5.0660 ug/L	0.73940	5.0660 ppb	0.73940	14.60%
Si 251.611†	98552.8	3514.7 ug/L	59.25	3514.7 ppb	59.25	1.69%
Sn 189.927†	23.7	2.6820 ug/L	1.22076	2.6820 ppb	1.22076	45.52%
Sr 421.552†	5529.6	39.367 ug/L	0.0657	39.367 ppb	0.0657	0.17%
Ti 334.940†	883578.3	1750.9 ug/L	1.77	1750.9 ppb	1.77	0.10%
Tl 190.801†	-64.7	-3.3730 ug/L	2.51399	-3.3730 ppb	2.51399	74.53%
U 409.014†	-6539.5	-224.19 ug/L	4.265	-224.19 ppb	4.265	1.90%
V 292.402†	8168.6	52.130 ug/L	0.7260	52.130 ppb	0.7260	1.39%
Zn 213.857†	33750.2	352.85 ug/L	5.422	352.85 ppb	5.422	1.54%
SiO2†	97466.2	7458.3 ug/L	87.45	7458.3 ppb	87.45	1.17%

Sequence No.: 26

Sample ID: 246872005|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 57

Date Collected: 3/4/2010 21:20:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872005|960016|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4939.5	4939.5	104 %		21:22:09
1	Y RADIAL	5939.0	5939.0	117.8 %		21:22:09
1	Al 396.153Radial†	22996.1	22186.5	20315 ug/L	20315 ppb	21:22:09
1	Ca 317.933Radial†	5439.5	5210.2	9323.8 ug/L	9323.8 ppb	21:22:09
1	Fe 238.204 Radial†	6133.1	5887.9	61109 ug/L	61109 ppb	21:22:09
1	K 766.490 Radial†	22984.9	19786.5	3732.3 ug/L	3732.3 ppb	21:22:09
1	Mg 279.077 IEC†	122.6	115.7	4494.8 ug/L	4494.8 ppb	21:22:29
1	Na 589.592 Radial†	407.3	1128.6	343.42 ug/L	343.42 ppb	21:22:09
1	Sr 421.552†	9589.7	9198.8	65.479 ug/L	65.479 ppb	21:22:09
1	Sc 361.383	831087.2	831087.2	105.09 %		21:23:26
1	Y 371.029	835548.6	835548.6	118.18 %		21:23:26
1	Ag 328.068†	-3485.3	-3492.9	1.4906 ug/L	1.4906 ppb	21:23:26
1	As 188.979†	-37.1	-6.7	27.900 ug/L	27.900 ppb	21:23:46
1	B 249.677†	155.6	372.3	-0.7179 ug/L	-0.7179 ppb	21:23:26
1	Ba 233.527†	28906.0	27509.2	321.04 ug/L	321.04 ppb	21:23:26
1	Be 313.107†	-11366.3	-1483.0	3.7413 ug/L	3.7413 ppb	21:23:26
1	Cd 226.502†	344.8	510.7	0.7317 ug/L	0.7317 ppb	21:23:46
1	Co 228.616†	584.7	620.7	13.714 ug/L	13.714 ppb	21:23:46
1	Cr 267.716†	7748.5	7311.8	98.810 ug/L	98.810 ppb	21:23:46
1	Cu 324.752†	18760.7	10127.8	40.632 ug/L	40.632 ppb	21:23:26
1	Mn 257.610†	1298154.4	1234814.4	1945.8 ug/L	1945.8 ppb	21:23:26
1	Mo 202.031†	44.6	30.5	7.6120 ug/L	7.6120 ppb	21:23:46
1	Ni 231.604†	2123.3	1939.9	59.880 ug/L	59.880 ppb	21:23:46
1	P 214.914†	1745.5	1462.1	741.54 ug/L	741.54 ppb	21:23:46
1	Pb 220.353†	339.1	380.2	60.512 ug/L	60.512 ppb	21:23:46
1	S 181.975 Axial†	367.1	308.3	379.17 ug/L	379.17 ppb	21:23:46
1	Sb 206.836†	42.7	7.8	-4.2176 ug/L	-4.2176 ppb	21:23:46
1	Se 196.026†	-263.6	-231.9	1.0914 ug/L	1.0914 ppb	21:23:46
1	Si 251.611†	113852.3	107783.8	3843.9 ug/L	3843.9 ppb	21:23:26
1	Sn 189.927†	-8.1	-20.8	-6.6046 ug/L	-6.6046 ppb	21:23:46
1	Ti 334.940†	1008376.0	960844.1	1904.4 ug/L	1904.4 ppb	21:23:26
1	Tl 190.801†	-97.1	-56.7	-0.8796 ug/L	-0.8796 ppb	21:23:46
1	U 409.014†	-4884.4	-2279.1	-82.755 ug/L	-82.755 ppb	21:23:26
1	V 292.402†	8876.4	10105.5	67.504 ug/L	67.504 ppb	21:23:26
1	Zn 213.857†	28895.9	26698.3	277.30 ug/L	277.30 ppb	21:23:26
1	SiO2†	112692.1	106670.6	8162.7 ug/L	8162.7 ppb	21:24:43
2	Sc Radial	4865.3	4865.3	102 %		21:22:34
2	Y RADIAL	5844.9	5844.9	116.0 %		21:22:34
2	Al 396.153Radial†	22867.8	22398.3	20509 ug/L	20509 ppb	21:22:34
2	Ca 317.933Radial†	5399.4	5250.8	9396.5 ug/L	9396.5 ppb	21:22:34
2	Fe 238.204 Radial†	6084.6	5930.4	61551 ug/L	61551 ppb	21:22:34
2	K 766.490 Radial†	22680.2	19826.0	3739.7 ug/L	3739.7 ppb	21:22:34
2	Mg 279.077 IEC†	121.5	116.4	4523.4 ug/L	4523.4 ppb	21:22:54
2	Na 589.592 Radial†	445.0	1171.4	356.43 ug/L	356.43 ppb	21:22:34
2	Sr 421.552†	9503.2	9254.9	65.878 ug/L	65.878 ppb	21:22:34
2	Sc 361.383	819702.7	819702.7	103.65 %		21:23:52
2	Y 371.029	823113.7	823113.7	116.43 %		21:23:52
2	Ag 328.068†	-3421.1	-3476.9	1.7067 ug/L	1.7067 ppb	21:23:52
2	As 188.979†	-36.7	-6.7	27.968 ug/L	27.968 ppb	21:24:12
2	B 249.677†	132.3	351.9	-1.2953 ug/L	-1.2953 ppb	21:23:52
2	Ba 233.527†	28642.3	27636.8	322.54 ug/L	322.54 ppb	21:23:52
2	Be 313.107†	-11066.9	-1344.3	3.7949 ug/L	3.7949 ppb	21:23:52
2	Cd 226.502†	355.1	525.2	0.8857 ug/L	0.8857 ppb	21:24:12
2	Co 228.616†	561.4	606.0	13.270 ug/L	13.270 ppb	21:24:12
2	Cr 267.716†	7736.7	7402.8	100.03 ug/L	100.03 ppb	21:24:12
2	Cu 324.752†	18322.0	9952.5	40.010 ug/L	40.010 ppb	21:23:52
2	Mn 257.610†	1284385.6	1238686.6	1951.9 ug/L	1951.9 ppb	21:23:52
2	Mo 202.031†	39.2	25.8	7.2251 ug/L	7.2251 ppb	21:24:12
2	Ni 231.604†	2129.0	1973.5	60.916 ug/L	60.916 ppb	21:24:12

2	P 214.914†	1749.3	1488.8	755.85 ug/L	755.85 ppb	21:24:12
2	Pb 220.353†	335.0	380.7	60.602 ug/L	60.602 ppb	21:24:12
2	S 181.975 Axial†	378.1	323.7	398.29 ug/L	398.29 ppb	21:24:12
2	Sb 206.836†	50.8	16.2	-0.9650 ug/L	-0.9650 ppb	21:24:12
2	Se 196.026†	-272.9	-244.3	-5.2993 ug/L	-5.2993 ppb	21:24:12
2	Si 251.611†	112403.4	107890.5	3847.7 ug/L	3847.7 ppb	21:23:52
2	Sn 189.927†	-15.4	-27.9	-8.2498 ug/L	-8.2498 ppb	21:24:12
2	Ti 334.940†	994412.8	960699.2	1904.1 ug/L	1904.1 ppb	21:23:52
2	Tl 190.801†	-98.3	-59.1	-1.9446 ug/L	-1.9446 ppb	21:24:12
2	U 409.014†	-4868.2	-2328.0	-84.430 ug/L	-84.430 ppb	21:23:52
2	V 292.402†	8755.8	10106.5	67.438 ug/L	67.438 ppb	21:23:52
2	Zn 213.857†	28575.5	26771.0	278.01 ug/L	278.01 ppb	21:23:52
2	SiO2†	112770.1	108235.2	8282.4 ug/L	8282.4 ppb	21:24:49
3	Sc Radial	4927.4	4927.4	104 %		21:22:59
3	Y RADIAL	5895.6	5895.6	117.0 %		21:22:59
3	Al 396.153Radial†	22924.5	22171.9	20302 ug/L	20302 ppb	21:22:59
3	Ca 317.933Radial†	5431.8	5215.7	9333.6 ug/L	9333.6 ppb	21:22:59
3	Fe 238.204 Radial†	6115.9	5885.9	61088 ug/L	61088 ppb	21:22:59
3	K 766.490 Radial†	22751.5	19615.9	3700.1 ug/L	3700.1 ppb	21:22:59
3	Mg 279.077 IEC†	120.4	113.9	4423.6 ug/L	4423.6 ppb	21:23:19
3	Na 589.592 Radial†	396.0	1118.6	340.38 ug/L	340.38 ppb	21:22:59
3	Sr 421.552†	9540.4	9173.9	65.302 ug/L	65.302 ppb	21:22:59
3	Sc 361.383	818287.0	818287.0	103.47 %		21:24:18
3	Y 371.029	821712.4	821712.4	116.23 %		21:24:18
3	Ag 328.068†	-3449.9	-3510.5	1.3960 ug/L	1.3960 ppb	21:24:18
3	As 188.979†	-28.3	1.3	31.332 ug/L	31.332 ppb	21:24:38
3	B 249.677†	124.2	344.3	-1.4110 ug/L	-1.4110 ppb	21:24:18
3	Ba 233.527†	28546.9	27592.5	322.01 ug/L	322.01 ppb	21:24:18
3	Be 313.107†	-11030.7	-1327.9	3.7935 ug/L	3.7935 ppb	21:24:18
3	Cd 226.502†	355.9	526.6	0.9525 ug/L	0.9525 ppb	21:24:38
3	Co 228.616†	565.6	611.0	13.432 ug/L	13.432 ppb	21:24:38
3	Cr 267.716†	7799.1	7476.0	101.00 ug/L	101.00 ppb	21:24:38
3	Cu 324.752†	18484.6	10140.2	40.677 ug/L	40.677 ppb	21:24:18
3	Mn 257.610†	1278341.4	1234989.3	1946.1 ug/L	1946.1 ppb	21:24:18
3	Mo 202.031†	45.6	32.1	7.7538 ug/L	7.7538 ppb	21:24:38
3	Ni 231.604†	2124.1	1972.3	60.879 ug/L	60.879 ppb	21:24:38
3	P 214.914†	1756.6	1498.8	761.46 ug/L	761.46 ppb	21:24:38
3	Pb 220.353†	353.6	399.3	63.544 ug/L	63.544 ppb	21:24:38
3	S 181.975 Axial†	371.3	317.8	390.96 ug/L	390.96 ppb	21:24:38
3	Sb 206.836†	40.0	5.8	-4.9951 ug/L	-4.9951 ppb	21:24:38
3	Se 196.026†	-268.0	-240.1	-3.8270 ug/L	-3.8270 ppb	21:24:38
3	Si 251.611†	111613.8	107315.0	3827.2 ug/L	3827.2 ppb	21:24:18
3	Sn 189.927†	-11.1	-23.8	-7.2771 ug/L	-7.2771 ppb	21:24:38
3	Ti 334.940†	990879.7	958944.6	1900.7 ug/L	1900.7 ppb	21:24:18
3	Tl 190.801†	-96.7	-57.8	-1.3768 ug/L	-1.3768 ppb	21:24:38
3	U 409.014†	-4841.8	-2310.6	-83.802 ug/L	-83.802 ppb	21:24:18
3	V 292.402†	8727.0	10093.3	67.414 ug/L	67.414 ppb	21:24:18
3	Zn 213.857†	28444.3	26692.0	277.23 ug/L	277.23 ppb	21:24:18
3	SiO2†	111557.9	107251.9	8207.1 ug/L	8207.1 ppb	21:24:54

Mean Data: 246872005|960016|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	823025.6	104.07 %	0.887			0.85%
Sc Radial	4910.7	103 %	0.8			0.81%
Y 371.029	826791.6	116.95 %	1.077			0.92%
Y RADIAL	5893.2	116.9 %	0.93			0.80%
Ag 328.068†	-3493.4	1.5311 ug/L	0.15925	1.5311 ppb	0.15925	10.40%
Al 396.153Radial†	22252.3	20375 ug/L	116.0	20375 ppb	116.0	0.57%
As 188.979†	-4.0	29.066 ug/L	1.9621	29.066 ppb	1.9621	6.75%
B 249.677†	356.2	-1.1414 ug/L	0.37130	-1.1414 ppb	0.37130	32.53%
Ba 233.527†	27579.5	321.86 ug/L	0.757	321.86 ppb	0.757	0.24%
Be 313.107†	-1385.1	3.7766 ug/L	0.03054	3.7766 ppb	0.03054	0.81%
Ca 317.933Radial†	5225.6	9351.3 ug/L	39.44	9351.3 ppb	39.44	0.42%
Cd 226.502†	520.8	0.8567 ug/L	0.11322	0.8567 ppb	0.11322	13.22%
Co 228.616†	612.6	13.472 ug/L	0.2246	13.472 ppb	0.2246	1.67%
Cr 267.716†	7396.9	99.948 ug/L	1.0974	99.948 ppb	1.0974	1.10%
Cu 324.752†	10073.5	40.440 ug/L	0.3730	40.440 ppb	0.3730	0.92%
Fe 238.204 Radial†	5901.4	61249 ug/L	261.2	61249 ppb	261.2	0.43%
K 766.490 Radial†	19742.8	3724.0 ug/L	21.07	3724.0 ppb	21.07	0.57%

Mg 279.077 IEC†	115.3	4480.6 ug/L	51.38	4480.6 ppb	51.38	1.15%
Mn 257.610†	1236163.4	1948.0 ug/L	3.46	1948.0 ppb	3.46	0.18%
Mo 202.031†	29.5	7.5303 ug/L	0.27367	7.5303 ppb	0.27367	3.63%
Na 589.592 Radial†	1139.5	346.74 ug/L	8.526	346.74 ppb	8.526	2.46%
Ni 231.604†	1961.9	60.558 ug/L	0.5876	60.558 ppb	0.5876	0.97%
P 214.914†	1483.3	752.95 ug/L	10.273	752.95 ppb	10.273	1.36%
Pb 220.353†	386.7	61.553 ug/L	1.7253	61.553 ppb	1.7253	2.80%
S 181.975 Axial†	316.6	389.47 ug/L	9.649	389.47 ppb	9.649	2.48%
Sb 206.836†	9.9	-3.3926 ug/L	2.13797	-3.3926 ppb	2.13797	63.02%
Se 196.026†	-238.8	-2.6783 ug/L	3.34661	-2.6783 ppb	3.34661	124.95%
Si 251.611†	107663.1	3839.6 ug/L	10.92	3839.6 ppb	10.92	0.28%
Sn 189.927†	-24.2	-7.3772 ug/L	0.82714	-7.3772 ppb	0.82714	11.21%
Sr 421.552†	9209.2	65.553 ug/L	0.2952	65.553 ppb	0.2952	0.45%
Ti 334.940†	960162.7	1903.1 ug/L	2.09	1903.1 ppb	2.09	0.11%
Tl 190.801†	-57.9	-1.4003 ug/L	0.53289	-1.4003 ppb	0.53289	38.05%
U 409.014†	-2305.9	-83.662 ug/L	0.8461	-83.662 ppb	0.8461	1.01%
V 292.402†	10101.8	67.452 ug/L	0.0464	67.452 ppb	0.0464	0.07%
Zn 213.857†	26720.4	277.51 ug/L	0.432	277.51 ppb	0.432	0.16%
SiO2†	107385.9	8217.4 ug/L	60.52	8217.4 ppb	60.52	0.74%

Sequence No.: 27

Sample ID: 246872006|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 58

Date Collected: 3/4/2010 21:27:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872006|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4837.7	4837.7	102 %		21:28:57
1	Y RADIAL	6852.8	6852.8	136.0 %		21:28:57
1	Al 396.153Radial†	34169.8	33618.2	30783 ug/L	30783 ppb	21:28:57
1	Ca 317.933Radial†	5299.9	5183.3	9275.6 ug/L	9275.6 ppb	21:28:57
1	Fe 238.204 Radial†	6106.9	5986.3	62130 ug/L	62130 ppb	21:28:57
1	K 766.490 Radial†	21745.6	19035.3	3589.9 ug/L	3589.9 ppb	21:28:57
1	Mg 279.077 IEC†	120.6	116.2	4515.1 ug/L	4515.1 ppb	21:29:17
1	Na 589.592 Radial†	783.0	1505.5	458.11 ug/L	458.11 ppb	21:28:57
1	Sr 421.552†	10413.9	10201.7	72.626 ug/L	72.626 ppb	21:28:57
1	Sc 361.383	822853.4	822853.4	104.05 %		21:30:15
1	Y 371.029	971731.8	971731.8	137.45 %		21:30:15
1	Ag 328.068†	-3343.5	-3389.8	2.3923 ug/L	2.3923 ppb	21:30:20
1	As 188.979†	-23.7	5.8	35.011 ug/L	35.011 ppb	21:30:40
1	B 249.677†	32.3	255.3	-3.7753 ug/L	-3.7753 ppb	21:30:20
1	Ba 233.527†	29645.2	28494.9	332.45 ug/L	332.45 ppb	21:30:20
1	Be 313.107†	-5359.5	4181.7	6.3351 ug/L	6.3351 ppb	21:30:20
1	Cd 226.502†	332.7	502.4	0.5104 ug/L	0.5104 ppb	21:30:40
1	Co 228.616†	359.8	410.2	7.0361 ug/L	7.0361 ppb	21:30:40
1	Cr 267.716†	17778.2	17024.7	228.39 ug/L	228.39 ppb	21:30:20
1	Cu 324.752†	14987.6	6680.3	28.090 ug/L	28.090 ppb	21:30:20
1	Mn 257.610†	2082005.2	2000502.9	3148.9 ug/L	3148.9 ppb	21:30:15
1	Mo 202.031†	49.1	35.2	8.1164 ug/L	8.1164 ppb	21:30:40
1	Ni 231.604†	4233.7	3988.3	123.12 ug/L	123.12 ppb	21:30:40
1	P 214.914†	1210.5	964.5	475.96 ug/L	475.96 ppb	21:30:40
1	Pb 220.353†	311.8	357.2	59.333 ug/L	59.333 ppb	21:30:40
1	S 181.975 Axial†	260.1	209.0	253.81 ug/L	253.81 ppb	21:30:40
1	Sb 206.836†	54.3	19.3	-0.4928 ug/L	-0.4928 ppb	21:30:40
1	Se 196.026†	-266.9	-237.6	0.9914 ug/L	0.9914 ppb	21:30:40
1	Si 251.611†	183092.9	175412.3	6255.8 ug/L	6255.8 ppb	21:30:20
1	Sn 189.927†	11.5	-2.0	-2.3771 ug/L	-2.3771 ppb	21:30:40
1	Ti 334.940†	1085727.2	1044784.5	2070.8 ug/L	2070.8 ppb	21:30:15
1	Tl 190.801†	-126.9	-86.3	-7.0797 ug/L	-7.0797 ppb	21:30:40
1	U 409.014†	-11614.3	-8793.4	-299.16 ug/L	-299.16 ppb	21:30:15
1	V 292.402†	5244.9	6700.0	40.279 ug/L	40.279 ppb	21:30:20
1	Zn 213.857†	34329.0	32195.0	335.82 ug/L	335.82 ppb	21:30:20
1	SiO2†	186010.7	178207.2	13637 ug/L	13637 ppb	21:31:47
2	Sc Radial	4845.2	4845.2	102 %		21:29:22
2	Y RADIAL	6823.0	6823.0	135.4 %		21:29:22
2	Al 396.153Radial†	34058.4	33456.9	30635 ug/L	30635 ppb	21:29:22
2	Ca 317.933Radial†	5296.2	5171.5	9254.6 ug/L	9254.6 ppb	21:29:22
2	Fe 238.204 Radial†	6125.8	5995.5	62226 ug/L	62226 ppb	21:29:22
2	K 766.490 Radial†	21790.4	19046.0	3592.0 ug/L	3592.0 ppb	21:29:22
2	Mg 279.077 IEC†	122.7	118.1	4589.2 ug/L	4589.2 ppb	21:29:42
2	Na 589.592 Radial†	767.4	1489.0	453.10 ug/L	453.10 ppb	21:29:22
2	Sr 421.552†	10341.6	10114.9	72.008 ug/L	72.008 ppb	21:29:22
2	Sc 361.383	825116.7	825116.7	104.34 %		21:30:46
2	Y 371.029	971905.7	971905.7	137.47 %		21:30:46
2	Ag 328.068†	-3435.1	-3468.8	2.0294 ug/L	2.0294 ppb	21:30:51
2	As 188.979†	-29.0	0.8	32.881 ug/L	32.881 ppb	21:31:11
2	B 249.677†	131.1	349.9	-1.4380 ug/L	-1.4380 ppb	21:30:51
2	Ba 233.527†	29893.1	28654.3	334.30 ug/L	334.30 ppb	21:30:51
2	Be 313.107†	-5419.5	4138.3	6.3233 ug/L	6.3233 ppb	21:30:51
2	Cd 226.502†	325.2	494.3	0.3879 ug/L	0.3879 ppb	21:31:11
2	Co 228.616†	358.7	408.2	6.9693 ug/L	6.9693 ppb	21:31:11
2	Cr 267.716†	17969.8	17161.5	230.22 ug/L	230.22 ppb	21:30:51
2	Cu 324.752†	15210.6	6854.4	28.738 ug/L	28.738 ppb	21:30:51
2	Mn 257.610†	2089434.7	2002134.9	3151.4 ug/L	3151.4 ppb	21:30:46
2	Mo 202.031†	49.4	35.4	8.1408 ug/L	8.1408 ppb	21:31:11
2	Ni 231.604†	4220.7	3964.7	122.39 ug/L	122.39 ppb	21:31:11

2	P 214.914†	1223.0	973.4	480.52 ug/L	480.52 ppb	21:31:11
2	Pb 220.353†	328.0	371.9	61.622 ug/L	61.622 ppb	21:31:11
2	S 181.975 Axial†	267.6	215.4	261.86 ug/L	261.86 ppb	21:31:11
2	Sb 206.836†	59.7	24.3	1.4865 ug/L	1.4865 ppb	21:31:11
2	Se 196.026†	-259.5	-229.8	5.8340 ug/L	5.8340 ppb	21:31:11
2	Si 251.611†	184209.7	175999.9	6276.7 ug/L	6276.7 ppb	21:30:51
2	Sn 189.927†	11.2	-2.3	-2.4561 ug/L	-2.4561 ppb	21:31:11
2	Ti 334.940†	1089920.9	1045941.6	2073.0 ug/L	2073.0 ppb	21:30:46
2	Tl 190.801†	-122.5	-81.7	-4.9772 ug/L	-4.9772 ppb	21:31:11
2	U 409.014†	-11719.6	-8863.7	-301.51 ug/L	-301.51 ppb	21:30:46
2	V 292.402†	5330.4	6768.1	40.787 ug/L	40.787 ppb	21:30:51
2	Zn 213.857†	34631.1	32394.0	337.95 ug/L	337.95 ppb	21:30:51
2	SiO2†	183199.4	175022.5	13393 ug/L	13393 ppb	21:31:53
3	Sc Radial	4911.3	4911.3	103 %		21:29:47
3	Y RADIAL	6926.1	6926.1	137.4 %		21:29:47
3	Al 396.153Radial†	34547.8	33480.6	30657 ug/L	30657 ppb	21:29:47
3	Ca 317.933Radial†	5347.4	5151.2	9218.3 ug/L	9218.3 ppb	21:29:47
3	Fe 238.204 Radial†	6178.1	5965.3	61912 ug/L	61912 ppb	21:29:47
3	K 766.490 Radial†	22013.7	18974.4	3578.5 ug/L	3578.5 ppb	21:29:47
3	Mg 279.077 IEC†	122.2	116.0	4507.4 ug/L	4507.4 ppb	21:30:07
3	Na 589.592 Radial†	734.2	1446.8	440.25 ug/L	440.25 ppb	21:29:47
3	Sr 421.552†	10473.5	10106.1	71.945 ug/L	71.945 ppb	21:29:47
3	Sc 361.383	820233.9	820233.9	103.72 %		21:31:17
3	Y 371.029	965538.3	965538.3	136.57 %		21:31:17
3	Ag 328.068†	-3443.7	-3496.6	1.7994 ug/L	1.7994 ppb	21:31:22
3	As 188.979†	-32.8	-3.0	31.132 ug/L	31.132 ppb	21:31:42
3	B 249.677†	111.0	331.2	-1.8525 ug/L	-1.8525 ppb	21:31:22
3	Ba 233.527†	29960.6	28889.9	337.02 ug/L	337.02 ppb	21:31:22
3	Be 313.107†	-5521.4	4009.1	6.2745 ug/L	6.2745 ppb	21:31:22
3	Cd 226.502†	312.6	484.0	0.2779 ug/L	0.2779 ppb	21:31:42
3	Co 228.616†	364.9	416.2	7.2116 ug/L	7.2116 ppb	21:31:42
3	Cr 267.716†	17899.8	17196.5	230.69 ug/L	230.69 ppb	21:31:22
3	Cu 324.752†	15236.7	6966.4	29.138 ug/L	29.138 ppb	21:31:22
3	Mn 257.610†	2079776.4	2004744.4	3155.5 ug/L	3155.5 ppb	21:31:17
3	Mo 202.031†	45.2	31.6	7.7770 ug/L	7.7770 ppb	21:31:42
3	Ni 231.604†	4213.9	3982.3	122.94 ug/L	122.94 ppb	21:31:42
3	P 214.914†	1219.0	976.4	482.37 ug/L	482.37 ppb	21:31:42
3	Pb 220.353†	312.7	358.9	59.602 ug/L	59.602 ppb	21:31:42
3	S 181.975 Axial†	265.5	215.0	261.30 ug/L	261.30 ppb	21:31:42
3	Sb 206.836†	67.4	32.1	4.5283 ug/L	4.5283 ppb	21:31:42
3	Se 196.026†	-258.3	-230.1	4.9279 ug/L	4.9279 ppb	21:31:42
3	Si 251.611†	185118.1	177926.7	6345.4 ug/L	6345.4 ppb	21:31:22
3	Sn 189.927†	12.7	-0.8	-2.0952 ug/L	-2.0952 ppb	21:31:42
3	Ti 334.940†	1083870.9	1046327.2	2073.8 ug/L	2073.8 ppb	21:31:17
3	Tl 190.801†	-141.0	-100.3	-13.357 ug/L	-13.357 ppb	21:31:42
3	U 409.014†	-11816.0	-9023.6	-306.78 ug/L	-306.78 ppb	21:31:17
3	V 292.402†	5351.8	6819.2	41.212 ug/L	41.212 ppb	21:31:22
3	Zn 213.857†	34730.9	32687.8	341.15 ug/L	341.15 ppb	21:31:22
3	SiO2†	185838.0	178611.6	13668 ug/L	13668 ppb	21:31:58

Mean Data: 246872006|960016|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	822734.7	104.04 %		0.309			0.30%
Sc Radial	4864.7	102 %		0.9			0.83%
Y 371.029	969725.3	137.16 %		0.513			0.37%
Y RADIAL	6867.3	136.3 %		1.05			0.77%
Ag 328.068†	-3451.7	2.0737 ug/L		0.29893	2.0737 ppb	0.29893	14.42%
Al 396.153Radial†	33518.5	30691 ug/L		79.7	30691 ppb	79.7	0.26%
As 188.979†	1.2	33.008 ug/L		1.9426	33.008 ppb	1.9426	5.89%
B 249.677†	312.2	-2.3553 ug/L		1.24714	-2.3553 ppb	1.24714	52.95%
Ba 233.527†	28679.7	334.59 ug/L		2.302	334.59 ppb	2.302	0.69%
Be 313.107†	4109.7	6.3110 ug/L		0.03212	6.3110 ppb	0.03212	0.51%
Ca 317.933Radial†	5168.7	9249.5 ug/L		29.00	9249.5 ppb	29.00	0.31%
Cd 226.502†	493.5	0.3921 ug/L		0.11630	0.3921 ppb	0.11630	29.66%
Co 228.616†	411.5	7.0724 ug/L		0.12516	7.0724 ppb	0.12516	1.77%
Cr 267.716†	17127.6	229.77 ug/L		1.211	229.77 ppb	1.211	0.53%
Cu 324.752†	6833.7	28.655 ug/L		0.5289	28.655 ppb	0.5289	1.85%
Fe 238.204 Radial†	5982.4	62089 ug/L		160.9	62089 ppb	160.9	0.26%
K 766.490 Radial†	19018.5	3586.8 ug/L		7.29	3586.8 ppb	7.29	0.20%

Mg 279.077 IEC†	116.8	4537.2 ug/L	45.13	4537.2 ppb	45.13	0.99%
Mn 257.610†	2002460.8	3151.9 ug/L	3.35	3151.9 ppb	3.35	0.11%
Mo 202.031†	34.1	8.0114 ug/L	0.20341	8.0114 ppb	0.20341	2.54%
Na 589.592 Radial†	1480.5	450.49 ug/L	9.212	450.49 ppb	9.212	2.04%
Ni 231.604†	3978.4	122.82 ug/L	0.379	122.82 ppb	0.379	0.31%
P 214.914†	971.4	479.62 ug/L	3.296	479.62 ppb	3.296	0.69%
Pb 220.353†	362.7	60.186 ug/L	1.2513	60.186 ppb	1.2513	2.08%
S 181.975 Axial†	213.1	258.99 ug/L	4.494	258.99 ppb	4.494	1.74%
Sb 206.836†	25.2	1.8407 ug/L	2.52919	1.8407 ppb	2.52919	137.41%
Se 196.026†	-232.5	3.9177 ug/L	2.57449	3.9177 ppb	2.57449	65.71%
Si 251.611†	176446.3	6292.6 ug/L	46.91	6292.6 ppb	46.91	0.75%
Sn 189.927†	-1.7	-2.3095 ug/L	0.18971	-2.3095 ppb	0.18971	8.21%
Sr 421.552†	10140.9	72.193 ug/L	0.3763	72.193 ppb	0.3763	0.52%
Ti 334.940†	1045684.4	2072.5 ug/L	1.59	2072.5 ppb	1.59	0.08%
Tl 190.801†	-89.4	-8.4714 ug/L	4.35986	-8.4714 ppb	4.35986	51.47%
U 409.014†	-8893.6	-302.48 ug/L	3.898	-302.48 ppb	3.898	1.29%
V 292.402†	6762.4	40.759 ug/L	0.4676	40.759 ppb	0.4676	1.15%
Zn 213.857†	32425.6	338.31 ug/L	2.682	338.31 ppb	2.682	0.79%
SiO2†	177280.5	13566 ug/L	150.4	13566 ppb	150.4	1.11%

Sequence No.: 28

Sample ID: 246872007|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 59

Date Collected: 3/4/2010 21:34:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872007|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4843.7	4843.7	102 %		21:36:02
1	Y RADIAL	7171.0	7171.0	142.3 %		21:36:02
1	Al 396.153Radial†	35757.4	35132.6	32169 ug/L	32169 ppb	21:36:02
1	Ca 317.933Radial†	2206.8	2144.9	3838.4 ug/L	3838.4 ppb	21:36:22
1	Fe 238.204 Radial†	6560.2	6423.2	66665 ug/L	66665 ppb	21:36:02
1	K 766.490 Radial†	16723.9	14086.4	2657.0 ug/L	2657.0 ppb	21:36:02
1	Mg 279.077 IEC†	75.6	72.0	2767.6 ug/L	2767.6 ppb	21:36:22
1	Na 589.592 Radial†	1368.8	2078.8	632.55 ug/L	632.55 ppb	21:36:02
1	Sr 421.552†	4652.0	4541.1	32.330 ug/L	32.330 ppb	21:36:02
1	Sc 361.383	803398.0	803398.0	101.59 %		21:37:20
1	Y 371.029	1002169.4	1002169.4	141.75 %		21:37:20
1	Ag 328.068†	-3747.4	-3865.1	1.4884 ug/L	1.4884 ppb	21:37:25
1	As 188.979†	-34.5	-5.4	34.551 ug/L	34.551 ppb	21:37:45
1	B 249.677†	-30.6	194.1	-6.0308 ug/L	-6.0308 ppb	21:37:25
1	Ba 233.527†	18019.7	17741.4	207.87 ug/L	207.87 ppb	21:37:25
1	Be 313.107†	-10852.6	-1350.0	5.0494 ug/L	5.0494 ppb	21:37:25
1	Cd 226.502†	348.7	525.9	0.3185 ug/L	0.3185 ppb	21:37:45
1	Co 228.616†	327.6	386.8	5.4514 ug/L	5.4514 ppb	21:37:45
1	Cr 267.716†	9735.2	9521.5	128.44 ug/L	128.44 ppb	21:37:25
1	Cu 324.752†	14082.9	6138.6	26.363 ug/L	26.363 ppb	21:37:25
1	Mn 257.610†	2260003.1	2224167.7	3500.8 ug/L	3500.8 ppb	21:37:20
1	Mo 202.031†	56.4	43.5	9.1562 ug/L	9.1562 ppb	21:37:45
1	Ni 231.604†	2308.8	2192.1	67.670 ug/L	67.670 ppb	21:37:45
1	P 214.914†	1077.5	861.8	417.38 ug/L	417.38 ppb	21:37:45
1	Pb 220.353†	295.9	348.8	57.902 ug/L	57.902 ppb	21:37:45
1	S 181.975 Axial†	87.2	44.8	49.614 ug/L	49.614 ppb	21:37:45
1	Sb 206.836†	54.9	21.2	-1.0762 ug/L	-1.0762 ppb	21:37:45
1	Se 196.026†	-283.2	-259.7	-1.8881 ug/L	-1.8881 ppb	21:37:45
1	Si 251.611†	190241.1	186709.6	6658.7 ug/L	6658.7 ppb	21:37:20
1	Sn 189.927†	36.8	23.2	2.1532 ug/L	2.1532 ppb	21:37:45
1	Ti 334.940†	1258482.8	1240102.4	2457.2 ug/L	2457.2 ppb	21:37:20
1	Tl 190.801†	-131.6	-93.8	-5.5756 ug/L	-5.5756 ppb	21:37:45
1	U 409.014†	-13049.3	-10476.2	-355.26 ug/L	-355.26 ppb	21:37:20
1	V 292.402†	4163.8	5757.9	31.800 ug/L	31.800 ppb	21:37:25
1	Zn 213.857†	42850.1	41381.6	434.21 ug/L	434.21 ppb	21:37:25
1	SiO2†	190350.8	186808.4	14295 ug/L	14295 ppb	21:38:53
2	Sc Radial	4785.6	4785.6	101 %		21:36:28
2	Y RADIAL	7081.1	7081.1	140.5 %		21:36:28
2	Al 396.153Radial†	35149.0	34954.4	32006 ug/L	32006 ppb	21:36:28
2	Ca 317.933Radial†	2230.0	2194.2	3926.6 ug/L	3926.6 ppb	21:36:48
2	Fe 238.204 Radial†	6426.2	6368.2	66094 ug/L	66094 ppb	21:36:28
2	K 766.490 Radial†	16553.1	14115.9	2662.6 ug/L	2662.6 ppb	21:36:28
2	Mg 279.077 IEC†	79.0	76.3	2936.3 ug/L	2936.3 ppb	21:36:48
2	Na 589.592 Radial†	1340.6	2067.1	628.99 ug/L	628.99 ppb	21:36:28
2	Sr 421.552†	4525.7	4471.1	31.831 ug/L	31.831 ppb	21:36:28
2	Sc 361.383	826382.9	826382.9	104.50 %		21:37:51
2	Y 371.029	1021018.1	1021018.1	144.42 %		21:37:51
2	Ag 328.068†	-3633.0	-3653.0	2.3563 ug/L	2.3563 ppb	21:37:56
2	As 188.979†	-35.6	-5.5	33.770 ug/L	33.770 ppb	21:38:16
2	B 249.677†	-1.0	223.2	-5.2135 ug/L	-5.2135 ppb	21:37:56
2	Ba 233.527†	17386.7	16642.3	195.10 ug/L	195.10 ppb	21:37:56
2	Be 313.107†	-10589.3	-801.0	5.1074 ug/L	5.1074 ppb	21:37:56
2	Cd 226.502†	338.7	506.7	0.1159 ug/L	0.1159 ppb	21:38:16
2	Co 228.616†	326.0	376.3	5.2878 ug/L	5.2878 ppb	21:38:16
2	Cr 267.716†	9416.7	8950.1	120.80 ug/L	120.80 ppb	21:37:56
2	Cu 324.752†	13759.8	5443.8	23.762 ug/L	23.762 ppb	21:37:56
2	Mn 257.610†	2260189.7	2162471.6	3403.8 ug/L	3403.8 ppb	21:37:51
2	Mo 202.031†	60.5	45.9	9.3263 ug/L	9.3263 ppb	21:38:16
2	Ni 231.604†	2315.3	2135.2	65.913 ug/L	65.913 ppb	21:38:16

2	P 214.914†	1078.8	833.5	402.95 ug/L	402.95 ppb	21:38:16
2	Pb 220.353†	294.8	339.7	56.466 ug/L	56.466 ppb	21:38:16
2	S 181.975 Axial†	93.5	48.4	54.158 ug/L	54.158 ppb	21:38:16
2	Sb 206.836†	47.2	12.3	-4.3475 ug/L	-4.3475 ppb	21:38:16
2	Se 196.026†	-278.8	-247.8	3.9242 ug/L	3.9242 ppb	21:38:16
2	Si 251.611†	190573.5	181819.3	6484.3 ug/L	6484.3 ppb	21:37:51
2	Sn 189.927†	36.3	21.7	1.8645 ug/L	1.8645 ppb	21:38:16
2	Ti 334.940†	1258066.6	1205249.1	2388.1 ug/L	2388.1 ppb	21:37:51
2	Tl 190.801†	-134.6	-93.1	-6.2739 ug/L	-6.2739 ppb	21:38:16
2	U 409.014†	-12970.9	-10044.0	-340.84 ug/L	-340.84 ppb	21:37:51
2	V 292.402†	3977.3	5465.4	29.721 ug/L	29.721 ppb	21:37:56
2	Zn 213.857†	41405.0	38825.5	406.85 ug/L	406.85 ppb	21:37:56
2	SiO2†	188510.2	179835.6	13761 ug/L	13761 ppb	21:38:58
3	Sc Radial	4897.4	4897.4	103 %		21:36:53
3	Y RADIAL	7222.2	7222.2	143.3 %		21:36:53
3	Al 396.153Radial†	35871.9	34859.0	31919 ug/L	31919 ppb	21:36:53
3	Ca 317.933Radial†	2191.0	2105.9	3768.5 ug/L	3768.5 ppb	21:37:13
3	Fe 238.204 Radial†	6511.8	6305.7	65445 ug/L	65445 ppb	21:36:53
3	K 766.490 Radial†	16756.8	13938.4	2629.2 ug/L	2629.2 ppb	21:36:53
3	Mg 279.077 IEC†	78.0	73.6	2830.0 ug/L	2830.0 ppb	21:37:13
3	Na 589.592 Radial†	1381.2	2076.1	631.72 ug/L	631.72 ppb	21:36:53
3	Sr 421.552†	4638.2	4477.6	31.879 ug/L	31.879 ppb	21:36:53
3	Sc 361.383	817845.0	817845.0	103.42 %		21:38:22
3	Y 371.029	1011446.5	1011446.5	143.06 %		21:38:22
3	Ag 328.068†	-3618.5	-3675.3	2.0474 ug/L	2.0474 ppb	21:38:27
3	As 188.979†	-27.6	2.0	36.879 ug/L	36.879 ppb	21:38:47
3	B 249.677†	-80.6	146.3	-7.0217 ug/L	-7.0217 ppb	21:38:27
3	Ba 233.527†	17572.1	16995.3	199.17 ug/L	199.17 ppb	21:38:27
3	Be 313.107†	-10664.7	-979.7	5.0410 ug/L	5.0410 ppb	21:38:27
3	Cd 226.502†	366.8	537.3	0.6040 ug/L	0.6040 ppb	21:38:47
3	Co 228.616†	330.8	384.3	5.5299 ug/L	5.5299 ppb	21:38:47
3	Cr 267.716†	9574.2	9196.5	124.08 ug/L	124.08 ppb	21:38:27
3	Cu 324.752†	13757.7	5579.2	24.225 ug/L	24.225 ppb	21:38:27
3	Mn 257.610†	2237882.7	2163481.5	3405.3 ug/L	3405.3 ppb	21:38:22
3	Mo 202.031†	48.8	35.2	8.3085 ug/L	8.3085 ppb	21:38:47
3	Ni 231.604†	2271.2	2115.6	65.308 ug/L	65.308 ppb	21:38:47
3	P 214.914†	1081.8	847.2	410.83 ug/L	410.83 ppb	21:38:47
3	Pb 220.353†	309.8	357.1	59.257 ug/L	59.257 ppb	21:38:47
3	S 181.975 Axial†	95.8	51.6	58.134 ug/L	58.134 ppb	21:38:47
3	Sb 206.836†	46.2	11.8	-4.5206 ug/L	-4.5206 ppb	21:38:47
3	Se 196.026†	-283.5	-255.1	-1.9125 ug/L	-1.9125 ppb	21:38:47
3	Si 251.611†	188785.8	181994.5	6490.5 ug/L	6490.5 ppb	21:38:22
3	Sn 189.927†	42.0	27.6	3.2095 ug/L	3.2095 ppb	21:38:47
3	Ti 334.940†	1245875.1	1206028.9	2389.6 ug/L	2389.6 ppb	21:38:22
3	Tl 190.801†	-142.5	-102.1	-10.361 ug/L	-10.361 ppb	21:38:47
3	U 409.014†	-12708.7	-9920.0	-336.66 ug/L	-336.66 ppb	21:38:22
3	V 292.402†	4054.2	5579.5	30.691 ug/L	30.691 ppb	21:38:27
3	Zn 213.857†	41737.4	39560.5	414.84 ug/L	414.84 ppb	21:38:27
3	SiO2†	191494.3	184604.3	14126 ug/L	14126 ppb	21:39:03

Mean Data: 246872007|960016|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	815875.3	103.17 %	1.469			1.42%
Sc Radial	4842.3	102 %	1.2			1.15%
Y 371.029	1011544.7	143.08 %	1.333			0.93%
Y RADIAL	7158.1	142.0 %	1.42			1.00%
Ag 328.068†	-3731.2	1.9640 ug/L	0.43992	1.9640 ppb	0.43992	22.40%
Al 396.153Radial†	34982.0	32031 ug/L	127.2	32031 ppb	127.2	0.40%
As 188.979†	-3.0	35.067 ug/L	1.6172	35.067 ppb	1.6172	4.61%
B 249.677†	187.9	-6.0887 ug/L	0.90547	-6.0887 ppb	0.90547	14.87%
Ba 233.527†	17126.3	200.71 ug/L	6.522	200.71 ppb	6.522	3.25%
Be 313.107†	-1043.6	5.0659 ug/L	0.03616	5.0659 ppb	0.03616	0.71%
Ca 317.933Radial†	2148.3	3844.5 ug/L	79.20	3844.5 ppb	79.20	2.06%
Cd 226.502†	523.3	0.3461 ug/L	0.24524	0.3461 ppb	0.24524	70.85%
Co 228.616†	382.5	5.4230 ug/L	0.12352	5.4230 ppb	0.12352	2.28%
Cr 267.716†	9222.7	124.44 ug/L	3.832	124.44 ppb	3.832	3.08%
Cu 324.752†	5720.5	24.783 ug/L	1.3874	24.783 ppb	1.3874	5.60%
Fe 238.204 Radial†	6365.7	66068 ug/L	610.2	66068 ppb	610.2	0.92%
K 766.490 Radial†	14046.9	2649.6 ug/L	17.93	2649.6 ppb	17.93	0.68%

Mg 279.077 IEC†	73.9	2844.6 ug/L	85.29	2844.6 ppb	85.29	3.00%
Mn 257.610†	2183373.6	3436.6 ug/L	55.56	3436.6 ppb	55.56	1.62%
Mo 202.031†	41.5	8.9303 ug/L	0.54521	8.9303 ppb	0.54521	6.11%
Na 589.592 Radial†	2074.0	631.09 ug/L	1.865	631.09 ppb	1.865	0.30%
Ni 231.604†	2147.6	66.297 ug/L	1.2269	66.297 ppb	1.2269	1.85%
P 214.914†	847.5	410.38 ug/L	7.224	410.38 ppb	7.224	1.76%
Pb 220.353†	348.5	57.875 ug/L	1.3960	57.875 ppb	1.3960	2.41%
S 181.975 Axial†	48.3	53.969 ug/L	4.2635	53.969 ppb	4.2635	7.90%
Sb 206.836†	15.1	-3.3148 ug/L	1.94061	-3.3148 ppb	1.94061	58.54%
Se 196.026†	-254.2	0.0412 ug/L	3.36278	0.0412 ppb	3.36278	>999.9%
Si 251.611†	183507.8	6544.5 ug/L	98.94	6544.5 ppb	98.94	1.51%
Sn 189.927†	24.1	2.4091 ug/L	0.70807	2.4091 ppb	0.70807	29.39%
Sr 421.552†	4496.6	32.013 ug/L	0.2755	32.013 ppb	0.2755	0.86%
Ti 334.940†	1217126.8	2411.6 ug/L	39.43	2411.6 ppb	39.43	1.64%
Tl 190.801†	-96.3	-7.4036 ug/L	2.58514	-7.4036 ppb	2.58514	34.92%
U 409.014†	-10146.7	-344.25 ug/L	9.755	-344.25 ppb	9.755	2.83%
V 292.402†	5601.0	30.737 ug/L	1.0401	30.737 ppb	1.0401	3.38%
Zn 213.857†	39922.5	418.63 ug/L	14.071	418.63 ppb	14.071	3.36%
SiO2†	183749.5	14061 ug/L	272.7	14061 ppb	272.7	1.94%

Sequence No.: 29

Sample ID: 246872008|960016|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 60

Date Collected: 3/4/2010 21:41:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246872008|960016|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4825.0	4825.0	102 %		21:43:08
1	Y RADIAL	6576.2	6576.2	130.5 %		21:43:08
1	Al 396.153Radial†	25848.6	25518.1	23366 ug/L	23366 ppb	21:43:08
1	Ca 317.933Radial†	2565.7	2506.4	4485.3 ug/L	4485.3 ppb	21:43:28
1	Fe 238.204 Radial†	5490.5	5395.5	55999 ug/L	55999 ppb	21:43:08
1	K 766.490 Radial†	14661.4	12120.4	2286.1 ug/L	2286.1 ppb	21:43:08
1	Mg 279.077 IEC†	70.5	67.2	2590.1 ug/L	2590.1 ppb	21:43:28
1	Na 589.592 Radial†	674.0	1400.3	426.08 ug/L	426.08 ppb	21:43:08
1	Sr 421.552†	5173.3	5071.7	36.107 ug/L	36.107 ppb	21:43:08
1	Sc 361.383	771491.3	771491.3	97.557 %		21:44:25
1	Y 371.029	891381.5	891381.5	126.08 %		21:44:25
1	Ag 328.068†	-2964.0	-3214.7	1.3928 ug/L	1.3928 ppb	21:44:30
1	As 188.979†	-22.7	5.3	31.996 ug/L	31.996 ppb	21:44:50
1	B 249.677†	-166.9	53.2	-7.7965 ug/L	-7.7965 ppb	21:44:30
1	Ba 233.527†	16281.2	16693.0	195.38 ug/L	195.38 ppb	21:44:30
1	Be 313.107†	-4436.2	4785.2	6.2143 ug/L	6.2143 ppb	21:44:30
1	Cd 226.502†	238.7	427.2	0.0656 ug/L	0.0656 ppb	21:44:50
1	Co 228.616†	232.2	302.4	4.2497 ug/L	4.2497 ppb	21:44:50
1	Cr 267.716†	5198.1	5267.1	71.471 ug/L	71.471 ppb	21:44:30
1	Cu 324.752†	13395.9	6007.6	25.262 ug/L	25.262 ppb	21:44:30
1	Mn 257.610†	1546201.0	1584492.7	2494.8 ug/L	2494.8 ppb	21:44:25
1	Mo 202.031†	46.7	35.9	7.6464 ug/L	7.6464 ppb	21:44:50
1	Ni 231.604†	1345.0	1298.2	40.075 ug/L	40.075 ppb	21:44:50
1	P 214.914†	1095.2	923.8	457.47 ug/L	457.47 ppb	21:44:50
1	Pb 220.353†	249.0	312.7	50.901 ug/L	50.901 ppb	21:44:50
1	S 181.975 Axial†	133.6	95.9	114.80 ug/L	114.80 ppb	21:44:50
1	Sb 206.836†	44.2	12.4	-2.4867 ug/L	-2.4867 ppb	21:44:50
1	Se 196.026†	-233.1	-219.9	-2.9760 ug/L	-2.9760 ppb	21:44:50
1	Si 251.611†	95509.0	97349.8	3471.8 ug/L	3471.8 ppb	21:44:30
1	Sn 189.927†	11.2	-1.6	-2.7849 ug/L	-2.7849 ppb	21:44:50
1	Ti 334.940†	940537.1	965426.2	1913.1 ug/L	1913.1 ppb	21:44:25
1	Tl 190.801†	-111.5	-78.6	-8.0045 ug/L	-8.0045 ppb	21:44:50
1	U 409.014†	-9725.2	-7600.1	-258.55 ug/L	-258.55 ppb	21:44:25
1	V 292.402†	4072.7	5834.0	34.711 ug/L	34.711 ppb	21:44:30
1	Zn 213.857†	30488.4	30454.6	318.57 ug/L	318.57 ppb	21:44:30
1	SiO2†	97087.4	98958.5	7572.5 ug/L	7572.5 ppb	21:45:56
2	Sc Radial	4840.7	4840.7	102 %		21:43:33
2	Y RADIAL	6599.0	6599.0	130.9 %		21:43:33
2	Al 396.153Radial†	25492.6	25086.2	22970 ug/L	22970 ppb	21:43:33
2	Ca 317.933Radial†	2583.5	2515.7	4502.0 ug/L	4502.0 ppb	21:43:53
2	Fe 238.204 Radial†	5438.3	5326.8	55285 ug/L	55285 ppb	21:43:33
2	K 766.490 Radial†	14597.7	12011.1	2265.5 ug/L	2265.5 ppb	21:43:33
2	Mg 279.077 IEC†	68.3	64.9	2500.2 ug/L	2500.2 ppb	21:43:53
2	Na 589.592 Radial†	610.6	1336.0	406.52 ug/L	406.52 ppb	21:43:33
2	Sr 421.552†	5121.2	5004.1	35.625 ug/L	35.625 ppb	21:43:33
2	Sc 361.383	826550.2	826550.2	104.52 %		21:44:55
2	Y 371.029	933983.4	933983.4	132.11 %		21:44:55
2	Ag 328.068†	-2930.6	-2980.3	2.3224 ug/L	2.3224 ppb	21:45:00
2	As 188.979†	-27.0	2.7	29.298 ug/L	29.298 ppb	21:45:20
2	B 249.677†	-53.3	173.3	-4.6937 ug/L	-4.6937 ppb	21:45:00
2	Ba 233.527†	16132.6	15439.1	180.82 ug/L	180.82 ppb	21:45:00
2	Be 313.107†	-4595.0	4936.1	5.9045 ug/L	5.9045 ppb	21:45:00
2	Cd 226.502†	231.9	404.4	-0.1716 ug/L	-0.1716 ppb	21:45:20
2	Co 228.616†	238.8	292.9	4.3111 ug/L	4.3111 ppb	21:45:20
2	Cr 267.716†	5122.4	4839.7	65.746 ug/L	65.746 ppb	21:45:00
2	Cu 324.752†	13414.4	5110.6	21.904 ug/L	21.904 ppb	21:45:00
2	Mn 257.610†	1516625.4	1450619.7	2284.4 ug/L	2284.4 ppb	21:44:55
2	Mo 202.031†	38.0	24.3	6.5460 ug/L	6.5460 ppb	21:45:20
2	Ni 231.604†	1358.6	1219.4	37.641 ug/L	37.641 ppb	21:45:20

2	P 214.914†	1089.4	843.5	415.04 ug/L	415.04 ppb	21:45:20
2	Pb 220.353†	254.9	301.4	49.062 ug/L	49.062 ppb	21:45:20
2	S 181.975 Axial†	124.7	78.3	92.953 ug/L	92.953 ppb	21:45:20
2	Sb 206.836†	32.5	-1.8	-7.5097 ug/L	-7.5097 ppb	21:45:20
2	Se 196.026†	-232.3	-203.3	5.2909 ug/L	5.2909 ppb	21:45:20
2	Si 251.611†	95288.8	90617.6	3231.7 ug/L	3231.7 ppb	21:45:00
2	Sn 189.927†	16.6	2.8	-1.7226 ug/L	-1.7226 ppb	21:45:20
2	Ti 334.940†	921942.0	883414.2	1750.6 ug/L	1750.6 ppb	21:44:55
2	Tl 190.801†	-99.0	-59.0	-1.4704 ug/L	-1.4704 ppb	21:45:20
2	U 409.014†	-9746.5	-6956.4	-237.11 ug/L	-237.11 ppb	21:44:55
2	V 292.402†	4002.1	5488.4	32.329 ug/L	32.329 ppb	21:45:00
2	Zn 213.857†	30241.4	28136.6	293.79 ug/L	293.79 ppb	21:45:00
2	SiO2†	95451.6	90764.1	6945.5 ug/L	6945.5 ppb	21:46:01
3	Sc Radial	4810.1	4810.1	101 %		21:43:58
3	Y RADIAL	6527.7	6527.7	129.5 %		21:43:58
3	Al 396.153Radial†	25502.2	25254.7	23125 ug/L	23125 ppb	21:43:58
3	Ca 317.933Radial†	2578.6	2527.0	4522.1 ug/L	4522.1 ppb	21:44:18
3	Fe 238.204 Radial†	5405.1	5327.9	55296 ug/L	55296 ppb	21:43:58
3	K 766.490 Radial†	14364.6	11872.0	2239.2 ug/L	2239.2 ppb	21:43:58
3	Mg 279.077 IEC†	71.1	68.1	2625.2 ug/L	2625.2 ppb	21:44:18
3	Na 589.592 Radial†	633.7	1362.6	414.62 ug/L	414.62 ppb	21:43:58
3	Sr 421.552†	5104.5	5019.5	35.734 ug/L	35.734 ppb	21:43:58
3	Sc 361.383	820433.7	820433.7	103.75 %		21:45:26
3	Y 371.029	928280.8	928280.8	131.30 %		21:45:26
3	Ag 328.068†	-3000.1	-3068.2	1.8891 ug/L	1.8891 ppb	21:45:31
3	As 188.979†	-23.1	6.4	30.912 ug/L	30.912 ppb	21:45:51
3	B 249.677†	-139.3	90.0	-6.7676 ug/L	-6.7676 ppb	21:45:31
3	Ba 233.527†	16278.4	15694.7	183.78 ug/L	183.78 ppb	21:45:31
3	Be 313.107†	-4473.1	5020.9	5.9439 ug/L	5.9439 ppb	21:45:31
3	Cd 226.502†	237.1	411.1	-0.0812 ug/L	-0.0812 ppb	21:45:51
3	Co 228.616†	239.0	294.7	4.3616 ug/L	4.3616 ppb	21:45:51
3	Cr 267.716†	5133.8	4887.3	66.382 ug/L	66.382 ppb	21:45:31
3	Cu 324.752†	13499.0	5287.9	22.559 ug/L	22.559 ppb	21:45:31
3	Mn 257.610†	1507444.0	1452587.6	2287.5 ug/L	2287.5 ppb	21:45:26
3	Mo 202.031†	41.7	28.2	6.8952 ug/L	6.8952 ppb	21:45:51
3	Ni 231.604†	1357.3	1227.8	37.900 ug/L	37.900 ppb	21:45:51
3	P 214.914†	1096.7	858.3	422.96 ug/L	422.96 ppb	21:45:51
3	Pb 220.353†	246.5	295.1	48.103 ug/L	48.103 ppb	21:45:51
3	S 181.975 Axial†	131.5	85.7	102.14 ug/L	102.14 ppb	21:45:51
3	Sb 206.836†	42.4	8.0	-3.6747 ug/L	-3.6747 ppb	21:45:51
3	Se 196.026†	-229.9	-202.6	5.7268 ug/L	5.7268 ppb	21:45:51
3	Si 251.611†	95779.3	91770.1	3272.8 ug/L	3272.8 ppb	21:45:31
3	Sn 189.927†	18.0	4.2	-1.4015 ug/L	-1.4015 ppb	21:45:51
3	Ti 334.940†	916572.4	884814.5	1753.4 ug/L	1753.4 ppb	21:45:26
3	Tl 190.801†	-110.0	-70.3	-6.5466 ug/L	-6.5466 ppb	21:45:51
3	U 409.014†	-9722.7	-7003.0	-238.66 ug/L	-238.66 ppb	21:45:26
3	V 292.402†	4097.9	5609.2	33.267 ug/L	33.267 ppb	21:45:31
3	Zn 213.857†	30422.5	28526.8	297.98 ug/L	297.98 ppb	21:45:31
3	SiO2†	96876.0	92817.9	7102.6 ug/L	7102.6 ppb	21:46:07

Mean Data: 246872008|960016|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	806158.4	101.94 %	3.816			3.74%
Sc Radial	4825.3	102 %	0.3			0.32%
Y 371.029	917881.9	129.83 %	3.271			2.52%
Y RADIAL	6567.7	130.3 %	0.72			0.55%
Ag 328.068†	-3087.7	1.8681 ug/L	0.46516	1.8681 ppb	0.46516	24.90%
Al 396.153Radial†	25286.3	23154 ug/L	199.3	23154 ppb	199.3	0.86%
As 188.979†	4.8	30.735 ug/L	1.3573	30.735 ppb	1.3573	4.42%
B 249.677†	105.5	-6.4193 ug/L	1.58045	-6.4193 ppb	1.58045	24.62%
Ba 233.527†	15942.3	186.66 ug/L	7.699	186.66 ppb	7.699	4.12%
Be 313.107†	4914.1	6.0209 ug/L	0.16863	6.0209 ppb	0.16863	2.80%
Ca 317.933Radial†	2516.4	4503.1 ug/L	18.45	4503.1 ppb	18.45	0.41%
Cd 226.502†	414.3	-0.0624 ug/L	0.11968	-0.0624 ppb	0.11968	191.84%
Co 228.616†	296.6	4.3074 ug/L	0.05603	4.3074 ppb	0.05603	1.30%
Cr 267.716†	4998.0	67.866 ug/L	3.1376	67.866 ppb	3.1376	4.62%
Cu 324.752†	5468.7	23.242 ug/L	1.7800	23.242 ppb	1.7800	7.66%
Fe 238.204 Radial†	5350.0	55527 ug/L	408.7	55527 ppb	408.7	0.74%
K 766.490 Radial†	12001.1	2263.6 ug/L	23.47	2263.6 ppb	23.47	1.04%

Mg 279.077 IEC†	66.7	2571.8 ug/L	64.47	2571.8 ppb	64.47	2.51%
Mn 257.610†	1495900.0	2355.5 ug/L	120.59	2355.5 ppb	120.59	5.12%
Mo 202.031†	29.5	7.0292 ug/L	0.56233	7.0292 ppb	0.56233	8.00%
Na 589.592 Radial†	1366.3	415.74 ug/L	9.827	415.74 ppb	9.827	2.36%
Ni 231.604†	1248.5	38.539 ug/L	1.3368	38.539 ppb	1.3368	3.47%
P 214.914†	875.2	431.82 ug/L	22.563	431.82 ppb	22.563	5.23%
Pb 220.353†	303.1	49.355 ug/L	1.4222	49.355 ppb	1.4222	2.88%
S 181.975 Axial†	86.7	103.30 ug/L	10.969	103.30 ppb	10.969	10.62%
Sb 206.836†	6.2	-4.5570 ug/L	2.62517	-4.5570 ppb	2.62517	57.61%
Se 196.026†	-208.6	2.6806 ug/L	4.90361	2.6806 ppb	4.90361	182.93%
Si 251.611†	93245.8	3325.4 ug/L	128.40	3325.4 ppb	128.40	3.86%
Sn 189.927†	1.8	-1.9697 ug/L	0.72404	-1.9697 ppb	0.72404	36.76%
Sr 421.552†	5031.8	35.822 ug/L	0.2527	35.822 ppb	0.2527	0.71%
Ti 334.940†	911218.3	1805.7 ug/L	93.02	1805.7 ppb	93.02	5.15%
Tl 190.801†	-69.3	-5.3405 ug/L	3.42994	-5.3405 ppb	3.42994	64.23%
U 409.014†	-7186.5	-244.77 ug/L	11.956	-244.77 ppb	11.956	4.88%
V 292.402†	5643.9	33.436 ug/L	1.1997	33.436 ppb	1.1997	3.59%
Zn 213.857†	29039.3	303.45 ug/L	13.265	303.45 ppb	13.265	4.37%
SiO2†	94180.2	7206.9 ug/L	326.25	7206.9 ppb	326.25	4.53%

Sequence No.: 30
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/4/2010 21:48:18
 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	4690.6	4690.6	98.8 %		21:50:10
1	Y RADIAL	4939.0	4939.0	97.99 %		21:50:10
1	Al 396.153Radial†	5276.9	5423.8	4942.0 ug/L	4942.0 ppb	21:50:10
1	Ca 317.933Radial†	2845.6	2862.1	5121.8 ug/L	5121.8 ppb	21:50:30
1	Fe 238.204 Radial†	490.2	488.9	5089.3 ug/L	5089.3 ppb	21:50:30
1	K 766.490 Radial†	28891.3	26937.5	5080.6 ug/L	5080.6 ppb	21:50:10
1	Mg 279.077 IEC†	132.9	132.4	5217.5 ug/L	5217.5 ppb	21:50:30
1	Na 589.592 Radial†	28856.9	29946.5	9112.4 ug/L	9112.4 ppb	21:50:10
1	Sr 421.552†	68281.1	69096.4	492.33 ug/L	492.33 ppb	21:50:10
1	Sc 361.383	795201.0	795201.0	100.55 %		21:51:29
1	Y 371.029	701743.7	701743.7	99.258 %		21:51:29
1	Ag 328.068†	100186.0	99456.6	502.69 ug/L	502.69 ppb	21:51:29
1	As 188.979†	1133.7	1156.0	506.93 ug/L	506.93 ppb	21:51:49
1	B 249.677†	19564.3	19680.6	487.13 ug/L	487.13 ppb	21:51:29
1	Ba 233.527†	43875.9	43637.8	507.31 ug/L	507.31 ppb	21:51:29
1	Be 313.107†	1289649.7	1291864.3	506.59 ug/L	506.59 ppb	21:51:29
1	Cd 226.502†	36062.1	36045.7	495.41 ug/L	495.41 ppb	21:51:49
1	Co 228.616†	17268.5	17237.5	512.90 ug/L	512.90 ppb	21:51:49
1	Cr 267.716†	37932.7	37662.1	502.81 ug/L	502.81 ppb	21:51:29
1	Cu 324.752†	145313.6	136787.8	504.53 ug/L	504.53 ppb	21:51:29
1	Mn 257.610†	328662.4	326418.0	513.11 ug/L	513.11 ppb	21:51:29
1	Mo 202.031†	5605.3	5562.4	503.35 ug/L	503.35 ppb	21:51:49
1	Ni 231.604†	16467.6	16296.2	502.80 ug/L	502.80 ppb	21:51:49
1	P 214.914†	4867.0	4641.3	2419.4 ug/L	2419.4 ppb	21:51:49
1	Pb 220.353†	3139.9	3180.1	506.63 ug/L	506.63 ppb	21:51:49
1	S 181.975 Axial†	853.2	807.5	1002.1 ug/L	1002.1 ppb	21:51:49
1	Sb 206.836†	1292.1	1252.1	508.83 ug/L	508.83 ppb	21:51:49
1	Se 196.026†	824.7	839.1	511.59 ug/L	511.59 ppb	21:51:49
1	Si 251.611†	71421.3	70475.9	2507.2 ug/L	2507.2 ppb	21:51:29
1	Sn 189.927†	2196.7	2171.5	496.90 ug/L	496.90 ppb	21:51:49
1	Ti 334.940†	258590.5	258498.1	511.98 ug/L	511.98 ppb	21:51:29
1	Tl 190.801†	1079.4	1109.2	506.34 ug/L	506.34 ppb	21:51:49
1	U 409.014†	12223.8	14524.9	479.92 ug/L	479.92 ppb	21:51:29
1	V 292.402†	63160.2	64471.0	507.31 ug/L	507.31 ppb	21:51:29
1	Zn 213.857†	47998.0	46935.8	499.68 ug/L	499.68 ppb	21:51:29
1	SiO2†	71740.1	70783.8	5402.9 ug/L	5402.9 ppb	21:52:49
2	Sc Radial	4695.9	4695.9	98.9 %		21:50:35
2	Y RADIAL	4957.3	4957.3	98.36 %		21:50:35
2	Al 396.153Radial†	5384.5	5526.6	5036.0 ug/L	5036.0 ppb	21:50:35
2	Ca 317.933Radial†	2832.0	2845.1	5091.5 ug/L	5091.5 ppb	21:50:55
2	Fe 238.204 Radial†	490.8	489.0	5090.4 ug/L	5090.4 ppb	21:50:55
2	K 766.490 Radial†	29047.9	27062.8	5104.3 ug/L	5104.3 ppb	21:50:35
2	Mg 279.077 IEC†	132.7	132.1	5204.7 ug/L	5204.7 ppb	21:50:55
2	Na 589.592 Radial†	28936.6	29994.1	9126.8 ug/L	9126.8 ppb	21:50:35
2	Sr 421.552†	68918.4	69662.7	496.37 ug/L	496.37 ppb	21:50:35
2	Sc 361.383	792050.2	792050.2	100.16 %		21:51:56
2	Y 371.029	699866.6	699866.6	98.992 %		21:51:56
2	Ag 328.068†	99632.3	99300.1	501.91 ug/L	501.91 ppb	21:51:56
2	As 188.979†	1134.3	1161.2	509.15 ug/L	509.15 ppb	21:52:16
2	B 249.677†	19511.5	19705.2	487.74 ug/L	487.74 ppb	21:51:56
2	Ba 233.527†	43492.7	43428.8	504.88 ug/L	504.88 ppb	21:51:56
2	Be 313.107†	1283850.6	1291176.2	506.31 ug/L	506.31 ppb	21:51:56
2	Cd 226.502†	35990.0	36116.4	496.38 ug/L	496.38 ppb	21:52:16
2	Co 228.616†	17238.3	17275.7	514.04 ug/L	514.04 ppb	21:52:16
2	Cr 267.716†	37764.8	37644.5	502.58 ug/L	502.58 ppb	21:51:56
2	Cu 324.752†	144542.1	136592.5	503.81 ug/L	503.81 ppb	21:51:56
2	Mn 257.610†	325930.6	324990.7	510.87 ug/L	510.87 ppb	21:51:56
2	Mo 202.031†	5609.5	5588.7	505.73 ug/L	505.73 ppb	21:52:16
2	Ni 231.604†	16432.1	16326.0	503.72 ug/L	503.72 ppb	21:52:16

2	P 214.914†	4863.0	4656.6	2427.8 ug/L	2427.8 ppb	21:52:16
2	Pb 220.353†	3126.2	3178.8	506.46 ug/L	506.46 ppb	21:52:16
2	S 181.975 Axial†	843.3	800.9	993.93 ug/L	993.93 ppb	21:52:16
2	Sb 206.836†	1291.6	1256.8	510.69 ug/L	510.69 ppb	21:52:16
2	Se 196.026†	830.3	848.0	516.86 ug/L	516.86 ppb	21:52:16
2	Si 251.611†	70904.5	70242.5	2498.9 ug/L	2498.9 ppb	21:51:56
2	Sn 189.927†	2184.9	2168.4	496.18 ug/L	496.18 ppb	21:52:16
2	Ti 334.940†	256782.7	257716.1	510.43 ug/L	510.43 ppb	21:51:56
2	Tl 190.801†	1076.6	1110.6	506.99 ug/L	506.99 ppb	21:52:16
2	U 409.014†	11997.1	14346.9	474.01 ug/L	474.01 ppb	21:51:56
2	V 292.402†	62819.3	64380.5	506.63 ug/L	506.63 ppb	21:51:56
2	Zn 213.857†	47533.4	46661.8	496.73 ug/L	496.73 ppb	21:51:56
2	SiO2†	71398.1	70726.2	5398.4 ug/L	5398.4 ppb	21:52:54
3	Sc Radial	4760.9	4760.9	100 %		21:51:00
3	Y RADIAL	5004.3	5004.3	99.29 %		21:51:00
3	Al 396.153Radial†	5428.6	5496.3	5008.4 ug/L	5008.4 ppb	21:51:00
3	Ca 317.933Radial†	2818.5	2792.6	4997.4 ug/L	4997.4 ppb	21:51:20
3	Fe 238.204 Radial†	487.6	479.0	4986.5 ug/L	4986.5 ppb	21:51:20
3	K 766.490 Radial†	29437.7	27050.8	5102.0 ug/L	5102.0 ppb	21:51:00
3	Mg 279.077 IEC†	133.2	130.7	5150.6 ug/L	5150.6 ppb	21:51:20
3	Na 589.592 Radial†	29230.4	29887.9	9094.5 ug/L	9094.5 ppb	21:51:00
3	Sr 421.552†	69794.5	69585.6	495.82 ug/L	495.82 ppb	21:51:00
3	Sc 361.383	793700.4	793700.4	100.37 %		21:52:23
3	Y 371.029	701433.9	701433.9	99.214 %		21:52:23
3	Ag 328.068†	99813.0	99273.3	501.74 ug/L	501.74 ppb	21:52:23
3	As 188.979†	1129.9	1154.4	506.18 ug/L	506.18 ppb	21:52:43
3	B 249.677†	19586.6	19739.5	488.62 ug/L	488.62 ppb	21:52:23
3	Ba 233.527†	43727.4	43572.3	506.54 ug/L	506.54 ppb	21:52:23
3	Be 313.107†	1287268.0	1291916.0	506.61 ug/L	506.61 ppb	21:52:23
3	Cd 226.502†	36038.0	36089.5	496.02 ug/L	496.02 ppb	21:52:43
3	Co 228.616†	17241.5	17243.1	513.07 ug/L	513.07 ppb	21:52:43
3	Cr 267.716†	37820.9	37622.0	502.28 ug/L	502.28 ppb	21:52:23
3	Cu 324.752†	145251.8	136999.5	505.31 ug/L	505.31 ppb	21:52:23
3	Mn 257.610†	327389.3	325767.4	512.08 ug/L	512.08 ppb	21:52:23
3	Mo 202.031†	5601.2	5568.8	503.92 ug/L	503.92 ppb	21:52:43
3	Ni 231.604†	16458.4	16318.0	503.48 ug/L	503.48 ppb	21:52:43
3	P 214.914†	4854.2	4637.7	2417.3 ug/L	2417.3 ppb	21:52:43
3	Pb 220.353†	3118.8	3165.0	504.26 ug/L	504.26 ppb	21:52:43
3	S 181.975 Axial†	852.0	807.8	1002.5 ug/L	1002.5 ppb	21:52:43
3	Sb 206.836†	1282.7	1245.2	506.12 ug/L	506.12 ppb	21:52:43
3	Se 196.026†	836.4	852.3	519.17 ug/L	519.17 ppb	21:52:43
3	Si 251.611†	71228.9	70418.5	2505.2 ug/L	2505.2 ppb	21:52:23
3	Sn 189.927†	2187.7	2166.6	495.76 ug/L	495.76 ppb	21:52:43
3	Ti 334.940†	257885.8	258282.1	511.54 ug/L	511.54 ppb	21:52:23
3	Tl 190.801†	1086.1	1117.8	510.27 ug/L	510.27 ppb	21:52:43
3	U 409.014†	12262.7	14586.7	481.98 ug/L	481.98 ppb	21:52:23
3	V 292.402†	63113.3	64543.0	507.89 ug/L	507.89 ppb	21:52:23
3	Zn 213.857†	47660.5	46689.8	497.05 ug/L	497.05 ppb	21:52:23
3	SiO2†	71453.3	70632.9	5391.3 ug/L	5391.3 ppb	21:52:59

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793650.5	100.36 %	0.199			0.20%
Sc Radial	4715.8	99.3 %	0.82			0.83%
Y 371.029	701014.8	99.155 %	0.1423			0.14%
Y RADIAL	4966.9	98.55 %	0.668			0.68%
Ag 328.068†	99343.3	502.12 ug/L	0.507	502.12 ppb	0.507	0.10%
QC value within limits for Ag 328.068 Recovery = 100.42%						
Al 396.153Radial†	5482.2	4995.4 ug/L	48.32	4995.4 ppb	48.32	0.97%
QC value within limits for Al 396.153Radial Recovery = 99.91%						
As 188.979†	1157.2	507.42 ug/L	1.543	507.42 ppb	1.543	0.30%
QC value within limits for As 188.979 Recovery = 101.48%						
B 249.677†	19708.4	487.83 ug/L	0.745	487.83 ppb	0.745	0.15%
QC value within limits for B 249.677 Recovery = 97.57%						
Ba 233.527†	43546.3	506.24 ug/L	1.240	506.24 ppb	1.240	0.25%
QC value within limits for Ba 233.527 Recovery = 101.25%						
Be 313.107†	1291652.2	506.50 ug/L	0.163	506.50 ppb	0.163	0.03%
QC value within limits for Be 313.107 Recovery = 101.30%						
Ca 317.933Radial†	2833.3	5070.2 ug/L	64.89	5070.2 ppb	64.89	1.28%

QC value within limits for Ca 317.933 Radial Recovery = 101.40%

Cd 226.502†	36083.8	495.94 ug/L	0.491	495.94 ppb	0.491	0.10%
QC value within limits for Cd 226.502 Recovery = 99.19%						
Co 228.616†	17252.1	513.33 ug/L	0.617	513.33 ppb	0.617	0.12%
QC value within limits for Co 228.616 Recovery = 102.67%						
Cr 267.716†	37642.9	502.56 ug/L	0.269	502.56 ppb	0.269	0.05%
QC value within limits for Cr 267.716 Recovery = 100.51%						
Cu 324.752†	136793.2	504.55 ug/L	0.746	504.55 ppb	0.746	0.15%
QC value within limits for Cu 324.752 Recovery = 100.91%						
Fe 238.204 Radial†	485.6	5055.4 ug/L	59.70	5055.4 ppb	59.70	1.18%
QC value within limits for Fe 238.204 Radial Recovery = 101.11%						
K 766.490 Radial†	27017.1	5095.6 ug/L	13.07	5095.6 ppb	13.07	0.26%
QC value within limits for K 766.490 Radial Recovery = 101.91%						
Mg 279.077 IEC†	131.7	5191.0 ug/L	35.51	5191.0 ppb	35.51	0.68%
QC value within limits for Mg 279.077 IEC Recovery = 103.82%						
Mn 257.610†	325725.4	512.02 ug/L	1.122	512.02 ppb	1.122	0.22%
QC value within limits for Mn 257.610 Recovery = 102.40%						
Mo 202.031†	5573.3	504.33 ug/L	1.242	504.33 ppb	1.242	0.25%
QC value within limits for Mo 202.031 Recovery = 100.87%						
Na 589.592 Radial†	29942.8	9111.2 ug/L	16.18	9111.2 ppb	16.18	0.18%
QC value within limits for Na 589.592 Radial Recovery = 91.11%						
Ni 231.604†	16313.4	503.33 ug/L	0.475	503.33 ppb	0.475	0.09%
QC value within limits for Ni 231.604 Recovery = 100.67%						
P 214.914†	4645.2	2421.5 ug/L	5.57	2421.5 ppb	5.57	0.23%
QC value within limits for P 214.914 Recovery = 96.86%						
Pb 220.353†	3174.6	505.78 ug/L	1.323	505.78 ppb	1.323	0.26%
QC value within limits for Pb 220.353 Recovery = 101.16%						
S 181.975 Axial†	805.4	999.54 ug/L	4.861	999.54 ppb	4.861	0.49%
QC value within limits for S 181.975 Axial Recovery = 99.95%						
Sb 206.836†	1251.4	508.54 ug/L	2.297	508.54 ppb	2.297	0.45%
QC value within limits for Sb 206.836 Recovery = 101.71%						
Se 196.026†	846.5	515.87 ug/L	3.883	515.87 ppb	3.883	0.75%
QC value within limits for Se 196.026 Recovery = 103.17%						
Si 251.611†	70379.0	2503.8 ug/L	4.35	2503.8 ppb	4.35	0.17%
QC value within limits for Si 251.611 Recovery = 100.15%						
Sn 189.927†	2168.9	496.28 ug/L	0.575	496.28 ppb	0.575	0.12%
QC value within limits for Sn 189.927 Recovery = 99.26%						
Sr 421.552†	69448.2	494.84 ug/L	2.189	494.84 ppb	2.189	0.44%
QC value within limits for Sr 421.552 Recovery = 98.97%						
Ti 334.940†	258165.4	511.32 ug/L	0.799	511.32 ppb	0.799	0.16%
QC value within limits for Ti 334.940 Recovery = 102.26%						
Tl 190.801†	1112.6	507.87 ug/L	2.106	507.87 ppb	2.106	0.41%
QC value within limits for Tl 190.801 Recovery = 101.57%						
U 409.014†	14486.2	478.64 ug/L	4.132	478.64 ppb	4.132	0.86%
QC value within limits for U 409.014 Recovery = 95.73%						
V 292.402†	64464.8	507.28 ug/L	0.633	507.28 ppb	0.633	0.12%
QC value within limits for V 292.402 Recovery = 101.46%						
Zn 213.857†	46762.4	497.82 ug/L	1.619	497.82 ppb	1.619	0.33%
QC value within limits for Zn 213.857 Recovery = 99.56%						
SiO2†	70714.3	5397.5 ug/L	5.83	5397.5 ppb	5.83	0.11%
QC value within limits for SiO2 Recovery = 100.94%						

All analyte(s) passed QC.

Sequence No.: 31

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/4/2010 21:55:09

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	4797.2	4797.2	101 %		21:57:01
1	Y RADIAL	5118.5	5118.5	101.6 %		21:57:01
1	Al 396.153Radial†	-87.2	-3.8	-3.5049 ug/L	-3.5049 ppb	21:57:21
1	Ca 317.933Radial†	22.8	4.4	7.7848 ug/L	7.7848 ppb	21:57:21
1	Fe 238.204 Radial†	6.8	-0.5	-5.6695 ug/L	-5.6695 ppb	21:57:21
1	K 766.490 Radial†	2466.1	134.1	25.321 ug/L	25.321 ppb	21:57:01
1	Mg 279.077 IEC†	2.2	0.0	0.9317 ug/L	0.9317 ppb	21:57:21
1	Na 589.592 Radial†	-814.4	-69.0	-20.988 ug/L	-20.988 ppb	21:57:01
1	Sr 421.552†	16.0	-3.1	-0.0221 ug/L	-0.0221 ppb	21:57:01
1	Sc 361.383	796247.1	796247.1	100.69 %		21:58:18
1	Y 371.029	710893.0	710893.0	100.55 %		21:58:18
1	Ag 328.068†	197.2	19.4	0.0946 ug/L	0.0946 ppb	21:58:18
1	As 188.979†	-34.9	-6.0	-2.6262 ug/L	-2.6262 ppb	21:58:38
1	B 249.677†	-338.3	-111.7	-2.7778 ug/L	-2.7778 ppb	21:58:38
1	Ba 233.527†	-3.3	0.8	0.0082 ug/L	0.0082 ppb	21:58:38
1	Be 313.107†	-9360.9	35.5	0.0140 ug/L	0.0140 ppb	21:58:18
1	Cd 226.502†	-178.4	5.4	0.0755 ug/L	0.0755 ppb	21:58:38
1	Co 228.616†	-59.8	5.0	0.1485 ug/L	0.1485 ppb	21:58:38
1	Cr 267.716†	56.3	-5.3	-0.0711 ug/L	-0.0711 ppb	21:58:38
1	Cu 324.752†	7775.0	-1.8	-0.0071 ug/L	-0.0071 ppb	21:58:18
1	Mn 257.610†	456.0	22.4	0.0347 ug/L	0.0347 ppb	21:58:38
1	Mo 202.031†	11.1	-1.0	-0.0890 ug/L	-0.0890 ppb	21:58:38
1	Ni 231.604†	78.4	-2.6	-0.0814 ug/L	-0.0814 ppb	21:58:38
1	P 214.914†	213.1	12.8	6.9746 ug/L	6.9746 ppb	21:58:38
1	Pb 220.353†	-74.8	-16.8	-2.6596 ug/L	-2.6596 ppb	21:58:38
1	S 181.975 Axial†	43.4	2.0	2.5194 ug/L	2.5194 ppb	21:58:38
1	Sb 206.836†	42.0	8.9	3.4839 ug/L	3.4839 ppb	21:58:38
1	Se 196.026†	-23.6	-4.4	-2.6426 ug/L	-2.6426 ppb	21:58:38
1	Si 251.611†	640.7	85.1	3.0375 ug/L	3.0375 ppb	21:58:38
1	Sn 189.927†	14.8	1.6	0.3719 ug/L	0.3719 ppb	21:58:38
1	Ti 334.940†	-1327.5	16.3	0.0330 ug/L	0.0330 ppb	21:58:18
1	Tl 190.801†	-31.9	4.0	1.8091 ug/L	1.8091 ppb	21:58:38
1	U 409.014†	-2365.7	19.1	0.6330 ug/L	0.6330 ppb	21:58:18
1	V 292.402†	-1690.0	-19.2	-0.1480 ug/L	-0.1480 ppb	21:58:18
1	Zn 213.857†	757.5	-44.9	-0.4815 ug/L	-0.4815 ppb	21:58:38
1	SiO2†	637.1	72.4	5.5408 ug/L	5.5408 ppb	21:59:34
2	Sc Radial	4788.5	4788.5	101 %		21:57:26
2	Y RADIAL	5092.7	5092.7	101.0 %		21:57:26
2	Al 396.153Radial†	-85.0	-1.8	-1.7215 ug/L	-1.7215 ppb	21:57:46
2	Ca 317.933Radial†	23.8	5.3	9.5611 ug/L	9.5611 ppb	21:57:46
2	Fe 238.204 Radial†	7.5	0.2	2.0118 ug/L	2.0118 ppb	21:57:46
2	K 766.490 Radial†	2538.0	209.8	39.615 ug/L	39.615 ppb	21:57:26
2	Mg 279.077 IEC†	0.6	-1.5	-60.105 ug/L	-60.105 ppb	21:57:46
2	Na 589.592 Radial†	-834.8	-90.6	-27.578 ug/L	-27.578 ppb	21:57:26
2	Sr 421.552†	23.8	4.6	0.0330 ug/L	0.0330 ppb	21:57:26
2	Sc 361.383	809944.7	809944.7	102.42 %		21:58:43
2	Y 371.029	722098.7	722098.7	102.14 %		21:58:43
2	Ag 328.068†	214.9	33.3	0.1648 ug/L	0.1648 ppb	21:58:43
2	As 188.979†	-21.2	7.9	3.4370 ug/L	3.4370 ppb	21:59:03
2	B 249.677†	-331.5	-99.4	-2.4734 ug/L	-2.4734 ppb	21:59:03
2	Ba 233.527†	0.6	4.7	0.0537 ug/L	0.0537 ppb	21:59:03
2	Be 313.107†	-9476.2	80.2	0.0321 ug/L	0.0321 ppb	21:58:43
2	Cd 226.502†	-167.1	19.4	0.2681 ug/L	0.2681 ppb	21:59:03
2	Co 228.616†	-54.3	11.4	0.3388 ug/L	0.3388 ppb	21:59:03
2	Cr 267.716†	97.4	33.9	0.4508 ug/L	0.4508 ppb	21:59:03
2	Cu 324.752†	7996.0	83.4	0.3060 ug/L	0.3060 ppb	21:58:43
2	Mn 257.610†	477.6	35.9	0.0590 ug/L	0.0590 ppb	21:59:03
2	Mo 202.031†	21.4	9.0	0.8105 ug/L	0.8105 ppb	21:59:03
2	Ni 231.604†	111.8	28.6	0.8842 ug/L	0.8842 ppb	21:59:03

2	P 214.914†	201.7	-1.9	-1.1125 ug/L	-1.1125 ppb	21:59:03
2	Pb 220.353†	-76.2	-16.9	-2.6859 ug/L	-2.6859 ppb	21:59:03
2	S 181.975 Axial†	51.4	9.2	11.399 ug/L	11.399 ppb	21:59:03
2	Sb 206.836†	36.2	2.5	0.9897 ug/L	0.9897 ppb	21:59:03
2	Se 196.026†	-10.4	8.9	5.2669 ug/L	5.2669 ppb	21:59:03
2	Si 251.611†	661.7	94.9	3.3749 ug/L	3.3749 ppb	21:59:03
2	Sn 189.927†	12.6	-0.8	-0.1817 ug/L	-0.1817 ppb	21:59:03
2	Ti 334.940†	-1189.5	173.3	0.3480 ug/L	0.3480 ppb	21:58:43
2	Tl 190.801†	-33.8	2.7	1.2116 ug/L	1.2116 ppb	21:59:03
2	U 409.014†	-2327.7	95.9	3.1797 ug/L	3.1797 ppb	21:58:43
2	V 292.402†	-1716.5	-16.6	-0.1136 ug/L	-0.1136 ppb	21:58:43
2	Zn 213.857†	763.1	-52.2	-0.5672 ug/L	-0.5672 ppb	21:59:03
2	SiO2†	668.1	92.0	7.0187 ug/L	7.0187 ppb	21:59:39
3	Sc Radial	4907.5	4907.5	103 %		21:57:51
3	Y RADIAL	5206.2	5206.2	103.3 %		21:57:51
3	Al 396.153Radial†	-73.8	11.1	10.148 ug/L	10.148 ppb	21:58:11
3	Ca 317.933Radial†	24.0	5.0	8.8947 ug/L	8.8947 ppb	21:58:11
3	Fe 238.204 Radial†	6.9	-0.6	-6.2760 ug/L	-6.2760 ppb	21:58:11
3	K 766.490 Radial†	2443.2	57.0	10.779 ug/L	10.779 ppb	21:57:51
3	Mg 279.077 IEC†	3.6	1.4	54.447 ug/L	54.447 ppb	21:58:11
3	Na 589.592 Radial†	-871.1	-105.7	-32.150 ug/L	-32.150 ppb	21:57:51
3	Sr 421.552†	23.8	4.1	0.0291 ug/L	0.0291 ppb	21:57:51
3	Sc 361.383	806637.1	806637.1	102.00 %		21:59:09
3	Y 371.029	719768.0	719768.0	101.81 %		21:59:09
3	Ag 328.068†	189.0	8.8	0.0399 ug/L	0.0399 ppb	21:59:09
3	As 188.979†	-26.0	3.1	1.3564 ug/L	1.3564 ppb	21:59:29
3	B 249.677†	-344.2	-113.2	-2.8135 ug/L	-2.8135 ppb	21:59:29
3	Ba 233.527†	5.5	9.4	0.1089 ug/L	0.1089 ppb	21:59:29
3	Be 313.107†	-9329.8	185.7	0.0733 ug/L	0.0733 ppb	21:59:09
3	Cd 226.502†	-168.4	17.5	0.2420 ug/L	0.2420 ppb	21:59:29
3	Co 228.616†	-59.7	5.8	0.1732 ug/L	0.1732 ppb	21:59:29
3	Cr 267.716†	48.6	-13.6	-0.1828 ug/L	-0.1828 ppb	21:59:29
3	Cu 324.752†	8068.9	186.8	0.6869 ug/L	0.6869 ppb	21:59:09
3	Mn 257.610†	492.2	52.1	0.0790 ug/L	0.0790 ppb	21:59:29
3	Mo 202.031†	12.7	0.4	0.0384 ug/L	0.0384 ppb	21:59:29
3	Ni 231.604†	95.6	13.2	0.4085 ug/L	0.4085 ppb	21:59:29
3	P 214.914†	211.2	8.2	4.3006 ug/L	4.3006 ppb	21:59:29
3	Pb 220.353†	-74.6	-15.7	-2.4829 ug/L	-2.4829 ppb	21:59:29
3	S 181.975 Axial†	44.8	2.9	3.5862 ug/L	3.5862 ppb	21:59:29
3	Sb 206.836†	37.9	4.3	1.6520 ug/L	1.6520 ppb	21:59:29
3	Se 196.026†	-21.2	-1.8	-1.0974 ug/L	-1.0974 ppb	21:59:29
3	Si 251.611†	647.0	83.2	2.9653 ug/L	2.9653 ppb	21:59:29
3	Sn 189.927†	7.6	-5.6	-1.2850 ug/L	-1.2850 ppb	21:59:29
3	Ti 334.940†	-1220.3	138.4	0.2696 ug/L	0.2696 ppb	21:59:09
3	Tl 190.801†	-33.6	2.8	1.2644 ug/L	1.2644 ppb	21:59:29
3	U 409.014†	-2311.9	102.1	3.3861 ug/L	3.3861 ppb	21:59:09
3	V 292.402†	-1672.4	19.7	0.1619 ug/L	0.1619 ppb	21:59:09
3	Zn 213.857†	760.1	-52.1	-0.5623 ug/L	-0.5623 ppb	21:59:29
3	SiO2†	640.9	68.0	5.2043 ug/L	5.2043 ppb	21:59:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804276.3	101.70 %		0.904			0.89%
Sc Radial	4831.1	102 %		1.4			1.37%
Y 371.029	717586.6	101.50 %		0.836			0.82%
Y RADIAL	5139.1	102.0 %		1.18			1.16%
Ag 328.068†	20.5	0.0998 ug/L		0.06261	0.0998 ppb	0.06261	62.74%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	1.8	1.6407 ug/L		7.42169	1.6407 ppb	7.42169	452.34%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.7	0.7224 ug/L		3.08091	0.7224 ppb	3.08091	426.48%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-108.1	-2.6882 ug/L		0.18692	-2.6882 ppb	0.18692	6.95%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	4.9	0.0569 ug/L		0.05038	0.0569 ppb	0.05038	88.49%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	100.5	0.0398 ug/L		0.03038	0.0398 ppb	0.03038	76.34%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.9	8.7469 ug/L		0.89732	8.7469 ppb	0.89732	10.26%

Cd	226.502†	QC value within limits for Ca 317.933 Radial	Recovery = Not calculated			
		14.1	0.1952 ug/L	0.10445	0.1952 ppb	0.10445 53.51%
		QC value within limits for Cd 226.502	Recovery = Not calculated			
Co	228.616†	7.4	0.2202 ug/L	0.10349	0.2202 ppb	0.10349 47.00%
		QC value within limits for Co 228.616	Recovery = Not calculated			
Cr	267.716†	5.0	0.0656 ug/L	0.33819	0.0656 ppb	0.33819 515.35%
		QC value within limits for Cr 267.716	Recovery = Not calculated			
Cu	324.752†	89.5	0.3286 ug/L	0.34757	0.3286 ppb	0.34757 105.77%
		QC value within limits for Cu 324.752	Recovery = Not calculated			
Fe	238.204 Radial†	-0.3	-3.3112 ug/L	4.61987	-3.3112 ppb	4.61987 139.52%
		QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
K	766.490 Radial†	133.6	25.238 ug/L	14.4183	25.238 ppb	14.4183 57.13%
		QC value within limits for K 766.490 Radial	Recovery = Not calculated			
Mg	279.077 IEC†	-0.0	-1.5754 ug/L	57.31703	-1.5754 ppb	57.31703 >999.9%
		QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
Mn	257.610†	36.8	0.0576 ug/L	0.02223	0.0576 ppb	0.02223 38.62%
		QC value within limits for Mn 257.610	Recovery = Not calculated			
Mo	202.031†	2.8	0.2533 ug/L	0.48674	0.2533 ppb	0.48674 192.13%
		QC value within limits for Mo 202.031	Recovery = Not calculated			
Na	589.592 Radial†	-88.4	-26.905 ug/L	5.6111	-26.905 ppb	5.6111 20.85%
		QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
Ni	231.604†	13.1	0.4038 ug/L	0.48284	0.4038 ppb	0.48284 119.58%
		QC value within limits for Ni 231.604	Recovery = Not calculated			
P	214.914†	6.4	3.3876 ug/L	4.12011	3.3876 ppb	4.12011 121.62%
		QC value within limits for P 214.914	Recovery = Not calculated			
Pb	220.353†	-16.4	-2.6095 ug/L	0.11037	-2.6095 ppb	0.11037 4.23%
		QC value within limits for Pb 220.353	Recovery = Not calculated			
S	181.975 Axial†	4.7	5.8348 ug/L	4.84793	5.8348 ppb	4.84793 83.09%
		QC value within limits for S 181.975 Axial	Recovery = Not calculated			
Sb	206.836†	5.2	2.0418 ug/L	1.29203	2.0418 ppb	1.29203 63.28%
		QC value within limits for Sb 206.836	Recovery = Not calculated			
Se	196.026†	0.9	0.5090 ug/L	4.19230	0.5090 ppb	4.19230 823.67%
		QC value within limits for Se 196.026	Recovery = Not calculated			
Si	251.611†	87.7	3.1259 ug/L	0.21861	3.1259 ppb	0.21861 6.99%
		QC value within limits for Si 251.611	Recovery = Not calculated			
Sn	189.927†	-1.6	-0.3649 ug/L	0.84353	-0.3649 ppb	0.84353 231.15%
		QC value within limits for Sn 189.927	Recovery = Not calculated			
Sr	421.552†	1.9	0.0133 ug/L	0.03074	0.0133 ppb	0.03074 230.38%
		QC value within limits for Sr 421.552	Recovery = Not calculated			
Ti	334.940†	109.4	0.2169 ug/L	0.16400	0.2169 ppb	0.16400 75.62%
		QC value within limits for Ti 334.940	Recovery = Not calculated			
Tl	190.801†	3.1	1.4284 ug/L	0.33077	1.4284 ppb	0.33077 23.16%
		QC value within limits for Tl 190.801	Recovery = Not calculated			
U	409.014†	72.4	2.3996 ug/L	1.53341	2.3996 ppb	1.53341 63.90%
		QC value within limits for U 409.014	Recovery = Not calculated			
V	292.402†	-5.4	-0.0332 ug/L	0.16986	-0.0332 ppb	0.16986 511.18%
		QC value within limits for V 292.402	Recovery = Not calculated			
Zn	213.857†	-49.7	-0.5370 ug/L	0.04816	-0.5370 ppb	0.04816 8.97%
		QC value within limits for Zn 213.857	Recovery = Not calculated			
SiO2†		77.5	5.9213 ug/L	0.96518	5.9213 ppb	0.96518 16.30%
		QC value within limits for SiO2	Recovery = Not calculated			

All analyte(s) passed QC.

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, March 08, 2010 11:28:02

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.670

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		4399.7		4399.678		80.781		1.8
	Mg	24.0		50755.8		50755.825		834.700		1.6
	Co	58.9		83647.2		83647.187		660.491		0.8
	Rh	102.9		155274.6		155274.620		2121.147		1.4
	In	114.9		220900.6		220900.623		1020.022		0.5
	Pb	208.0		215097.1		215097.102		1540.121		0.7
[>	Ba	137.9		212179.6		212179.608		1114.205		0.5
[	Ba++	69.0		3022.0		0.014		0.000		1.6
[>	Ce	139.9		253431.7		253431.714		2018.820		0.8
[	CeO	155.9		6327.2		0.025		0.000		1.7
	Bkgd	220.0		28.5		28.500		3.984		14.0

Current Optimization File Data

Current Value	Description
0.87	Nebulizer Gas Flow
6.50	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	17	5.5	4958.2
Co	59	17	6.0	83503.0
In	115	17	6.8	208584.4

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	588	2050	0.652
Be	9.0	9.0	2052	2075	0.612
Mg	24.0	24.0	5695	2080	0.639
Mg	25.0	25.0	5935	2080	0.607
Mg	26.0	26.0	6180	2080	0.622
Co	58.9	58.9	14189	2110	0.610
Rh	102.9	102.9	24878	2160	0.619
In	114.9	114.9	27793	2180	0.627
Ce	139.9	139.9	33876	2200	0.625
Pb	206.0	206.0	49948	2295	0.595
Pb	207.0	207.0	50171	2240	0.626
Pb	208.0	208.0	50451	2265	0.689
U	238.1	238.1	57733	2275	0.709

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, March 08, 2010 15:19:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\Blank.088

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9		ug/L		19	
[>	Sc	45		ug/L		912128	
[	Ni	60		ug/L		88	
[>	Ge	74		ug/L		339529	
|	As	75		ug/L		-234	
|	Se	77		ug/L		5156	
|	Se	82		ug/L		14	
[	Kr	83		ug/L		103	
[>	Lu	175		ug/L		416432	
[Tl	205		ug/L		781	

Sample ID: Blank

Report Date/Time: Monday, March 08, 2010 15:19:40

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	
Sc	45Linear Thru Zero	
Ni	60Simple Linear	
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Lu	175Simple Linear	
Tl	205Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45					
[	Ni	60					
[>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175					
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, March 08, 2010 15:22:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nanl soil.mth

Dataset File: c:\elandata\Dataset\100308\Standard 1.089

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	10.000	ug/L	2.326	3888	0.004
[> Sc	45		ug/L		881485	881485.480
[Ni	60	10.000	ug/L	1.632	11651	0.013
[> Ge	74		ug/L		334018	334017.593
[As	75	10.000	ug/L	3.080	8555	0.026
[Se	77		ug/L		5358	0.001
[Se	82	10.000	ug/L	5.847	923	0.003
[Kr	83		ug/L		103	0.000
[> Lu	175		ug/L		409012	409012.122
[Tl	205	10.000	ug/L	1.581	171633	0.418

Sample ID: Standard 1

Report Date/Time: Monday, March 08, 2010 15:23:15

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45					
|	Ni	60					
[>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[>	Lu	175					
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, March 08, 2010 15:26:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\Standard 2.090

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	99.981	ug/L	4.441	37968	0.043
[>	Sc	45		ug/L		882211	882210.541
[	Ni	60	99.998	ug/L	2.734	115549	0.131
[>	Ge	74		ug/L		328052	328052.245
|	As	75	100.019	ug/L	3.887	87597	0.268
|	Se	77		ug/L		11949	0.021
|	Se	82	100.047	ug/L	4.958	9370	0.029
[	Kr	83		ug/L		113	0.000
[>	Lu	175		ug/L		397505	397505.244
[	Tl	205	99.898	ug/L	4.706	1503911	3.786

Sample ID: Standard 2

Report Date/Time: Monday, March 08, 2010 15:26:50

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45					
[	Ni	60					
[>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175					
[	Tl	205					

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: Monday, March 08, 2010 15:29:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 1.091

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	51.573	ug/L	1.874	20222	0.022
> Sc	45		ug/L		909598	909598.109
Ni	60	52.177	ug/L	0.677	62244	0.068
> Ge	74		ug/L		340594	340594.328
As	75	48.939	ug/L	0.314	44450	0.131
Se	77		ug/L		8815	0.011
Se	82	49.820	ug/L	2.964	4861	0.014
Kr	83		ug/L		116	0.000
> Lu	175		ug/L		403481	403480.785
Tl	205	52.869	ug/L	1.122	809229	2.004

Sample ID: QC Std 1

Report Date/Time: Monday, March 08, 2010 15:30:26

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Ref.	% Difference
[	Be	9	103.146					
|>	Sc	45		99.7				
[	Ni	60	104.354					
|>	Ge	74		100.3				
|	As	75	97.878					
|	Se	77						
|	Se	82	99.639					
[	Kr	83						
|>	Lu	175		96.9				
[	Tl	205	105.737					

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: Monday, March 08, 2010 15:33:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 2.092

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.002	ug/L	368.343	18	-0.000
|>	Sc	45		ug/L		926974	926974.454
[	Ni	60	0.003	ug/L	182.616	92	0.000
[>	Ge	74		ug/L		346773	346772.595
|	As	75	0.023	ug/L	1256.218	-217	0.000
|	Se	77		ug/L		5605	0.001
|	Se	82	0.034	ug/L	372.754	18	0.000
[	Kr	83		ug/L		100	-0.000
[>	Lu	175		ug/L		414859	414858.779
[Tl	205	0.087	ug/L	3.869	2150	0.003

Sample ID: QC Std 2

Report Date/Time: Monday, March 08, 2010 15:34:06

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45			101.6			
[	Ni	60						
[>	Ge	74			102.1			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			99.6			
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, March 08, 2010 15:37:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 3.093

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.566	ug/L	11.015	240	0.000
[> Sc	45		ug/L		905898	905898.236
[Ni	60	2.308	ug/L	3.360	2825	0.003
[> Ge	74		ug/L		337679	337678.634
[As	75	5.803	ug/L	2.256	5021	0.016
[Se	77		ug/L		5380	0.001
[Se	82	5.367	ug/L	4.569	532	0.002
[Kr	83		ug/L		95	-0.000
[> Lu	175		ug/L		407947	407946.630
[Tl	205	1.210	ug/L	1.494	19471	0.046

Sample ID: QC Std 3

Report Date/Time: Monday, March 08, 2010 15:37:42

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9	113.240				
[>	Sc	45		99.3			
[	Ni	60	115.408				
[>	Ge	74		99.5			
[	As	75	116.068				
[	Se	77					
[	Se	82	107.332				
[	Kr	83					
[>	Lu	175		98.0			
[	Tl	205	120.968				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, March 08, 2010 15:40:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 4.094

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.096		ug/L	18.079	55	0.000
|>	Sc	45			ug/L		884968	884967.660
[	Ni	60	3.100		ug/L	1.417	3678	0.004
[>	Ge	74			ug/L		326125	326124.603
|	As	75	0.384		ug/L	97.368	110	0.001
|	Se	77			ug/L		6396	0.004
|	Se	82	-1.332		ug/L	13.314	-110	-0.000
[	Kr	83			ug/L		260	0.000
[>	Lu	175			ug/L		368921	368921.327
[Tl	205	0.007		ug/L	24.329	794	0.000

Sample ID: QC Std 4

Report Date/Time: Monday, March 08, 2010 15:41:18

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			97.0		
[	Ni	60	93.656				
[>	Ge	74			96.1		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			88.6		
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, March 08, 2010 15:44:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 5.095

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	18.684	ug/L	2.491	7188	0.008
Sc	45		ug/L		890976	890975.564
Ni	60	21.657	ug/L	2.001	25355	0.028
Ge	74		ug/L		323567	323566.566
As	75	20.262	ug/L	3.745	17353	0.054
Se	77		ug/L		7329	0.007
Se	82	18.671	ug/L	2.502	1739	0.005
Kr	83		ug/L		231	0.000
Lu	175		ug/L		371656	371655.576
Tl	205	20.697	ug/L	0.798	292244	0.784

Sample ID: QC Std 5

Report Date/Time: Monday, March 08, 2010 15:44:56

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9	93.420				
[>	Sc	45		97.7			
[	Ni	60	92.907				
[>	Ge	74		95.3			
|	As	75	101.310				
|	Se	77					
|	Se	82	93.354				
[	Kr	83					
[>	Lu	175		89.2			
[	Tl	205	103.486				

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: Monday, March 08, 2010 15:47:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 6.096

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	49.305	ug/L	1.619	19754	0.021
|>	Sc	45		ug/L		929318	929318.055
[	Ni	60	51.383	ug/L	1.607	62624	0.067
[>	Ge	74		ug/L		345052	345052.360
|	As	75	48.564	ug/L	2.038	44684	0.130
|	Se	77		ug/L		8909	0.011
|	Se	82	50.372	ug/L	1.954	4979	0.014
[	Kr	83		ug/L		101	-0.000
[>	Lu	175		ug/L		403810	403809.816
[Tl	205	52.152	ug/L	1.225	798918	1.977

Sample ID: QC Std 6

Report Date/Time: Monday, March 08, 2010 15:48:34

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	98.610				
[>	Sc	45		101.9			
[	Ni	60	102.767				
[>	Ge	74		101.6			
|	As	75	97.129				
|	Se	77					
|	Se	82	100.744				
[	Kr	83					
[>	Lu	175		97.0			
[	Tl	205	104.303				

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 08, 2010 15:51:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 7.097

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.012		ug/L	45.447	24	0.000
[>	Sc	45			ug/L		939989	939989.431
[	Ni	60	0.009		ug/L	31.100	102	0.000
[>	Ge	74			ug/L		344985	344985.022
|	As	75	-0.322		ug/L	74.293	-535	-0.001
|	Se	77			ug/L		6202	0.003
|	Se	82	-0.033		ug/L	576.556	11	-0.000
[	Kr	83			ug/L		98	-0.000
[>	Lu	175			ug/L		409602	409602.265
[Tl	205	0.086		ug/L	1.911	2099	0.003

Sample ID: QC Std 7

Report Date/Time: Monday, March 08, 2010 15:52:14

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45		103.1				
[	Ni	60						
[>	Ge	74		101.6				
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175		98.4				
[Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 08, 2010 16:20:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 6.105

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	52.596	ug/L	1.998	20089	0.023
|>	Sc	45		ug/L		886092	886091.775
[	Ni	60	51.512	ug/L	1.484	59874	0.067
[>	Ge	74		ug/L		333311	333311.470
|	As	75	48.921	ug/L	3.164	43469	0.131
|	Se	77		ug/L		8259	0.010
|	Se	82	49.962	ug/L	3.328	4769	0.014
[	Kr	83		ug/L		92	-0.000
[>	Lu	175		ug/L		405763	405763.198
[Tl	205	52.098	ug/L	0.750	801988	1.975

Sample ID: QC Std 6

Report Date/Time: Monday, March 08, 2010 16:21:25

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	105.192					
|>	Sc	45			97.1			
[	Ni	60	103.024					
[>	Ge	74			98.2			
|	As	75	97.841					
|	Se	77						
|	Se	82	99.923					
[	Kr	83						
[>	Lu	175			97.4			
[	Tl	205	104.195					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 08, 2010 16:24:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 7.106

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.003	ug/L	232.659	18	-0.000
] > Sc	45		ug/L		897717	897717.139
[Ni	60	0.003	ug/L	281.455	90	0.000
[> Ge	74		ug/L		334792	334792.216
| As	75	0.163	ug/L	172.121	-85	0.000
| Se	77		ug/L		5357	0.001
| Se	82	0.353	ug/L	12.314	48	0.000
[Kr	83		ug/L		80	-0.000
[> Lu	175		ug/L		422111	422110.886
[Tl	205	0.120	ug/L	4.503	2710	0.005

Sample ID: QC Std 7

Report Date/Time: Monday, March 08, 2010 16:25:04

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			98.4		
[	Ni	60					
[>	Ge	74			98.6		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			101.4		
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 08, 2010 16:42:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 6.111

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.130	ug/L	1.419	19773	0.023
|>	Sc	45		ug/L		863353	863353.497
[	Ni	60	51.481	ug/L	1.894	58296	0.067
[>	Ge	74		ug/L		325453	325452.507
|	As	75	48.319	ug/L	1.461	41930	0.130
|	Se	77		ug/L		7648	0.008
|	Se	82	48.986	ug/L	2.724	4567	0.014
[	Kr	83		ug/L		88	-0.000
[>	Lu	175		ug/L		402992	402991.624
[	Tl	205	51.709	ug/L	3.328	790111	1.960

Sample ID: QC Std 6

Report Date/Time: Monday, March 08, 2010 16:43:13

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	106.261				
[>	Sc	45		94.7			
[	Ni	60	102.961				
[>	Ge	74		95.9			
|	As	75	96.639				
|	Se	77					
|	Se	82	97.973				
[	Kr	83					
[>	Lu	175		96.8			
[	Tl	205	103.418				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 08, 2010 16:46:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 7.112

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.005	ug/L	216.820	16	-0.000
[> Sc	45		ug/L		868486	868486.269
[Ni	60	0.002	ug/L	164.220	86	0.000
[> Ge	74		ug/L		328153	328153.483
[As	75	0.328	ug/L	93.715	61	0.001
[Se	77		ug/L		4699	-0.001
[Se	82	0.044	ug/L	233.029	18	0.000
[Kr	83		ug/L		95	-0.000
[> Lu	175		ug/L		410512	410511.998
[Tl	205	0.069	ug/L	10.803	1836	0.003

Sample ID: QC Std 7

Report Date/Time: Monday, March 08, 2010 16:46:53

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		95.2			
[	Ni	60					
[>	Ge	74		96.6			
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175		98.6			
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042582

Sample Date/Time: Monday, March 08, 2010 16:49:53

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\1202042582.113

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.009		ug/L	80.410	21	0.000
|>	Sc	45			ug/L		850045	850044.925
[	Ni	60	0.042		ug/L	9.721	128	0.000
[>	Ge	74			ug/L		314414	314413.754
|	As	75	0.014		ug/L	2354.093	-203	0.000
|	Se	77			ug/L		3535	-0.004
|	Se	82	-0.033		ug/L	387.745	10	-0.000
[	Kr	83			ug/L		79	-0.000
[>	Lu	175			ug/L		408208	408208.201
[Tl	205	0.016		ug/L	22.076	1007	0.001

Sample ID: 1202042582

Report Date/Time: Monday, March 08, 2010 16:50:32

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			93.2			
[	Ni	60						
[>	Ge	74			92.6			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			98.0			
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042587

Sample Date/Time: Monday, March 08, 2010 16:53:32

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 952955|40|baj

Method File: c:\elandata\MethodVanl soil.mth

Dataset File: c:\elandata\Dataset\100308\1202042587.114

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	20.354	ug/L	0.517	7563	0.009
[>	Sc	45		ug/L		860662	860662.074
[	Ni	60	33.365	ug/L	0.299	37694	0.044
[>	Ge	74		ug/L		326022	326021.940
[	As	75	25.510	ug/L	5.098	22070	0.068
[	Se	77		ug/L		9436	0.014
[	Se	82	66.337	ug/L	3.054	6190	0.019
[	Kr	83		ug/L		95	-0.000
[>	Lu	175		ug/L		413484	413483.565
[Tl	205	32.818	ug/L	2.018	515014	1.244

Sample ID: 1202042587

Report Date/Time: Monday, March 08, 2010 16:54:12

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			94.4			
[	Ni	60						
[>	Ge	74			96.0			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			99.3			
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872001

Sample Date/Time: Monday, March 08, 2010 16:57:12

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\246872001.115

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	1.833		ug/L	5.191	706	0.001
[>	Sc	45			ug/L		871044	871044.369
[	Ni	60	11.106		ug/L	3.484	12748	0.015
[>	Ge	74			ug/L		312866	312865.592
|	As	75	4.288		ug/L	7.218	3378	0.011
|	Se	77			ug/L		3111	-0.005
|	Se	82	0.178		ug/L	47.356	29	0.000
[	Kr	83			ug/L		141	0.000
[>	Lu	175			ug/L		423908	423907.509
[Tl	205	0.248		ug/L	4.725	4776	0.009

Sample ID: 246872001

Report Date/Time: Monday, March 08, 2010 16:57:52

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			95.5			
[	Ni	60						
[>	Ge	74			92.1			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			101.8			
[Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042583

Sample Date/Time: Monday, March 08, 2010 17:00:51

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\1202042583.116

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	1.891	ug/L	0.736	729	0.001
[>	Sc	45		ug/L		873201	873201.340
[	Ni	60	11.669	ug/L	2.950	13425	0.015
[>	Ge	74		ug/L		310822	310822.075
|	As	75	4.141	ug/L	6.672	3236	0.011
|	Se	77		ug/L		2972	-0.006
|	Se	82	0.187	ug/L	107.172	30	0.000
[	Kr	83		ug/L		140	0.000
[>	Lu	175		ug/L		424679	424679.253
[Tl	205	0.217	ug/L	3.433	4291	0.008

Sample ID: 1202042583

Report Date/Time: Monday, March 08, 2010 17:01:30

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
] >	Sc	45			95.7		
[	Ni	60					
] >	Ge	74			91.5		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
] >	Lu	175			102.0		
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042585

Sample Date/Time: Monday, March 08, 2010 17:04:29

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\1202042585.117

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	25.947	ug/L	1.510	9724	0.011
[>	Sc	45		ug/L		868621	868621.434
[	Ni	60	33.000	ug/L	1.399	37625	0.043
[>	Ge	74		ug/L		311526	311525.812
[	As	75	40.248	ug/L	1.801	33399	0.108
[	Se	77		ug/L		3572	-0.004
[	Se	82	8.581	ug/L	7.086	777	0.002
[	Kr	83		ug/L		173	0.000
[>	Lu	175		ug/L		434926	434925.674
[Tl	205	46.781	ug/L	0.983	772013	1.773

Sample ID: 1202042585

Report Date/Time: Monday, March 08, 2010 17:05:08

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			95.2			
[	Ni	60						
[>	Ge	74			91.8			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			104.4			
[Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042586

Sample Date/Time: Monday, March 08, 2010 17:08:07

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 952955[2]baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\1202042586.118

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	26.230	ug/L	2.602	9912	0.011
[>	Sc	45		ug/L		875770	875770.328
[	Ni	60	33.197	ug/L	0.861	38160	0.043
[>	Ge	74		ug/L		311867	311866.833
[	As	75	40.624	ug/L	2.028	33737	0.109
[	Se	77		ug/L		3449	-0.004
[	Se	82	8.627	ug/L	3.636	781	0.002
[	Kr	83		ug/L		168	0.000
[>	Lu	175		ug/L		430337	430337.337
[Tl	205	48.037	ug/L	1.536	784297	1.821

Sample ID: 1202042586

Report Date/Time: Monday, March 08, 2010 17:08:47

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			96.0			
[	Ni	60						
[>	Ge	74			91.9			
[	As	75						
[	Se	77						
[	Se	82						
[	Kr	83						
[>	Lu	175			103.3			
[Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042584

Sample Date/Time: Monday, March 08, 2010 17:11:46

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 952955|10|baj

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\1202042584.119

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.394	ug/L	5.310	162	0.000
[>	Sc	45		ug/L		850901	850900.621
[	Ni	60	2.231	ug/L	3.398	2567	0.003
[>	Ge	74		ug/L		315923	315922.970
|	As	75	0.902	ug/L	61.459	548	0.002
|	Se	77		ug/L		3579	-0.004
|	Se	82	-0.048	ug/L	61.189	9	-0.000
[	Kr	83		ug/L		103	0.000
[>	Lu	175		ug/L		423907	423906.719
[Tl	205	0.034	ug/L	2.628	1337	0.001

Sample ID: 1202042584

Report Date/Time: Monday, March 08, 2010 17:12:26

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			93.3			
[	Ni	60						
[>	Ge	74			93.0			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			101.8			
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 08, 2010 17:15:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 6.120

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	53.520	ug/L	2.523	19140	0.023
Sc	45		ug/L		829607	829607.145
Ni	60	51.462	ug/L	1.191	55991	0.067
Ge	74		ug/L		317822	317821.699
As	75	48.196	ug/L	1.493	40846	0.129
Se	77		ug/L		7523	0.008
Se	82	49.441	ug/L	0.835	4502	0.014
Kr	83		ug/L		106	0.000
Lu	175		ug/L		403552	403551.663
Tl	205	51.068	ug/L	1.082	781915	1.936

Sample ID: QC Std 6

Report Date/Time: Monday, March 08, 2010 17:16:04

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9	107.040				
[>	Sc	45		91.0			
[	Ni	60	102.923				
[>	Ge	74		93.6			
|	As	75	96.393				
|	Se	77					
|	Se	82	98.881				
[	Kr	83					
[>	Lu	175		96.9			
[	Tl	205	102.136				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 08, 2010 17:19:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 7.121

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.009	ug/L	224.294	21	0.000
[>	Sc	45		ug/L		838379	838379.190
[	Ni	60	0.010	ug/L	87.105	92	0.000
[>	Ge	74		ug/L		321812	321811.689
[	As	75	0.196	ug/L	218.906	-49	0.001
[	Se	77		ug/L		4656	-0.001
[	Se	82	0.002	ug/L	2406.754	14	0.000
[	Kr	83		ug/L		91	-0.000
[>	Lu	175		ug/L		408936	408935.719
[Tl	205	0.064	ug/L	5.031	1766	0.002

Sample ID: QC Std 7

Report Date/Time: Monday, March 08, 2010 17:19:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			91.9			
[	Ni	60						
[>	Ge	74			94.8			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			98.2			
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872002

Sample Date/Time: Monday, March 08, 2010 17:22:43

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lanl soli.mth

Dataset File: c:\elandata\Dataset\100308\246872002.122

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	1.086	ug/L	5.535	413	0.000
|>	Sc	45		ug/L		844439	844438.636
[	Ni	60	6.224	ug/L	0.719	6965	0.008
[>	Ge	74		ug/L		305888	305887.646
|	As	75	2.222	ug/L	34.129	1618	0.006
|	Se	77		ug/L		3165	-0.005
|	Se	82	0.271	ug/L	14.988	37	0.000
[	Kr	83		ug/L		120	0.000
[>	Lu	175		ug/L		417519	417519.165
[	Tl	205	0.129	ug/L	2.847	2817	0.005

Sample ID: 246872002

Report Date/Time: Monday, March 08, 2010 17:23:23

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate	Rel. % Difference
[	Be	9						
|>	Sc	45			92.6			
[	Ni	60						
[>	Ge	74			90.1			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			100.3			
[Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872003

Sample Date/Time: Monday, March 08, 2010 17:26:23

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\246872003.123

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.066	ug/L	1.496	776	0.001
|>	Sc	45		ug/L		852039	852038.975
[	Ni	60	13.449	ug/L	1.325	15089	0.018
[>	Ge	74		ug/L		307013	307012.577
|	As	75	4.592	ug/L	8.867	3566	0.012
|	Se	77		ug/L		2986	-0.005
|	Se	82	-0.202	ug/L	143.654	-4	-0.000
[	Kr	83		ug/L		165	0.000
[>	Lu	175		ug/L		420115	420115.198
[	Tl	205	0.249	ug/L	4.928	4756	0.009

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45			93.4			
[	Ni	60						
[>	Ge	74			90.4			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			100.9			
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872004

Sample Date/Time: Monday, March 08, 2010 17:30:04

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955[2]baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\246872004.124

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.262	ug/L	1.911	849	0.001
[>	Sc	45		ug/L		853461	853460.619
[	Ni	60	12.048	ug/L	0.855	13549	0.016
[>	Ge	74		ug/L		304890	304890.093
|	As	75	5.245	ug/L	7.277	4077	0.014
|	Se	77		ug/L		2968	-0.005
|	Se	82	0.148	ug/L	197.617	26	0.000
[	Kr	83		ug/L		155	0.000
[>	Lu	175		ug/L		427830	427829.893
[	Tl	205	0.186	ug/L	1.985	3815	0.007

Sample ID: 246872004

Report Date/Time: Monday, March 08, 2010 17:30:44

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			93.6			
[	Ni	60						
[>	Ge	74			89.8			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			102.7			
[Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872005

Sample Date/Time: Monday, March 08, 2010 17:33:44

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\ani soli.mth

Dataset File: c:\elandata\Dataset\100308\246872005.125

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.381		ug/L	4.157	898	0.001
|>	Sc	45			ug/L		858101	858100.568
|	Ni	60	16.959		ug/L	1.692	19139	0.022
[>	Ge	74			ug/L		300005	300004.708
|	As	75	5.685		ug/L	3.496	4365	0.015
|	Se	77			ug/L		2819	-0.006
|	Se	82	0.155		ug/L	209.686	26	0.000
|	Kr	83			ug/L		155	0.000
[>	Lu	175			ug/L		417597	417596.836
	Tl	205	0.299		ug/L	1.587	5518	0.011

Sample ID: 246872005

Report Date/Time: Monday, March 08, 2010 17:34:23

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			94.1			
[	Ni	60						
[>	Ge	74			88.4			
[	As	75						
[	Se	77						
[	Se	82						
[	Kr	83						
[>	Lu	175			100.3			
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872006

Sample Date/Time: Monday, March 08, 2010 17:37:22

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\246872006.126

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	4.320	ug/L	0.951	1588	0.002
[>	Sc	45		ug/L		844218	844218.016
[	Ni	60	11.104	ug/L	1.988	12359	0.015
[>	Ge	74		ug/L		302388	302388.409
[	As	75	4.122	ug/L	2.414	3133	0.011
[	Se	77		ug/L		2759	-0.006
[	Se	82	0.181	ug/L	167.245	29	0.000
[	Kr	83		ug/L		195	0.000
[>	Lu	175		ug/L		437809	437809.134
[	Tl	205	0.204	ug/L	1.141	4199	0.008

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		92.6			
[	Ni	60					
[>	Ge	74		89.1			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175		105.1			
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872007

Sample Date/Time: Monday, March 08, 2010 17:41:01

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\246872007.127

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	4.572	ug/L	1.688	1667	0.002
|>	Sc	45		ug/L		837649	837648.688
[	Ni	60	11.043	ug/L	0.972	12197	0.014
[>	Ge	74		ug/L		297627	297627.474
|	As	75	4.141	ug/L	0.828	3099	0.011
|	Se	77		ug/L		2734	-0.006
|	Se	82	0.306	ug/L	129.545	39	0.000
[	Kr	83		ug/L		185	0.000
[>	Lu	175		ug/L		435601	435600.517
[	Tl	205	0.223	ug/L	4.146	4506	0.008

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		91.8			
[	Ni	60					
|>	Ge	74		87.7			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
|>	Lu	175		104.6			
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872008

Sample Date/Time: Monday, March 08, 2010 17:44:41

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100308\246872008.128

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	6.076	ug/L	2.042	2208	0.003
[>	Sc	45		ug/L		837026	837025.785
[	Ni	60	10.007	ug/L	1.567	11052	0.013
[>	Ge	74		ug/L		297702	297702.326
|	As	75	5.184	ug/L	1.034	3932	0.014
|	Se	77		ug/L		2691	-0.006
|	Se	82	0.196	ug/L	197.363	29	0.000
[	Kr	83		ug/L		181	0.000
[>	Lu	175		ug/L		434577	434577.057
[Tl	205	0.166	ug/L	1.307	3546	0.006

Sample ID: 246872008

Report Date/Time: Monday, March 08, 2010 17:45:21

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			91.8		
[	Ni	60					
[>	Ge	74			87.7		
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175			104.4		
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 08, 2010 17:48:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 6.129

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	54.496	ug/L	0.602	19109	0.023
|>	Sc	45		ug/L		813317	813317.375
[	Ni	60	50.569	ug/L	1.770	53943	0.066
[>	Ge	74		ug/L		310242	310241.583
|	As	75	48.148	ug/L	1.602	39829	0.129
|	Se	77		ug/L		7125	0.008
|	Se	82	48.788	ug/L	1.631	4337	0.014
[	Kr	83		ug/L		103	0.000
[>	Lu	175		ug/L		399152	399151.658
[Tl	205	51.045	ug/L	0.656	772972	1.935

Sample ID: QC Std 6

Report Date/Time: Monday, March 08, 2010 17:48:59

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9	108.992					
|>	Sc	45		89.2				
[	Ni	60	101.138					
|>	Ge	74		91.4				
|	As	75	96.297					
|	Se	77						
|	Se	82	97.577					
[	Kr	83						
|>	Lu	175		95.9				
[	Tl	205	102.089					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 08, 2010 17:51:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 7.130

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.009	ug/L	41.102	20	0.000
[>	Sc	45		ug/L		824569	824568.819
[	Ni	60	0.003	ug/L	220.817	82	0.000
[>	Ge	74		ug/L		309412	309412.435
[	As	75	0.264	ug/L	71.988	5	0.001
[	Se	77		ug/L		4335	-0.001
[	Se	82	0.023	ug/L	427.193	15	0.000
[	Kr	83		ug/L		88	-0.000
[>	Lu	175		ug/L		412776	412775.648
[Tl	205	0.057	ug/L	6.404	1668	0.002

Sample ID: QC Std 7

Report Date/Time: Monday, March 08, 2010 17:52:38

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			90.4			
[	Ni	60						
[>	Ge	74			91.1			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			99.1			
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, March 09, 2010 10:00:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\Blank.376

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		392447	
[	U	238		ug/L		1005	

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 % Dil	Duplicate Rel. % Difference
[>	Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Tuesday, March 09, 2010 10:01:11

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ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, March 09, 2010 10:02:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\Standard 1.377

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		378390	378390.059
[	U	238	10.000	ug/L	1.714	408919	1.078

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, March 09, 2010 10:04:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\Standard 2.378

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		381807	381806.827
[	U	238	99.802	ug/L	1.043	3429748	8.980

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, March 09, 2010 10:05:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 1.379

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		382028	382028.348
[	U	238	51.372	ug/L	0.593	1766829	4.622

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			97.3			
[	U	238	102.744					

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: Tuesday, March 09, 2010 10:07:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 2.380

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		391423	391423.266
[	U	238	0.017		ug/L	3.317	1592	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		99.7				
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, March 09, 2010 10:09:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 3.381

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		382202	382202.088
[	U	238	0.213	ug/L	2.948	8289	0.019

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			97.4			
[	U	238	106.309					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, March 09, 2010 10:10:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 4.382

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		353922	353921.738
[	U	238	-0.020	ug/L	1.687	262	-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		90.2			
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Tuesday, March 09, 2010 10:11:09

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ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, March 09, 2010 10:12:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 5.383

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		388035	388034.699
[	U	238	22.019	ug/L	1.204	769700	1.981

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			98.9			
[U	238	110.093					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 09, 2010 10:14:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 6.384

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		386537	386536.789
[	U	238	50.868	ug/L	2.605	1769753	4.577

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			98.5		
[	U	238	101.735				

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: Tuesday, March 09, 2010 10:15:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 7.385

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		382082	382081.974
[	U	238	0.012	ug/L	6.691	1388	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		97.4				
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042582

Sample Date/Time: Tuesday, March 09, 2010 10:17:40

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\1202042582.386

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		382555	382554.657
[	U	238	-0.021	ug/L	3.776	258	-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 % Recovery	Dilution %	Duplicate Rel. % Difference
[>	Lu	175			97.5		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042587

Sample Date/Time: Tuesday, March 09, 2010 10:19:22

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 952955|40|ba|

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\1202042587.387

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		393303	393303.187
[	U	238	0.575	ug/L	2.256	21339	0.052

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		100.2			
[	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: 246872001

Sample Date/Time: Tuesday, March 09, 2010 10:21:04

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955[2]ba]

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\246872001.388

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		402460	402460.391
[U	238	17.507	ug/L	0.685	635020	1.575

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175		102.6			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042583

Sample Date/Time: Tuesday, March 09, 2010 10:22:45

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\1202042583.389

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		402856	402856.385
[	U	238	15.605	ug/L	0.465	566695	1.404

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		102.7			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042583

Report Date/Time: Tuesday, March 09, 2010 10:22:56

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202042585

Sample Date/Time: Tuesday, March 09, 2010 10:24:25

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\1202042585.390

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		408081	408081.147
[	U	238	36.627	ug/L	1.472	1345797	3.296

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175		104.0				
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202042586

Sample Date/Time: Tuesday, March 09, 2010 10:26:05

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 952955|2|ba|

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\1202042586.391

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		404346	404345.538
[	U	238	38.104	ug/L	0.994	1387250	3.429

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 % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
>	Lu	175			103.0			
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202042586

Report Date/Time: Tuesday, March 09, 2010 10:26:17

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ICPMS#5 - Summary Report

Sample ID: 1202042584

Sample Date/Time: Tuesday, March 09, 2010 10:27:47

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 952955|10|ba|

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\1202042584.392

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		398497	398497.172
[	U	238	3.684		ug/L	1.713	133106	0.331

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate	Rel. % Difference
[>	Lu	175		101.5				
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 09, 2010 10:29:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 6.393

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		386580	386579.768
[	U	238	52.092	ug/L	1.012	1812808	4.687

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			98.5			
[	U	238	104.184					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Tuesday, March 09, 2010 10:29:38

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ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 09, 2010 10:31:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 7.394

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		394252	394252.177
[U	238	0.007	ug/L	11.653	1268	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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175		100.5			
[U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Tuesday, March 09, 2010 10:31:20

Page 1

ICPMS#5 - Summary Report

Sample ID: 246872002

Sample Date/Time: Tuesday, March 09, 2010 10:32:49

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955[2]baj

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\246872002.395

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		398152	398152.321
[	U	238	11.440	ug/L	1.682	410866	1.029

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			101.5			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872003

Sample Date/Time: Tuesday, March 09, 2010 10:34:32

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\246872003.396

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		403388	403388.426
[	U	238	17.281	ug/L	0.469	628271	1.555

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			102.8			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872004

Sample Date/Time: Tuesday, March 09, 2010 10:36:15

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\246872004.397

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		418341	418341.412
[	U	238	15.210	ug/L	0.615	573600	1.369

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		106.6			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872005

Sample Date/Time: Tuesday, March 09, 2010 10:37:56

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\246872005.398

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		403512	403511.558
[	U	238	34.209	ug/L	0.740	1243090	3.078

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		102.8				
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246872006

Sample Date/Time: Tuesday, March 09, 2010 10:39:37

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\246872006.399

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		421398	421397.513
[U	238	2.967	ug/L	0.555	113585	0.267

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu	175		107.4			
[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: 246872007

Sample Date/Time: Tuesday, March 09, 2010 10:41:18

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\246872007.400

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		413253	413252.581
[	U	238	3.392	ug/L	0.779	127179	0.305

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		105.3				
[	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: 246872008

Sample Date/Time: Tuesday, March 09, 2010 10:43:00

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952955|2|baj

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\246872008.401

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		421269	421269.265
[	U	238	2.688	ug/L	1.878	102929	0.242

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175		107.3			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 09, 2010 10:44:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 6.402

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		396494	396494.301
[	U	238	51.184		ug/L	1.457	1826851	4.605

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175		101.0				
[	U	238	102.367					

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: Tuesday, March 09, 2010 10:46:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100308\QC Std 7.403

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		391288	391287.841
[	U	238	0.024	ug/L	16.921	1865	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			99.7			
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Tuesday, March 09, 2010 10:46:33

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Analysis Begun

Logged In Analyst: Administrator

Technique: AA FIMS-MHS

Spectrometer Model: FIMS-100, S/N B050-9550

Autosampler Model: S10

Sample Information File: C:\data-AA\Administrator\Sample Information\030110S1.SIF

Batch ID:

Results Data Set: 030110S1

Results Library: C:\data-AA\Administrator\Results\Results.mdb

=====
Method Loaded

Method Name: SOIL

Method Last Saved: 1/4/2010 13:53:20

Method Description: 7471A, ILM04 ANALYST JXL

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank

Date Collected: 3/1/2010 09:23:10

Analyst:

Data Type: Original

Replicate Data: Calib Blank

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0005	0.0024	0.0005	09:24:02	Yes
2		[0.00]	0.0003	0.0002	0.0003	09:24:32	Yes
Mean:		[0.00]	0.0004				
SD:		0.00	0.0001				
%RSD:		0.00	38.94				

Auto-zero performed.

Sequence No.: 2

Autosampler Location: 2

Sample ID: S0.2

Date Collected: 3/1/2010 09:24:51

Analyst:

Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0026	0.0141	0.0029	09:25:41	Yes
2		[0.2]	0.0025	0.0133	0.0029	09:26:11	Yes
Mean:		[0.2]	0.0025				
SD:		0.0	0.0000				
%RSD:		0.0	1.27				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01265 Intercept: 0.00000

Sequence No.: 3

Autosampler Location: 3

Sample ID: S0.5

Date Collected: 3/1/2010 09:26:30

Analyst:

Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0064	0.0329	0.0067	09:27:21	Yes
2		[0.5]	0.0062	0.0305	0.0065	09:27:50	Yes
Mean:		[0.5]	0.0063				
SD:		0.0	0.0001				
%RSD:		0.0	1.90				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999992 Slope: 0.01253 Intercept: 0.00001

Sequence No.: 4

Autosampler Location: 4

Sample ID: S2.0

Date Collected: 3/1/2010 09:28:10

Analyst:

Data Type: Original

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0251	0.1237	0.0255	09:29:02	Yes
2		[2.0]	0.0251	0.1225	0.0254	09:29:32	Yes
Mean:		[2.0]	0.0251				
SD:		0.0	0.0000				
%RSD:		0.0	0.15				

Standard number 3 applied. [2.0]
Correlation Coef.: 1.000000 Slope: 0.01254 Intercept: 0.00001

Sequence No.: 5

Autosampler Location: 5

Sample ID: S5.0

Date Collected: 3/1/2010 09:29:51

Analyst:

Data Type: Original

Replicate Data: S5.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0615	0.3014	0.0619	09:30:44	Yes
2		[5.0]	0.0613	0.3008	0.0617	09:31:13	Yes
Mean:		[5.0]	0.0614				
SD:		0.0	0.0001				
%RSD:		0.0	0.19				

Standard number 4 applied. [5.0]
Correlation Coef.: 0.999965 Slope: 0.01229 Intercept: 0.00014

Sequence No.: 6

Autosampler Location: 6

Sample ID: S10.0

Date Collected: 3/1/2010 09:31:34

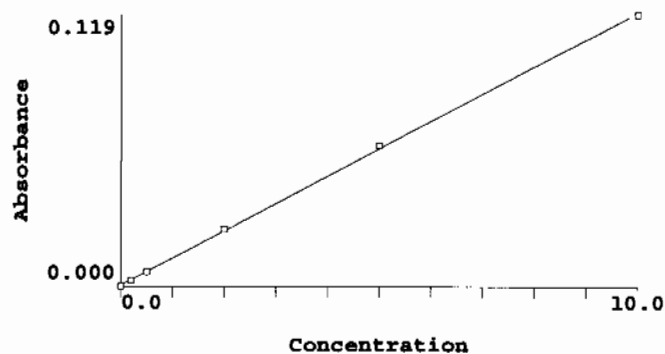
Analyst:

Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1191	0.5830	0.1194	09:32:24	Yes
2		[10.0]	0.1189	0.5781	0.1193	09:32:54	Yes
Mean:		[10.0]	0.1190				
SD:		0.0	0.0001				
%RSD:		0.0	0.08				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999854 Slope: 0.01192 Intercept: 0.00055

-----
Calibration data for Hg 253.7

Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	-0.047	0.00	38.9
S0.2	0.0025	0.2	0.166	0.00	1.3
S0.5	0.0063	0.5	0.479	0.00	1.9
S2.0	0.0251	2.0	2.058	0.00	0.1

S5.0 0.0614 5.0 5.106 0.00 0.2
S10.0 0.1190 10.0 9.937 0.00 0.1
Correlation Coef.: 0.999854 Slope: 0.01192 Intercept: 0.00055

Sequence No.: 7

Autosampler Location: 9

Sample ID: ICV

Date Collected: 3/1/2010 09:33:13

Analyst:

Data Type: Original

Replicate Data: ICV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.208	5.208	0.0626	0.3044	0.0630	09:34:04	Yes
2	5.221	5.221	0.0628	0.3032	0.0631	09:34:34	Yes
Mean:	5.214	5.214	0.0627				
SD:	0.009	0.009	0.0001				
%RSD:	0.169	0.169	0.17				

QC value within limits for Hg 253.7 Recovery = 104.29%

All analyte(s) passed QC.

Sequence No.: 8

Autosampler Location: 10

Sample ID: ICB

Date Collected: 3/1/2010 09:34:54

Analyst:

Data Type: Original

Replicate Data: ICB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.048	-0.048	-0.0000	0.0007	0.0003	09:35:45	Yes
2	-0.039	-0.039	0.0001	0.0022	0.0004	09:36:15	Yes
Mean:	-0.043	-0.043	0.0000				
SD:	0.007	0.007	0.0001				
%RSD:	15.47	15.47	209.24				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 9

Autosampler Location: 11

Sample ID: CRDL

Date Collected: 3/1/2010 09:36:35

Analyst:

Data Type: Original

Replicate Data: CRDL

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.167	0.167	0.0025	0.0132	0.0029	09:37:27	Yes
2	0.163	0.163	0.0025	0.0125	0.0028	09:37:57	Yes
Mean:	0.165	0.165	0.0025				
SD:	0.003	0.003	0.0000				
%RSD:	1.654	1.654	1.29				

QC value within limits for Hg 253.7 Recovery = 82.31%

All analyte(s) passed QC.

Sequence No.: 10

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/1/2010 09:38:17

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.166	5.166	0.0621	0.3014	0.0625	09:39:07	Yes
2	5.184	5.184	0.0624	0.2974	0.0627	09:39:37	Yes
Mean:	5.175	5.175	0.0622				
SD:	0.013	0.013	0.0002				
%RSD:	0.247	0.247	0.25				

QC value within limits for Hg 253.7 Recovery = 103.50%

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/1/2010 09:39:56

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.046	-0.046	0.0000	0.0008	0.0004	09:40:47	Yes
2	-0.049	-0.049	-0.0000	0.0005	0.0003	09:41:16	Yes
Mean:	-0.047	-0.047	-0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	5.295	5.295	277.21				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12

Sample ID: 1202055194|958331|1

Analyst: JXL

Autosampler Location: 12

Date Collected: 3/1/2010 09:41:36

Data Type: Original

Replicate Data: 1202055194|958331|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.049	-0.049	-0.0000	0.0002	0.0003	09:42:27	Yes
2	-0.046	-0.046	0.0000	0.0010	0.0004	09:42:57	Yes
Mean:	-0.047	-0.047	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.261	5.261	289.87				

Sequence No.: 13

Sample ID: 1202055195|958331|10

Analyst: JXL

Autosampler Location: 13

Date Collected: 3/1/2010 09:43:17

Data Type: Original

Replicate Data: 1202055195|958331|10

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.988	3.988	0.0481	0.2323	0.0484	09:44:09	Yes
2	3.997	3.997	0.0482	0.2307	0.0486	09:44:39	Yes
Mean:	3.992	3.992	0.0481				
SD:	0.006	0.006	0.0001				
%RSD:	0.159	0.159	0.16				

Sequence No.: 14

Sample ID: 246870001|958331|1

Analyst: JXL

Autosampler Location: 14

Date Collected: 3/1/2010 09:45:00

Data Type: Original

Replicate Data: 246870001|958331|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.307	0.307	0.0042	0.0215	0.0046	09:45:50	Yes
2	0.307	0.307	0.0042	0.0210	0.0046	09:46:20	Yes
Mean:	0.307	0.307	0.0042				
SD:	0.000	0.000	0.0000				
%RSD:	0.063	0.063	0.05				

Sequence No.: 15

Sample ID: 1202055196|958331|1

Analyst: JXL

Autosampler Location: 15

Date Collected: 3/1/2010 09:46:39

Data Type: Original

Replicate Data: 1202055196|958331|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.314	0.314	0.0043	0.0219	0.0047	09:47:30	Yes
2	0.324	0.324	0.0044	0.0231	0.0048	09:48:00	Yes
Mean:	0.319	0.319	0.0044				
SD:	0.007	0.007	0.0001				
%RSD:	2.051	2.051	1.79				

Sequence No.: 16

Autosampler Location: 16

Sample ID: 1202055197|958331|1

Date Collected: 3/1/2010 09:48:19

Analyst: JXL

Data Type: Original

Replicate Data: 1202055197|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.404	2.404	0.0292	0.1414	0.0296	09:49:09	Yes
2	2.403	2.403	0.0292	0.1397	0.0296	09:49:39	Yes
Mean:	2.404	2.404	0.0292				
SD:	0.001	0.001	0.0000				
%RSD:	0.054	0.054	0.05				

Sequence No.: 17

Autosampler Location: 17

Sample ID: 1202055199|958331|1

Date Collected: 3/1/2010 09:49:58

Analyst: JXL

Data Type: Original

Replicate Data: 1202055199|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.448	2.448	0.0297	0.1427	0.0301	09:50:48	Yes
2	2.432	2.432	0.0295	0.1413	0.0299	09:51:18	Yes
Mean:	2.440	2.440	0.0296				
SD:	0.011	0.011	0.0001				
%RSD:	0.468	0.468	0.46				

Sequence No.: 18

Autosampler Location: 18

Sample ID: 1202055198|958331|5

Date Collected: 3/1/2010 09:51:37

Analyst: JXL

Data Type: Original

Replicate Data: 1202055198|958331|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	0.0009	0.0054	0.0012	09:52:27	Yes
2	0.028	0.028	0.0009	0.0051	0.0012	09:52:57	Yes
Mean:	0.027	0.027	0.0009				
SD:	0.001	0.001	0.0000				
%RSD:	4.203	4.203	1.56				

Sequence No.: 19

Autosampler Location: 19

Sample ID: 246870002|958331|1

Date Collected: 3/1/2010 09:53:16

Analyst: JXL

Data Type: Original

Replicate Data: 246870002|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.292	0.292	0.0040	0.0213	0.0044	09:54:07	Yes
2	0.285	0.285	0.0040	0.0202	0.0043	09:54:37	Yes
Mean:	0.289	0.289	0.0040				
SD:	0.005	0.005	0.0001				
%RSD:	1.644	1.644	1.42				

Sequence No.: 20

Autosampler Location: 20

Sample ID: 246870003|958331|1

Date Collected: 3/1/2010 09:54:56

Analyst: JXL

Data Type: Original

Replicate Data: 246870003|958331|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.189	0.189	0.0028	0.0145	0.0032	09:55:47	Yes
2	0.190	0.190	0.0028	0.0147	0.0032	09:56:17	Yes
Mean:	0.189	0.189	0.0028				
SD:	0.001	0.001	0.0000				
%RSD:	0.330	0.330	0.27				

Sequence No.: 21

Autosampler Location: 21

Sample ID: 246870004|958331|1

Date Collected: 3/1/2010 09:56:37

Analyst: JXL

Data Type: Original

Replicate Data: 246870004|958331|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.245	0.245	0.0035	0.0176	0.0038	09:57:27	Yes
2	0.243	0.243	0.0035	0.0177	0.0038	09:57:57	Yes
Mean:	0.244	0.244	0.0035				
SD:	0.001	0.001	0.0000				
%RSD:	0.544	0.544	0.46				

Sequence No.: 22

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/1/2010 09:58:17

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.293	5.293	0.0637	0.3020	0.0640	09:59:07	Yes
2	5.261	5.261	0.0633	0.2985	0.0636	09:59:37	Yes
Mean:	5.277	5.277	0.0635				
SD:	0.023	0.023	0.0003				
%RSD:	0.439	0.439	0.44				

QC value within limits for Hg 253.7 Recovery = 105.54%
All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/1/2010 09:59:56

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.047	-0.047	-0.0000	0.0013	0.0003	10:00:47	Yes
2	-0.046	-0.046	0.0000	0.0016	0.0004	10:01:17	Yes
Mean:	-0.047	-0.047	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	2.396	2.396	>999.9%				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 22

Sample ID: 246870005|958331|1

Date Collected: 3/1/2010 10:01:36

Analyst: JXL

Data Type: Original

Replicate Data: 246870005|958331|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.691	0.691	0.0088	0.0433	0.0091	10:02:28	Yes
2	0.688	0.688	0.0088	0.0431	0.0091	10:02:58	Yes

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.258	0.258	0.0036	0.0191	0.0040	10:10:53	Yes
2	0.266	0.266	0.0037	0.0197	0.0041	10:11:23	Yes
Mean:	0.262	0.262	0.0037				
SD:	0.005	0.005	0.0001				
%RSD:	1.985	1.985	1.69				

Sequence No.: 30

Autosampler Location: 28

Sample ID: 246872001|958331|1

Date Collected: 3/1/2010 10:11:42

Analyst: JXL

Data Type: Original

Replicate Data: 246872001|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.064	0.064	0.0013	0.0090	0.0017	10:12:33	Yes
2	0.064	0.064	0.0013	0.0086	0.0017	10:13:03	Yes
Mean:	0.064	0.064	0.0013				
SD:	0.000	0.000	0.0000				
%RSD:	0.373	0.373	0.22				

Sequence No.: 31

Autosampler Location: 29

Sample ID: 246872002|958331|1

Date Collected: 3/1/2010 10:13:22

Analyst: JXL

Data Type: Original

Replicate Data: 246872002|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.088	0.088	0.0016	0.0109	0.0020	10:14:13	Yes
2	0.093	0.093	0.0017	0.0115	0.0020	10:14:43	Yes
Mean:	0.091	0.091	0.0016				
SD:	0.004	0.004	0.0000				
%RSD:	4.256	4.256	2.81				

Sequence No.: 32

Autosampler Location: 30

Sample ID: 246872003|958331|1

Date Collected: 3/1/2010 10:15:02

Analyst: JXL

Data Type: Original

Replicate Data: 246872003|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.189	0.189	0.0028	0.0158	0.0032	10:15:52	Yes
2	0.182	0.182	0.0027	0.0147	0.0031	10:16:22	Yes
Mean:	0.186	0.186	0.0028				
SD:	0.005	0.005	0.0001				
%RSD:	2.554	2.554	2.04				

Sequence No.: 33

Autosampler Location: 31

Sample ID: 246872004|958331|1

Date Collected: 3/1/2010 10:16:41

Analyst: JXL

Data Type: Original

Replicate Data: 246872004|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.054	0.054	0.0012	0.0065	0.0016	10:17:32	Yes
2	0.060	0.060	0.0013	0.0076	0.0016	10:18:02	Yes
Mean:	0.057	0.057	0.0012				
SD:	0.004	0.004	0.0001				
%RSD:	7.498	7.498	4.14				

Sequence No.: 34

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/1/2010 10:18:21

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.230	5.230	0.0629	0.2958	0.0633	10:19:11	Yes
2	5.215	5.215	0.0627	0.2938	0.0631	10:19:41	Yes
Mean:	5.222	5.222	0.0628				
SD:	0.010	0.010	0.0001				
%RSD:	0.200	0.200	0.20				

QC value within limits for Hg 253.7 Recovery = 104.45%
All analyte(s) passed QC.

=====

Sequence No.: 35

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/1/2010 10:20:00

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.049	-0.049	-0.0000	0.0008	0.0003	10:20:51	Yes
2	-0.051	-0.051	-0.0000	0.0014	0.0003	10:21:21	Yes
Mean:	-0.050	-0.050	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	2.774	2.774	43.33				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 36

Autosampler Location: 32

Sample ID: 246872005|958331|1

Date Collected: 3/1/2010 10:21:41

Analyst: JXL

Data Type: Original

Replicate Data: 246872005|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.118	0.118	0.0020	0.0107	0.0023	10:22:32	Yes
2	0.122	0.122	0.0020	0.0115	0.0024	10:23:02	Yes
Mean:	0.120	0.120	0.0020				
SD:	0.003	0.003	0.0000				
%RSD:	2.228	2.228	1.60				

=====

Sequence No.: 37

Autosampler Location: 33

Sample ID: 246872006|958331|1

Date Collected: 3/1/2010 10:23:21

Analyst: JXL

Data Type: Original

Replicate Data: 246872006|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.122	0.122	0.0020	0.0110	0.0024	10:24:12	Yes
2	0.122	0.122	0.0020	0.0109	0.0024	10:24:42	Yes
Mean:	0.122	0.122	0.0020				
SD:	0.000	0.000	0.0000				
%RSD:	0.067	0.067	0.05				

=====

Sequence No.: 38

Autosampler Location: 34

Sample ID: 246872007|958331|1

Date Collected: 3/1/2010 10:25:02

Analyst: JXL

Data Type: Original

Replicate Data: 246872007|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.088	0.088	0.0016	0.0097	0.0020	10:25:53	Yes

2	0.093	0.093	0.0017	0.0104	0.0020	10:26:23	Yes
Mean:	0.090	0.090	0.0016				
SD:	0.003	0.003	0.0000				
%RSD:	3.825	3.825	2.52				

Sequence No.: 39

Autosampler Location: 35

Sample ID: 246872008|958331|1

Date Collected: 3/1/2010 10:26:43

Analyst: JXL

Data Type: Original

Replicate Data: 246872008|958331|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.107	0.107	0.0018	0.0128	0.0022	10:27:35	Yes
2	0.107	0.107	0.0018	0.0126	0.0022	10:28:05	Yes
Mean:	0.107	0.107	0.0018				
SD:	0.000	0.000	0.0000				
%RSD:	0.455	0.455	0.32				

Sequence No.: 40

Autosampler Location: 36

Sample ID: 1202055200|958334|1

Date Collected: 3/1/2010 10:28:25

Analyst: JXL

Data Type: Original

Replicate Data: 1202055200|958334|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.045	-0.045	0.0000	0.0023	0.0004	10:29:16	Yes
2	-0.047	-0.047	-0.0000	0.0022	0.0004	10:29:46	Yes
Mean:	-0.046	-0.046	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	3.052	3.052	154.86				

Sequence No.: 41

Autosampler Location: 37

Sample ID: 1202055201|958334|10

Date Collected: 3/1/2010 10:30:06

Analyst: JXL

Data Type: Original

Replicate Data: 1202055201|958334|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.797	3.797	0.0458	0.2159	0.0462	10:30:58	Yes
2	3.771	3.771	0.0455	0.2133	0.0459	10:31:28	Yes
Mean:	3.784	3.784	0.0457				
SD:	0.018	0.018	0.0002				
%RSD:	0.487	0.487	0.48				

Sequence No.: 42

Autosampler Location: 38

Sample ID: 246887001|958334|1

Date Collected: 3/1/2010 10:31:48

Analyst: JXL

Data Type: Original

Replicate Data: 246887001|958334|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.402	0.402	0.0053	0.0265	0.0057	10:32:39	Yes
2	0.387	0.387	0.0052	0.0263	0.0055	10:33:09	Yes
Mean:	0.394	0.394	0.0053				
SD:	0.010	0.010	0.0001				
%RSD:	2.635	2.635	2.36				

Sequence No.: 43

Autosampler Location: 39

Sample ID: 246887002|958334|1

Date Collected: 3/1/2010 10:33:28

Analyst: JXL

Data Type: Original

Replicate Data: 246887002|958334|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.192	0.192	0.0028	0.0151	0.0032	10:34:19	Yes
2	0.197	0.197	0.0029	0.0158	0.0033	10:34:49	Yes
Mean:	0.194	0.194	0.0029				
SD:	0.004	0.004	0.0000				
%RSD:	1.879	1.879	1.52				

Sequence No.: 44

Autosampler Location: 40

Sample ID: 246887003|958334|1

Date Collected: 3/1/2010 10:35:09

Analyst: JXL

Data Type: Original

Replicate Data: 246887003|958334|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.710	0.710	0.0090	0.0450	0.0094	10:36:00	Yes
2	0.715	0.715	0.0091	0.0447	0.0094	10:36:30	Yes
Mean:	0.713	0.713	0.0090				
SD:	0.003	0.003	0.0000				
%RSD:	0.413	0.413	0.39				

Sequence No.: 45

Autosampler Location: 41

Sample ID: 246887004|958334|1

Date Collected: 3/1/2010 10:36:49

Analyst: JXL

Data Type: Original

Replicate Data: 246887004|958334|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.450	0.450	0.0059	0.0306	0.0063	10:37:40	Yes
2	0.439	0.439	0.0058	0.0293	0.0061	10:38:10	Yes
Mean:	0.445	0.445	0.0059				
SD:	0.008	0.008	0.0001				
%RSD:	1.784	1.784	1.62				

Sequence No.: 46

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/1/2010 10:38:30

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.928	4.928	0.0593	0.2779	0.0597	10:39:20	Yes
2	4.903	4.903	0.0590	0.2751	0.0594	10:39:50	Yes
Mean:	4.915	4.915	0.0591				
SD:	0.018	0.018	0.0002				
%RSD:	0.363	0.363	0.36				

QC value within limits for Hg 253.7 Recovery = 98.30%
All analyte(s) passed QC.

Sequence No.: 47

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/1/2010 10:40:09

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.043	-0.043	0.0000	0.0025	0.0004	10:40:59	Yes
2	-0.046	-0.046	0.0000	0.0019	0.0004	10:41:29	Yes
Mean:	-0.044	-0.044	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	4.810	4.810	102.10				

QC value within limits for Hg 253.7 Recovery = Not calculated

Miscellaneous

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 952952.0
 Analyst: Francena Armstrong
 Method: SW846 3050B
 Lab SOP: GL-MA-E-009 REV# 19
 Instrument: Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202042581	Metals Soil LCS SRM ICP/Hg	U1062540-1	.508	g
MS	1202042579	Metals Spike Mix I	U1100205-01	.25	mL
MS	1202042579	Metals Spike Mix II	U1100205-06	.25	mL
MSD	1202042580	Metals Spike Mix I	U1100205-01	.25	mL
MSD	1202042580	Metals Spike Mix II	U1100205-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check I
1202042576 MB	23-FEB-2010 12:45:00	Soil	0.51	50	98.03922	
1202042581 LCS	23-FEB-2010 12:45:00	Soil	0.508	50	98.4252	
246872001	23-FEB-2010 12:45:00	Soil	0.525	50	95.2381	
1202042577 DUP (246872001)	23-FEB-2010 12:45:00	Soil	0.523	50	95.60229	
1202042578 SDILT (246872001)	23-FEB-2010 12:45:00	Soil	0.525	50	95.2381	
1202042579 MS (246872001)	23-FEB-2010 12:45:00	Soil	0.5	50	100	
1202042580 MSD (246872001)	23-FEB-2010 12:45:00	Soil	0.501	50	99.8004	
246872002	23-FEB-2010 12:45:00	Soil	0.5	50	100	
246872003	23-FEB-2010 12:45:00	Soil	0.522	50	95.78544	
246872004	23-FEB-2010 12:45:00	Soil	0.507	50	98.61933	
246872005	23-FEB-2010 12:45:00	Soil	0.518	50	96.5251	
246872006	23-FEB-2010 12:45:00	Soil	0.519	50	96.33911	
246872007	23-FEB-2010 12:45:00	Soil	0.522	50	95.78544	
246872008	23-FEB-2010 12:45:00	Soil	0.512	50	97.65625	

Reagent/Solvent Lot ID	Description	Amount	Comments:
1265209	HYDROCHLORIC ACID	10 mL	Dark brown granular soil.
1268732	Nitric Acid CONC.	1.25 mL	

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 952954.0 Verified by: _____ Lab SOP: GL-MA-E-009 REV# 19
Analyst: Barry Audain Instrument: Sartorius Balance B-001
Method: SW846 3050B

Sample ID	Run Date	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202042582 MB	24-FEB-2010 17:57:00	0.524	50	95.41985	
1202042587 LCS	24-FEB-2010 17:57:00	0.525	50	95.2381	
246872001	24-FEB-2010 17:57:00	0.519	50	96.33911	
1202042583 DUP (246872001)	24-FEB-2010 17:57:00	0.516	50	96.89922	
1202042584 SDILT (246872001)	24-FEB-2010 17:57:00	0.519	50	96.33911	
1202042585 MS (246872001)	24-FEB-2010 17:57:00	0.525	50	95.2381	
1202042586 MSD (246872001)	24-FEB-2010 17:57:00	0.507	50	98.61933	
246872002	24-FEB-2010 17:57:00	0.501	50	99.8004	
246872003	24-FEB-2010 17:57:00	0.525	50	95.2381	
246872004	24-FEB-2010 17:57:00	0.516	50	96.89922	
246872005	24-FEB-2010 17:57:00	0.515	50	97.08738	
246872006	24-FEB-2010 17:57:00	0.508	50	98.4252	
246872007	24-FEB-2010 17:57:00	0.504	50	99.20635	
246872008	24-FEB-2010 17:57:00	0.521	50	95.96929	

Comments:

sample#246872001 is a dark, brown granular soil.

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1202042587	Metals Soil LCS SRM ICPMS	UJ062540-MS	.525	g
MS	1202042585	ICP-MS Spike for soil products.	UJ091015-A	.5	mL
MS	1202042585	ICP-MS Spike for Soil Products	UJ091015-B	.5	mL
MSD	1202042586	ICP-MS Spike for soil products.	UJ091015-A	.5	mL
MSD	1202042586	ICP-MS Spike for Soil Products	UJ091015-B	.5	mL
REGNT	All	Hydrogen Peroxide 30%	1250038-02	1.5	mL
REGNT	All	Nitric Acid CONC.	1268732	.5	mL

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 960012.0

Analyst: Anthony Green

Method: SW846 3050B

Lab SOP: GL-MA-E-009 REV# 19

Instrument: BAL-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202059111	Metals Soil LCS SRM ICP/Hg	U1062540-1	.51	g
MS	1202042579	Metals Spike Mix I	U1100205-01	.25	mL
MS	1202042579	Metals Spike Mix II	U1100205-06	.25	mL
MSD	1202042580	Metals Spike Mix I	U1100205-01	.25	mL
MSD	1202042580	Metals Spike Mix II	U1100205-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202059110 MB	03-MAR-2010 08:00:00	Soil	0.583	50	85.76329	
1202059111 LCS	03-MAR-2010 08:00:00	Soil	0.51	50	98.03922	
246872001 - 2	03-MAR-2010 08:00:00	Soil	0.524	50	95.41985	
1202042577 - 2 DUP (246872001)	03-MAR-2010 08:00:00	Soil	0.52	50	96.15385	
1202042578 - 2 SDILT (246872001)	03-MAR-2010 08:00:00	Soil	0.524	50	95.41985	
1202042579 - 2 MS (246872001)	03-MAR-2010 08:00:00	Soil	0.548	50	91.24088	
1202042580 - 2 MSD (246872001)	03-MAR-2010 08:00:00	Soil	0.536	50	93.28358	
246872002 - 2	03-MAR-2010 08:00:00	Soil	0.529	50	94.51796	
246872003 - 2	03-MAR-2010 08:00:00	Soil	0.521	50	95.96929	
246872004 - 2	03-MAR-2010 08:00:00	Soil	0.526	50	95.05703	
246872005 - 2	03-MAR-2010 08:00:00	Soil	0.501	50	99.8004	
246872006 - 2	03-MAR-2010 08:00:00	Soil	0.528	50	94.69697	
246872007 - 2	03-MAR-2010 08:00:00	Soil	0.517	50	96.7118	
246872008 - 2	03-MAR-2010 08:00:00	Soil	0.501	50	99.8004	

Reagent/Solvent Lot ID	Description	Amount	Comments:
1277916	HYDROCHLORIC ACID	10 mL	Sample 246872001 consist of brown, moist, gravel-like soil with plant matter.
1277919	Nitric Acid CONC.	1.25 mL	

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 958328.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst: Tara Griffin		LCS	1202055195	Metals LCS Soil SRM	U1031809A	.202	g
Method: SW846 7471A Prep		MS	1202055197	Mercury soil working intermediate standard for MS	WHG100228-14	.3	mL
Lab SOP: GL-MA-E-010 REV# 23		MSD	1202055199	Mercury soil working intermediate standard for MS	WHG100228-14	.3	mL
Instrument: BAL-002							

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202055194 MB	28-FEB-2010 13:15:00	Soil	0.503	30	59.64215	
1202055195 LCS	28-FEB-2010 13:15:00	Soil	0.202	30	148.51485	
246870001	28-FEB-2010 13:15:00	Soil	0.594	30	50.50505	
1202055196 DUP (246870001)	28-FEB-2010 13:15:00	Soil	0.579	30	51.81347	
1202055197 MS (246870001)	28-FEB-2010 13:15:00	Soil	0.536	30	55.97015	
1202055199 MSD (246870001)	28-FEB-2010 13:15:00	Soil	0.557	30	53.85996	
1202055198 SDILT (246870001)	28-FEB-2010 13:15:00	Soil	0.594	30	50.50505	
246870002	28-FEB-2010 13:15:00	Soil	0.526	30	57.03422	
246870003	28-FEB-2010 13:15:00	Soil	0.598	30	50.16722	
246870004	28-FEB-2010 13:15:00	Soil	0.522	30	57.47126	
246870005	28-FEB-2010 13:15:00	Soil	0.546	30	54.94505	
246870006	28-FEB-2010 13:15:00	Soil	0.513	30	58.47953	
246870007	28-FEB-2010 13:15:00	Soil	0.548	30	54.74453	
246870008	28-FEB-2010 13:15:00	Soil	0.535	30	56.07477	
246870009	28-FEB-2010 13:15:00	Soil	0.523	30	57.36138	
246870010	28-FEB-2010 13:15:00	Soil	0.522	30	57.47126	
246872001	28-FEB-2010 13:15:00	Soil	0.575	30	52.17391	
246872002	28-FEB-2010 13:15:00	Soil	0.552	30	54.34783	
246872003	28-FEB-2010 13:15:00	Soil	0.526	30	57.03422	
246872004	28-FEB-2010 13:15:00	Soil	0.528	30	56.81818	
246872005	28-FEB-2010 13:15:00	Soil	0.528	30	56.81818	
246872006	28-FEB-2010 13:15:00	Soil	0.556	30	53.95683	
246872007	28-FEB-2010 13:15:00	Soil	0.507	30	59.1716	
246872008	28-FEB-2010 13:15:00	Soil	0.513	30	58.47953	

Comments:

Amount

Description

Reagent/Solvent Lot ID

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 958328.0
Analyst: Tara Griffin
Method: SW846 7471A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: BAL-002

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202055195	Metals LCS Soil SRM	UI031809A	.202	g
MS	1202055197	Mercury soil working intermediate standard for MS	WHG100228-14	.3	mL
MSD	1202055199	Mercury soil working intermediate standard for MS	WHG100228-14	.3	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check	1
1255532-C	Hg reducing agent	2 mL					
1274391-I	NITRIC ACID	.375 mL					
1274394-A	Hydrochloric Acid Conc.	1.125 mL					
1274397-C	5% KMnO4 solution	7.5 mL					
WHG100228-07	Mercury Working Standard 1st Source CAL S	30 uL					
WHG100228-08	0.2/CRA	75 uL					
WHG100228-09	Mercury Working Standard 1st Source CAL S	300 uL					
WHG100228-10	Mercury Working 1st Source CAL S 5.0/CCV	750 uL					
WHG100228-11	Mercury Working 1st Source CAL S 10.0	1.5 mL					
WHG100228-12	Mercury Working 2nd Source S 5.0/CCV	750 uL					

Sample 246870001 is a brown rocky soil.
Digestion Start Date: 28-FEB-10 13:15
Digestion End Date: 28-FEB-10 13:45

DATA EXCEPTION REPORT

Mo. Day Yr. 01-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 952953	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 246872(10-1759-1)			
Application Issues: Failed Recovery for MS/PS Failed RPD for DUP Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/PS: QC 1202042579MS 2. Failed RPD for DUP: QC 1202042577DUP 3. Failed Recovery for MSD/PSD: QC 1202042580MSD		1. The matrix spike recovery failed outside of the control limits for aluminum and calcium 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 manganese 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 duplicate recovery failed outside of the control limits for aluminum 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 02-MAR-10

Data Validator/Group Leader:

Christopher Louviere 03-MAR-10

DATA EXCEPTION REPORT

Mo. Day Yr. 09-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 960016	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 246872(10-1759-1)			
Application Issues: Failed Recovery for MS/PS Failed RPD for MS/MSD, or PS/PSD Failed RPD for DUP			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/PS: QC 1202042579MS 2. Failed RPD for DUP: QC 1202042577DUP 3. Failed RPD for MS/MSD, or PS/PSD: QC 1202042580MSD		1. The matrix spike recovery failed outside of the control limits for barium 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 zinc 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 barium 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.	

Originator's Name:

Helen Camello 09-MAR-10

Data Validator/Group Leader:

Eric Lawson 09-MAR-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expres:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Standard Logbook

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: 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:** 01-MAR-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: 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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Serial ID: 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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: Q2SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: 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: Q2SI
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: Q2SI
Description: ICPMS ICSAB Master C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L
Zirconium	2 mg/L		

Serial ID: 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: Q2SI
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: Q2SI
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI100210-48 **Opened:** 11-FEB-10 **Amount :** 1000 mL
Name: Trace ICP ICESA **Received:** 10-FEB-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 04-MAR-10 **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

Standard Logbook

Description: ICP HIGH RANGE STD SOLUTION B

Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UI100217-48 **Opened:** 04-MAR-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 17-FEB-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 04-MAR-11 **Lot Number :** 1018878
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: 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: UI100226-40 **Opened:** 26-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 25-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 1018981
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI100226-41 **Opened:** 26-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 25-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 1018981
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCaSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Standard Logbook

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCaSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100228-01 **Opened:** 28-FEB-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 28-FEB-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 01-MAR-10 **Solvent :** 1mL HNO3 + Typel H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100228-02 **Opened:** 28-FEB-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 28-FEB-10 **Solvent :** 2% HNO3-1274391
Type: Intermediate **Expires:** 01-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L

Standard Logbook

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: WHG100228-07 Opened: 28-FEB-10 Pipet Id : Hg1289245
 Name: MHGWORKCALS0.2CRA Received: 28-FEB-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 07-MAR-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: Mercury Working Standard 1st Source CAL S 0.2/CRA
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100228-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Serial ID: WHG100228-08 Opened: 28-FEB-10 Pipet Id : Hg1289245
 Name: MHGWORKCALS0.5 Received: 28-FEB-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 07-MAR-10
 Employee: Tara Griffin Verified: 20-JUL-07
 Supplier: GEL
 Description: Mercury Working Standard 1st Source CAL S 0.5
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100228-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100228-09 Opened: 28-FEB-10 Pipet Id : Hg1289245
 Name: MHGWORKCALS2.0 Received: 28-FEB-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 07-MAR-10
 Employee: Tara Griffin Verified: 20-JUL-07
 Supplier: GEL
 Description: Mercury Working 1st Source CAL S 2.0
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100228-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100228-10 Opened: 28-FEB-10 Pipet Id : Hg1289245
 Name: MHGWORKCALS5.0CCV Received: 28-FEB-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 07-MAR-10
 Employee: Tara Griffin Verified: 20-JUL-07
 Supplier: GEL
 Description: Mercury Working 1st Source CAL S 5.0/CCV
 Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100228-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100228-11 Opened: 28-FEB-10 Pipet Id : Hg1289245
 Name: MHGWORKCAL S10.0 Received: 28-FEB-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 07-MAR-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: Mercury Working 1st Source CAL S 10.0
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100228-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Serial ID: WHG100228-12 Opened: 28-FEB-10 Pipet Id : Hg1289245
 Name: MHGWORKS5.0ICV Received: 28-FEB-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 07-MAR-10
 Employee: Tara Griffin Verified: 20-JUL-07
 Supplier: GEL
 Description: Mercury Working 2nd Source S 5.0/ICV
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100228-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100228-14 Opened: 28-FEB-10 Pipet Id : Hg1289245
 Name: MHGSOILMSSPIKE Received: 28-FEB-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 07-MAR-10
 Employee: Tara Griffin Verified: 20-JUL-07
 Supplier: GEL
 Description: Mercury soil working intermediate standard for MS
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WI100226-43 Opened: 26-FEB-10 Balance Id : 216
 Name: TRACE ICP 0.5/CCV STD. Received: 02-NOV-09 Pipet Id : 3581809
 Type: Working Expires: 27-FEB-10 Solvent : 3%HCL and 1%HNO3 -1272839
 Employee: Helen Camello
 Supplier: GEL
 Description: TRACE ICP 0.5/CCV CALIBRATION STD.
 Comments: None

Standard Logbook

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
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: WMS100308-04 **Opened:** 08-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 08-MAR-10 **Balance Id :** 4025216
Type: Working **Expires:** 09-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1281622
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100308-04A **Opened:** 08-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 08-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 09-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100308-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100308-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100308-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100308-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100308-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100308-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100308-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100308-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100308-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100308-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100308-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100308-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100308-05 **Opened:** 08-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 08-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 09-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1281622
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100308-06

Name: ICPMS CRDL

Type: Working

Employee: Paul Boyd

Supplier: GEL

Description: ICPMS CRDL

Comments: None

Opened: 08-MAR-10

Received: 08-MAR-10

Expires: 09-MAR-10

Balance Id : 40245216

Pipet Id : 3820544

Solvent : 2%HNO3/1%HCl - 1281622

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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100308-07 **Opened:** 08-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 08-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 09-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1281622
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100308-08 **Opened:** 08-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 08-MAR-10 **Pipet Id :** 1758088
Type: Working **Expres:** 09-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1281622
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	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

Serial ID: 1100721TCPL **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: 1228372-A **Opened:** 12-NOV-09 **Lot Number :** 49215936
Name: B-NH2OH.HCl-MER **Received:** 12-NOV-09
Type: Reagent/Solvent **Expires:** 12-NOV-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
Comments: None

Serial ID: 1250038-02 **Opened:** 04-JAN-10 **Lot Number :** ZU74081198 mL
Name: B-H2O2 **Received:** 04-JAN-10
Type: Reagent/Solvent **Expires:** 04-JAN-11
Employee: Bryan Davis
Supplier: EM SCIENCE
Description: Hydrogen Peroxide 30%
Comments: None

Standard Logbook

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hq 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: 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: 1268732 **Opened:** 11-FEB-10 **Lot Number :** H12022 L
Name: I-HNO3 **Received:** 11-FEB-10
Type: Reagent/Solvent **Expires:** 11-FEB-11
Employee: Bryan Davis
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 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

Serial ID: 1274391-1 **Opened:** 24-FEB-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 24-FEB-10 **Lot Number :** H44025
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Standard Logbook

Serial ID: 1274394-A **Opened:** 24-FEB-10 **Lot Number :** J02039
Name: B-HCl-MER **Received:** 24-FEB-10
Type: Reagent/Solvent **Expires:** 01-MAR-10
Employee: Tara Griffin
Supplier: J.T. Baker
Description: Hydrochloric Acid Conc.
Comments: None

Serial ID: 1274397-C **Opened:** 24-FEB-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 24-FEB-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1276974 **Opened:** 01-MAR-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 25-FEB-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 07-MAR-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Serial ID: 1277916 **Opened:** 02-MAR-10 **Lot Number :** J02039
Name: I-HCL **Received:** 02-MAR-10 **Preservative Id :** 5 none
Type: Reagent/Solvent **Expires:** 02-MAR-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1277919 **Opened:** 02-MAR-10 **Lot Number :** J 04043 L
Name: I-HNO3 **Received:** 02-MAR-10
Type: Reagent/Solvent **Expires:** 02-MAR-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Standard Logbook

Serial ID: 1281622 **Opened:** 08-MAR-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 08-MAR-10
Type: Reagent/Solvent **Expires:** 15-MAR-10
Employee: Paul Boyd
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
100202	I-HCL	36.5-38.0	90 mL	9 l	N/A
1100721TCLP	I-HNO3	69.0-70.0	180 mL	9 l	N/A

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1759**

Method/Analysis Information

Product:	Cyanide, Total		
Analytical Batch:	953089	Method:	SW9012A Cyanide and Total
Prep Batch :	953087	Method:	SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
246871001	RE15-10-8380
1202042861	Method Blank (MB)
1202042862	246842001(RE16-10-1239) Sample Duplicate (DUP)
1202042863	246878001(NPDES03A185-10-12209) Sample Duplicate (DUP)
1202042864	246842001(RE16-10-1239) Matrix Spike (MS)
1202042865	246878001(NPDES03A185-10-12209) Matrix Spike (MS)
1202042866	246842001(RE16-10-1239) Matrix Spike Duplicate (MSD)
1202042867	246878001(NPDES03A185-10-12209) Matrix Spike Duplicate (MSD)
1202042868	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: 246842001 (RE16-10-1239) and 246878001 (NPDES03A185-10-12209).

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. 1202042863 (NPDES03A185-10-12209).

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:  Date: 10Mar10

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: 10-1759 GEL Work Order: 246871

The Qualifiers in this report are defined as follows:

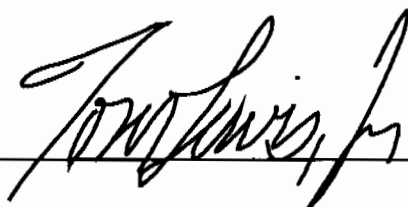
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

A handwritten signature in black ink, appearing to read 'Valerie Davis', is written over a horizontal line.

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759

Client Sample ID: RE15-10-8380
Sample ID: 246871001
Matrix: W
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	02/17/10	1111	953089	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/16/10	1532	953087

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: March 6, 2010

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

Contact:

Workorder: 246871

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	953089										
QC1202042862	246842001	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A		AXC2	02/17/10	11:06
QC1202042863	246878001	DUP									
Cyanide, Total		U	ND	J	2.26	ug/L	200	(+/-5.00)		02/17/10	11:17
QC1202042868	LCS										
Cyanide, Total	50.0				53.6	ug/L	107	(90%-110%)		02/17/10	10:57
QC1202042861	MB										
Cyanide, Total			U		5.00	ug/L				02/17/10	10:56
QC1202042864	246842001	MS									
Cyanide, Total	100	U	ND		109	ug/L	109	(60%-144%)		02/17/10	11:07
QC1202042865	246878001	MS									
Cyanide, Total	100	U	ND		94.4	ug/L	93.7	(60%-144%)		02/17/10	11:18
QC1202042866	246842001	MSD									
Cyanide, Total	100	U	ND		109	ug/L	0.00	(0%-20%)		02/17/10	11:08
QC1202042867	246878001	MSD									
Cyanide, Total	100	U	ND		112	ug/L	17.1	(0%-20%)		02/17/10	11:19

Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.

GEL LABORATORIES LLC

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QC Summary

Workorder: 246871

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 06-MAR-2010 15:15

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1759

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	17-FEB-2010 10:20:19	OM_2-17-2010_10-09-49	162	150	108	(90%-110%)	Yes
CCV	17-FEB-2010 10:47:02	OM_2-17-2010_10-09-49	102	100	102	(90%-110%)	Yes
CCV	17-FEB-2010 10:59:25	OM_2-17-2010_10-09-49	101	100	101	(90%-110%)	Yes
CCV	17-FEB-2010 11:11:56	OM_2-17-2010_10-09-49	102	100	102	(90%-110%)	Yes
CCV	17-FEB-2010 11:24:24	OM_2-17-2010_10-09-49	102	100	102	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	17-FEB-2010 10:22:09	OM_2-17-2010_10-09-49	-1.26	10	Yes
CCB	17-FEB-2010 10:48:52	OM_2-17-2010_10-09-49	-1.04	10	Yes
CCB	17-FEB-2010 11:01:15	OM_2-17-2010_10-09-49	-1.09	10	Yes
CCB	17-FEB-2010 11:13:46	OM_2-17-2010_10-09-49	-1.37	10	Yes
CCB	17-FEB-2010 11:26:15	OM_2-17-2010_10-09-49	-1.32	10	Yes

Cyanide, Total

Prep LogBook

Analyst: AXSS
 Batch: 953087
 Lab SOP: GL-GC-E-067 REV# 13

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202042868	URF1269274-02	.0125	mL
MS	1202042864	URF1269274-02	.025	mL
MS	1202042865	URF1269274-02	.025	mL
MSD	1202042866	URF1269274-02	.025	mL
MSD	1202042867	URF1269274-02	.025	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202042861		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
LCS	1202042868		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246531002		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246755001		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246755002		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246838001		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246842001		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
DUP	1202042862	246842001	SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
MS	1202042864	246842001	SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
MSD	1202042866	246842001	SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246844001		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246853001		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246871001		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246878001		EPA 335.4	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WASTE WATER
DUP	1202042863	246878001	EPA 335.4	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WASTE WATER
MS	1202042865	246878001	EPA 335.4	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WASTE WATER
MSD	1202042867	246878001	EPA 335.4	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WASTE WATER
SAMPLE	246882001		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246882002		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246883001		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246883002		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246883003		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246883004		SW846 9010B Prep	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WATER
SAMPLE	246894001		EPA 335.4	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WASTE WATER
SAMPLE	246923002		EPA 335.4	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WASTE WATER
SAMPLE	246924002		EPA 335.4	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WASTE WATER
SAMPLE	246937002		EPA 335.4	16-FEB-2010 15:32	>12	25 mL	25 mL	1	WASTE WATER
SAMPLE	247024001		SW846 9010B Prep	16-FEB-2010 15:32	9	25 mL	25 mL	1	MISC LIQUID

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments
100210-C	25 mL	0.25N Sodium Hydroxide Solution	Sample 247024001 was not preserved and had a pH of 9. The PM was notified and instructed to run as is.
WCN100216-07	.0375 mL	150 ppb CN Distilled ICV Standard	
1270663-C	1.25 mL	0.8N H3NO3S	
1260189-C	2.5 mL	50% H2SO4 CN Prep	
1270669-C	1 mL	51% MgCl2 Soln	
1270661-C	1.25 mL	Bismuth Nitrate Solution	

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	2/17/2010 10:13:10	OM_2-17-2010_10-09-49
150 ppb		1	axc2	2/17/2010 10:14:02	OM_2-17-2010_10-09-49
100 ppb		1	axc2	2/17/2010 10:14:54	OM_2-17-2010_10-09-49
50 ppb		1	axc2	2/17/2010 10:15:47	OM_2-17-2010_10-09-49
10 ppb		1	axc2	2/17/2010 10:16:40	OM_2-17-2010_10-09-49
CRDL 5.0 ppb		1	axc2	2/17/2010 10:17:34	OM_2-17-2010_10-09-49
ICAL-00		1	axc2	2/17/2010 10:18:29	OM_2-17-2010_10-09-49
ICV		1	axc2	2/17/2010 10:20:19	OM_2-17-2010_10-09-49
ICB		1	axc2	2/17/2010 10:22:09	OM_2-17-2010_10-09-49
		1	axc2	2/17/2010 10:23:59	OM_2-17-2010_10-09-49
1202036044	950203	1	axc2	2/17/2010 10:25:48	OM_2-17-2010_10-09-49
1202036051	950203	25	axc2	2/17/2010 10:26:42	OM_2-17-2010_10-09-49
246432001	950203	1	axc2	2/17/2010 10:27:35	OM_2-17-2010_10-09-49
246432002	950203	1	axc2	2/17/2010 10:28:28	OM_2-17-2010_10-09-49
246432003	950203	1	axc2	2/17/2010 10:29:21	OM_2-17-2010_10-09-49
246432004	950203	1	axc2	2/17/2010 10:30:14	OM_2-17-2010_10-09-49
246432005	950203	1	axc2	2/17/2010 10:31:07	OM_2-17-2010_10-09-49
246432006	950203	1	axc2	2/17/2010 10:31:59	OM_2-17-2010_10-09-49
246432007	950203	1	axc2	2/17/2010 10:32:51	OM_2-17-2010_10-09-49
246432008	950203	1	axc2	2/17/2010 10:33:44	OM_2-17-2010_10-09-49
CCV		1	axc2	2/17/2010 10:34:36	OM_2-17-2010_10-09-49
CCB		1	axc2	2/17/2010 10:36:26	OM_2-17-2010_10-09-49
246432009	950203	1	axc2	2/17/2010 10:38:15	OM_2-17-2010_10-09-49
246432010	950203	1	axc2	2/17/2010 10:39:07	OM_2-17-2010_10-09-49
246443005	950203	1	axc2	2/17/2010 10:39:59	OM_2-17-2010_10-09-49
1202036045	950203	1	axc2	2/17/2010 10:40:50	OM_2-17-2010_10-09-49
1202036047	950203	1	axc2	2/17/2010 10:41:41	OM_2-17-2010_10-09-49
1202036049	950203	1	axc2	2/17/2010 10:42:36	OM_2-17-2010_10-09-49
246477002	950203	1	axc2	2/17/2010 10:43:29	OM_2-17-2010_10-09-49
1202036046	950203	1	axc2	2/17/2010 10:44:22	OM_2-17-2010_10-09-49
1202036048	950203	1	axc2	2/17/2010 10:45:16	OM_2-17-2010_10-09-49
1202036050	950203	1	axc2	2/17/2010 10:46:09	OM_2-17-2010_10-09-49
CCV		1	axc2	2/17/2010 10:47:02	OM_2-17-2010_10-09-49
CCB		1	axc2	2/17/2010 10:48:52	OM_2-17-2010_10-09-49
246754005	950203	1	axc2	2/17/2010 10:50:42	OM_2-17-2010_10-09-49
246754006	950203	1	axc2	2/17/2010 10:51:34	OM_2-17-2010_10-09-49
246754007	950203	1	axc2	2/17/2010 10:52:27	OM_2-17-2010_10-09-49
246754008	950203	1	axc2	2/17/2010 10:53:19	OM_2-17-2010_10-09-49
246754009	950203	1	axc2	2/17/2010 10:54:13	OM_2-17-2010_10-09-49
246754010	950203	1	axc2	2/17/2010 10:55:04	OM_2-17-2010_10-09-49
246754011	950203	1	axc2	2/17/2010 10:55:57	OM_2-17-2010_10-09-49
1202042861	953089	1	axc2	2/17/2010 10:56:49	OM_2-17-2010_10-09-49
1202042868	953089	1	axc2	2/17/2010 10:57:40	OM_2-17-2010_10-09-49
246531002	953089	1	axc2	2/17/2010 10:58:33	OM_2-17-2010_10-09-49
CCV		1	axc2	2/17/2010 10:59:25	OM_2-17-2010_10-09-49
CCB		1	axc2	2/17/2010 11:01:15	OM_2-17-2010_10-09-49
246755001	953089	1	axc2	2/17/2010 11:03:05	OM_2-17-2010_10-09-49
246755002	953089	1	axc2	2/17/2010 11:03:58	OM_2-17-2010_10-09-49
246838001	953089	1	axc2	2/17/2010 11:04:52	OM_2-17-2010_10-09-49
246842001	953089	1	axc2	2/17/2010 11:05:45	OM_2-17-2010_10-09-49
1202042862	953089	1	axc2	2/17/2010 11:06:39	OM_2-17-2010_10-09-49
1202042864	953089	1	axc2	2/17/2010 11:07:32	OM_2-17-2010_10-09-49
1202042866	953089	1	axc2	2/17/2010 11:08:26	OM_2-17-2010_10-09-49
246844001	953089	1	axc2	2/17/2010 11:09:18	OM_2-17-2010_10-09-49
246853001	953089	1	axc2	2/17/2010 11:10:11	OM_2-17-2010_10-09-49
246871001	953089	1	axc2	2/17/2010 11:11:04	OM_2-17-2010_10-09-49
CCV		1	axc2	2/17/2010 11:11:56	OM_2-17-2010_10-09-49
CCB		1	axc2	2/17/2010 11:13:46	OM_2-17-2010_10-09-49

247024001	953089	1	axc2	2/17/2010	11:15:35	OM_2-17-2010_10-09-49
246878001	953089	1	axc2	2/17/2010	11:16:27	OM_2-17-2010_10-09-49
1202042863	953089	1	axc2	2/17/2010	11:17:19	OM_2-17-2010_10-09-49
1202042865	953089	1	axc2	2/17/2010	11:18:12	OM_2-17-2010_10-09-49
1202042867	953089	1	axc2	2/17/2010	11:19:03	OM_2-17-2010_10-09-49
246882001	953089	1	axc2	2/17/2010	11:19:56	OM_2-17-2010_10-09-49
246882002	953089	1	axc2	2/17/2010	11:20:50	OM_2-17-2010_10-09-49
246883001	953089	1	axc2	2/17/2010	11:21:44	OM_2-17-2010_10-09-49
246883002	953089	1	axc2	2/17/2010	11:22:39	OM_2-17-2010_10-09-49
246883003	953089	1	axc2	2/17/2010	11:23:31	OM_2-17-2010_10-09-49
CCV		1	axc2	2/17/2010	11:24:24	OM_2-17-2010_10-09-49
CCB		1	axc2	2/17/2010	11:26:15	OM_2-17-2010_10-09-49
246883004	953089	1	axc2	2/17/2010	11:28:04	OM_2-17-2010_10-09-49
246894001	953089	1	axc2	2/17/2010	11:28:57	OM_2-17-2010_10-09-49
246923002	953089	1	axc2	2/17/2010	11:29:51	OM_2-17-2010_10-09-49
246924002	953089	1	axc2	2/17/2010	11:30:44	OM_2-17-2010_10-09-49
246937002	953089	1	axc2	2/17/2010	11:31:37	OM_2-17-2010_10-09-49
247024001	953089	2	axc2	2/17/2010	11:32:29	OM_2-17-2010_10-09-49
1202040269	951961	1	axc2	2/17/2010	11:33:22	OM_2-17-2010_10-09-49
1202040276	951961	1	axc2	2/17/2010	11:34:15	OM_2-17-2010_10-09-49
246530001	951961	1	axc2	2/17/2010	11:35:07	OM_2-17-2010_10-09-49
246530002	951961	1	axc2	2/17/2010	11:36:00	OM_2-17-2010_10-09-49
CCV		1	axc2	2/17/2010	11:36:52	OM_2-17-2010_10-09-49
CCB		1	axc2	2/17/2010	11:38:42	OM_2-17-2010_10-09-49
246555001	951961	1	axc2	2/17/2010	11:40:30	OM_2-17-2010_10-09-49
246560001	951961	1	axc2	2/17/2010	11:41:24	OM_2-17-2010_10-09-49
246560002	951961	1	axc2	2/17/2010	11:42:19	OM_2-17-2010_10-09-49
246571001	951961	1	axc2	2/17/2010	11:43:12	OM_2-17-2010_10-09-49
246571002	951961	1	axc2	2/17/2010	11:44:06	OM_2-17-2010_10-09-49
246574001	951961	1	axc2	2/17/2010	11:45:00	OM_2-17-2010_10-09-49
1202040271	951961	1	axc2	2/17/2010	11:45:53	OM_2-17-2010_10-09-49
1202040273	951961	1	axc2	2/17/2010	11:46:47	OM_2-17-2010_10-09-49
1202040275	951961	1	axc2	2/17/2010	11:47:40	OM_2-17-2010_10-09-49
246590001	951961	1	axc2	2/17/2010	11:48:33	OM_2-17-2010_10-09-49
CCV		1	axc2	2/17/2010	11:49:25	OM_2-17-2010_10-09-49
CCB		1	axc2	2/17/2010	11:51:16	OM_2-17-2010_10-09-49
1202040270	951961	1	axc2	2/17/2010	11:53:04	OM_2-17-2010_10-09-49
1202040272	951961	1	axc2	2/17/2010	11:53:58	OM_2-17-2010_10-09-49
1202040274	951961	1	axc2	2/17/2010	11:54:49	OM_2-17-2010_10-09-49
246591001	951961	1	axc2	2/17/2010	11:55:42	OM_2-17-2010_10-09-49
246606001	951961	1	axc2	2/17/2010	11:56:34	OM_2-17-2010_10-09-49
246613001	951961	1	axc2	2/17/2010	11:57:27	OM_2-17-2010_10-09-49
246710001	951961	1	axc2	2/17/2010	11:58:22	OM_2-17-2010_10-09-49
246714002	951961	1	axc2	2/17/2010	11:59:16	OM_2-17-2010_10-09-49
246724001	951961	1	axc2	2/17/2010	12:00:10	OM_2-17-2010_10-09-49
246724002	951961	1	axc2	2/17/2010	12:01:04	OM_2-17-2010_10-09-49
CCV		1	axc2	2/17/2010	12:01:56	OM_2-17-2010_10-09-49
CCB		1	axc2	2/17/2010	12:03:47	OM_2-17-2010_10-09-49
246742001	951961	1	axc2	2/17/2010	12:05:37	OM_2-17-2010_10-09-49
246742002	951961	1	axc2	2/17/2010	12:06:30	OM_2-17-2010_10-09-49
246753001	951961	1	axc2	2/17/2010	12:07:23	OM_2-17-2010_10-09-49
246766001	951961	1	axc2	2/17/2010	12:08:17	OM_2-17-2010_10-09-49
CCV		1	axc2	2/17/2010	12:09:10	OM_2-17-2010_10-09-49
CCB		1	axc2	2/17/2010	12:11:00	OM_2-17-2010_10-09-49

Author: axc2

Date : 2/17/2010

Original Run Filename: OM_2-17-2010_10-09-49.OMN created 2/17/2010 10:09:49
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_2-17-2010_10-09-49.OMN last modified 2/17/2010 12:12:05
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN100217-01	1	S1	200	9.92	2/17/2010@10:13:10			200 ppb
WCN100217-02	1	S2	150	7.45	2/17/2010@10:14:02			150 ppb
WCN100217-03	1	S3	100	4.78	2/17/2010@10:14:54			100 ppb
WCN100217-04	1	S4	50.0	2.59	2/17/2010@10:15:47			50 ppb
WCN100217-05	1	S5	10.0	0.647	2/17/2010@10:16:40			10 ppb
WCN100217-06	1	S6	5.00	0.374	2/17/2010@10:17:34			CRDL 5.0 ppb
WCN100217-08	1	S7	0.00	0.0267	2/17/2010@10:18:29			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99970 > 0.99500					
Message			Pass					
Action			Continue					
WCN100217-07	1	S8	162	7.99	2/17/2010@10:20:19			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			7.7 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			7.7 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100217-08	1	S7	-1.26	0.0231	2/17/2010@10:22:09			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.26 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.26 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100217-06	1	S6	6.01	0.379	2/17/2010@10:23:59			
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			6.01 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			6.01 > 2.50					
Message			Pass					
Action			None					
1202036044|950203|MB	1	1	-1.71	0.00125	2/17/2010@10:25:48			
1202036051||LCS	1	2	29.7	1.54	2/17/2010@10:26:42		25.00	
246432001	1	3	-0.857	0.0429	2/17/2010@10:27:35			
246432002	1	4	-1.21	0.0258	2/17/2010@10:28:28			
246432003	1	5	-1.10	0.0307	2/17/2010@10:29:21			
246432004	1	6	-1.20	0.0260	2/17/2010@10:30:14			
246432005	1	7	-1.72	4.79e-4	2/17/2010@10:31:07			
246432006	1	8	1.78	0.172	2/17/2010@10:31:59			
246432007	1	9	-0.828	0.0443	2/17/2010@10:32:51			
246432008	1	10	-0.968	0.0374	2/17/2010@10:33:44			
WCN100217-03	1	S3	101	5.01	2/17/2010@10:34:36			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.8 < 10.0					

Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.8 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100217-08	1	S7	-1.10	0.0308	2/17/2010@10:36:26			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.10 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.10 > -5.00					
Message			CCB Passed					
Action			Continue					
246432009	1	11	-0.127	0.0786	2/17/2010@10:38:15			
246432010	1	12	-1.04	0.0339	2/17/2010@10:39:07			
246443005	1	13	-0.966	0.0376	2/17/2010@10:39:59			
1202036045|DUP	1	14	-0.853	0.0430	2/17/2010@10:40:50			
1202036047|MS	1	15	103	5.11	2/17/2010@10:41:41			
1202036049|MSD	1	16	98.4	4.90	2/17/2010@10:42:36			
246477002	1	17	0.420	0.105	2/17/2010@10:43:29			
1202036046|DUP	1	18	0.202	0.0947	2/17/2010@10:44:22			
1202036048|MS	1	19	96.1	4.79	2/17/2010@10:45:16			
1202036050|MSD	1	20	92.0	4.59	2/17/2010@10:46:09			
WCN100217-03	1	S3	102	5.05	2/17/2010@10:47:02			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					
WCN100217-08	1	S7	-1.04	0.0339	2/17/2010@10:48:52			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.04 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.04 > -5.00					
Message			CCB Passed					
Action			Continue					
246754005	1	21	-0.582	0.0563	2/17/2010@10:50:42			
246754006	1	22	-0.462	0.0622	2/17/2010@10:51:34			
246754007	1	23	2.95	0.229	2/17/2010@10:52:27			
246754008	1	24	-0.140	0.0779	2/17/2010@10:53:19			
246754009	1	25	-0.622	0.0544	2/17/2010@10:54:13			
246754010	1	26	-0.857	0.0429	2/17/2010@10:55:04			
246754011	1	27	-1.43	0.0147	2/17/2010@10:55:57			
1202042861|953089|MB	1	28	-1.74	-2.03e-4	2/17/2010@10:56:49			
1202042868|LCS	1	29	53.6	2.71	2/17/2010@10:57:40			
246531002	1	30	-0.820	0.0447	2/17/2010@10:58:33			
WCN100217-03	1	S3	101	5.02	2/17/2010@10:59:25			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.9 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.9 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100217-08	1	S7	-1.09	0.0315	2/17/2010@11:01:15			CCB
Known Conc:			0.00					

DQM Test: > + Concentration Limit						
Result:		-1.09 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.09 > -5.00				
Message		CCB Passed				
Action		Continue				
246755001	1	31	-1.29	0.0217	2/17/2010@11:03:05	
246755002	1	32	-1.44	0.0142	2/17/2010@11:03:58	
246838001	1	33	-1.88	-0.00736	2/17/2010@11:04:52	
246842001	1	34	-1.60	0.00632	2/17/2010@11:05:45	
1202042862	DUP	1	35	-1.47	0.0130	2/17/2010@11:06:39
1202042864	MS	1	36	109	5.40	2/17/2010@11:07:32
1202042866	MSD	1	37	109	5.41	2/17/2010@11:08:26
246844001	1	38	-1.05	0.0336	2/17/2010@11:09:18	
246853001	1	39	-0.789	0.0462	2/17/2010@11:10:11	
246871001	1	40	-1.72	4.87e-4	2/17/2010@11:11:04	
WCN100217-03	1	S3	102	5.09	2/17/2010@11:11:56	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		2.3 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		2.3 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100217-08	1	S7	-1.37	0.0175	2/17/2010@11:13:46	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.37 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.37 > -5.00				
Message		CCB Passed				
Action		Continue				
247024001	1	55	275	13.5	2/17/2010@11:15:35	
246878001	1	41	0.661	0.117	2/17/2010@11:16:27	
1202042863	DUP	1	42	2.26	0.196	2/17/2010@11:17:19
1202042865	MS	1	43	94.4	4.70	2/17/2010@11:18:12
1202042867	MSD	1	44	112	5.55	2/17/2010@11:19:03
246882001	1	45	-1.23	0.0244	2/17/2010@11:19:56	
246882002	1	46	-0.923	0.0397	2/17/2010@11:20:50	
246883001	1	47	-1.07	0.0323	2/17/2010@11:21:44	
246883002	1	48	-1.04	0.0339	2/17/2010@11:22:39	
246883003	1	49	-1.71	0.00134	2/17/2010@11:23:31	
WCN100217-03	1	S3	102	5.07	2/17/2010@11:24:24	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		2.0 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		2.0 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100217-08	1	S7	-1.32	0.0204	2/17/2010@11:26:15	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.32 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.32 > -5.00				
Message		CCB Passed				
Action		Continue				

246883004	1	50	-1.17	0.0275	2/17/2010@11:28:04		
246894001	1	51	6.46	0.401	2/17/2010@11:28:57		
246923002	1	52	0.530	0.111	2/17/2010@11:29:51		
246924002	1	53	0.751	0.122	2/17/2010@11:30:44		
246937002	1	54	21.6	1.14	2/17/2010@11:31:37		
247024001	1	55	109	5.44	2/17/2010@11:32:29	2.00	
1202040269|951961|MB	1	56	-1.06	0.0328	2/17/2010@11:33:22		
1202040276|LCS	1	57	47.2	2.39	2/17/2010@11:34:15		
246530001	1	58	-1.73	3.57e-4	2/17/2010@11:35:07		
246530002	1	59	-1.73	1.71e-4	2/17/2010@11:36:00		
WCN100217-03	1	S3	102	5.07	2/17/2010@11:36:52		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			1.8 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			1.8 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100217-08	1	S7	-1.32	0.0204	2/17/2010@11:38:42		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.32 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.32 > -5.00				
Message			CCB Passed				
Action			Continue				
246555001	1	60	-1.26	0.0234	2/17/2010@11:40:30		
246560001	1	61	-2.04	-0.0150	2/17/2010@11:41:24		
246560002	1	62	-0.699	0.0506	2/17/2010@11:42:19		
246571001	1	63	-1.74	-1.65e-4	2/17/2010@11:43:12		
246571002	1	64	-1.89	-0.00753	2/17/2010@11:44:06		
246574001	1	65	1.51	0.159	2/17/2010@11:45:00		
1202040271|DUP	1	66	1.22	0.145	2/17/2010@11:45:53		
1202040273|MS	1	67	107	5.30	2/17/2010@11:46:47		
1202040275|MSD	1	68	112	5.54	2/17/2010@11:47:40		
246590001	1	69	-1.19	0.0264	2/17/2010@11:48:33		
WCN100217-03	1	S3	102	5.05	2/17/2010@11:49:25		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			1.6 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			1.6 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100217-08	1	S7	-1.67	0.00297	2/17/2010@11:51:16		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.67 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.67 > -5.00				
Message			CCB Passed				
Action			Continue				
1202040270|DUP	1	70	-1.23	0.0246	2/17/2010@11:53:04		
1202040272|MS	1	71	109	5.40	2/17/2010@11:53:58		
1202040274|MSD	1	72	101	5.03	2/17/2010@11:54:49		
246591001	1	73	-1.34	0.0195	2/17/2010@11:55:42		
246606001	1	74	-1.56	0.00833	2/17/2010@11:56:34		
246613001	1	75	-1.37	0.0180	2/17/2010@11:57:27		
246710001	1	76	-1.59	0.00682	2/17/2010@11:58:22		
246714002	1	77	19.8	1.05	2/17/2010@11:59:16		

246724001	1	78	-1.32	0.0204	2/17/2010@12:00:10		
246724002	1	79	-1.37	0.0180	2/17/2010@12:01:04		
WCN100217-03	1	S3	103	5.11	2/17/2010@12:01:56		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			2.7 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			2.7 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100217-08	1	S7	-1.03	0.0346	2/17/2010@12:03:47		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				
246742001	1	80	-1.63	0.00514	2/17/2010@12:05:37		
246742002	1	81	-1.73	3.14e-4	2/17/2010@12:06:30		
246753001	1	82	-1.60	0.00637	2/17/2010@12:07:23		
246766001	1	83	-1.39	0.0169	2/17/2010@12:08:17		
WCN100217-03	1	S3	103	5.13	2/17/2010@12:09:10		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.0 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			3.0 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100217-08	1	S7	-1.74	-1.58e-4	2/17/2010@12:11:00		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.74 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.74 > -5.00				
Message			CCB Passed				
Action			Continue				

Analyte Properties Table for OM_2-17-2010_10-09-49.OMN

Property	Channel 1
	TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

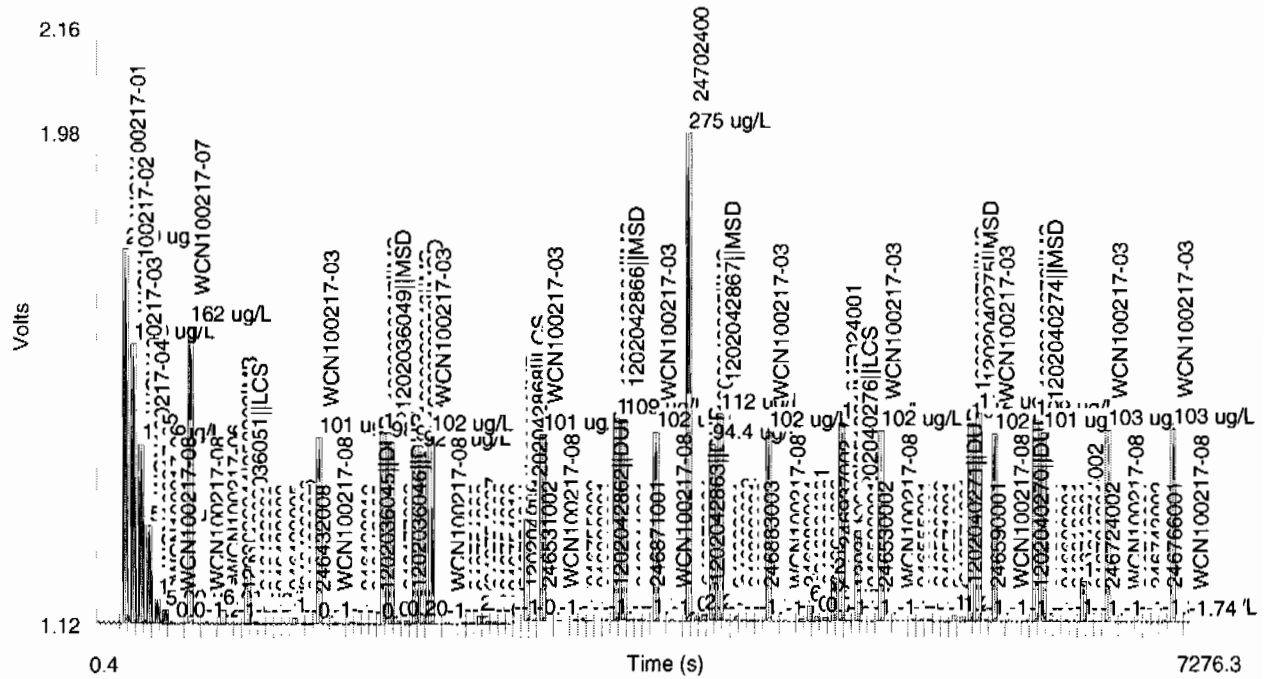
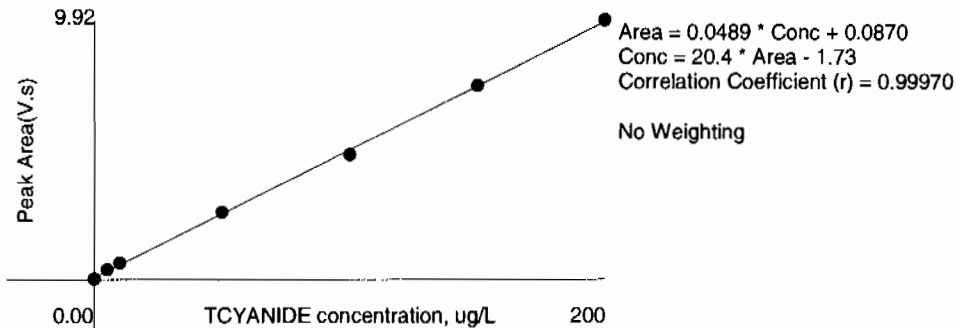


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.92	0.646	-0.6	2/17/2010	10:14:13
2	150	1	7.45	0.484	-0.3	2/17/2010	10:15:05
3	100	1	4.78	0.310	3.9	2/17/2010	10:15:57
4	50.0	1	2.59	0.169	-2.1	2/17/2010	10:16:50
5	10.0	1	0.647	0.0416	-12.4	2/17/2010	10:17:43
6	5.00	1	0.374	0.0226	-13.0	2/17/2010	10:18:37
7	0.00	1	0.0267	0.00251		2/17/2010	10:19:31

Figure 1: TCYANIDE



General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1759-1**

Method/Analysis Information

Product: pH

Analytical Batch: 953045 **Method:** SW9045C pH

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9045C/9045D:

Sample ID	Client ID
246872001	RE15-10-8366
246872002	RE15-10-8367
246872003	RE15-10-8364
246872004	RE15-10-8365
246872005	RE15-10-8368
246872006	RE15-10-8340
246872007	RE15-10-8341
246872008	RE15-10-8376
1202042746	246872001(RE15-10-8366) Sample Duplicate (DUP)
1202042747	Laboratory Control Sample (LCS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-008 REV# 17.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Electrode analysis was performed on a PerpHect pH Meter Orion 370.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Quality Control (QC) Information

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following sample was selected for QC analysis: 246872001 (RE15-10-8366).

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

The following samples from this sample group were received by the lab outside of the method specified holding time: 1202042746 (RE15-10-8366), 246872001 (RE15-10-8366), 246872002 (RE15-10-8367), 246872003 (RE15-10-8364), 246872004 (RE15-10-8365), 246872005 (RE15-10-8368), 246872006 (RE15-10-8340), 246872007 (RE15-10-8341) and 246872008 (RE15-10-8376).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product: Cyanide, Total
Analytical Batch: 953106 **Method:** SW9012A Cyanide and Total
Prep Batch : 953104 **Method:** SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
246872001	RE15-10-8366
246872002	RE15-10-8367
246872003	RE15-10-8364
246872004	RE15-10-8365
246872005	RE15-10-8368
246872006	RE15-10-8340
246872007	RE15-10-8341
246872008	RE15-10-8376
1202042913	Method Blank (MB)
1202042914	246870010(RE46-10-12717) Sample Duplicate (DUP)
1202042915	246872001(RE15-10-8366) Sample Duplicate (DUP)
1202042916	246870010(RE46-10-12717) Matrix Spike (MS)
1202042917	246872001(RE15-10-8366) Matrix Spike (MS)
1202042918	246870010(RE46-10-12717) Matrix Spike Duplicate (MSD)
1202042919	246872001(RE15-10-8366) Matrix Spike Duplicate (MSD)
1202042920	Laboratory Control Sample (LCS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-095 REV# 12.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Flow Injection analysis was performed on a Lachat QuickChem FIA+ 8000 Series.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 246870010 (RE46-10-12717) and 246872001 (RE15-10-8366).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The following sample in this sample group was diluted due to high concentration: 1202042920 (LCS).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product: Ion Chromatography
Analytical Batch: 955443 **Method:** EPA 300.0 Nitrate in Soil
Prep Batch : 955441 **Method:** EPA 300.0 PREP

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 300.0:

Sample ID	Client ID
246872001	RE15-10-8366
246872002	RE15-10-8367
246872003	RE15-10-8364
246872004	RE15-10-8365
246872005	RE15-10-8368
246872006	RE15-10-8340
246872007	RE15-10-8341
246872008	RE15-10-8376
1202048417	Method Blank (MB)
1202048418	246872001(RE15-10-8366) Sample Duplicate (DUP)
1202048419	246872001(RE15-10-8366) Matrix Spike (MS)
1202048420	246872001(RE15-10-8366) Matrix Spike Duplicate (MSD)
1202048421	Laboratory Control Sample (LCS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-086 REV# 17.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Ion Chromatography analysis was performed on a Dionex ICS-3000 Ion Chromatograph.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following sample was selected for QC analysis: 246872001 (RE15-10-8366).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recovery for this sample set was within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovery for this sample set was within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The samples in this SDG did not require re-analysis.

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

A DER was not required for this SDG.

Manual Integrations

Manual integrations were not required for the samples in this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Certification Statement

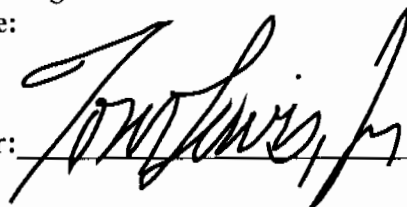
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

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

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

Reviewer:



Date:

10Mar10

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: 10-1759-1 GEL Work Order: 246872

The Qualifiers in this report are defined as follows:

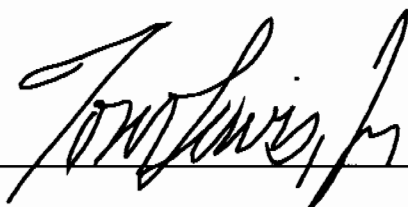
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8366
Sample ID: 246872001
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 18%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.0C	H	6.81	0.010	0.100	SU	1	EXF1	02/15/10	1036	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.0	272	ug/kg	1	AXC2	02/23/10	1152	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.366	1.22	mg/kg	1	MAR1	02/28/10	0834	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8367
Sample ID: 246872002
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 19.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.0C	H	6.25	0.010	0.100	SU	1	EXF1	02/15/10	1039	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	81.0	298	ug/kg	1	AXC2	02/23/10	1156	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.372	1.24	mg/kg	1	MAR1	02/28/10	1030	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8364
Sample ID: 246872003
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 23.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.1C	H	6.53	0.010	0.100	SU	1	EXF1	02/15/10	1040	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	83.6	307	ug/kg	1	AXC2	02/23/10	1157	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.386	1.29	mg/kg	1	MAR1	02/28/10	1059	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8365
Sample ID: 246872004
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 16.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.2C	H	6.70	0.010	0.100	SU	1	EXF1	02/15/10	1044	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.6	259	ug/kg	1	AXC2	02/23/10	1158	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.361	1.20	mg/kg	1	MAR102	02/28/10	1128	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8368
Sample ID: 246872005
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 24.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.3C	H	6.52	0.010	0.100	SU	1	EXF1	02/15/10	1046	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	88.4	325	ug/kg	1	AXC2	02/23/10	1159	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.386	1.29	mg/kg	1	MAR102	02/28/10	1157	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8340
Sample ID: 246872006
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 24.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.1C	H	6.95	0.010	0.100	SU	1	EXF1	02/15/10	1049	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	89.7	330	ug/kg	1	AXC2	02/23/10	1203	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.396	1.32	mg/kg	1	MAR1	02/28/10	1324	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8341
Sample ID: 246872007
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 7.56%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.3C	H	7.39	0.010	0.100	SU	1	EXF1	02/15/10	1051	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.6	270	ug/kg	1	AXC2	02/23/10	1204	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.325	1.08	mg/kg	1	MAR1	02/28/10	1353	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

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Certificate of Analysis

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

Report Date: March 6, 2010

Client SDG: 10-1759-1

Client Sample ID: RE15-10-8376
Sample ID: 246872008
Matrix: R
Collect Date: 09-FEB-10 12:00
Receive Date: 11-FEB-10
Collector: Client
Moisture: 24.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 21.4C	H	6.70	0.010	0.100	SU	1	EXF1	02/15/10	1053	953045	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	84.6	311	ug/kg	1	AXC2	02/23/10	1205	953106	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.396	1.32	mg/kg	1	MAR102	02/28/10	1422	955443	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	02/27/10	1700	955441
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/22/10	1639	953104

The following Analytical Methods were performed

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

Quality Control Summary

GEL LABORATORIES LLC

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QC Summary

Report Date: March 6, 2010

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

Contact: Ms. Joylene Valdez

Workorder: 246872

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Electrode Analysis											
Batch	953045										
QC1202042746	246872001	DUP									
pH		H	6.81	H	6.86	SU	0.732	(0%-10%)	EXF1	02/15/10	10:37
QC1202042747	LCS										
pH	7.00				6.93	SU		99	(95%-105%)		02/15/10 10:34
Flow Injection Analysis											
Batch	953106										
QC1202042914	246870010	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	02/23/10	11:46
QC1202042915	246872001	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A			02/23/10	11:53
QC1202042920	LCS										
Cyanide, Total	67900				51800	ug/kg		76.2	(32%-157%)		02/23/10 11:44
QC1202042913	MB										
Cyanide, Total				U	250	ug/kg				02/23/10	11:43
QC1202042916	246870010	MS									
Cyanide, Total	5870	U	ND		5870	ug/kg		100	(26%-158%)		02/23/10 11:51
QC1202042917	246872001	MS									
Cyanide, Total	5860	U	ND		5140	ug/kg		87.7	(26%-158%)		02/23/10 11:54
QC1202042918	246870010	MSD									
Cyanide, Total	5870	U	ND		5850	ug/kg	0.401	99.6	(0%-30%)		02/23/10 11:51
QC1202042919	246872001	MSD									
Cyanide, Total	5980	U	ND		5840	ug/kg	12.7	97.7	(0%-30%)		02/23/10 11:55
Ion Chromatography											
Batch	955443										
QC1202048418	246872001	DUP									
Nitrate-N		U	ND	U	ND	mg/kg	N/A		MAR1	02/28/10	09:03
QC1202048421	LCS										
Nitrate-N	50.0				47.8	mg/kg		95.5	(90%-110%)		02/28/10 08:06
QC1202048417	MB										
Nitrate-N				U	1.00	mg/kg				02/28/10	07:37
QC1202048419	246872001	MS									
Nitrate-N	61.0	U	ND		56.8	mg/kg		93.1	(90%-110%)		02/28/10 09:32
QC1202048420	246872001	MSD									
Nitrate-N	61.0	U	ND		56.7	mg/kg	0.107	93	(0%-20%)		02/28/10 10:01

Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported

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QC Summary

Workorder: 246872

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD %	REC %	Range	Anlst	Date	Time
A	The TIC is a suspected aldol-condensation product										
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.										
BD	Results are either below the MDC or tracer recovery is low										
C	Analyte has been confirmed by GC/MS analysis										
D	Results are reported from a diluted aliquot of the sample										
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range										
E	Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria										
E	Organics--Concentration of the target analyte exceeds the instrument calibration range										
F	Estimated Value										
H	Analytical holding time was exceeded										
J	Value is estimated										
M	M if above MDC and less than LLD										
M	Matrix Related Failure										
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor										
N/A	RPD or %Recovery limits do not apply.										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 06-MAR-2010 15:15

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1759-1

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	23-FEB-2010 10:14:06	OM_2-23-2010_10-03-36	149	150	99.3	(90%-110%)	Yes
CCV	23-FEB-2010 11:34:57	OM_2-23-2010_11-19-05	102	100	102	(90%-110%)	Yes
CCV	23-FEB-2010 11:47:23	OM_2-23-2010_11-19-05	103	100	103	(90%-110%)	Yes
CCV	23-FEB-2010 11:59:57	OM_2-23-2010_11-19-05	104	100	104	(90%-110%)	Yes
CCV	23-FEB-2010 12:12:29	OM_2-23-2010_11-19-05	105	100	105	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	23-FEB-2010 10:15:57	OM_2-23-2010_10-03-36	-1.34	10	Yes
CCB	23-FEB-2010 11:36:48	OM_2-23-2010_11-19-05	-1.39	10	Yes
CCB	23-FEB-2010 11:49:13	OM_2-23-2010_11-19-05	-1.29	10	Yes
CCB	23-FEB-2010 12:01:48	OM_2-23-2010_11-19-05	-1.19	10	Yes
CCB	23-FEB-2010 12:14:20	OM_2-23-2010_11-19-05	-1.05	10	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 06-MAR-2010 15:15

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1759-1

Ion Chromatography

Method: EPA 300.0

Concentration Units:mg/L

Instrument: Dionex ICS-3000 Ion Chromatograph

Parmname: Nitrate-N

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	26-FEB-2010 17:33:00	100226	4.7766	5	95.5	(90%-110%)	Yes
CCV	28-FEB-2010 06:39:00	100226	7.5329	7.5	100	(90%-110%)	Yes
CCV	28-FEB-2010 12:26:00	100226	4.802	5	96	(90%-110%)	Yes
CCV	28-FEB-2010 14:50:00	100226	7.5439	7.5	101	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	26-FEB-2010 18:02:00	100226	0	0.1	Yes
CCB	28-FEB-2010 07:08:00	100226	0	0.1	Yes
CCB	28-FEB-2010 12:55:00	100226	0	0.1	Yes
CCB	28-FEB-2010 15:19:00	100226	0	0.1	Yes

Cyanide, Total

Prep LogBook

Analyst: AXS5 Verified by: _____

Batch: 953104

Lab SOP: GL-GC-E-067 REV# 13

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202042913		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.5 g	25 mL	50	.25	g
LCS	1202042920		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.25 g	25 mL	100	.025	mL
SAMPLE	246870010		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.5 g	25 mL	50	.025	mL
DUP	1202042914	246870010	SW846 9010B Prep	22-FEB-2010 16:39	>12	0.5 g	25 mL	50	.025	mL
MS	1202042916	246870010	SW846 9010B Prep	22-FEB-2010 16:39	>12	0.54 g	25 mL	46.2963	.025	mL
MSD	1202042918	246870010	SW846 9010B Prep	22-FEB-2010 16:39	>12	0.54 g	25 mL	46.2963	.025	mL
SAMPLE	246872001		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.56 g	25 mL	44.64286	.025	mL
DUP	1202042915	246872001	SW846 9010B Prep	22-FEB-2010 16:39	>12	0.53 g	25 mL	47.16981	.025	mL
MS	1202042917	246872001	SW846 9010B Prep	22-FEB-2010 16:39	>12	0.52 g	25 mL	48.07692	.025	mL
MSD	1202042919	246872001	SW846 9010B Prep	22-FEB-2010 16:39	>12	0.51 g	25 mL	49.01961	.025	mL
SAMPLE	246872002		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.52 g	25 mL	48.07692	.025	mL
SAMPLE	246872003		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.53 g	25 mL	47.16981	.025	mL
SAMPLE	246872004		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.58 g	25 mL	43.10345	.025	mL
SAMPLE	246872005		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.51 g	25 mL	49.01961	.025	mL
SAMPLE	246872006		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	246872007		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	246872008		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.53 g	25 mL	47.16981	.025	mL
SAMPLE	246881001		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.56 g	25 mL	44.64286	.025	mL
SAMPLE	246881002		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.58 g	25 mL	43.10345	.025	mL
SAMPLE	246881003		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.51 g	25 mL	49.01961	.025	mL
SAMPLE	246881004		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.54 g	25 mL	46.2963	.025	mL
SAMPLE	246881005		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.51 g	25 mL	49.01961	.025	mL
SAMPLE	246881006		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.55 g	25 mL	45.45455	.025	mL
SAMPLE	246881007		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.51 g	25 mL	49.01961	.025	mL
SAMPLE	246881008		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.52 g	25 mL	48.07692	.025	mL
SAMPLE	246881009		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.55 g	25 mL	45.45455	.025	mL
SAMPLE	246881010		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	246881011		SW846 9010B Prep	22-FEB-2010 16:39	>12	0.52 g	25 mL	48.07692	.025	mL

Prep Data Logbook Version 1:1

GEL Laboratories LLC

Page#

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments
100210-C	2.5 mL	0.25N Sodium Hydroxide Solution	
WCN100222-07	.0375 mL	150 ppb CN Distilled ICV Standard	
1270663-C	1.25 mL	0.8N H3NO3S	
1260189-C	2.5 mL	50% H2SO4 CN Prep	
1270669-C	1 mL	51% MgCl2 Soln	
1270661-C	1.25 mL	Bismuth Nitrate Solution	

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	2/23/2010 10:06:57	OM_2-23-2010_10-03-36
150 ppb		1	axc2	2/23/2010 10:07:49	OM_2-23-2010_10-03-36
100 ppb		1	axc2	2/23/2010 10:08:41	OM_2-23-2010_10-03-36
50 ppb		1	axc2	2/23/2010 10:09:34	OM_2-23-2010_10-03-36
10 ppb		1	axc2	2/23/2010 10:10:28	OM_2-23-2010_10-03-36
CRDL 5.0 ppb		1	axc2	2/23/2010 10:11:21	OM_2-23-2010_10-03-36
ICAL-00		1	axc2	2/23/2010 10:12:16	OM_2-23-2010_10-03-36
ICV		1	axc2	2/23/2010 10:14:06	OM_2-23-2010_10-03-36
ICB		1	axc2	2/23/2010 10:15:57	OM_2-23-2010_10-03-36
CRDL		1	axc2	2/23/2010 10:17:46	OM_2-23-2010_10-03-36
1202046146	954516	1	axc2	2/23/2010 10:19:36	OM_2-23-2010_10-03-36
1202046153	954516	25	axc2	2/23/2010 10:20:29	OM_2-23-2010_10-03-36
247172001	954516	1	axc2	2/23/2010 10:21:22	OM_2-23-2010_10-03-36
1202046147	954516	1	axc2	2/23/2010 10:22:15	OM_2-23-2010_10-03-36
1202046149	954516	1	axc2	2/23/2010 10:23:08	OM_2-23-2010_10-03-36
1202046151	954516	1	axc2	2/23/2010 10:24:01	OM_2-23-2010_10-03-36
247172002	954516	1	axc2	2/23/2010 10:24:54	OM_2-23-2010_10-03-36
1202046148	954516	1	axc2	2/23/2010 10:25:46	OM_2-23-2010_10-03-36
1202046150	954516	1	axc2	2/23/2010 10:26:38	OM_2-23-2010_10-03-36
1202046152*	954516	1	axc2	2/23/2010 10:27:31	OM_2-23-2010_10-03-36
CCV		1	axc2	2/23/2010 10:28:23	OM_2-23-2010_10-03-36
CCB		1	axc2	2/23/2010 10:30:13	OM_2-23-2010_10-03-36
247178001	954516	1	axc2	2/23/2010 10:32:01	OM_2-23-2010_10-03-36
247178002	954516	1	axc2	2/23/2010 10:32:53	OM_2-23-2010_10-03-36
247178003	954516	1	axc2	2/23/2010 10:33:45	OM_2-23-2010_10-03-36
247178004	954516	1	axc2	2/23/2010 10:34:37	OM_2-23-2010_10-03-36
247178005	954516	1	axc2	2/23/2010 10:35:28	OM_2-23-2010_10-03-36
247178006	954516	1	axc2	2/23/2010 10:36:22	OM_2-23-2010_10-03-36
247178007	954516	1	axc2	2/23/2010 10:37:16	OM_2-23-2010_10-03-36
247178008	954516	1	axc2	2/23/2010 10:38:10	OM_2-23-2010_10-03-36
247178009	954516	1	axc2	2/23/2010 10:39:03	OM_2-23-2010_10-03-36
247178010	954516	1	axc2	2/23/2010 10:39:56	OM_2-23-2010_10-03-36
CCV		1	axc2	2/23/2010 10:40:48	OM_2-23-2010_10-03-36
CCB		1	axc2	2/23/2010 10:42:39	OM_2-23-2010_10-03-36
247178011	954516	1	axc2	2/23/2010 10:44:28	OM_2-23-2010_10-03-36
247181001	954516	1	axc2	2/23/2010 10:45:20	OM_2-23-2010_10-03-36
247181002	954516	1	axc2	2/23/2010 10:46:14	OM_2-23-2010_10-03-36
247187001	954516	1	axc2	2/23/2010 10:47:06	OM_2-23-2010_10-03-36
247187002	954516	1	axc2	2/23/2010 10:47:58	OM_2-23-2010_10-03-36
247187003	954516	1	axc2	2/23/2010 10:48:51	OM_2-23-2010_10-03-36
247197001	954516	1	axc2	2/23/2010 10:49:43	OM_2-23-2010_10-03-36
247197002	954516	1	axc2	2/23/2010 10:50:35	OM_2-23-2010_10-03-36
1202046124	954512	1	axc2	2/23/2010 10:51:27	OM_2-23-2010_10-03-36
1202046131	954512	25	axc2	2/23/2010 10:52:19	OM_2-23-2010_10-03-36
CCV		1	axc2	2/23/2010 10:53:12	OM_2-23-2010_10-03-36
CCB		1	axc2	2/23/2010 10:55:01	OM_2-23-2010_10-03-36
247108001	954512	1	axc2	2/23/2010 10:56:52	OM_2-23-2010_10-03-36
1202046125	954512	1	axc2	2/23/2010 10:57:45	OM_2-23-2010_10-03-36
1202046127	954512	1	axc2	2/23/2010 10:58:39	OM_2-23-2010_10-03-36
1202046129	954512	1	axc2	2/23/2010 10:59:32	OM_2-23-2010_10-03-36
247108002	954512	1	axc2	2/23/2010 11:00:25	OM_2-23-2010_10-03-36
1202046126	954512	1	axc2	2/23/2010 11:01:19	OM_2-23-2010_10-03-36
1202046128	954512	1	axc2	2/23/2010 11:02:11	OM_2-23-2010_10-03-36
1202046130	954512	1	axc2	2/23/2010 11:03:05	OM_2-23-2010_10-03-36
247108003	954512	1	axc2	2/23/2010 11:03:58	OM_2-23-2010_10-03-36
247108004	954512	1	axc2	2/23/2010 11:04:50	OM_2-23-2010_10-03-36
CCV		1	axc2	2/23/2010 11:05:42	OM_2-23-2010_10-03-36
CCB		1	axc2	2/23/2010 11:07:33	OM_2-23-2010_10-03-36

247108005*	954512	1	axc2	2/23/2010	11:09:22	OM_2-23-2010_10-03-36
247195001*	954512	1	axc2	2/23/2010	11:10:14	OM_2-23-2010_10-03-36
247195002*	954512	1	axc2	2/23/2010	11:11:05	OM_2-23-2010_10-03-36

Original Run Filename: OM_2-23-2010_10-03-36.OMN created 2/23/2010 10:03:36
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_2-23-2010_10-03-36.OMN last modified 2/23/2010 11:12:14
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE Conc. (ug/L)	Area (Vs)				
WCN100223-01	1	S1	200	9.53	2/23/2010@10:06:57			200 ppb
WCN100223-02	1	S2	150	7.13	2/23/2010@10:07:49			150 ppb
WCN100223-03	1	S3	100	4.60	2/23/2010@10:08:41			100 ppb
WCN100223-04	1	S4	50.0	2.53	2/23/2010@10:09:34			50 ppb
WCN100223-05	1	S5	10.0	0.617	2/23/2010@10:10:28			10 ppb
WCN100223-06	1	S6	5.00	0.385	2/23/2010@10:11:21			CRDL 5.0 ppb
WCN100223-08	1	S7	0.00	0.0245	2/23/2010@10:12:16			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99966 > 0.99500					
Message			Pass					
Action			Continue					
WCN100223-07	1	S8	149	7.09	2/23/2010@10:14:06			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-0.5 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.5 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100223-08	1	S7	-1.34	0.0341	2/23/2010@10:15:57			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.34 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.34 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100223-06	1	S6	6.77	0.414	2/23/2010@10:17:46			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			6.77 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			6.77 > 2.50					
Message			Pass					
Action			None					
1202046146|954516|MB	1	1	-1.30	0.0360	2/23/2010@10:19:36			
1202046153|LCS	1	2	20.1	1.04	2/23/2010@10:20:29		25.00	
247172001	1	3	-1.33	0.0345	2/23/2010@10:21:22			
1202046147|DUP	1	4	-1.25	0.0384	2/23/2010@10:22:15			
1202046149|MS	1	5	98.6	4.72	2/23/2010@10:23:08			
1202046151|MSD	1	6	101	4.82	2/23/2010@10:24:01			
247172002	1	7	-0.836	0.0578	2/23/2010@10:24:54			
1202046148|DUP	1	8	-1.14	0.0437	2/23/2010@10:25:46			
1202046150|MS	1	9	107	5.10	2/23/2010@10:26:38			
1202046152|MSD	1	10	69.8	3.37	2/23/2010@10:27:31			
WCN100223-03	1	S3	103	4.93	2/23/2010@10:28:23			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.0 < 10.0					

		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	3.0 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100223-08	1	S7	-1.28	0.0369	2/23/2010@10:30:13			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.28 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.28 > -5.00					
		Message	CCB Passed					
		Action	Continue					
247178001	1	11	-1.02	0.0494	2/23/2010@10:32:01			
247178002	1	12	-1.24	0.0391	2/23/2010@10:32:53			
247178003	1	13	-0.195	0.0879	2/23/2010@10:33:45			
247178004	1	14	-1.18	0.0420	2/23/2010@10:34:37			
247178005	1	15	-1.20	0.0409	2/23/2010@10:35:28			
247178006	1	16	-0.310	0.0825	2/23/2010@10:36:22			
247178007	1	17	-0.592	0.0693	2/23/2010@10:37:16			
247178008	1	18	1.40	0.162	2/23/2010@10:38:10			
247178009	1	19	0.677	0.129	2/23/2010@10:39:03			
247178010	1	20	-0.578	0.0699	2/23/2010@10:39:56			
WCN100223-03	1	S3	104	4.96	2/23/2010@10:40:48			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	3.7 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	3.7 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100223-08	1	S7	-1.27	0.0375	2/23/2010@10:42:39			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.27 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.27 > -5.00					
		Message	CCB Passed					
		Action	Continue					
247178011	1	21	-1.34	0.0342	2/23/2010@10:44:28			
247181001	1	22	-1.33	0.0348	2/23/2010@10:45:20			
247181002	1	23	-0.741	0.0623	2/23/2010@10:46:14			
247187001	1	24	-1.57	0.0236	2/23/2010@10:47:06			
247187002	1	25	-1.22	0.0399	2/23/2010@10:47:58			
247187003	1	26	-1.40	0.0315	2/23/2010@10:48:51			
247197001	1	27	-1.38	0.0323	2/23/2010@10:49:43			
247197002	1	28	-1.11	0.0450	2/23/2010@10:50:35			
1202046124|954512|MB	1	29	-1.30	0.0361	2/23/2010@10:51:27			
1202046131|LCS	1	30	16.8	0.885	2/23/2010@10:52:19		25.00	
WCN100223-03	1	S3	104	4.98	2/23/2010@10:53:12			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					
WCN100223-08	1	S7	-1.30	0.0362	2/23/2010@10:55:01			CCB
		Known Conc:	0.00					

DQM Test: > + Concentration Limit						
Result:		-1.30 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.30 > -5.00				
Message		CCB Passed				
Action		Continue				
247108001	1	31	-1.09	0.0462	2/23/2010@10:56:52	
1202046125||DUP	1	32	-1.54	0.0247	2/23/2010@10:57:45	
1202046127||MS	1	33	81.1	3.90	2/23/2010@10:58:39	
1202046129||MSD	1	34	98.3	4.70	2/23/2010@10:59:32	
247108002	1	35	-1.05	0.0481	2/23/2010@11:00:25	
1202046126||DUP	1	36	-0.928	0.0536	2/23/2010@11:01:19	
1202046128||MS	1	37	95.0	4.55	2/23/2010@11:02:11	
1202046130||MSD	1	38	88.6	4.25	2/23/2010@11:03:05	
247108003	1	39	-1.15	0.0430	2/23/2010@11:03:58	
247108004	1	40	-1.94	0.00601	2/23/2010@11:04:50	
WCN100223-03	1	S3	104	4.96	2/23/2010@11:05:42	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				
WCN100223-08	1	S7	-1.19	0.0415	2/23/2010@11:07:33	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.19 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.19 > -5.00				
Message		CCB Passed				
Action		Continue				
247108005	1	41	-2.02	0.00232	2/23/2010@11:09:22	
247195001	1	42	-1.60	0.0222	2/23/2010@11:10:14	
247195002	1	43	-1.50	0.0270	2/23/2010@11:11:05	

Analyte Properties Table for OM_2-23-2010_10-03-36.OMN

Property	Channel 1
	TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

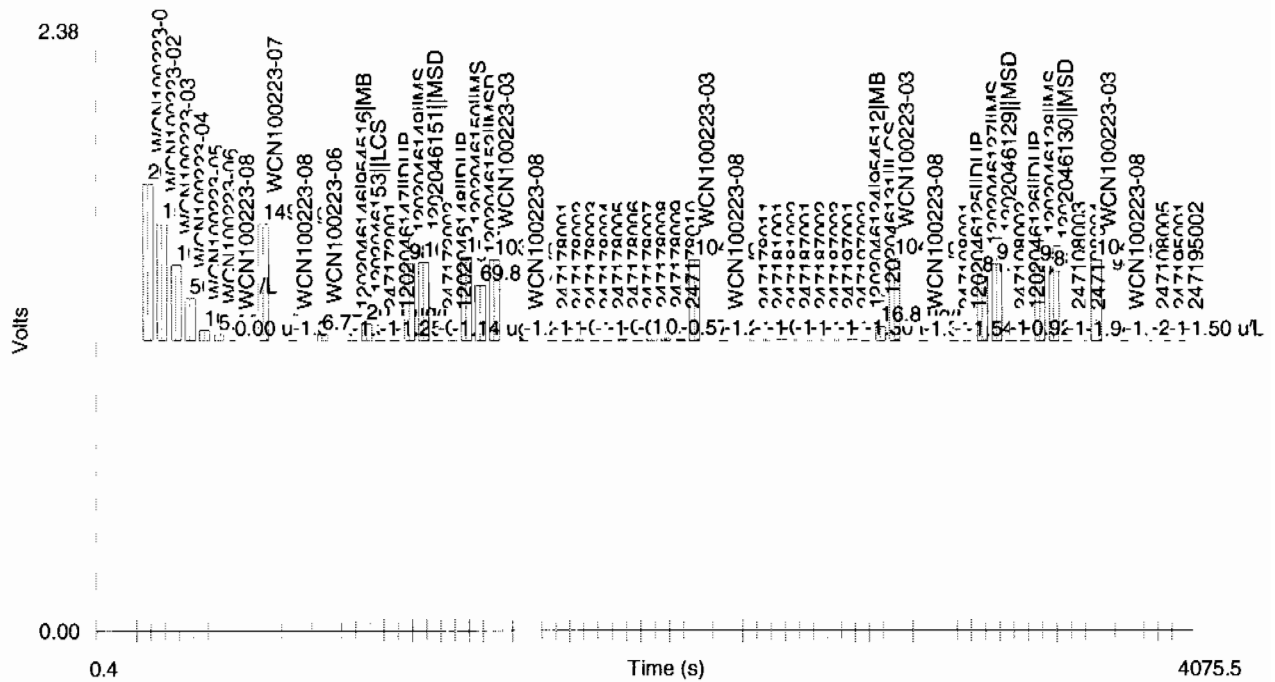
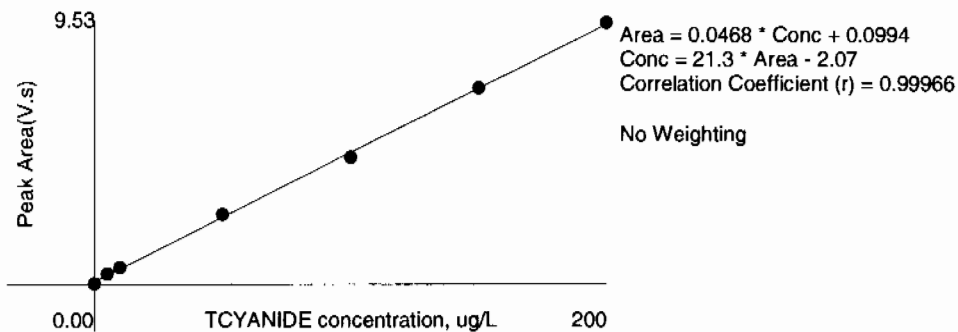


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.53	0.622	-0.6	2/23/2010	10:08:00
2	150	1	7.13	0.468	-0.1	2/23/2010	10:08:52
3	100	1	4.60	0.301	3.8	2/23/2010	10:09:44
4	50.0	1	2.53	0.167	-3.7	2/23/2010	10:10:37
5	10.0	1	0.617	0.0399	-8.7	2/23/2010	10:11:31
6	5.00	1	0.385	0.0238	-15.5	2/23/2010	10:12:24
7	0.00	1	0.0245	0.00128		2/23/2010	10:13:19

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	2/23/2010 11:22:28	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010 11:24:18	OM_2-23-2010_11-19-05
247108005	954512	1	axc2	2/23/2010 11:26:07	OM_2-23-2010_11-19-05
247195001	954512	1	axc2	2/23/2010 11:26:59	OM_2-23-2010_11-19-05
247195002	954512	1	axc2	2/23/2010 11:27:51	OM_2-23-2010_11-19-05
247195003	954512	1	axc2	2/23/2010 11:28:44	OM_2-23-2010_11-19-05
247195004	954512	1	axc2	2/23/2010 11:29:35	OM_2-23-2010_11-19-05
247195005	954512	1	axc2	2/23/2010 11:30:30	OM_2-23-2010_11-19-05
247195006	954512	1	axc2	2/23/2010 11:31:24	OM_2-23-2010_11-19-05
247195007	954512	1	axc2	2/23/2010 11:32:17	OM_2-23-2010_11-19-05
247195008	954512	1	axc2	2/23/2010 11:33:11	OM_2-23-2010_11-19-05
247195009	954512	1	axc2	2/23/2010 11:34:05	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010 11:34:57	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010 11:36:48	OM_2-23-2010_11-19-05
247195010	954512	1	axc2	2/23/2010 11:38:37	OM_2-23-2010_11-19-05
247195011	954512	1	axc2	2/23/2010 11:39:30	OM_2-23-2010_11-19-05
247195012	954512	1	axc2	2/23/2010 11:40:23	OM_2-23-2010_11-19-05
247195013	954512	1	axc2	2/23/2010 11:41:16	OM_2-23-2010_11-19-05
247195014	954512	1	axc2	2/23/2010 11:42:09	OM_2-23-2010_11-19-05
247195015	954512	1	axc2	2/23/2010 11:43:02	OM_2-23-2010_11-19-05
1202042913	953106	1	axc2	2/23/2010 11:43:55	OM_2-23-2010_11-19-05
1202042920	953106	25	axc2	2/23/2010 11:44:47	OM_2-23-2010_11-19-05
246870010	953106	1	axc2	2/23/2010 11:45:39	OM_2-23-2010_11-19-05
1202042914	953106	1	axc2	2/23/2010 11:46:31	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010 11:47:23	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010 11:49:13	OM_2-23-2010_11-19-05
1202042916	953106	1	axc2	2/23/2010 11:51:03	OM_2-23-2010_11-19-05
1202042918	953106	1	axc2	2/23/2010 11:51:57	OM_2-23-2010_11-19-05
246872001	953106	1	axc2	2/23/2010 11:52:52	OM_2-23-2010_11-19-05
1202042915	953106	1	axc2	2/23/2010 11:53:45	OM_2-23-2010_11-19-05
1202042917	953106	1	axc2	2/23/2010 11:54:39	OM_2-23-2010_11-19-05
1202042919	953106	1	axc2	2/23/2010 11:55:33	OM_2-23-2010_11-19-05
246872002	953106	1	axc2	2/23/2010 11:56:26	OM_2-23-2010_11-19-05
246872003	953106	1	axc2	2/23/2010 11:57:19	OM_2-23-2010_11-19-05
246872004	953106	1	axc2	2/23/2010 11:58:12	OM_2-23-2010_11-19-05
246872005	953106	1	axc2	2/23/2010 11:59:05	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010 11:59:57	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010 12:01:48	OM_2-23-2010_11-19-05
246872006	953106	1	axc2	2/23/2010 12:03:37	OM_2-23-2010_11-19-05
246872007	953106	1	axc2	2/23/2010 12:04:30	OM_2-23-2010_11-19-05
246872008	953106	1	axc2	2/23/2010 12:05:22	OM_2-23-2010_11-19-05
246881001	953106	1	axc2	2/23/2010 12:06:14	OM_2-23-2010_11-19-05
246881002	953106	1	axc2	2/23/2010 12:07:07	OM_2-23-2010_11-19-05
246881003	953106	1	axc2	2/23/2010 12:08:01	OM_2-23-2010_11-19-05
246881004	953106	1	axc2	2/23/2010 12:08:55	OM_2-23-2010_11-19-05
246881005	953106	1	axc2	2/23/2010 12:09:49	OM_2-23-2010_11-19-05
246881006	953106	1	axc2	2/23/2010 12:10:43	OM_2-23-2010_11-19-05
246881007	953106	1	axc2	2/23/2010 12:11:37	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010 12:12:29	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010 12:14:20	OM_2-23-2010_11-19-05
246881008	953106	1	axc2	2/23/2010 12:16:10	OM_2-23-2010_11-19-05
246881009	953106	1	axc2	2/23/2010 12:17:03	OM_2-23-2010_11-19-05
246881010	953106	1	axc2	2/23/2010 12:17:56	OM_2-23-2010_11-19-05
246881011	953106	1	axc2	2/23/2010 12:18:49	OM_2-23-2010_11-19-05
1202046152	954516	1	axc2	2/23/2010 12:19:42	OM_2-23-2010_11-19-05
1202046158	954519	1	axc2	2/23/2010 12:20:35	OM_2-23-2010_11-19-05
1202046165	954519	25	axc2	2/23/2010 12:21:28	OM_2-23-2010_11-19-05
247084001	954519	1	axc2	2/23/2010 12:22:20	OM_2-23-2010_11-19-05

247084002	954519	1	axc2	2/23/2010	12:23:13	OM_2-23-2010_11-19-05
247126001	954519	1	axc2	2/23/2010	12:24:06	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010	12:24:58	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010	12:26:48	OM_2-23-2010_11-19-05
247126002	954519	1	axc2	2/23/2010	12:28:37	OM_2-23-2010_11-19-05
247126003	954519	1	axc2	2/23/2010	12:29:32	OM_2-23-2010_11-19-05
247136001	954519	1	axc2	2/23/2010	12:30:26	OM_2-23-2010_11-19-05
247136002	954519	1	axc2	2/23/2010	12:31:21	OM_2-23-2010_11-19-05
247141001	954519	1	axc2	2/23/2010	12:32:16	OM_2-23-2010_11-19-05
247141002	954519	1	axc2	2/23/2010	12:33:09	OM_2-23-2010_11-19-05
247141003	954519	1	axc2	2/23/2010	12:34:03	OM_2-23-2010_11-19-05
247186001	954519	1	axc2	2/23/2010	12:34:58	OM_2-23-2010_11-19-05
1202046159	954519	1	axc2	2/23/2010	12:35:51	OM_2-23-2010_11-19-05
1202046161	954519	1	axc2	2/23/2010	12:36:44	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010	12:37:37	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010	12:38:31	OM_2-23-2010_11-19-05
1202046163	954519	1	axc2	2/23/2010	12:39:24	OM_2-23-2010_11-19-05
247186002	954519	1	axc2	2/23/2010	12:40:17	OM_2-23-2010_11-19-05
1202046160	954519	1	axc2	2/23/2010	12:41:10	OM_2-23-2010_11-19-05
1202046162	954519	1	axc2	2/23/2010	12:42:03	OM_2-23-2010_11-19-05
1202046164	954519	1	axc2	2/23/2010	12:42:55	OM_2-23-2010_11-19-05
247186003	954519	1	axc2	2/23/2010	12:43:49	OM_2-23-2010_11-19-05
247186004	954519	1	axc2	2/23/2010	12:44:43	OM_2-23-2010_11-19-05
247186005	954519	1	axc2	2/23/2010	12:45:38	OM_2-23-2010_11-19-05
247186006	954519	1	axc2	2/23/2010	12:46:32	OM_2-23-2010_11-19-05
247186007	954519	1	axc2	2/23/2010	12:47:26	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010	12:48:19	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010	12:49:13	OM_2-23-2010_11-19-05
247186008	954519	1	axc2	2/23/2010	12:50:07	OM_2-23-2010_11-19-05
247186009	954519	1	axc2	2/23/2010	12:51:01	OM_2-23-2010_11-19-05
247186010	954519	1	axc2	2/23/2010	12:51:56	OM_2-23-2010_11-19-05
1202046185	954529	1	axc2	2/23/2010	12:52:50	OM_2-23-2010_11-19-05
1202046192	954529	1	axc2	2/23/2010	12:53:43	OM_2-23-2010_11-19-05
246983002	954529	1	axc2	2/23/2010	12:54:37	OM_2-23-2010_11-19-05
247036005	954529	1	axc2	2/23/2010	12:55:30	OM_2-23-2010_11-19-05
1202046186	954529	1	axc2	2/23/2010	12:56:23	OM_2-23-2010_11-19-05
1202046188	954529	1	axc2	2/23/2010	12:57:17	OM_2-23-2010_11-19-05
1202046190	954529	1	axc2	2/23/2010	12:58:09	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010	12:59:01	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010	12:59:56	OM_2-23-2010_11-19-05
247039001	954529	1	axc2	2/23/2010	13:00:48	OM_2-23-2010_11-19-05
247039002	954529	1	axc2	2/23/2010	13:01:43	OM_2-23-2010_11-19-05
247039003	954529	1	axc2	2/23/2010	13:02:39	OM_2-23-2010_11-19-05
247039004	954529	1	axc2	2/23/2010	13:03:33	OM_2-23-2010_11-19-05
247092001	954529	1	axc2	2/23/2010	13:04:27	OM_2-23-2010_11-19-05
247098001	954529	1	axc2	2/23/2010	13:05:21	OM_2-23-2010_11-19-05
247098002	954529	1	axc2	2/23/2010	13:06:15	OM_2-23-2010_11-19-05
247098003	954529	1	axc2	2/23/2010	13:07:10	OM_2-23-2010_11-19-05
247098004	954529	1	axc2	2/23/2010	13:08:04	OM_2-23-2010_11-19-05
247109001	954529	1	axc2	2/23/2010	13:08:58	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010	13:09:50	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010	13:10:44	OM_2-23-2010_11-19-05
247109002	954529	1	axc2	2/23/2010	13:11:38	OM_2-23-2010_11-19-05
1202046187	954529	1	axc2	2/23/2010	13:12:31	OM_2-23-2010_11-19-05
1202046189	954529	1	axc2	2/23/2010	13:13:25	OM_2-23-2010_11-19-05
1202046191	954529	1	axc2	2/23/2010	13:14:18	OM_2-23-2010_11-19-05
247127001	954529	1	axc2	2/23/2010	13:15:11	OM_2-23-2010_11-19-05
247139001	954529	1	axc2	2/23/2010	13:16:04	OM_2-23-2010_11-19-05
247179001	954529	1	axc2	2/23/2010	13:16:59	OM_2-23-2010_11-19-05
247182001	954529	1	axc2	2/23/2010	13:17:54	OM_2-23-2010_11-19-05

247183001	954529	1	axc2	2/23/2010	13:18:48	OM_2-23-2010_11-19-05
247192001	954529	1	axc2	2/23/2010	13:19:43	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010	13:20:35	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010	13:22:26	OM_2-23-2010_11-19-05
1202049704	955981	1	axc2	2/23/2010	13:24:16	OM_2-23-2010_11-19-05
1202049711	955981	1	axc2	2/23/2010	13:25:10	OM_2-23-2010_11-19-05
246941002	955981	1	axc2	2/23/2010	13:26:05	OM_2-23-2010_11-19-05
1202049705	955981	1	axc2	2/23/2010	13:26:59	OM_2-23-2010_11-19-05
1202049707	955981	1	axc2	2/23/2010	13:27:53	OM_2-23-2010_11-19-05
1202049709	955981	1	axc2	2/23/2010	13:28:47	OM_2-23-2010_11-19-05
247203001	955981	1	axc2	2/23/2010	13:29:41	OM_2-23-2010_11-19-05
1202049706	955981	1	axc2	2/23/2010	13:30:34	OM_2-23-2010_11-19-05
1202049708	955981	1	axc2	2/23/2010	13:31:28	OM_2-23-2010_11-19-05
1202049710	955981	1	axc2	2/23/2010	13:32:21	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010	13:33:13	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010	13:35:03	OM_2-23-2010_11-19-05
247204001	955981	1	axc2	2/23/2010	13:36:52	OM_2-23-2010_11-19-05
247244001	955981	1	axc2	2/23/2010	13:37:47	OM_2-23-2010_11-19-05
247250001	955981	1	axc2	2/23/2010	13:38:42	OM_2-23-2010_11-19-05
247250002	955981	1	axc2	2/23/2010	13:39:37	OM_2-23-2010_11-19-05
247256001	955981	1	axc2	2/23/2010	13:40:32	OM_2-23-2010_11-19-05
247256002	955981	1	axc2	2/23/2010	13:41:27	OM_2-23-2010_11-19-05
247273001	955981	1	axc2	2/23/2010	13:42:22	OM_2-23-2010_11-19-05
247322001	955981	1	axc2	2/23/2010	13:43:15	OM_2-23-2010_11-19-05
247322002	955981	1	axc2	2/23/2010	13:44:09	OM_2-23-2010_11-19-05
247335001	955981	1	axc2	2/23/2010	13:45:04	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010	13:45:56	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010	13:47:47	OM_2-23-2010_11-19-05
247339001	955981	1	axc2	2/23/2010	13:49:37	OM_2-23-2010_11-19-05
247339002	955981	1	axc2	2/23/2010	13:50:31	OM_2-23-2010_11-19-05
247350001	955981	1	axc2	2/23/2010	13:51:25	OM_2-23-2010_11-19-05
247434001	955981	1	axc2	2/23/2010	13:52:18	OM_2-23-2010_11-19-05
247434002	955981	1	axc2	2/23/2010	13:53:12	OM_2-23-2010_11-19-05
247559001	955981	1	axc2	2/23/2010	13:54:05	OM_2-23-2010_11-19-05
247560001	955981	1	axc2	2/23/2010	13:55:00	OM_2-23-2010_11-19-05
247567001	955981	1	axc2	2/23/2010	13:55:56	OM_2-23-2010_11-19-05
247273001	955981	2	axc2	2/23/2010	13:56:50	OM_2-23-2010_11-19-05
CCV		1	axc2	2/23/2010	13:57:43	OM_2-23-2010_11-19-05
CCB		1	axc2	2/23/2010	13:59:33	OM_2-23-2010_11-19-05

Original Run Filename: OM_2-23-2010_11-19-05.OMN created 2/23/2010 11:19:05
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_2-23-2010_11-19-05.OMN last modified 2/23/2010 14:00:39
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN100223-03	1	S3	103	4.91	2/23/2010@11:22:28			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			2.6 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			2.6 < 10.0					
Message			CCV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100223-08	1	S7	-1.61	0.0215	2/23/2010@11:24:18			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.61 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.61 > -5.00					
Message			CCB Passed					
Action			Continue					
247108005[954512]	1	41	-2.38	-0.0147	2/23/2010@11:26:07			
247195001	1	42	-1.98	0.00432	2/23/2010@11:26:59			
247195002	1	43	-1.72	0.0166	2/23/2010@11:27:51			
247195003	1	44	-1.17	0.0424	2/23/2010@11:28:44			
247195004	1	45	-0.745	0.0621	2/23/2010@11:29:35			
247195005	1	46	-1.28	0.0369	2/23/2010@11:30:30			
247195006	1	47	-1.56	0.0240	2/23/2010@11:31:24			
247195007	1	48	-1.45	0.0293	2/23/2010@11:32:17			
247195008	1	49	-3.33	-0.0592	2/23/2010@11:33:11			
247195009	1	50	-1.19	0.0412	2/23/2010@11:34:05			
WCN100223-03	1	S3	102	4.89	2/23/2010@11:34:57			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			2.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			2.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100223-08	1	S7	-1.39	0.0321	2/23/2010@11:36:48			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.39 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.39 > -5.00					
Message			CCB Passed					
Action			Continue					
247195010	1	51	-0.780	0.0605	2/23/2010@11:38:37			
247195011	1	52	-1.91	0.00734	2/23/2010@11:39:30			
247195012	1	53	-1.44	0.0298	2/23/2010@11:40:23			
247195013	1	54	-1.29	0.0368	2/23/2010@11:41:16			
247195014	1	55	-1.40	0.0315	2/23/2010@11:42:09			

247195015	1	56	-1.32	0.0351	2/23/2010@11:43:02			
1202042913|953106|MB	1	57	-1.34	0.0343	2/23/2010@11:43:55			
1202042920|LCS	1	58	20.7	1.07	2/23/2010@11:44:47	25.00		
246870010	1	59	-1.12	0.0447	2/23/2010@11:45:39			
1202042914|DUP	1	60	-1.41	0.0309	2/23/2010@11:46:31			
WCN100223-03	1	S3	103	4.94	2/23/2010@11:47:23			CCV
Known Conc: 100								
DQM Test: > + Percent Relative Difference								
Result: 3.4 < 10.0								
Message CCV Passed								
Action Continue								
DQM Test: < - Percent Relative Difference								
Result: 3.4 < 10.0								
Message CCV Passed								
Action Continue								
WCN100223-08	1	S7	-1.29	0.0368	2/23/2010@11:49:13			CCB
Known Conc: 0.00								
DQM Test: > + Concentration Limit								
Result: -1.29 < 5.00								
Message CCB Passed								
Action Continue								
DQM Test: < - Concentration Limit								
Result: -1.29 > -5.00								
Message CCB Passed								
Action Continue								
1202042916|MS	1	61	100	4.81	2/23/2010@11:51:03			
1202042918|MSD	1	62	99.6	4.76	2/23/2010@11:51:57			
246872001	1	63	-0.922	0.0539	2/23/2010@11:52:52			
1202042915|DUP	1	64	-0.752	0.0618	2/23/2010@11:53:45			
1202042917|MS	1	65	87.7	4.21	2/23/2010@11:54:39			
1202042919|MSD	1	66	97.7	4.67	2/23/2010@11:55:33			
246872002	1	67	-0.703	0.0641	2/23/2010@11:56:26			
246872003	1	68	-0.152	0.0899	2/23/2010@11:57:19			
246872004	1	69	-2.08	-2.27e-4	2/23/2010@11:58:12			
246872005	1	70	-0.139	0.0905	2/23/2010@11:59:05			
WCN100223-03	1	S3	104	4.98	2/23/2010@11:59:57			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								
WCN100223-08	1	S7	-1.19	0.0412	2/23/2010@12:01:48			CCB
Known Conc: 0.00								
DQM Test: > + Concentration Limit								
Result: -1.19 < 5.00								
Message CCB Passed								
Action Continue								
DQM Test: < - Concentration Limit								
Result: -1.19 > -5.00								
Message CCB Passed								
Action Continue								
246872006	1	71	-1.15	0.0433	2/23/2010@12:03:37			
246872007	1	72	-1.05	0.0479	2/23/2010@12:04:30			
246872008	1	73	0.643	0.127	2/23/2010@12:05:22			
246881001	1	74	-2.08	-1.94e-4	2/23/2010@12:06:14			
246881002	1	75	-0.602	0.0689	2/23/2010@12:07:07			
246881003	1	76	-0.887	0.0555	2/23/2010@12:08:01			
246881004	1	77	-0.0611	0.0942	2/23/2010@12:08:55			
246881005	1	78	0.768	0.133	2/23/2010@12:09:49			
246881006	1	79	-0.774	0.0608	2/23/2010@12:10:43			
246881007	1	80	-0.623	0.0678	2/23/2010@12:11:37			
WCN100223-03	1	S3	105	5.00	2/23/2010@12:12:29			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				
WCN100223-08	1	S7		-1.05	0.0478	2/23/2010@12:14:20		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-1.05 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-1.05 > -5.00				
			Message	CCB Passed				
			Action	Continue				
246881008	1	81		-0.812	0.0590	2/23/2010@12:16:10		
246881009	1	82		-0.213	0.0871	2/23/2010@12:17:03		
246881010	1	83		1.65	0.174	2/23/2010@12:17:56		
246881011	1	84		-1.44	0.0294	2/23/2010@12:18:49		
1202046152|954516|MSD	1	10		82.2	3.95	2/23/2010@12:19:42		
1202046158|954519|MB	1	85		-1.23	0.0392	2/23/2010@12:20:35		
1202046165|LCS	1	86		27.6	1.39	2/23/2010@12:21:28	25.00	
247084001	1	87		-0.732	0.0627	2/23/2010@12:22:20		
247084002	1	88		-1.03	0.0489	2/23/2010@12:23:13		
247126001	1	89		-1.40	0.0313	2/23/2010@12:24:06		
WCN100223-03	1	S3		105	5.02	2/23/2010@12:24:58		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				
WCN100223-08	1	S7		-1.23	0.0392	2/23/2010@12:26:48		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-1.23 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-1.23 > -5.00				
			Message	CCB Passed				
			Action	Continue				
247126002	1	90		-1.37	0.0329	2/23/2010@12:28:37		
247126003	1	91		-0.806	0.0593	2/23/2010@12:29:32		
247136001	1	92		-0.846	0.0574	2/23/2010@12:30:26		
247136002	1	93		-1.49	0.0274	2/23/2010@12:31:21		
247141001	1	94		-1.44	0.0296	2/23/2010@12:32:16		
247141002	1	95		-1.10	0.0454	2/23/2010@12:33:09		
247141003	1	96		1.05	0.146	2/23/2010@12:34:03		
247186001	1	97		-1.11	0.0450	2/23/2010@12:34:58		
1202046159|DUP	1	98		-0.879	0.0558	2/23/2010@12:35:51		
1202046161|MS	1	99		99.4	4.76	2/23/2010@12:36:44		
WCN100223-03	1	S3		104	4.98	2/23/2010@12:37:37		CCV
			Known Conc:	0.00				
WCN100223-08	1	S7		-1.26	0.0382	2/23/2010@12:38:31		CCB
			Known Conc:	0.00				
1202046163|MSD	1	100		82.4	3.96	2/23/2010@12:39:24		
247186002	1	101		-0.608	0.0685	2/23/2010@12:40:17		
1202046160|DUP	1	102		-1.18	0.0415	2/23/2010@12:41:10		
1202046162|MS	1	103		99.3	4.75	2/23/2010@12:42:03		
1202046164|MSD	1	104		99.5	4.76	2/23/2010@12:42:55		
247186003	1	105		-0.780	0.0605	2/23/2010@12:43:49		
247186004	1	106		0.0465	0.0992	2/23/2010@12:44:43		

247186005	1	107	-0.959	0.0521	2/23/2010@12:45:38		
247186006	1	108	-0.485	0.0743	2/23/2010@12:46:32		
247186007	1	109	-1.06	0.0473	2/23/2010@12:47:26		
WCN100223-03	1	S3	103	4.95	2/23/2010@12:48:19		CCV
Known Conc:			0.00				
WCN100223-08	1	S7	-1.16	0.0425	2/23/2010@12:49:13		CCB
Known Conc:			0.00				
247186008	1	110	-1.30	0.0360	2/23/2010@12:50:07		
247186009	1	111	-0.542	0.0716	2/23/2010@12:51:01		
247186010	1	112	-0.994	0.0504	2/23/2010@12:51:56		
1202046185|954529|MB	1	113	-1.55	0.0242	2/23/2010@12:52:50		
1202046192|LCS	1	114	52.8	2.57	2/23/2010@12:53:43		
246983002	1	115	-1.39	0.0319	2/23/2010@12:54:37		
247036005	1	116	0.513	0.121	2/23/2010@12:55:30		
1202046186|DUP	1	117	-1.91	0.00766	2/23/2010@12:56:23		
1202046188|MS	1	118	93.0	4.45	2/23/2010@12:57:17		
1202046190|MSD	1	119	105	5.03	2/23/2010@12:58:09		
WCN100223-03	1	S3	104	4.96	2/23/2010@12:59:01		CCV
Known Conc:			0.00				
WCN100223-08	1	S7	-1.46	0.0288	2/23/2010@12:59:56		CCB
Known Conc:			0.00				
247039001	1	120	-1.15	0.0433	2/23/2010@13:00:48		
247039002	1	121	-1.35	0.0338	2/23/2010@13:01:43		
247039003	1	122	-1.24	0.0391	2/23/2010@13:02:39		
247039004	1	123	-1.49	0.0273	2/23/2010@13:03:33		
247092001	1	124	-2.07	2.59e-4	2/23/2010@13:04:27		
247098001	1	125	-2.08	-2.07e-4	2/23/2010@13:05:21		
247098002	1	126	-1.26	0.0378	2/23/2010@13:06:15		
247098003	1	127	-1.54	0.0247	2/23/2010@13:07:10		
247098004	1	128	-1.58	0.0230	2/23/2010@13:08:04		
247109001	1	129	-1.47	0.0281	2/23/2010@13:08:58		
WCN100223-03	1	S3	103	4.94	2/23/2010@13:09:50		CCV
Known Conc:			0.00				
WCN100223-08	1	S7	-0.806	0.0593	2/23/2010@13:10:44		CCB
Known Conc:			0.00				
247109002	1	130	-1.40	0.0315	2/23/2010@13:11:38		
1202046187|DUP	1	131	-1.64	0.0200	2/23/2010@13:12:31		
1202046189|MS	1	132	108	5.17	2/23/2010@13:13:25		
1202046191|MSD	1	133	86.4	4.14	2/23/2010@13:14:18		
247127001	1	134	-1.37	0.0327	2/23/2010@13:15:11		
247139001	1	135	-1.34	0.0342	2/23/2010@13:16:04		
247179001	1	136	-2.08	-2.07e-4	2/23/2010@13:16:59		
247182001	1	137	-1.43	0.0303	2/23/2010@13:17:54		
247183001	1	138	-1.38	0.0326	2/23/2010@13:18:48		
247192001	1	139	-1.93	0.00645	2/23/2010@13:19:43		
WCN100223-03	1	S3	104	4.98	2/23/2010@13:20:35		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				
WCN100223-08	1	S7	-1.39	0.0321	2/23/2010@13:22:26		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.39 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.39 > -5.00				
Message			CCB Passed				
Action			Continue				
1202049704|955981|MB	1	140	-2.06	4.71e-4	2/23/2010@13:24:16		
1202049711|LCS	1	141	54.3	2.64	2/23/2010@13:25:10		
246941002	1	142	-1.47	0.0283	2/23/2010@13:26:05		

1202049705	DUP	1	143	-2.02	0.00224	2/23/2010@13:26:59			
1202049707	MS	1	144	108	5.14	2/23/2010@13:27:53			
1202049709	MSD	1	145	115	5.47	2/23/2010@13:28:47			
247203001		1	146	-1.26	0.0380	2/23/2010@13:29:41			
1202049706	DUP	1	147	-2.03	0.00182	2/23/2010@13:30:34			
1202049708	MS	1	148	109	5.22	2/23/2010@13:31:28			
1202049710	MSD	1	149	102	4.89	2/23/2010@13:32:21			
WCN100223-03		1	S3	104	4.99	2/23/2010@13:33:13			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					
WCN100223-08		1	S7	-1.25	0.0385	2/23/2010@13:35:03			CCB
		Known Conc:		0.00					
DQM Test: > + Concentration Limit									
		Result:		-1.25 < 5.00					
		Message		CCB Passed					
		Action		Continue					
DQM Test: < - Concentration Limit									
		Result:		-1.25 > -5.00					
		Message		CCB Passed					
		Action		Continue					
247204001		1	150	3.39	0.256	2/23/2010@13:36:52			
247244001		1	151	2.20	0.200	2/23/2010@13:37:47			
247250001		1	152	-1.65	0.0198	2/23/2010@13:38:42			
247250002		1	153	-1.43	0.0302	2/23/2010@13:39:37			
247256001		1	154	-1.39	0.0317	2/23/2010@13:40:32			
247256002		1	155	-1.28	0.0369	2/23/2010@13:41:27			
247273001		1	156	247	11.7	2/23/2010@13:42:22			
247322001		1	157	-1.24	0.0389	2/23/2010@13:43:15			
247322002		1	158	-1.40	0.0314	2/23/2010@13:44:09			
247335001		1	159	-1.39	0.0318	2/23/2010@13:45:04			
WCN100223-03		1	S3	105	5.01	2/23/2010@13:45:56			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					
WCN100223-08		1	S7	-1.55	0.0242	2/23/2010@13:47:47			CCB
		Known Conc:		0.00					
DQM Test: > + Concentration Limit									
		Result:		-1.55 < 5.00					
		Message		CCB Passed					
		Action		Continue					
DQM Test: < - Concentration Limit									
		Result:		-1.55 > -5.00					
		Message		CCB Passed					
		Action		Continue					
247339001		1	160	-1.25	0.0386	2/23/2010@13:49:37			
247339002		1	161	-2.07	1.64e-4	2/23/2010@13:50:31			
247350001		1	162	1.51	0.168	2/23/2010@13:51:25			
247434001		1	163	-1.33	0.0346	2/23/2010@13:52:18			
247434002		1	164	-0.955	0.0523	2/23/2010@13:53:12			
247559001		1	165	-1.30	0.0363	2/23/2010@13:54:05			
247560001		1	166	-1.67	0.0188	2/23/2010@13:55:00			
247567001		1	167	-1.26	0.0379	2/23/2010@13:55:56			
247273001		1	156	131	6.22	2/23/2010@13:56:50		2.00	
WCN100223-03		1	S3	105	5.02	2/23/2010@13:57:43			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				
WCN100223-08	1	S7	-1.21	0.0401	2/23/2010@13:59:33	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.21 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.21 > -5.00				
Message		CCB Passed				
Action		Continue				

Analyte Properties Table for OM_2-23-2010_11-19-05.OMN

Property	Channel 1 TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

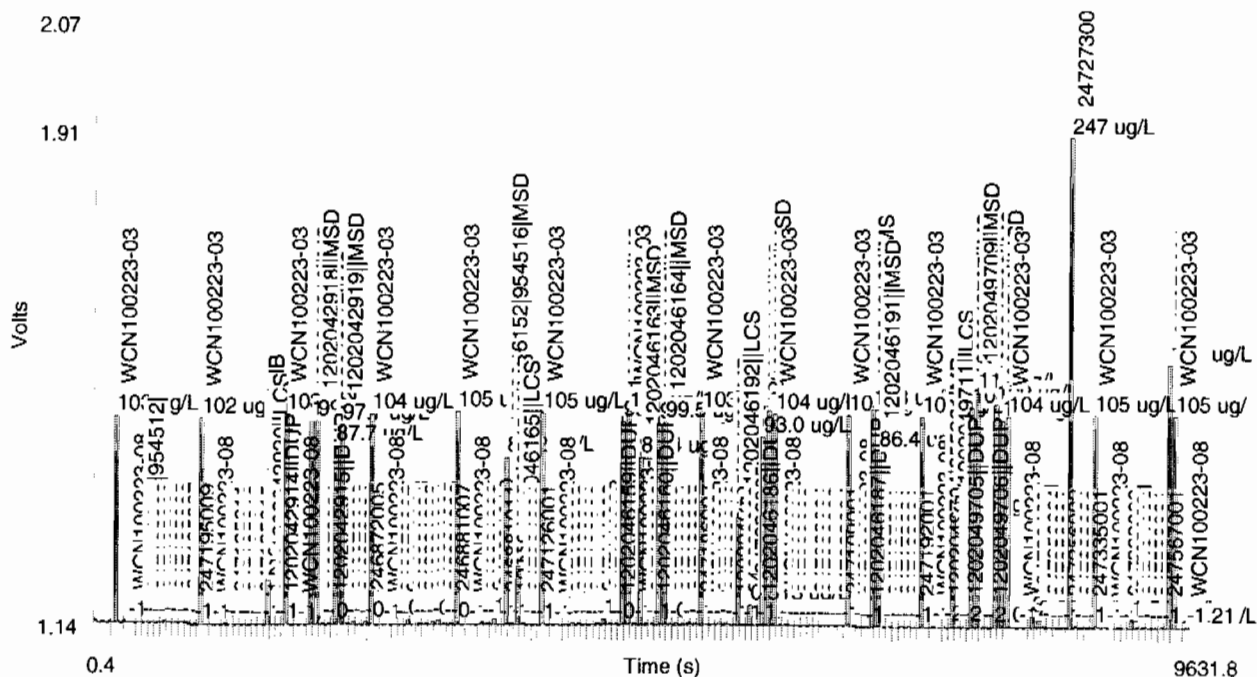
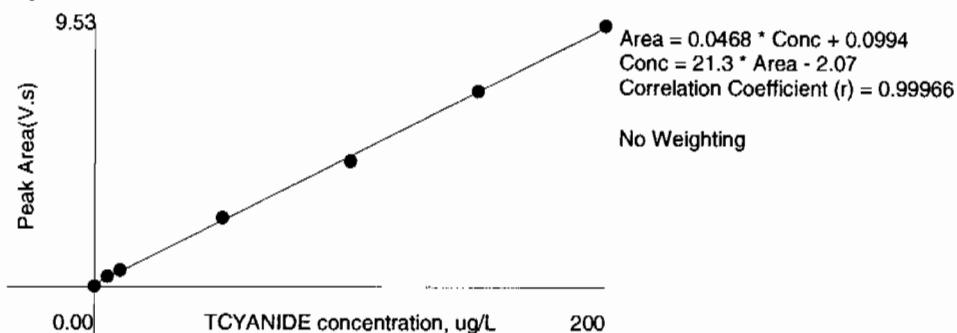


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.53	0.622	-0.6	2/23/2010	10:08:00
2	150	1	7.13	0.468	-0.1	2/23/2010	10:08:52
3	100	1	4.60	0.301	3.8	2/23/2010	10:09:44
4	50.0	1	2.53	0.167	-3.7	2/23/2010	10:10:37
5	10.0	1	0.617	0.0399	-8.7	2/23/2010	10:11:31
6	5.00	1	0.385	0.0238	-15.5	2/23/2010	10:12:24
7	0.00	1	0.0245	0.00128		2/23/2010	10:13:19

Figure 1: TCYANIDE



Ion Chromatography

Prep LogBook

Analyst: MARI Verified by: _____

Batch: 955441

Lab SOP: GL-GC-E-086 REV# 17

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202048421	UIC100224SPK	.8	mL
MS	1202048419	UIC100224SPK	.8	mL
MSD	1202048420	UIC100224SPK	.8	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202048417		EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
LCS	1202048421		EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
SAMPLE	246872001		EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
DUP	1202048418	246872001	EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
MS	1202048419	246872001	EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
MSD	1202048420	246872001	EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
SAMPLE	246872002		EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
SAMPLE	246872003		EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
SAMPLE	246872004		EPA 300.0 PREP	27-FEB-2010 17:00	4.05 g	40 mL	9.87654	SOIL
SAMPLE	246872005		EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
SAMPLE	246872006		EPA 300.0 PREP	27-FEB-2010 17:00	4.12 g	40 mL	9.70874	SOIL
SAMPLE	246872007		EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL
SAMPLE	246872008		EPA 300.0 PREP	27-FEB-2010 17:00	4 g	40 mL	10	SOIL

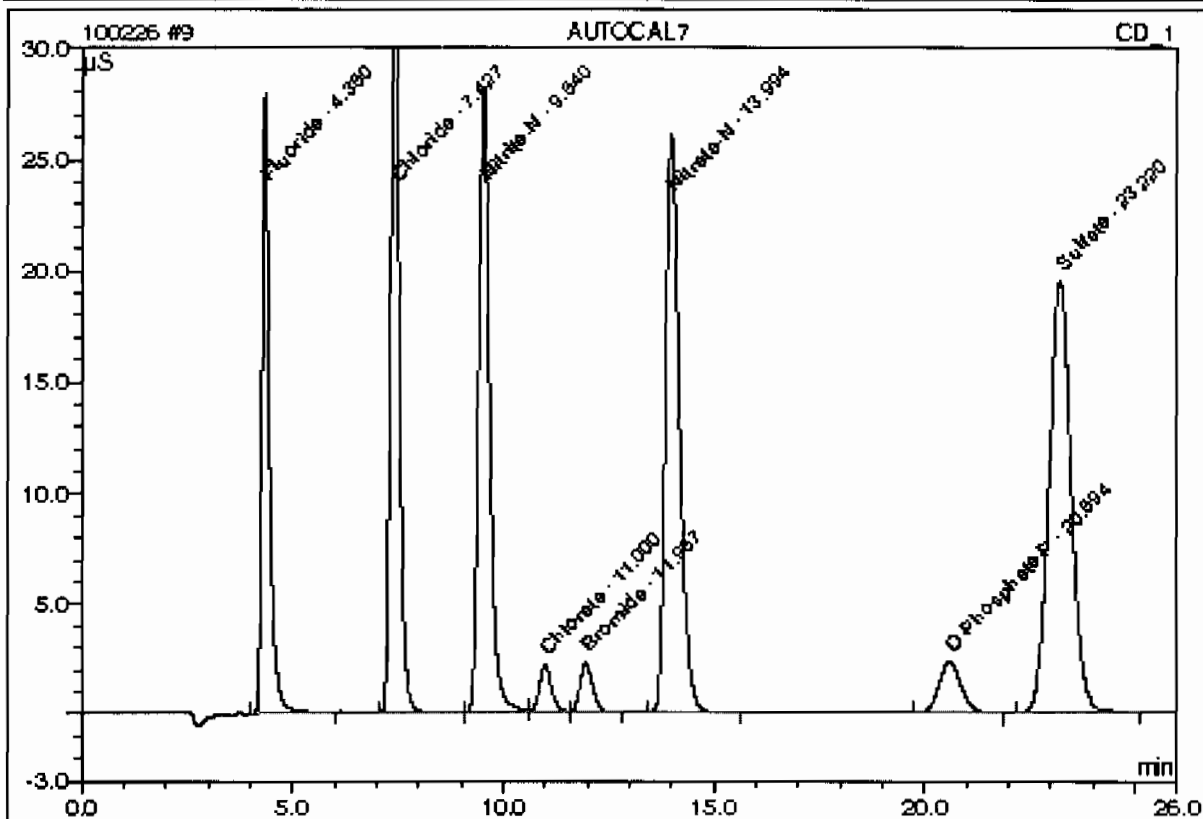
Comments

This is runlog for Sequence 100302.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
ICAL-07	02/26/10 14:11		1	100302	MAR1
ICAL-06	02/26/10 14:40		1	100302	MAR1
ICAL-05	02/26/10 15:09		1	100302	MAR1
ICAL-04	02/26/10 15:38		1	100302	MAR1
ICAL-03	02/26/10 16:07		1	100302	MAR1
ICAL-02	02/26/10 16:36		1	100302	MAR1
ICAL-01	02/26/10 17:04		1	100302	MAR1

9 AUTOCAL7

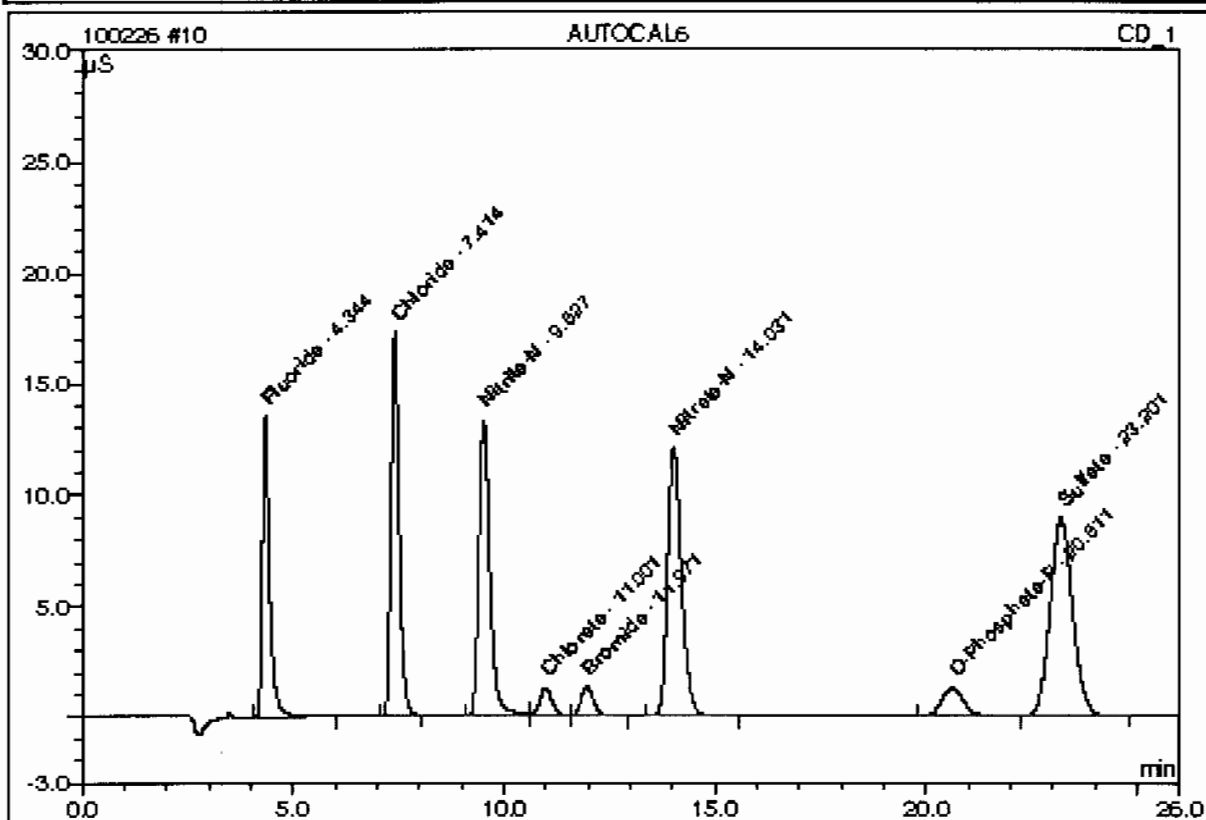
Sample Name:	AUTOCAL7	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 14:11	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %
1	4.35	Fluoride	10.0000	10.0855		5.77442	12.08
2	7.43	Chloride	20.0000	20.3596		8.66452	18.13
3	9.54	Nitrite-N	10.0000	10.0634		8.38569	17.54
4	11.00	Chlorate	5.0000	5.0096		0.72691	1.52
5	11.97	Bromide	5.0000	4.9733		0.76589	1.60
6	13.99	Nitrate-N	10.0000	10.1518		10.17864	21.30
7	20.59	O-Phosphate-P	5.0000	5.0713		1.40399	2.94
8	23.22	Sulfate	40.0000	40.4933		11.89615	24.89
Total:				106.2078	0.000	47.798	100.00

10 AUTOCAL6

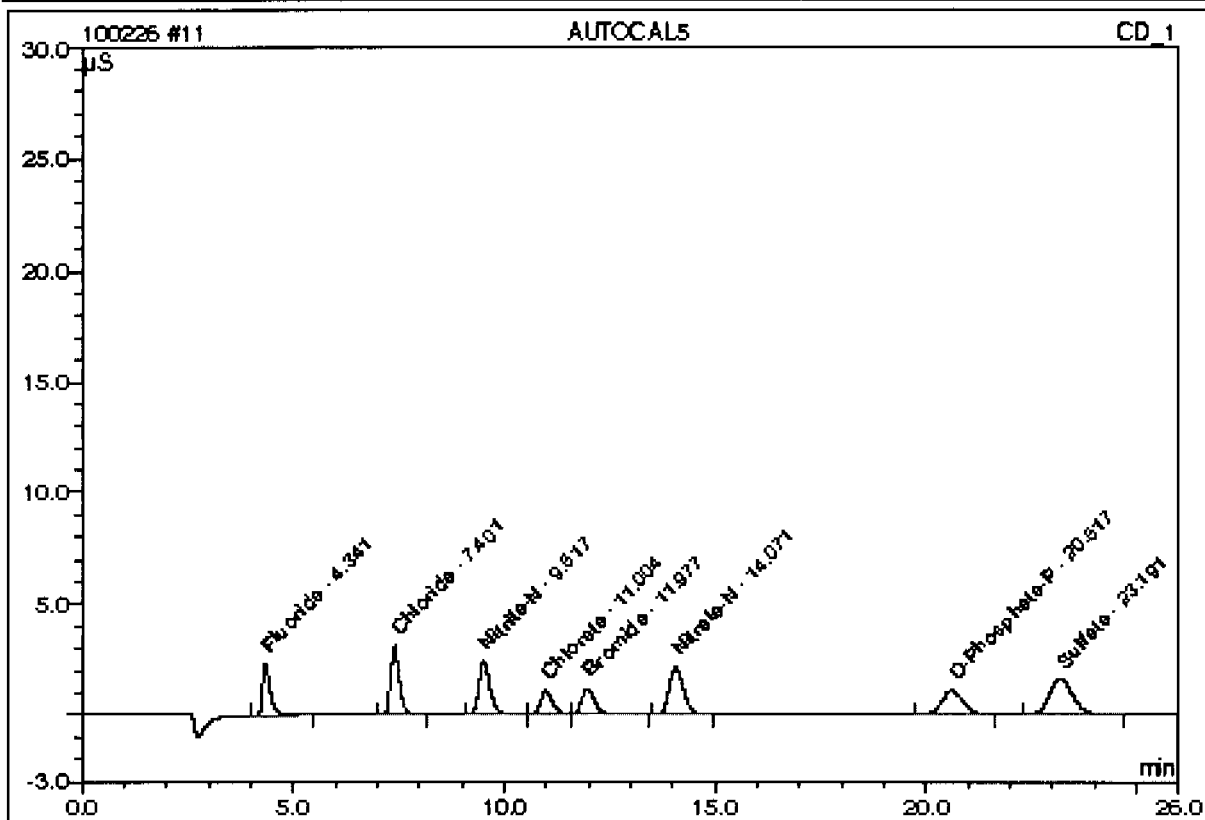
Sample Name:	AUTOCAL6	Injection Volume:	1.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 14:40	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS·min	Rel. Area %
1	4.34	Fluoride	5.0000	4.8384		2.75186	12.16
2	7.41	Chloride	10.0000	9.2955		3.91334	17.29
3	9.53	Nitrate-N	5.0000	4.8861		4.04396	17.86
4	11.00	Chlorate	3.0000	3.0997		0.44848	1.98
5	11.97	Bromide	3.0000	2.9841		0.45913	2.03
6	14.03	Nitrate-N	5.0000	4.7080		4.67150	20.63
7	20.61	O-Phosphate-P	3.0000	2.9561		0.80102	3.54
8	23.20	Sulfate	20.0000	19.0431		5.55000	24.51
Total:				51.8110	0.000	22.639	100.00

11 AUTOCAL5

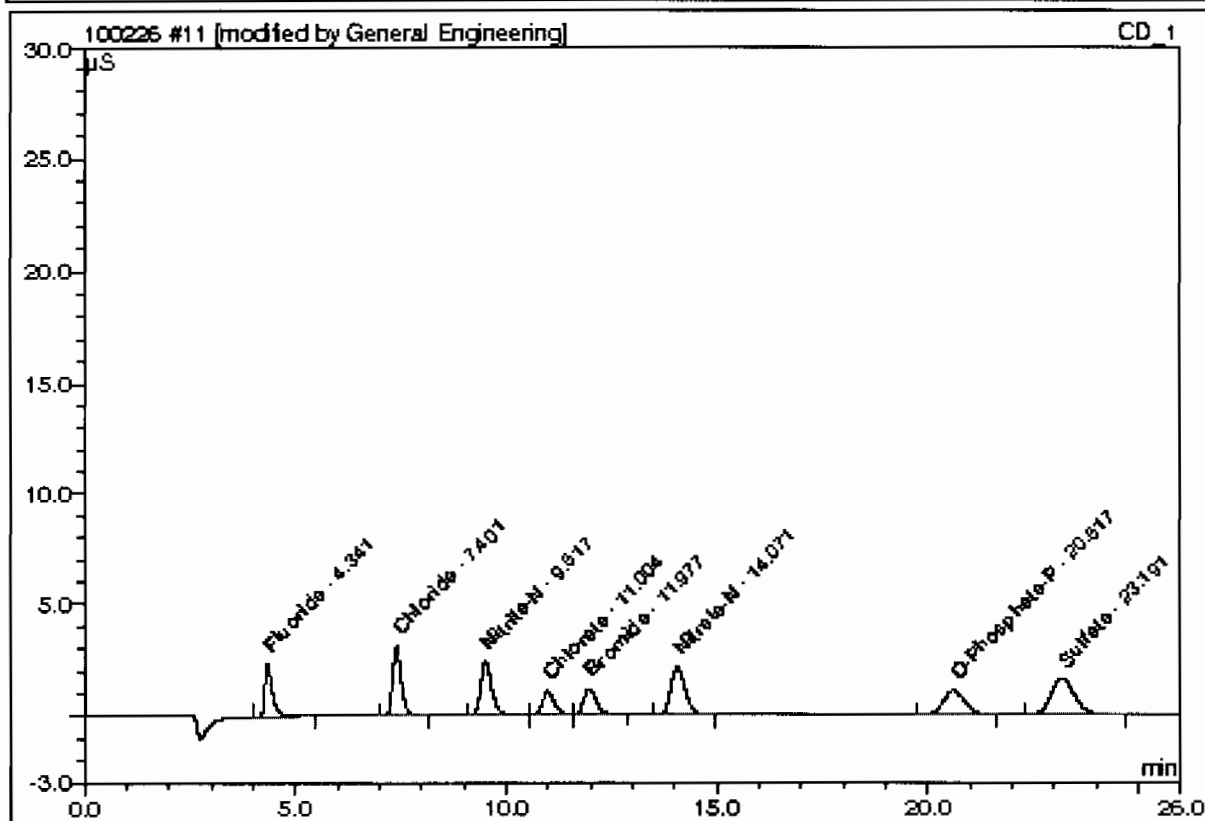
Sample Name:	AUTOCAL5	Injection Volume:	1.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 15:09	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.34	Fluoride	1.0000	0.9456		0.50946	9.66
2	7.40	Chloride	2.0000	1.8831		0.73030	13.85
3	9.52	Nitrate-N	1.0000	0.9352		0.73136	13.87
4	11.00	Chlorate	2.5000	2.4073		0.34799	6.60
5	11.98	Bromide	2.5000	2.6793		0.41530	7.88
6	14.07	Nitrate-N	1.0000	0.9238		0.84323	15.99
7	20.62	O-Phosphate-P	2.5000	2.4544		0.65802	12.48
8	23.19	Sulfate	4.0000	3.7873		1.03648	19.66
Total:				16.0159	0.000	5.272	100.00

11 AUTOCAL5

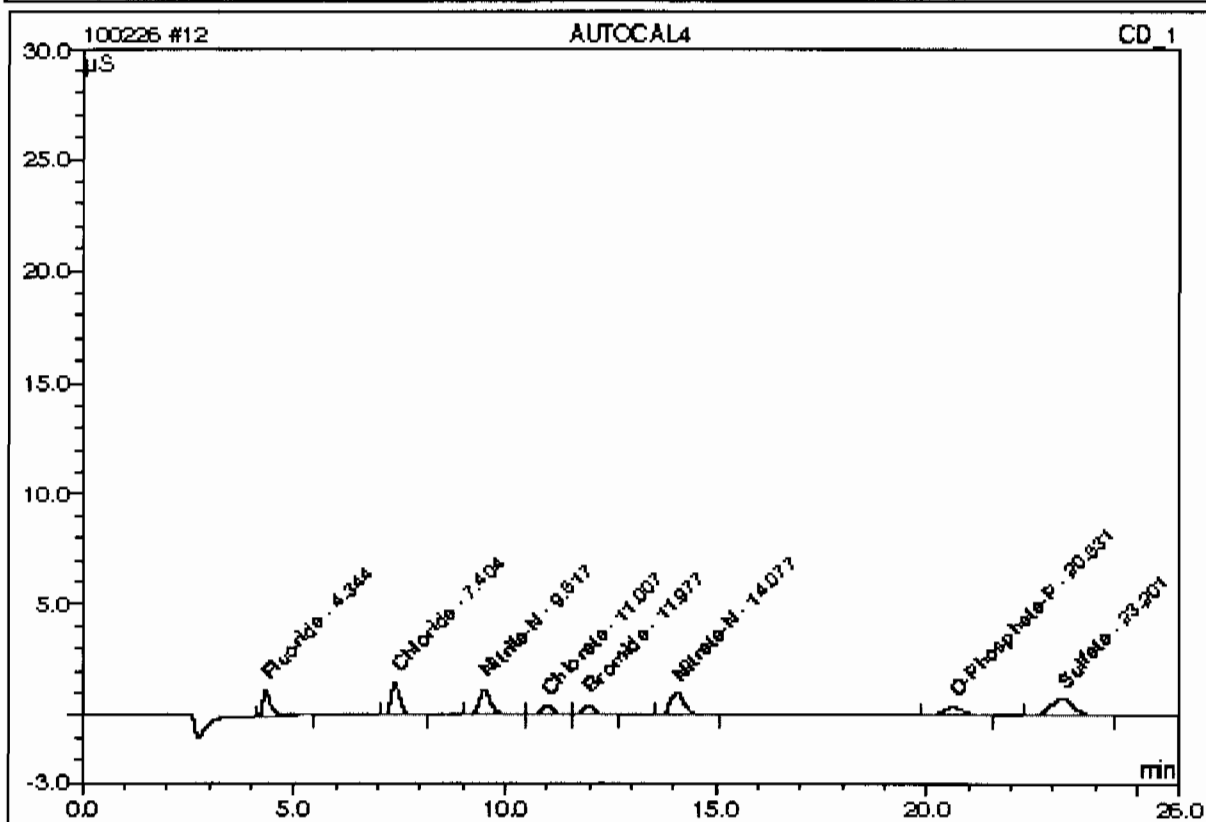
Sample Name:	AUTOCAL5	Injection Volume:	1.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 15:09	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.34	Fluoride	1.0000	0.9456		0.50946	9.72
2	7.40	Chloride	2.0000	1.8931		0.73030	13.93
3	9.52	Nitrate-N	1.0000	0.9315		0.72762	13.88
4	11.00	Chlorate	2.5000	2.3673		0.34093	6.50
5	11.98	Bromide	2.5000	2.5838		0.39739	7.58
6	14.07	Nitrate-N	1.0000	0.9238		0.84323	16.08
7	20.62	O-Phosphate-P	2.5000	2.4544		0.65802	12.55
8	23.19	Sulfate	4.0000	3.7873		1.03648	19.77
Total:				15.8767	0.000	5.243	100.00

12 AUTOCAL4

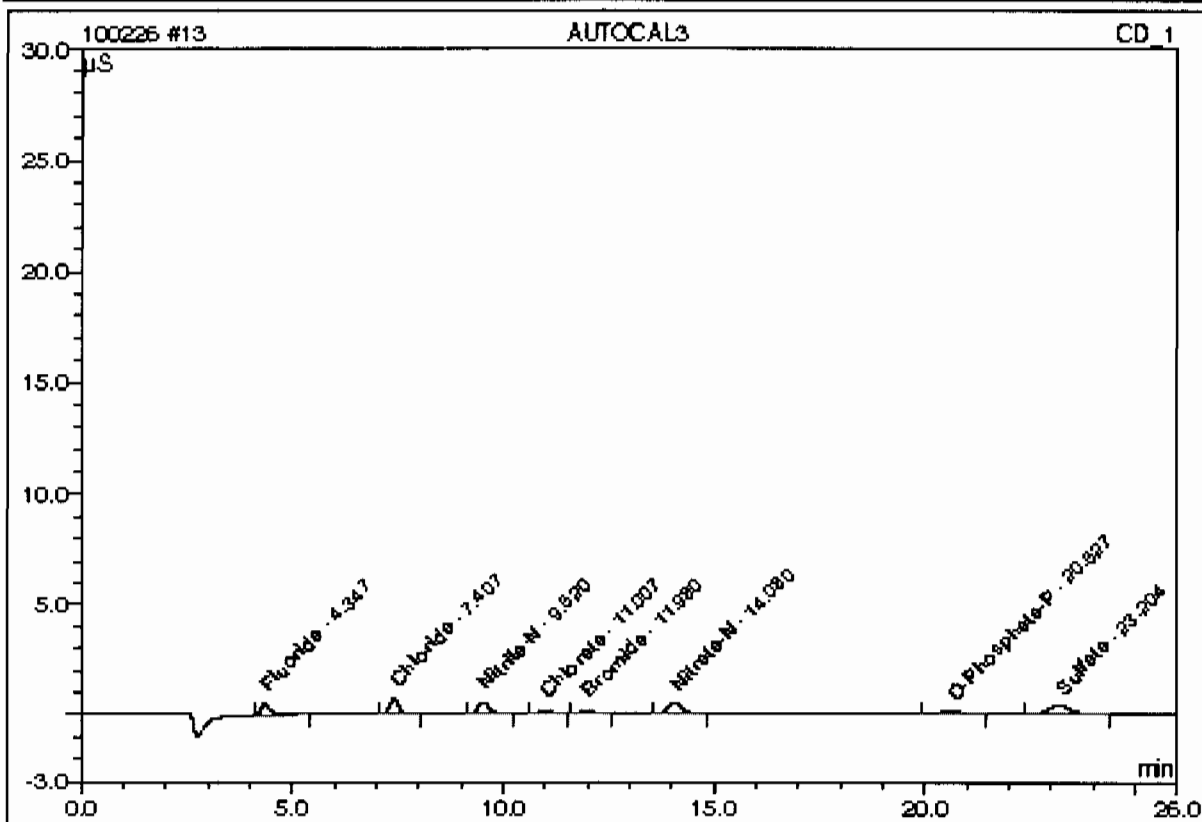
Sample Name:	AUTOCAL4	Injection Volume:	1.0
Vial Number:	6	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 15:38	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.34	Fluoride	0.5000	0.4893		0.24663	10.36
2	7.40	Chloride	1.0000	0.9971		0.34985	14.69
3	9.52	Nitrite-N	0.5000	0.4896		0.35700	14.99
4	11.01	Chlorate	1.0000	0.9843		0.13787	5.79
5	11.98	Bromide	1.0000	0.9852		0.15086	6.34
6	14.08	Nitrate-N	0.5000	0.4953		0.40975	17.21
7	20.83	O-Phosphate-P	1.0000	0.9197		0.22053	9.26
8	23.20	Sulfate	2.0000	2.0029		0.50858	21.36
Total:				7.3634	0.000	2.381	100.00

13 AUTOCAL3

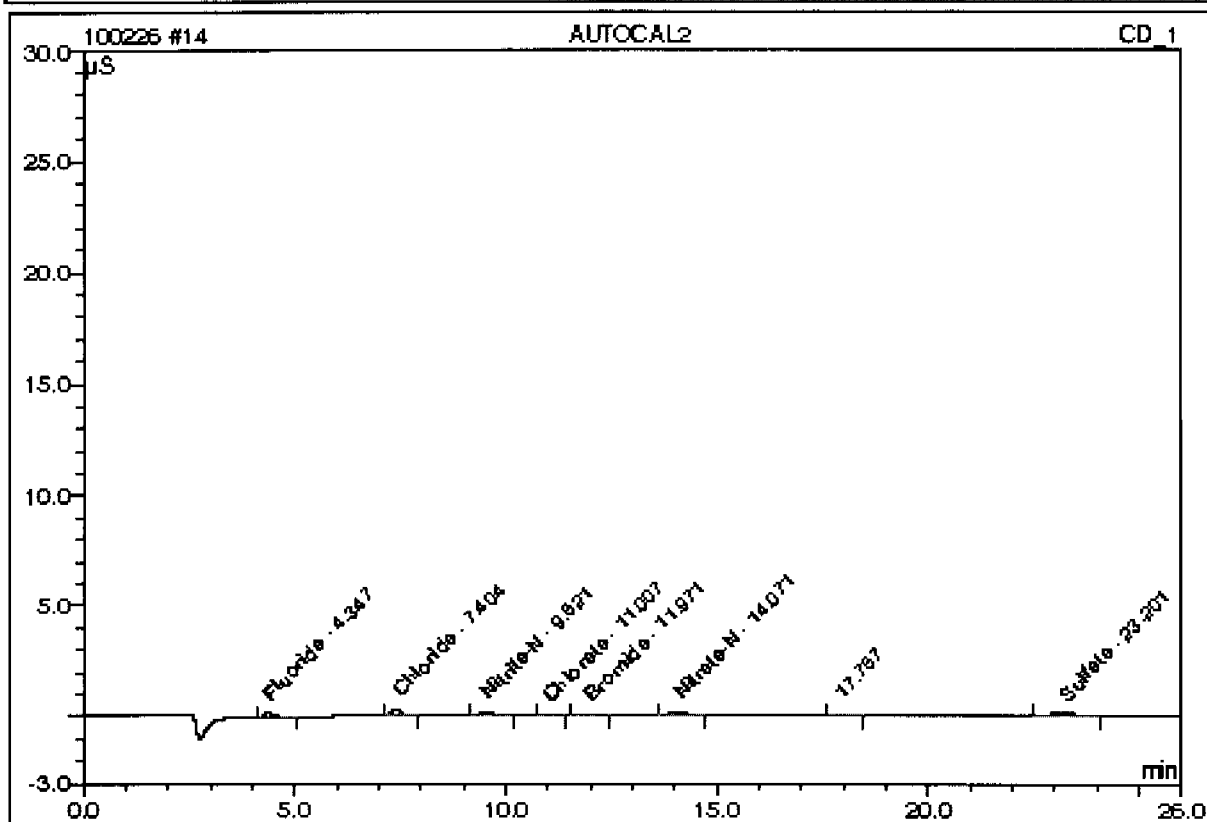
Sample Name:	AUTOCAL3	Injection Volume:	1.0
Vial Number:	7	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 16:07	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	0.2500	0.2826		0.12755	10.86
2	7.41	Chloride	0.5000	0.6142		0.18541	15.79
3	9.52	Nitrite-N	0.2500	0.2703		0.17315	14.75
4	11.01	Chlorate	0.5000	0.5046		0.06743	5.74
5	11.98	Bromide	0.5000	0.4766		0.07246	6.17
6	14.08	Nitrate-N	0.2500	0.2969		0.20912	17.81
7	20.63	O-Phosphate-P	0.5000	0.4301		0.08097	6.90
8	23.20	Sulfate	1.0000	1.1562		0.25806	21.98
Total:				4.0318	0.000	1.174	100.00

14 AUTOCAL2

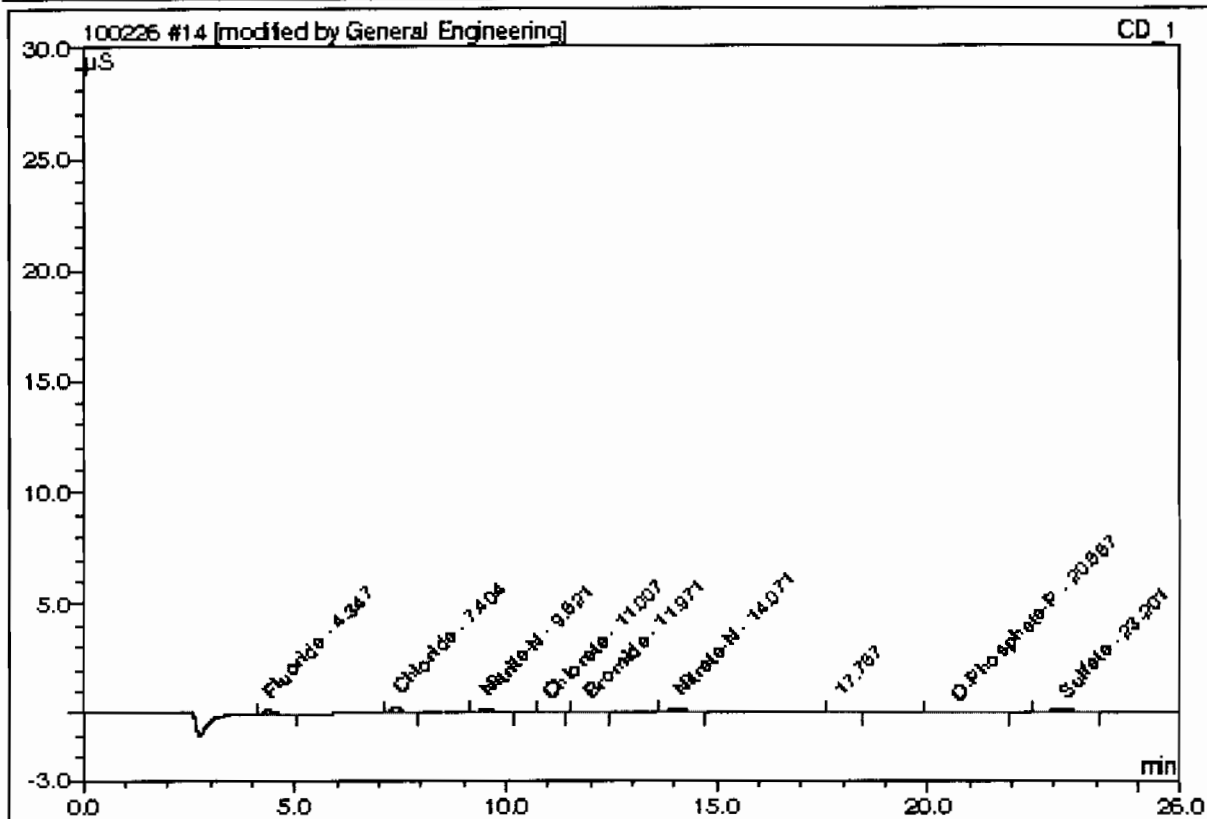
Sample Name:	AUTOCAL2	Injection Volume:	1.0
Vial Number:	8	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 16:36	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	0.1000	0.1475		0.04972	10.74
2	7.40	Chloride	0.2000	0.3681		0.07973	17.22
3	9.52	Nitrite-N	0.1000	0.1444		0.06824	14.74
4	11.01	Chlorate	0.2000	0.1849		0.02108	4.55
5	11.97	Bromide	0.2000	0.1801		0.02821	6.10
6	14.07	Nitrate-N	0.1000	0.1840		0.09485	20.49
n.a.	n.a.	O-Phosphate-P	0.2000	n.a.	n.a.	n.a.	n.a.
8	23.20	Sulfate	0.4000	0.6333		0.10336	22.33
Total:				1.8423	0.000	0.445	96.18

14 AUTOCAL2

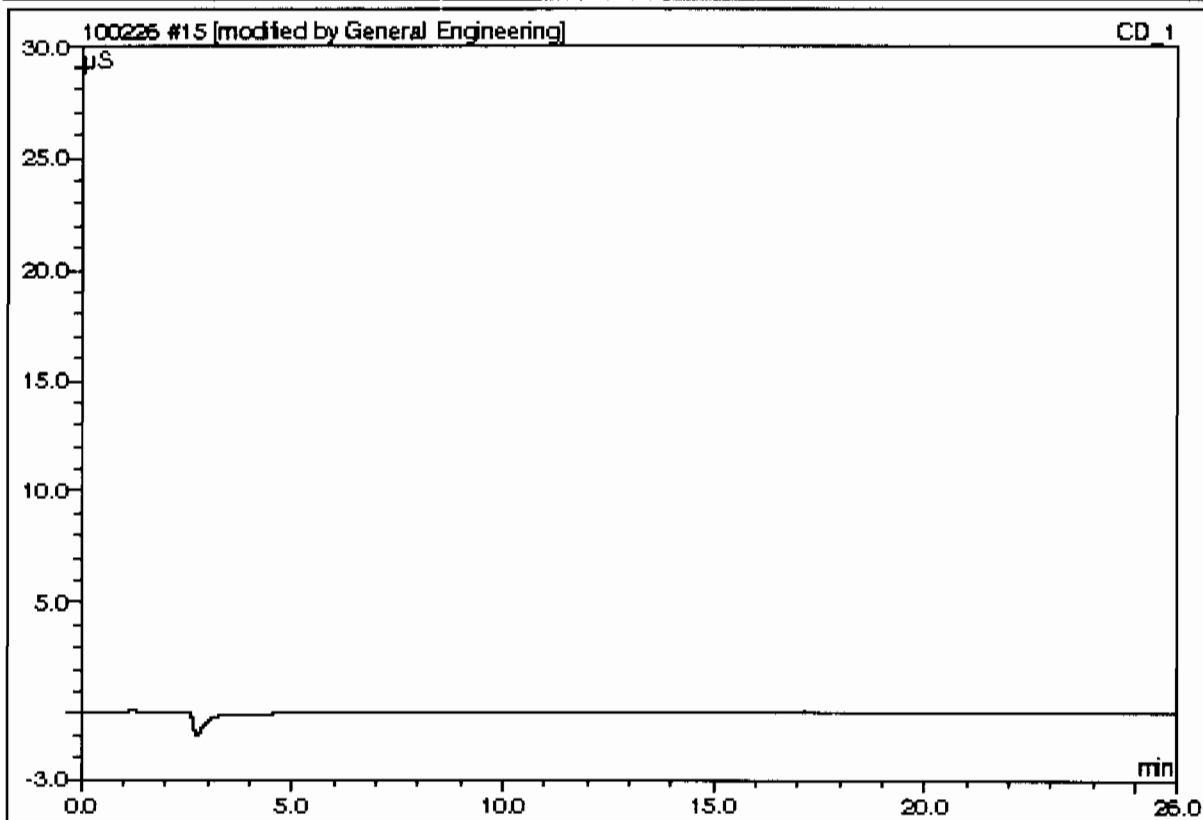
Sample Name:	AUTOCAL2	Injection Volume:	1.0
Vial Number:	8	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 16:36	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	0.1000	0.1475		0.04972	10.26
2	7.40	Chloride	0.2000	0.3681		0.07973	16.45
3	9.52	Nitrite-N	0.1000	0.1452		0.06824	14.08
4	11.01	Chlorate	0.2000	0.1890		0.02108	4.35
5	11.97	Bromide	0.2000	0.1899		0.02821	5.82
6	14.07	Nitrate-N	0.1000	0.1840		0.09485	19.57
8	20.66	O-Phosphate-P	0.2000	0.2223		0.02173	4.48
9	23.20	Sulfate	0.4000	0.6333		0.10336	21.33
Total:				2.0793	0.000	0.467	96.35

15 AUTOCAL1

Sample Name:	AUTOCAL1	Injection Volume:	1.0
Vial Number:	9	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 17:04	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	0.0000	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

15 AUTOCAL1

Sample Name: AUTOCAL1

Vial Number: 9

Sample Type: standard

Control Program: AS23

Quantif. Method: 100225an

Recording Time: 2/26/2010 17:04

Run Time (min): 26.00

Injection Volume: 1.0

Channel: CD_1

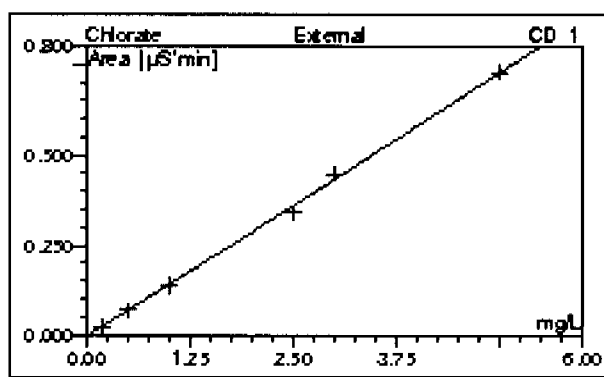
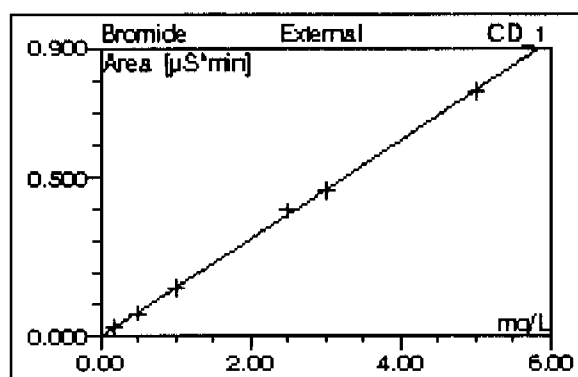
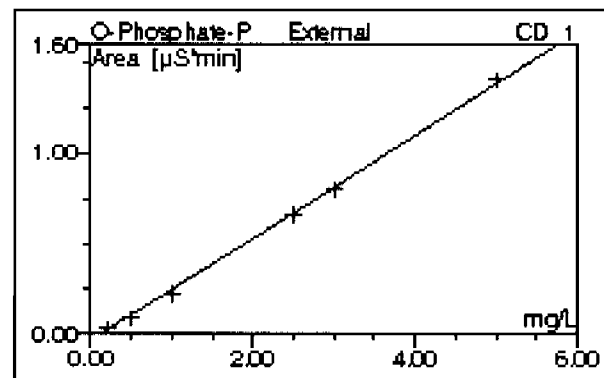
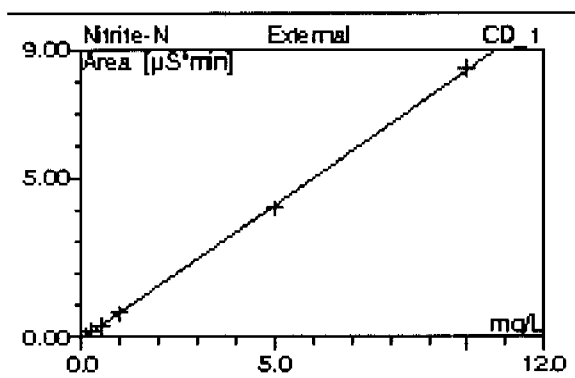
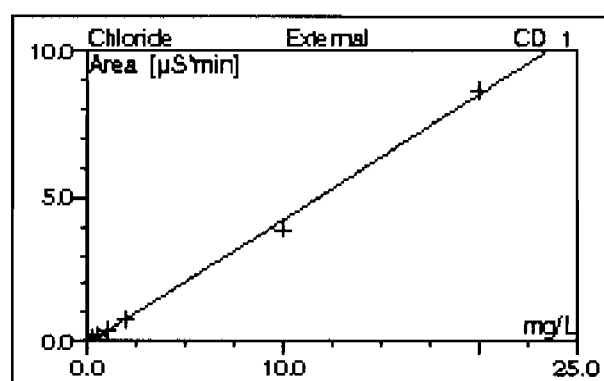
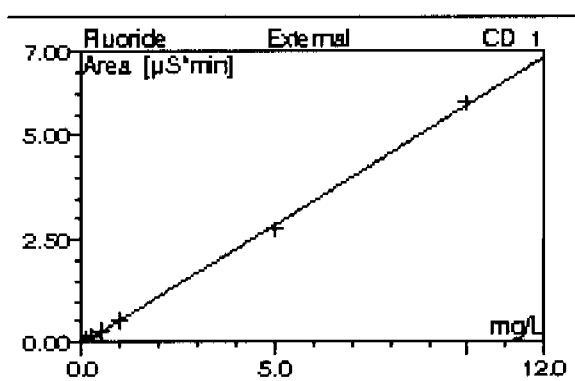
Dilution Factor: 1.0000

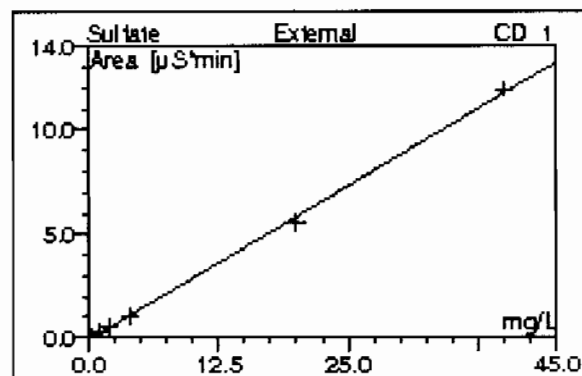
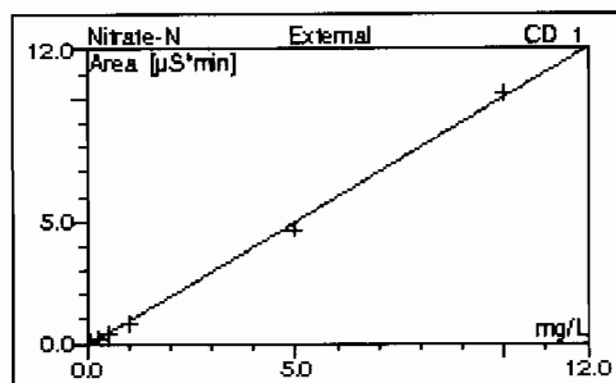
Sample Weight: 1.0000

Sample Amount: 1.0000

Analyst: MAR1

Column: AS23-002712; GL GC E086;300;9056





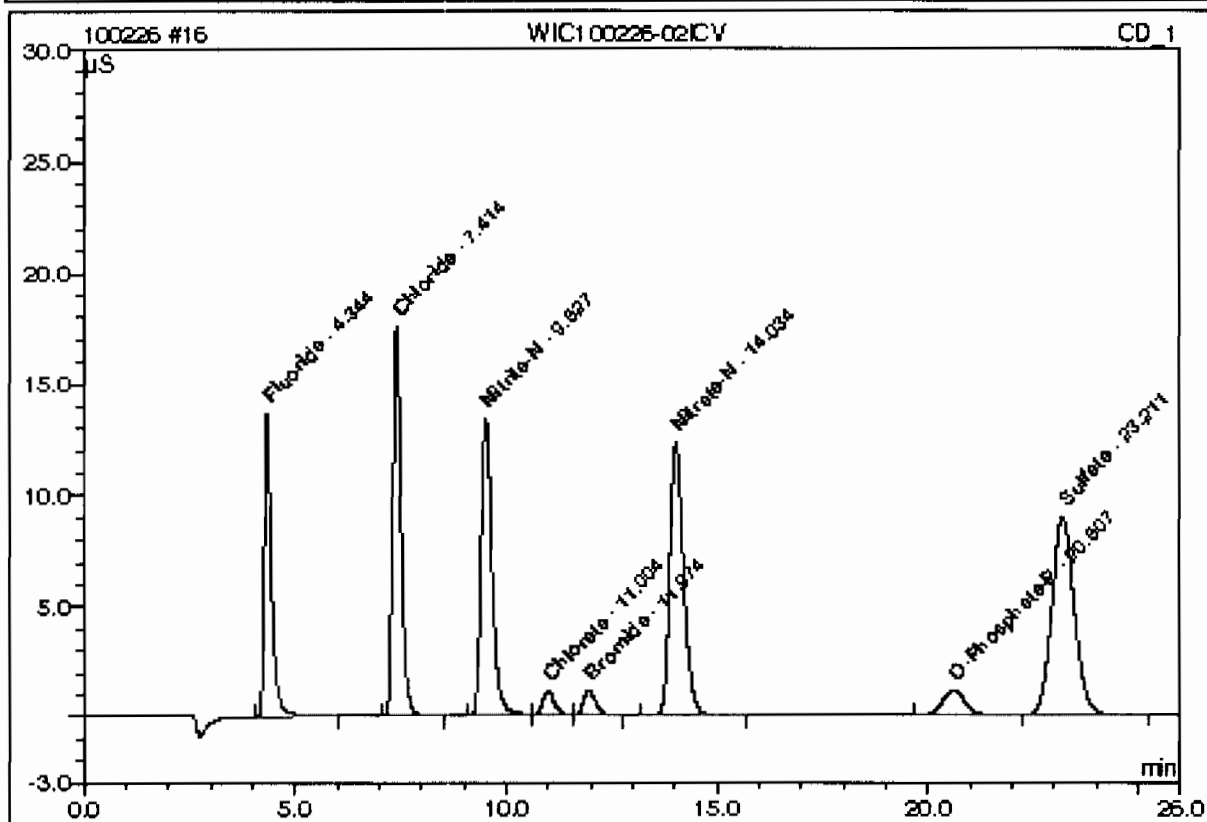
No. CD_1	Ret.Time CD_1 min	Peak Name CD_1	Cal.Type CD_1	Coeff.Det. CD_1 %	Offset CD_1	Slope CD_1	Curve CD_1
n.a.	n.a.	Fluoride	OLO#	99.9498	-0.0352	0.5760	0.0000
n.a.	n.a.	Chloride	OLO#	99.7885	-0.0783	0.4294	0.0000
n.a.	n.a.	Nitrite-N	OLO#	99.9894	-0.0536	0.8366	0.0000
n.a.	n.a.	Chlorate	OLO#	99.8345	-0.0067	0.1468	0.0000
n.a.	n.a.	Bromide	OLO#	99.9472	-0.0011	0.1542	0.0000
n.a.	n.a.	Nitrate-N	OLO#	99.8450	-0.0913	1.0116	0.0000
n.a.	n.a.	O-Phosphate-P	OLO#	99.8794	-0.0416	0.2851	0.0000
n.a.	n.a.	Sulfate	OLO#	99.8991	-0.0840	0.2959	0.0000
Average:				99.8889	-0.0490	0.4672	0.0000

This is runlog for Sequence 100226.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	02/26/10 13:14		1	100226	MAR1
BLK	02/26/10 13:42		1	100226	MAR1
ICAL-07	02/26/10 14:11		1	100226	MAR1
ICAL-06	02/26/10 14:40		1	100226	MAR1
ICAL-05	02/26/10 15:09		1	100226	MAR1
ICAL-04	02/26/10 15:38		1	100226	MAR1
ICAL-03	02/26/10 16:07		1	100226	MAR1
ICAL-02	02/26/10 16:36		1	100226	MAR1
ICAL-01	02/26/10 17:04		1	100226	MAR1
ICV	02/26/10 17:33		1	100226	MAR1
ICB	02/26/10 18:02		1	100226	MAR1
1202055176	02/26/10 18:31	958323	1	100226	MAR1
1202055181	02/26/10 18:59	958323	1	100226	MAR1
248133001	02/26/10 19:28	958323	1	100226	MAR1
1202055177	02/26/10 19:57	958323	1	100226	MAR1
1202055179	02/26/10 20:26	958323	1	100226	MAR1
248133002	02/26/10 20:55	958323	1	100226	MAR1
248133003	02/26/10 21:24	958323	1	100226	MAR1
248133005	02/26/10 21:53	958323	1	100226	MAR1
248133006	02/26/10 22:22	958323	1	100226	MAR1
248133007	02/26/10 22:50	958323	1	100226	MAR1
CVH	02/26/10 23:19		1	100226	MAR1
CCB	02/26/10 23:48		1	100226	MAR1

16 WIC100226-02ICV

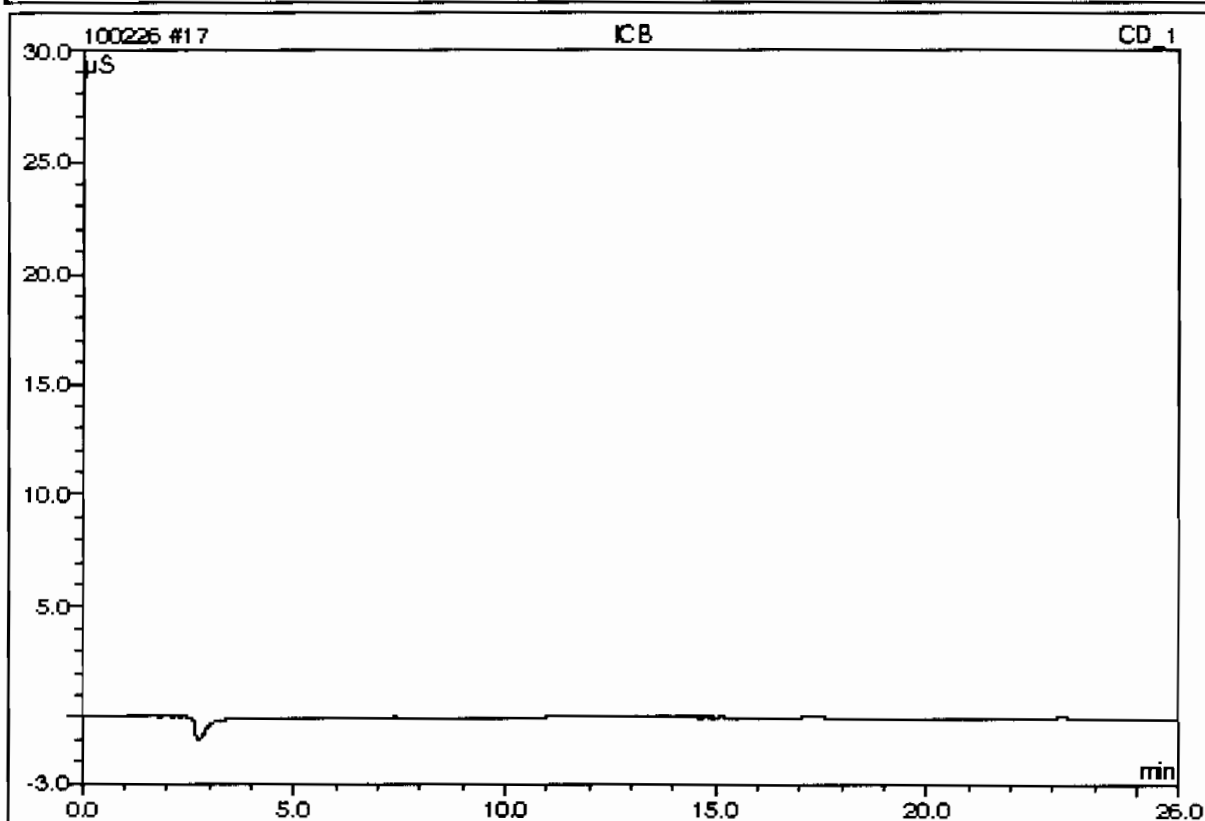
Sample Name:	WIC100226-02ICV	Injection Volume:	1.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 17:33	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC086,300;0056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %
1	4.34	Fluoride	n.a.	4.8533		2.76044	12.27
2	7.41	Chloride	n.a.	9.4181		3.96602	17.63
3	9.53	Nitrite-N	n.a.	4.8245		3.99229	17.75
4	11.00	Chlorate	n.a.	2.4815		0.35771	1.59
5	11.97	Bromide	n.a.	2.4889		0.38276	1.70
6	14.03	Nitrate-N	n.a.	4.7766		4.74087	21.07
7	20.61	O-Phosphate-P	n.a.	2.7182		0.73321	3.26
8	23.21	Sulfate	n.a.	19.0842		5.56215	24.73
Total:				50.6453	0.000	22.495	100.00

17 ICB

Sample Name:	ICB	Injection Volume:	1.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 18:02	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

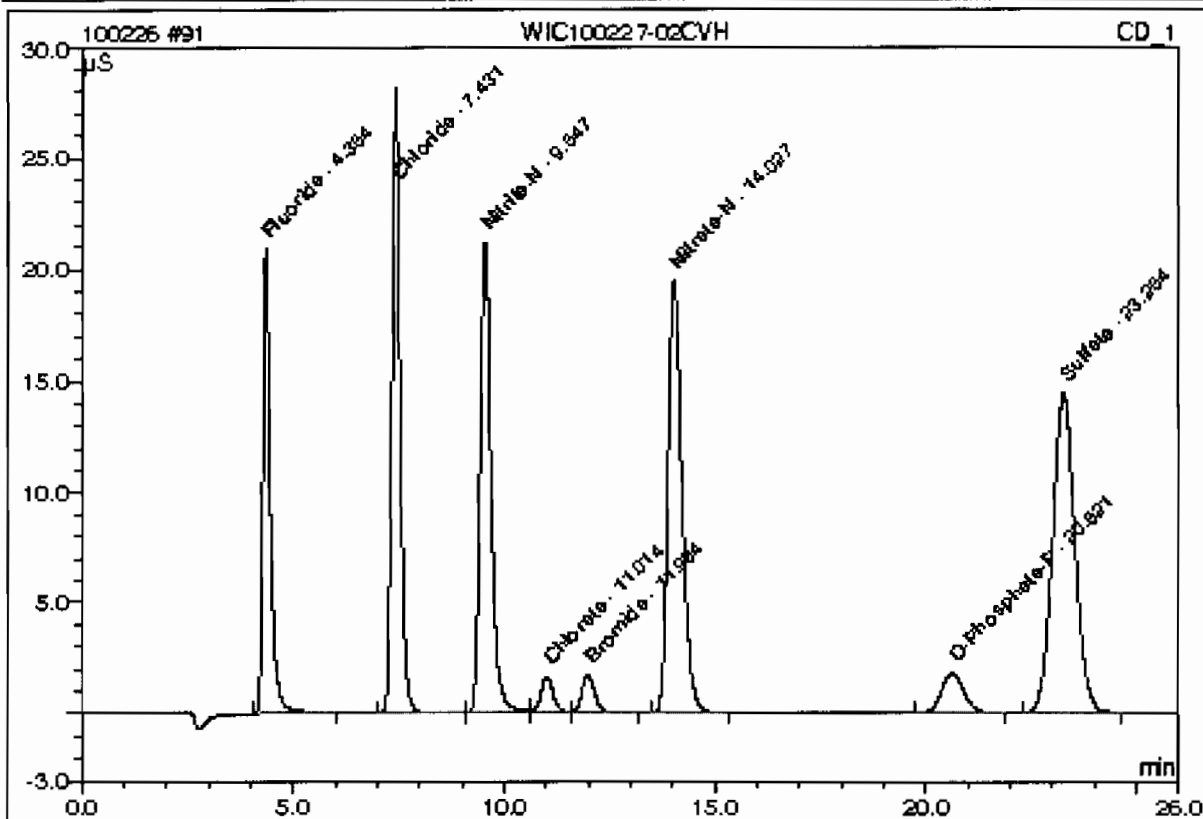
This is runlog for Sequence 100226.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
246719004	02/28/10 00:23	955455	1	100226	MAR1
246719005	02/28/10 00:52	955455	1	100226	MAR1
CCV	02/28/10 01:21		1	100226	MAR1
CCB	02/28/10 01:50		1	100226	MAR1
246719006	02/28/10 02:19	955455	1	100226	MAR1
246719007	02/28/10 02:47	955455	1	100226	MAR1
246719008	02/28/10 03:16	955455	1	100226	MAR1
246734001	02/28/10 03:45	955455	1	100226	MAR1
246736001	02/28/10 04:14	955455	1	100226	MAR1
1202048455	02/28/10 04:43	955455	1	100226	MAR1
1202048457	02/28/10 05:12	955455	1	100226	MAR1
1202048459	02/28/10 05:41	955455	1	100226	MAR1
246736002	02/28/10 06:10	955455	1	100226	MAR1
CVH	02/28/10 06:39		1	100226	MAR1
CCB	02/28/10 07:08		1	100226	MAR1
1202048417	02/28/10 07:37	955443	1	100226	MAR1
1202048421	02/28/10 08:06	955443	1	100226	MAR1
246872001	02/28/10 08:34	955443	1	100226	MAR1
1202048418	02/28/10 09:03	955443	1	100226	MAR1
1202048419	02/28/10 09:32	955443	1	100226	MAR1
1202048420	02/28/10 10:01	955443	1	100226	MAR1
246872002	02/28/10 10:30	955443	1	100226	MAR1
246872003	02/28/10 10:59	955443	1	100226	MAR1
246872004	02/28/10 11:28	955443	1	100226	MAR1
246872005	02/28/10 11:57	955443	1	100226	MAR1
CCV	02/28/10 12:26		1	100226	MAR1
CCB	02/28/10 12:55		1	100226	MAR1
246872006	02/28/10 13:24	955443	1	100226	MAR1

246872007	02/28/10 13:53	955443 1	100226	MAR1
246872008	02/28/10 14:22	955443 1	100226	MAR1
CVH	02/28/10 14:50	1	100226	MAR1
CCB	02/28/10 15:19	1	100226	MAR1
CCV	02/28/10 16:40	1	100226	MAR1
CCB	02/28/10 17:10	1	100226	MAR1
248157002	02/28/10 17:39	958323 10	100226	MAR1
1202055178	02/28/10 18:08	958323 10	100226	MAR1
1202055180	02/28/10 18:37	958323 10	100226	MAR1
248157003	02/28/10 19:06	958323 10	100226	MAR1
248157004	02/28/10 19:35	958323 10	100226	MAR1
248157005	02/28/10 20:03	958323 5	100226	MAR1
248157006	02/28/10 20:32	958323 10	100226	MAR1
248157007	02/28/10 21:01	958323 10	100226	MAR1
CCV	02/28/10 21:30	1	100226	MAR1
CCB	02/28/10 21:59	1	100226	MAR1

91 WIC100227-02CVH

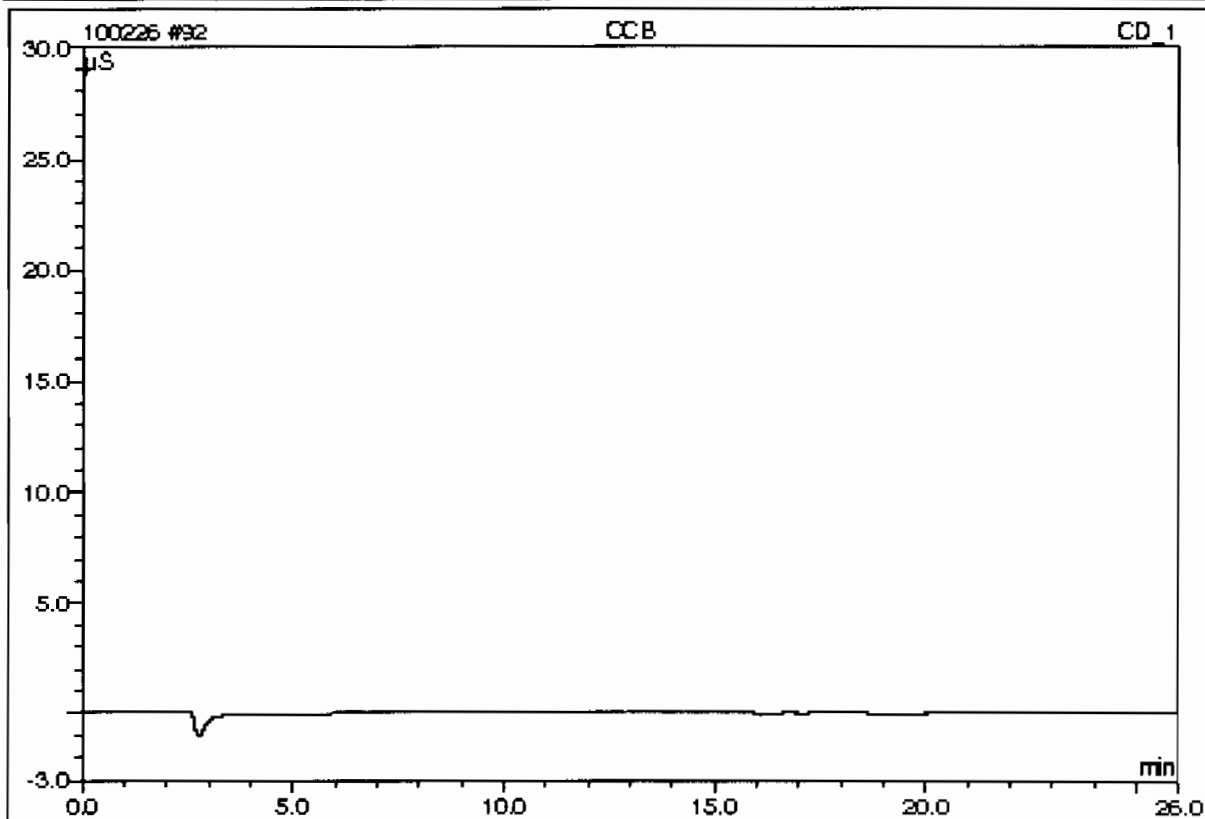
Sample Name:	WIC100227-02CVH	Injection Volume:	1.0
Vial Number:	35	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 6:39	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	n.a.	7.5458		4.31145	12.12
2	7.43	Chloride	n.a.	15.0661		6.39139	17.97
3	9.55	Nitrite-N	n.a.	7.5910		6.31237	17.74
4	11.01	Chlorate	n.a.	3.7831		0.54882	1.54
5	11.98	Bromide	n.a.	3.8361		0.59052	1.66
6	14.03	Nitrate-N	n.a.	7.5329		7.52919	21.16
7	20.62	O-Phosphate-P	n.a.	3.9175		1.07510	3.02
8	23.26	Sulfate	n.a.	30.0881		8.81772	24.79
Total:				79.3607	0.000	35.577	100.00

92 CCB

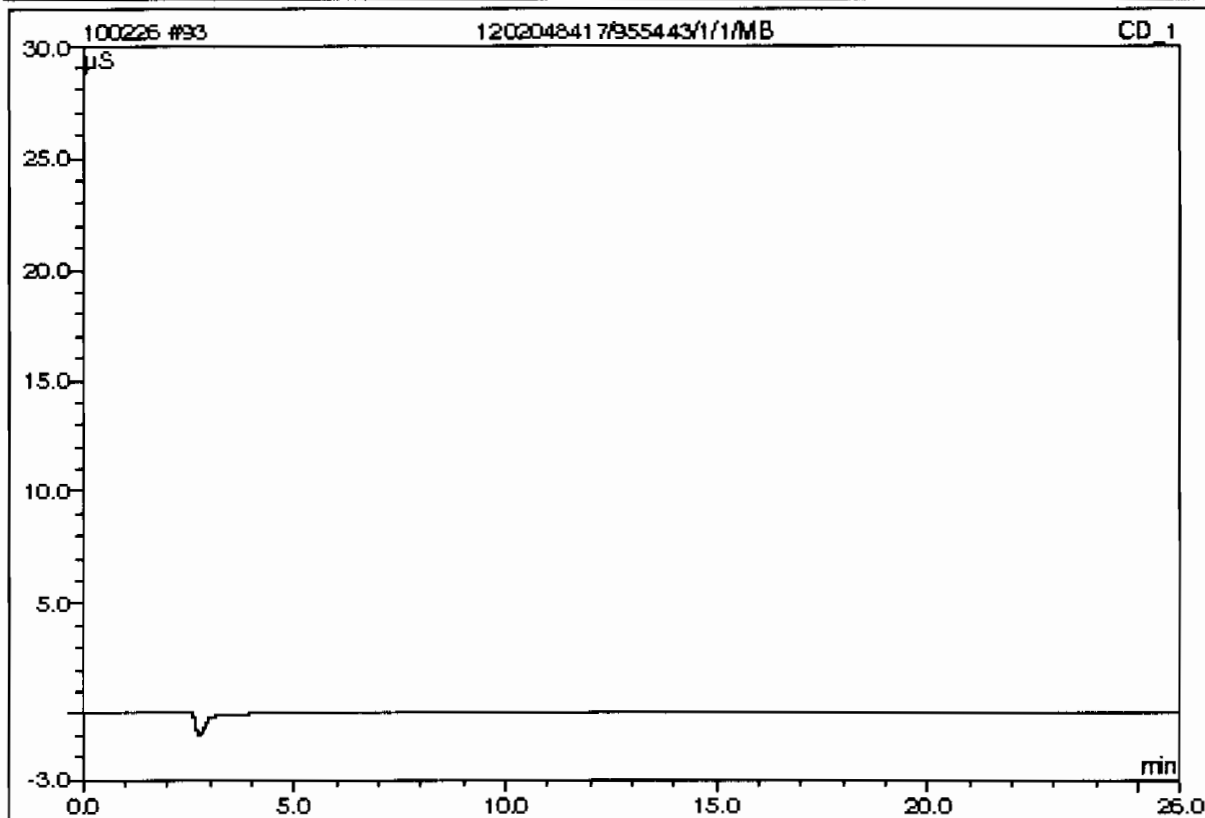
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	36	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 7:08	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

93 1202048417/955443/1/1/MB

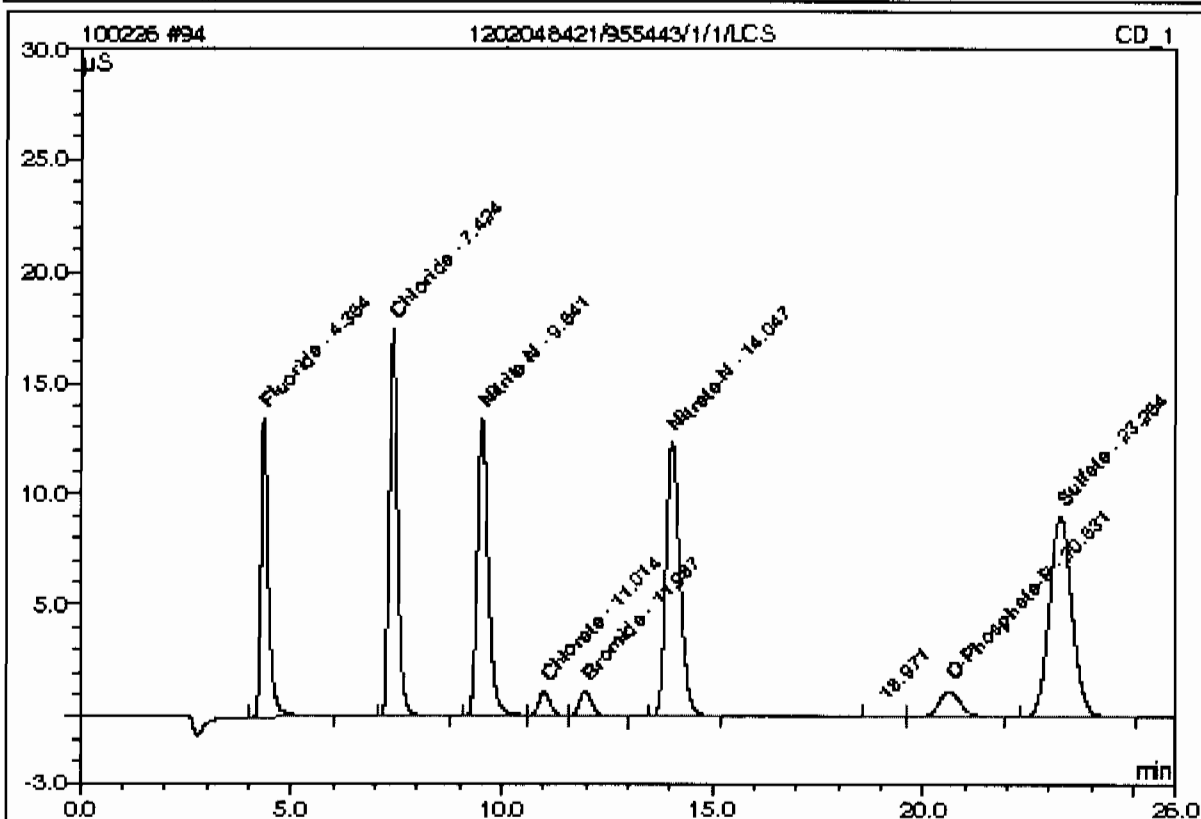
Sample Name:	1202048417/955443/1/1/MB	Injection Volume:	1.0
Vial Number:	37	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 7:37	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

94 1202048421/955443/1/1/LCS

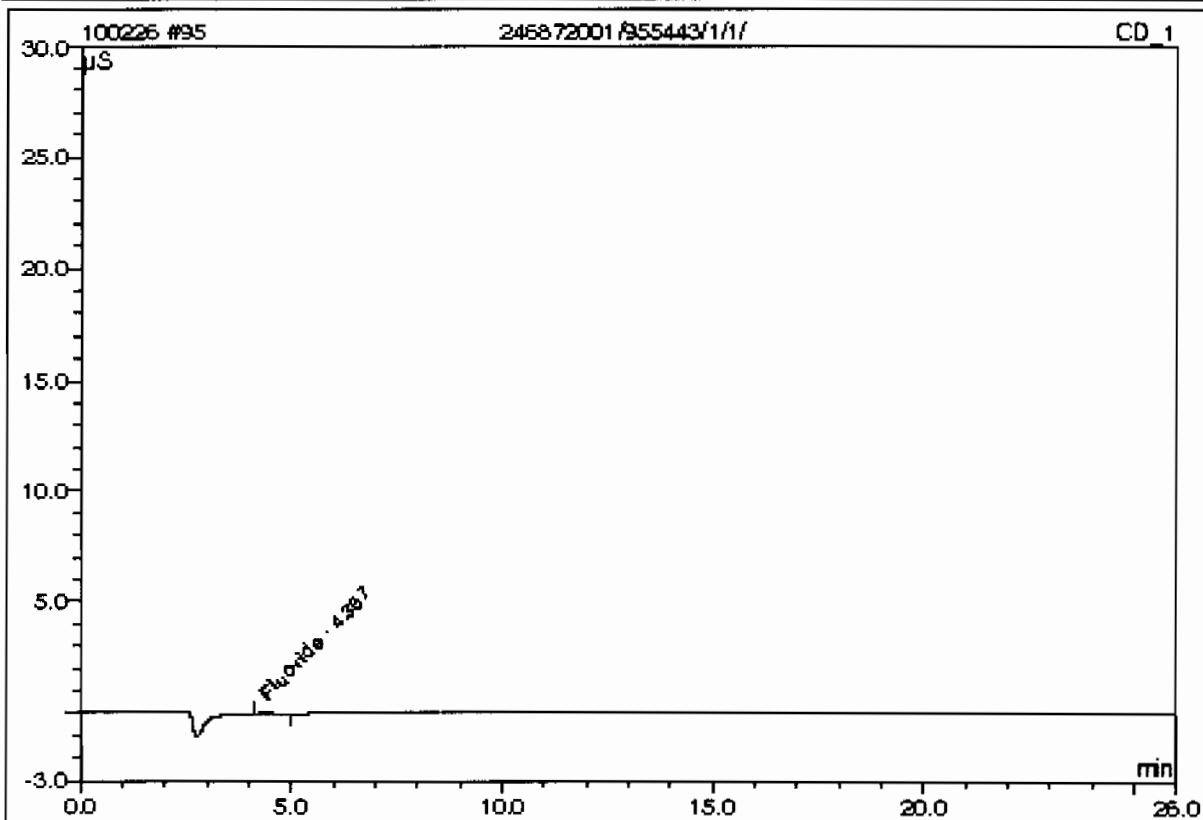
Sample Name:	1202048421/955443/1/1/LCS	Injection Volume:	1.0
Vial Number:	38	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 8:06	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	n.a.	4.8937		2.78374	12.33
2	7.42	Chloride	n.a.	9.4635		3.98550	17.66
3	9.54	Nitrite-N	n.a.	4.8293		3.99636	17.70
4	11.01	Chlorate	n.a.	2.5212		0.36353	1.61
5	11.99	Bromide	n.a.	2.5414		0.39085	1.73
6	14.05	Nitrate-N	n.a.	4.7759		4.74019	21.00
8	20.63	O-Phosphate-P	n.a.	2.6201		0.70526	3.12
9	23.25	Sulfate	n.a.	19.1537		5.58273	24.73
Total:				50.7989	0.000	22.548	99.88

95 246872001/955443/1/1/

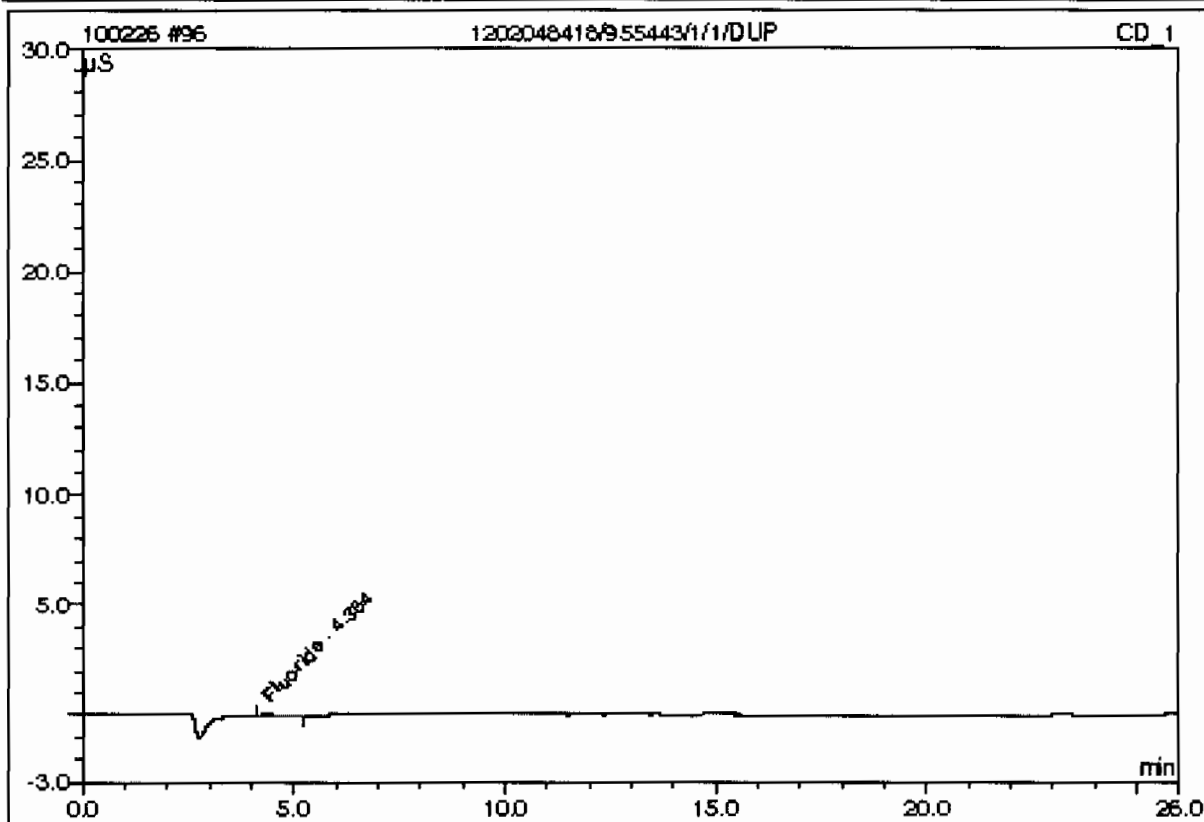
Sample Name:	246872001/955443/1/1/	Injection Volume:	1.0
Vial Number:	39	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 8:34	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	0.1016		0.02327	100.00
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.1016	0.000	0.023	100.00

96 1202048418/955443/1/1/DUP

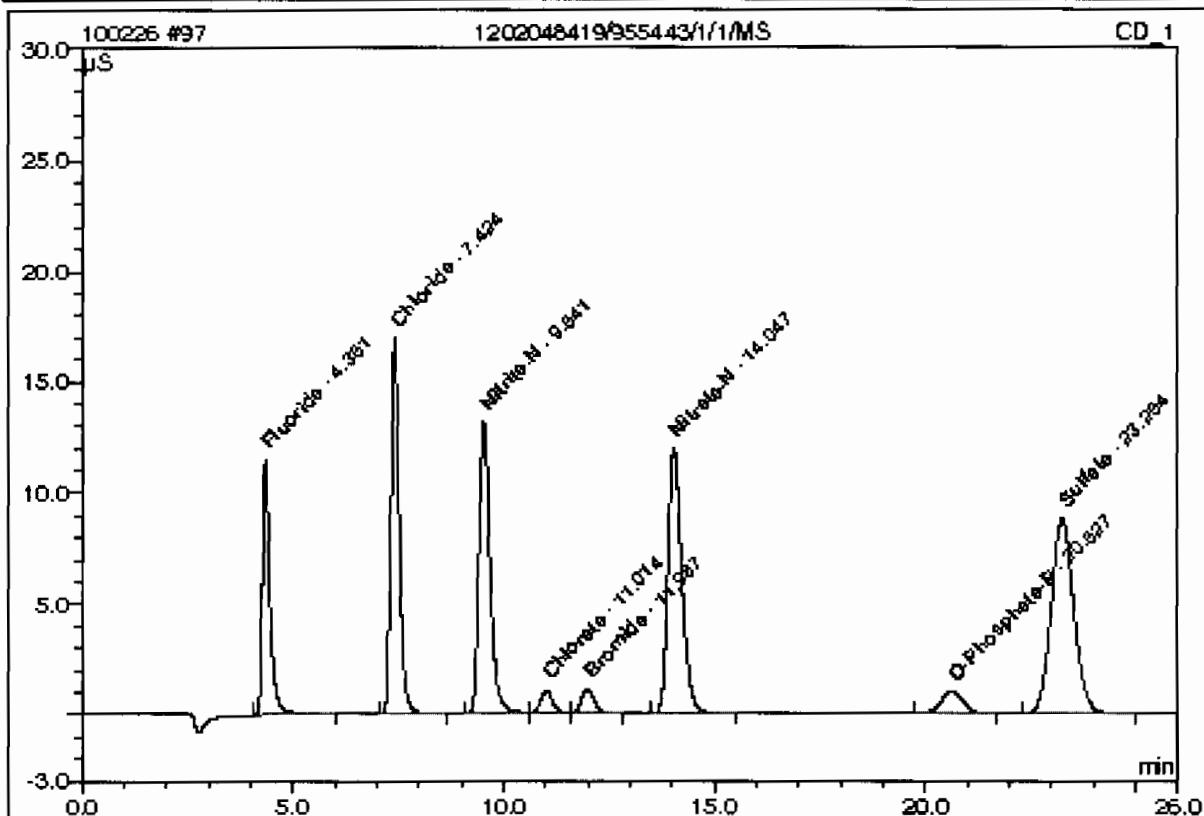
Sample Name:	1202048418/955443/1/1/DUP	Injection Volume:	1.0
Vial Number:	40	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 9:03	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	n.a.	0.1053		0.02541	100.00
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.1053	0.000	0.025	100.00

97 1202048419/955443/1/1/MS

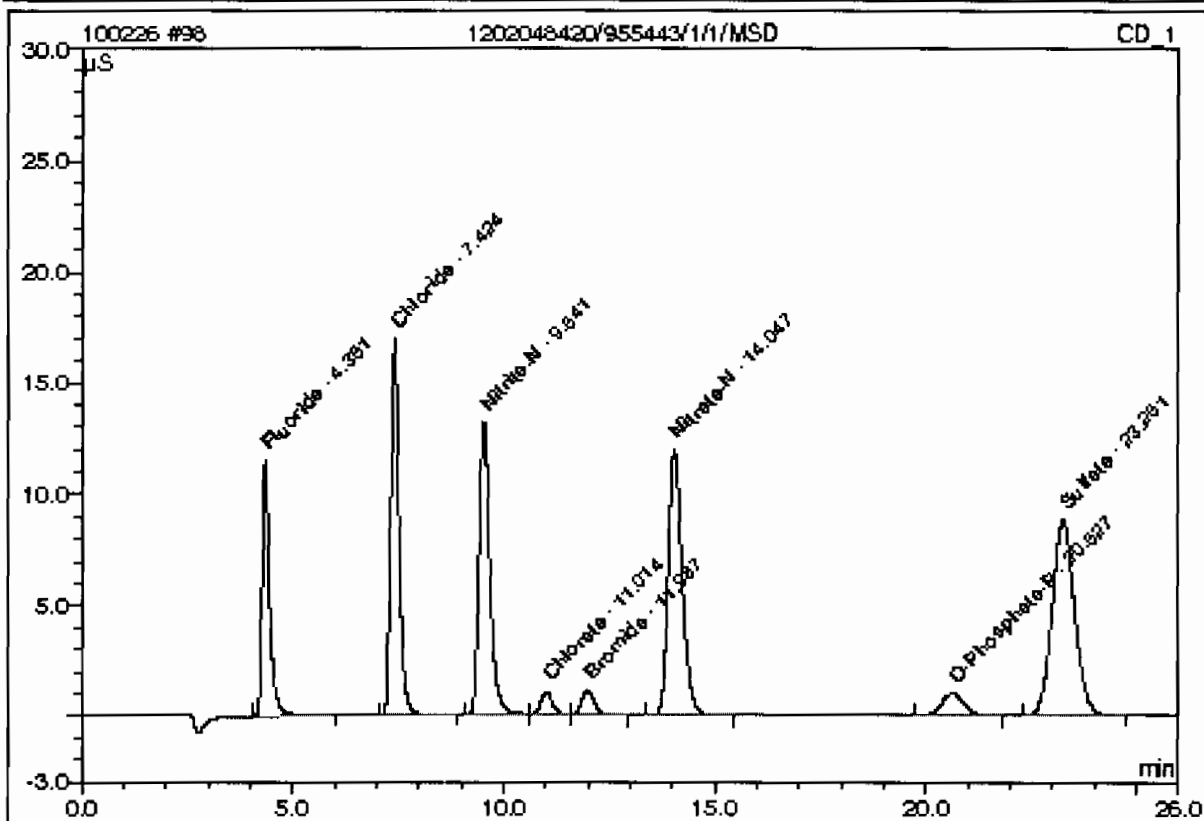
Sample Name:	1202048419/955443/1/1/MS	Injection Volume:	1.0
Vial Number:	41	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 9:32	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	n.a.	4.1845		2.37519	10.99
2	7.42	Chloride	n.a.	9.2240		3.88266	17.96
3	9.54	Nitrite-N	n.a.	4.7642		3.94176	18.23
4	11.01	Chlorate	n.a.	2.4268		0.34967	1.62
5	11.99	Bromide	n.a.	2.4186		0.37192	1.72
6	14.05	Nitrate-N	n.a.	4.6555		4.61836	21.36
7	20.63	O-Phosphate-P	n.a.	2.2219		0.59175	2.74
8	23.25	Sulfate	n.a.	18.8371		5.48905	25.39
Total:				48.7326	0.000	21.620	100.00

98 1202048420/955443/1/1/MSD

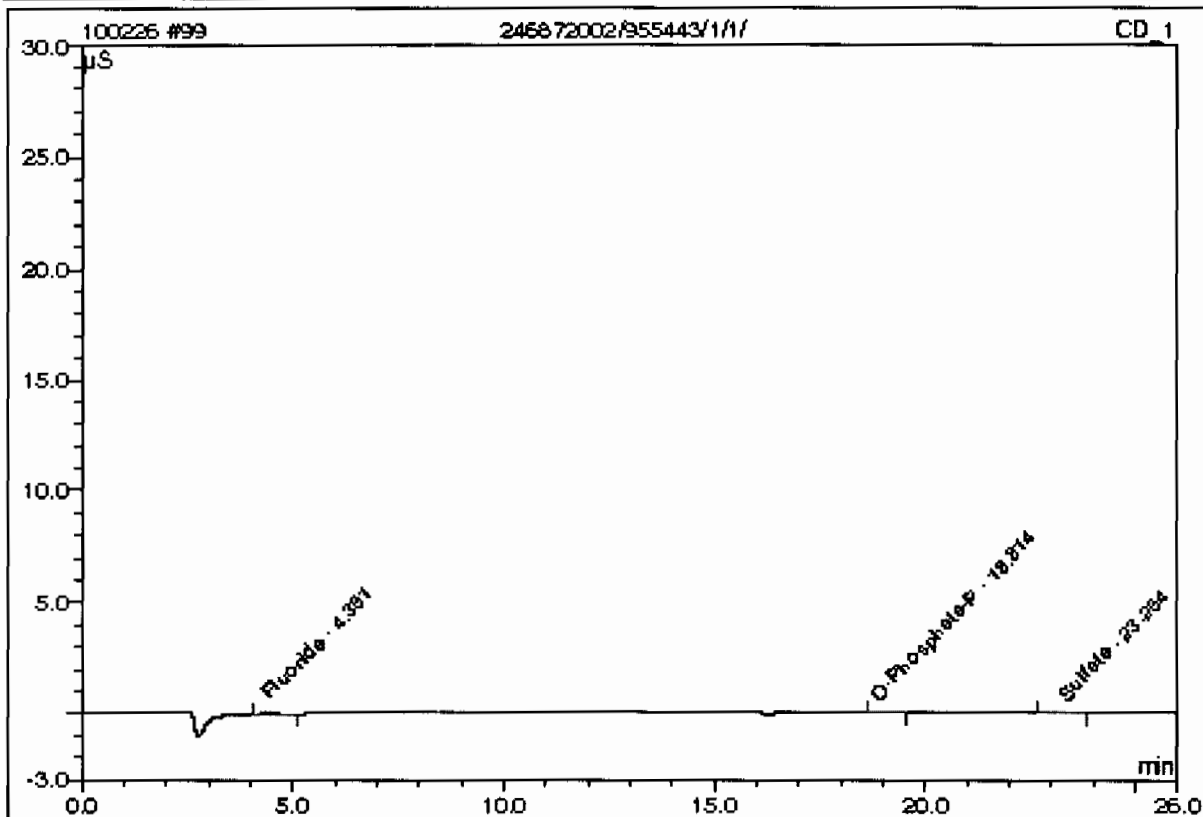
Sample Name:	1202048420/955443/1/1/MSD	Injection Volume:	1.0
Vial Number:	42	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 10:01	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.35	Fluoride	n.a.	4.1886		2.37756	11.01
2	7.42	Chloride	n.a.	9.2095		3.87642	17.95
3	9.54	Nitrite-N	n.a.	4.7615		3.93947	18.25
4	11.01	Chlorate	n.a.	2.4139		0.34778	1.61
5	11.99	Bromide	n.a.	2.4408		0.37535	1.74
6	14.05	Nitrate-N	n.a.	4.6505		4.61328	21.37
7	20.63	O-Phosphate-P	n.a.	2.2169		0.59031	2.73
8	23.25	Sulfate	n.a.	18.7740		5.47037	25.34
Total:				48.6556	0.000	21.591	100.00

99 246872002/955443/1/1/

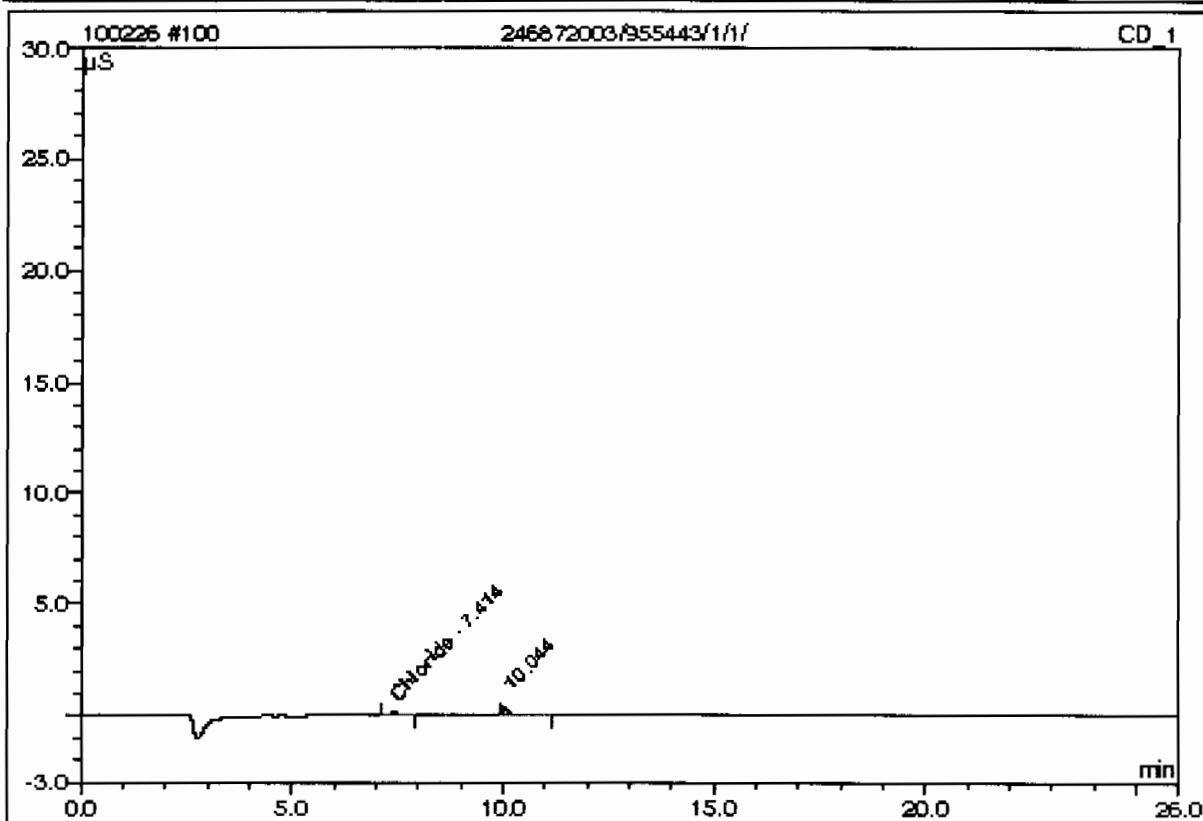
Sample Name:	246872002/955443/1/1/	Injection Volume:	1.0
Vial Number:	43	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 10:30	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	0.1227		0.03546	46.00
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
2	18.81	O-Phosphate-P	n.a.	0.2289		0.02362	30.64
3	23.25	Sulfate	n.a.	0.3448		0.01801	23.36
Total:				0.6965	0.000	0.077	100.00

100 246872003/955443/1/1/

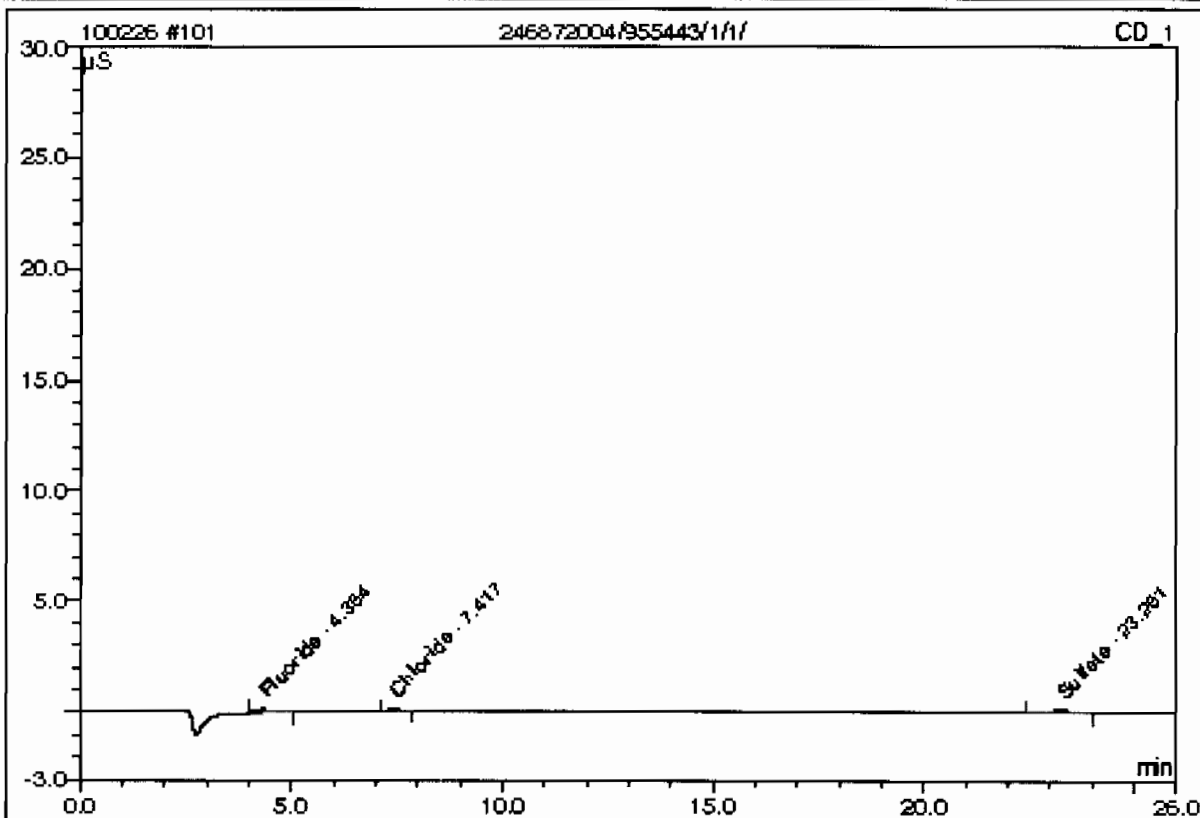
Sample Name:	246872003/955443/1/1/	Injection Volume:	1.0
Vial Number:	44	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 10:59	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
1	7.41	Chloride	n.a.	0.2738		0.03921	33.11
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.2738	0.000	0.039	33.11

101 246872004/955443/1/1/

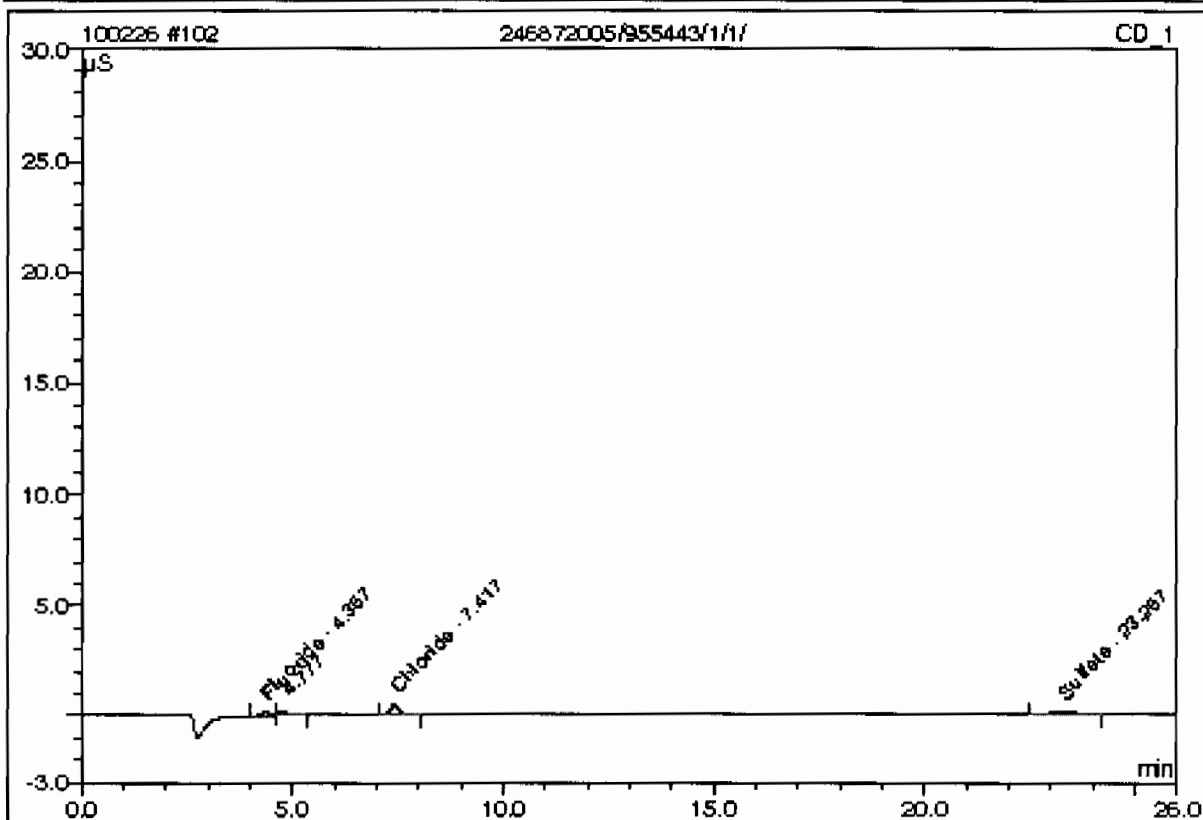
Sample Name:	246872004/955443/1/1/	Injection Volume:	1.0
Vial Number:	45	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 11:28	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	n.a.	0.1221		0.03511	27.01
2	7.42	Chloride	n.a.	0.2617		0.03404	26.18
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	23.26	Sulfate	n.a.	0.4896		0.06087	46.81
Total:				0.8735	0.000	0.130	100.00

102 246872005/955443/1/1/

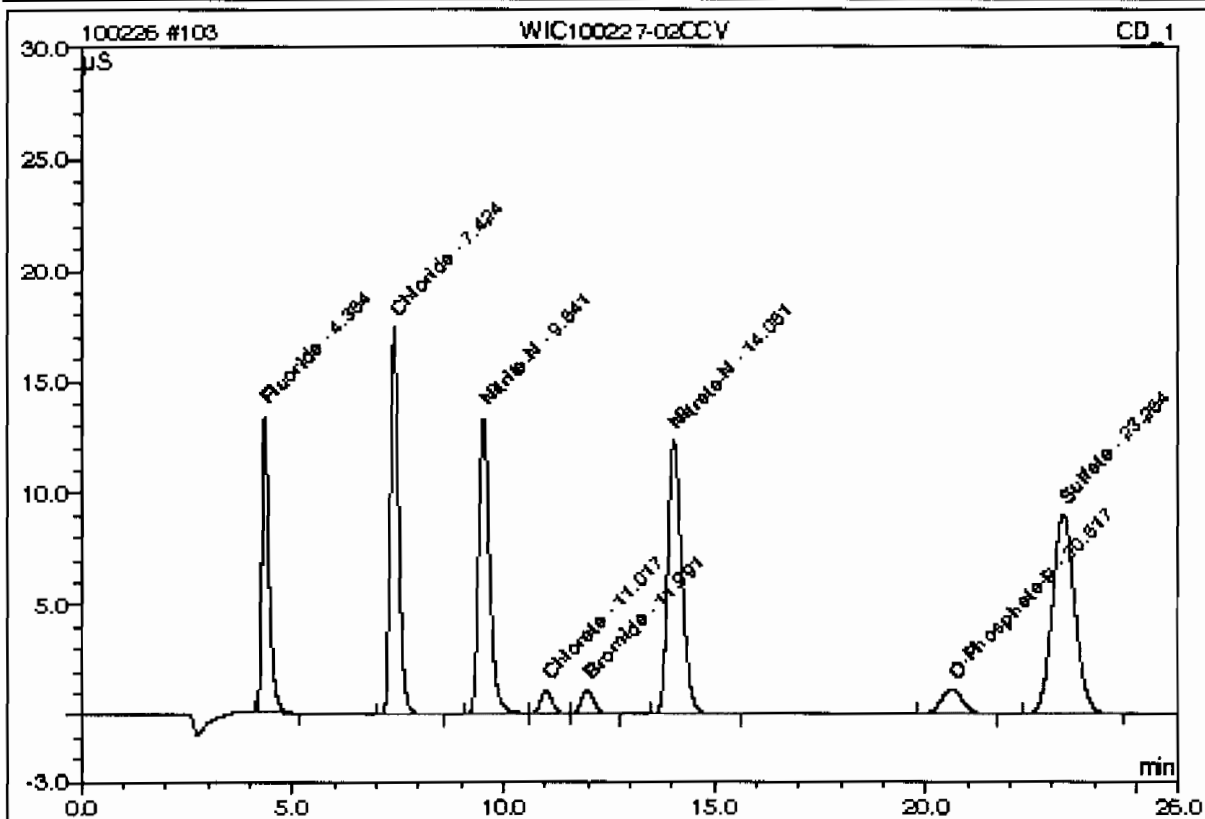
Sample Name:	246872005/955443/1/1/	Injection Volume:	1.0
Vial Number:	46	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 11:57	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.36	Fluoride	n.a.	0.1442		0.04781	14.14
3	7.42	Chloride	n.a.	0.4581		0.11839	35.02
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	23.26	Sulfate	n.a.	0.7097		0.12597	37.26
Total:				1.3120	0.000	0.292	86.42

103 WIC100227-02CCV

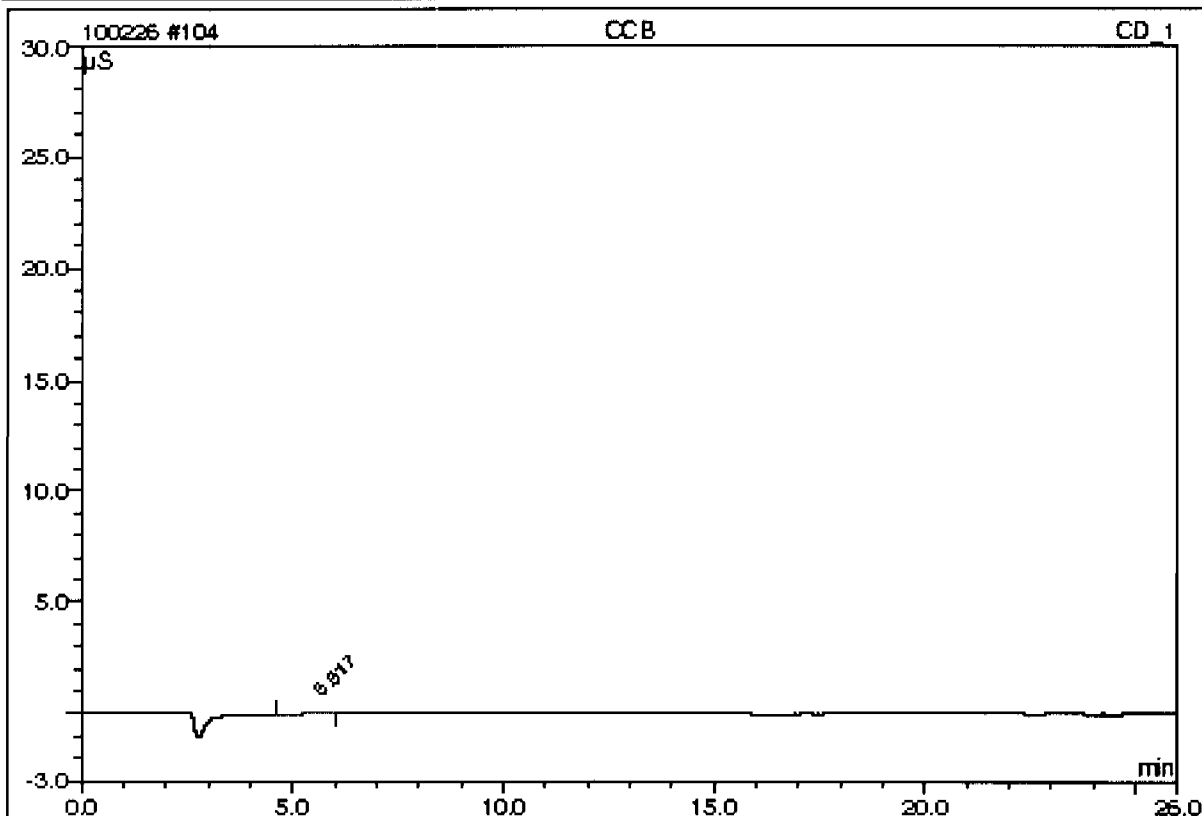
Sample Name:	WIC100227-02CCV	Injection Volume:	1.0
Vial Number:	47	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 12:26	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.35	Fluoride	n.a.	4.6680		2.65370	11.84
2	7.42	Chloride	n.a.	9.4623		3.98497	17.78
3	9.54	Nitrate-N	n.a.	4.8233		3.99133	17.81
4	11.02	Chlorate	n.a.	2.5412		0.36646	1.64
5	11.99	Bromide	n.a.	2.5147		0.38673	1.73
6	14.05	Nitrate-N	n.a.	4.8020		4.76654	21.27
7	20.62	O-Phosphate-P	n.a.	2.5505		0.68542	3.06
8	23.26	Sulfate	n.a.	19.1367		5.57768	24.89
Total:				50.4985	0.000	22.413	100.00

104 CCB

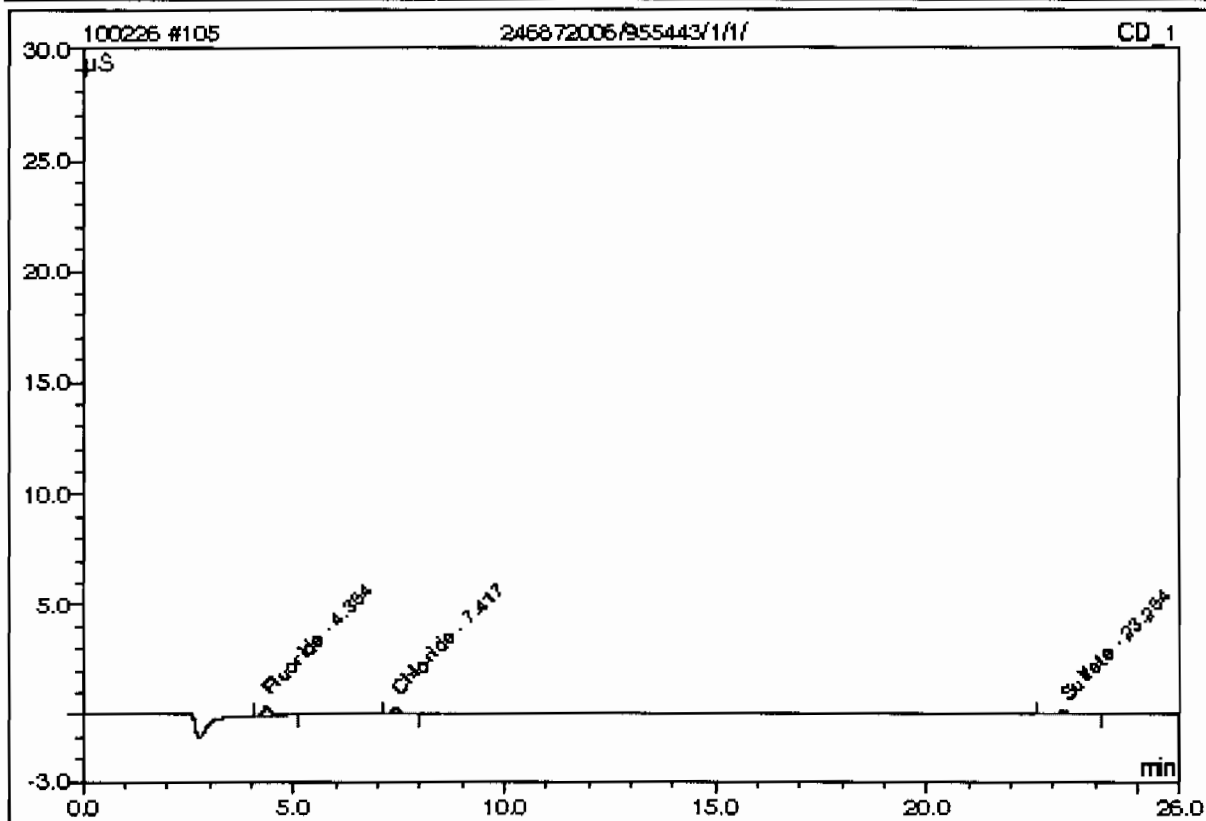
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	48	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 12:55	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrile-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

105 246872006/955443/1/1/

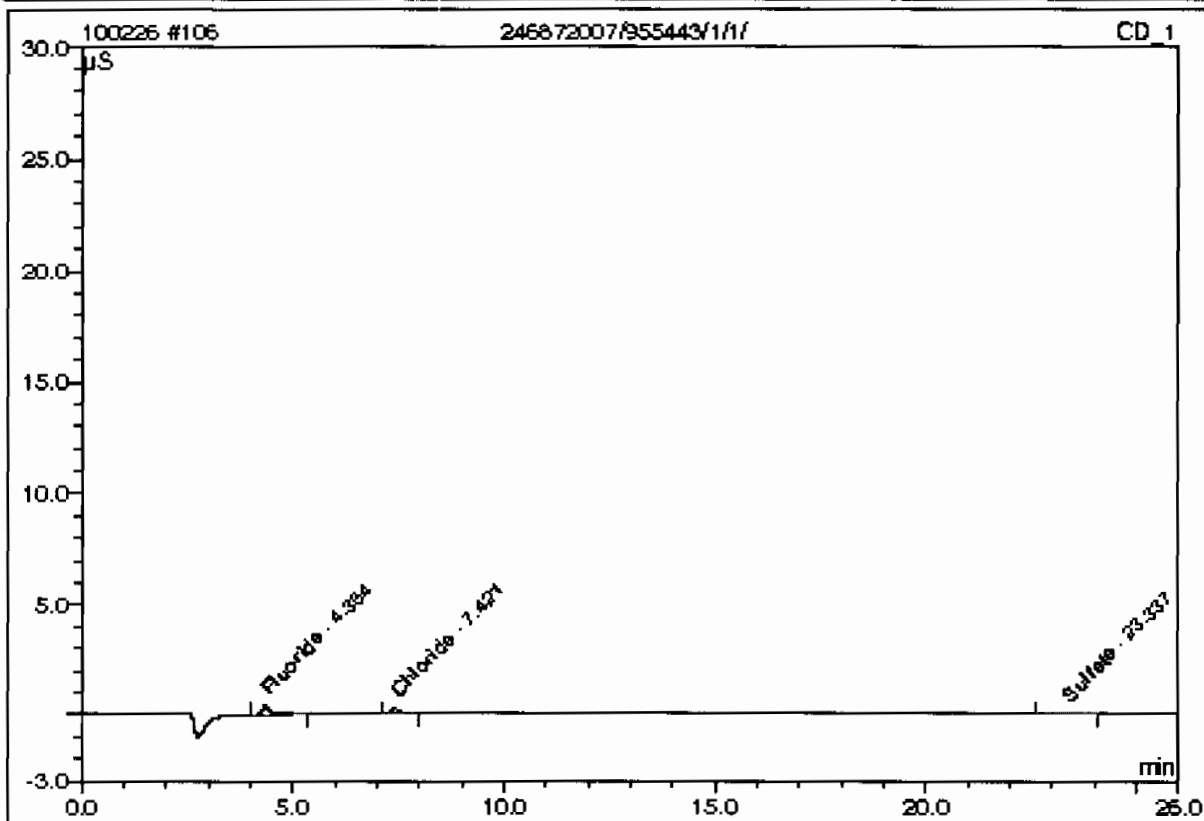
Sample Name:	246872006/955443/1/1/	Injection Volume:	1.0
Vial Number:	49	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 13:24	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	n.a.	0.2157		0.08902	38.52
2	7.42	Chloride	n.a.	0.3648		0.07830	33.88
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	23.26	Sulfate	n.a.	0.4995		0.06378	27.60
Total:				1.0800	0.000	0.231	100.00

106 246872007/955443/1/1/

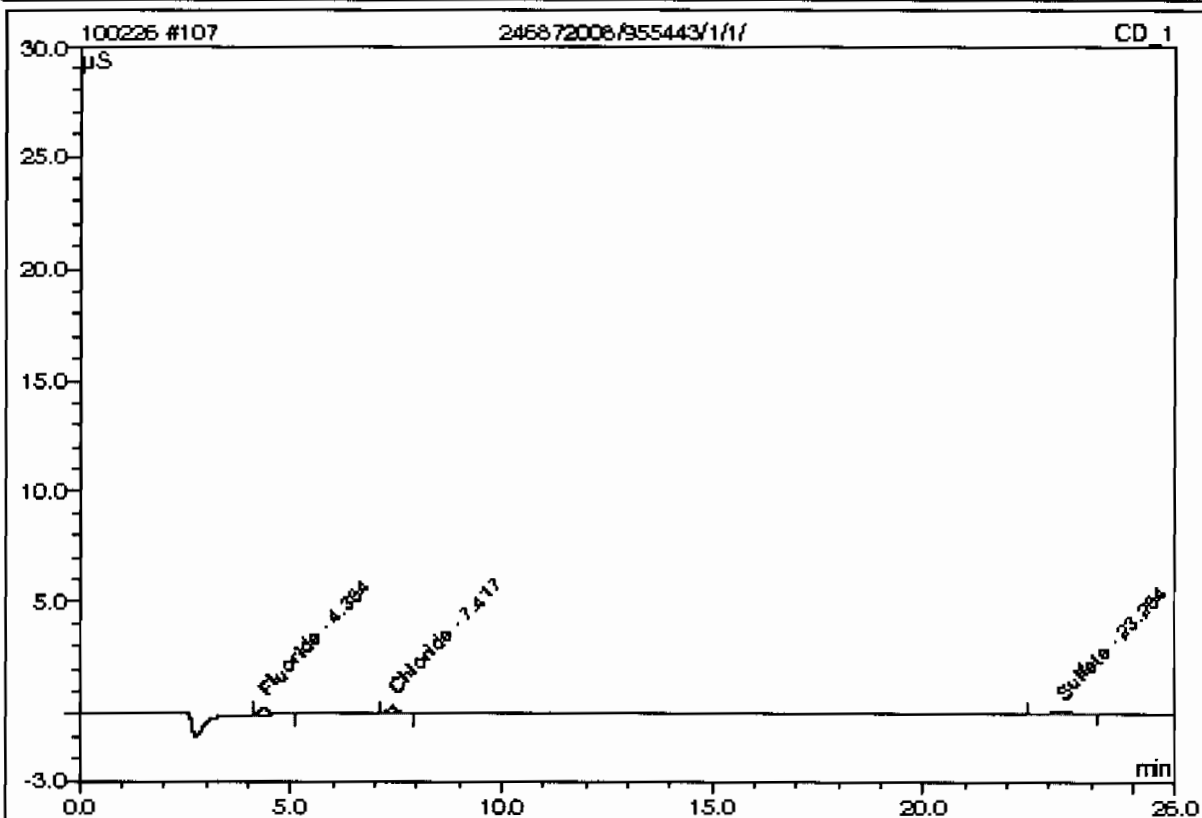
Sample Name:	246872007/955443/1/1/	Injection Volume:	1.0
Vial Number:	50	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 13:53	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;8056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.35	Fluoride	n.a.	0.2285		0.09638	48.97
2	7.42	Chloride	n.a.	0.3233		0.06047	30.72
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	23.34	Sulfate	n.a.	0.4190		0.03997	20.31
Total:				0.9707	0.000	0.197	100.00

107 246872008/955443/1/1/

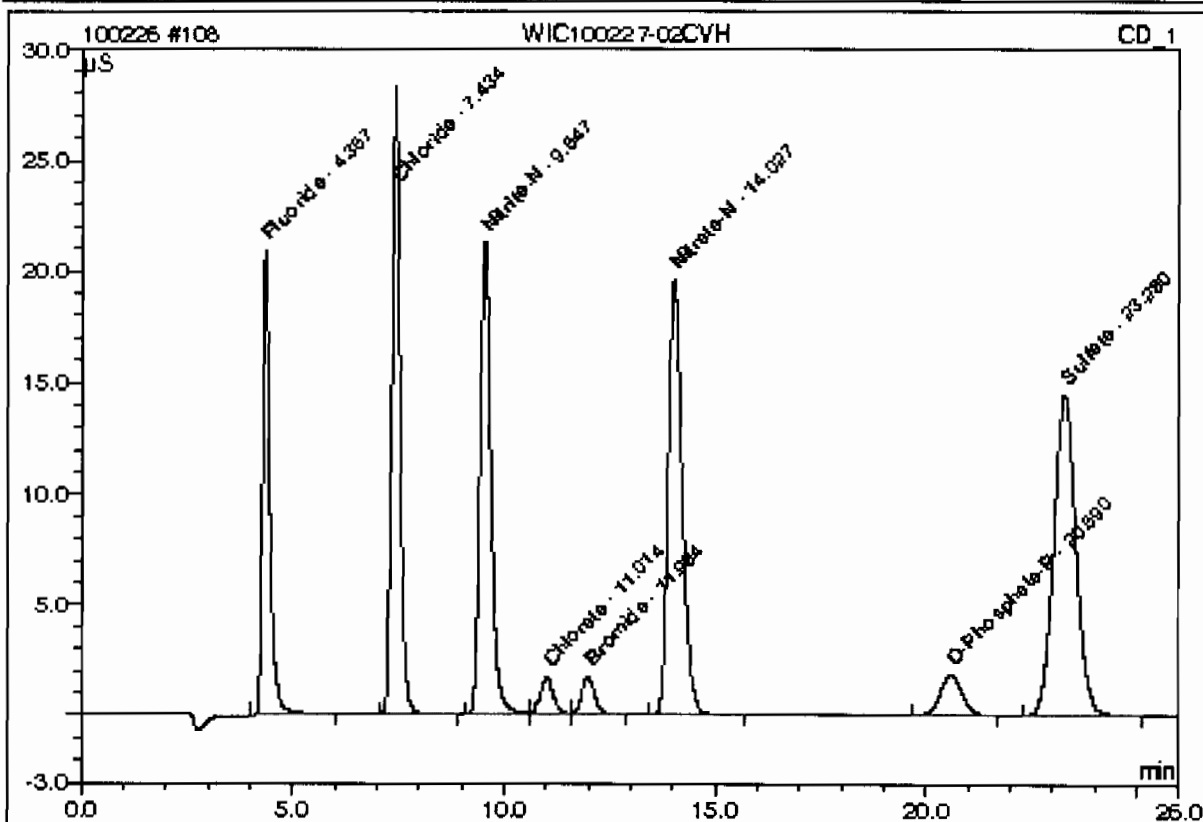
Sample Name:	246872008/955443/1/1/	Injection Volume:	1.0
Vial Number:	1	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 14:22	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.35	Fluoride	n.a.	0.1942		0.07662	32.66
2	7.42	Chloride	n.a.	0.3684		0.07985	34.04
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	23.26	Sulfate	n.a.	0.5480		0.07812	33.30
Total:				1.1105	0.000	0.235	100.00

108 WIC100227-02CVH

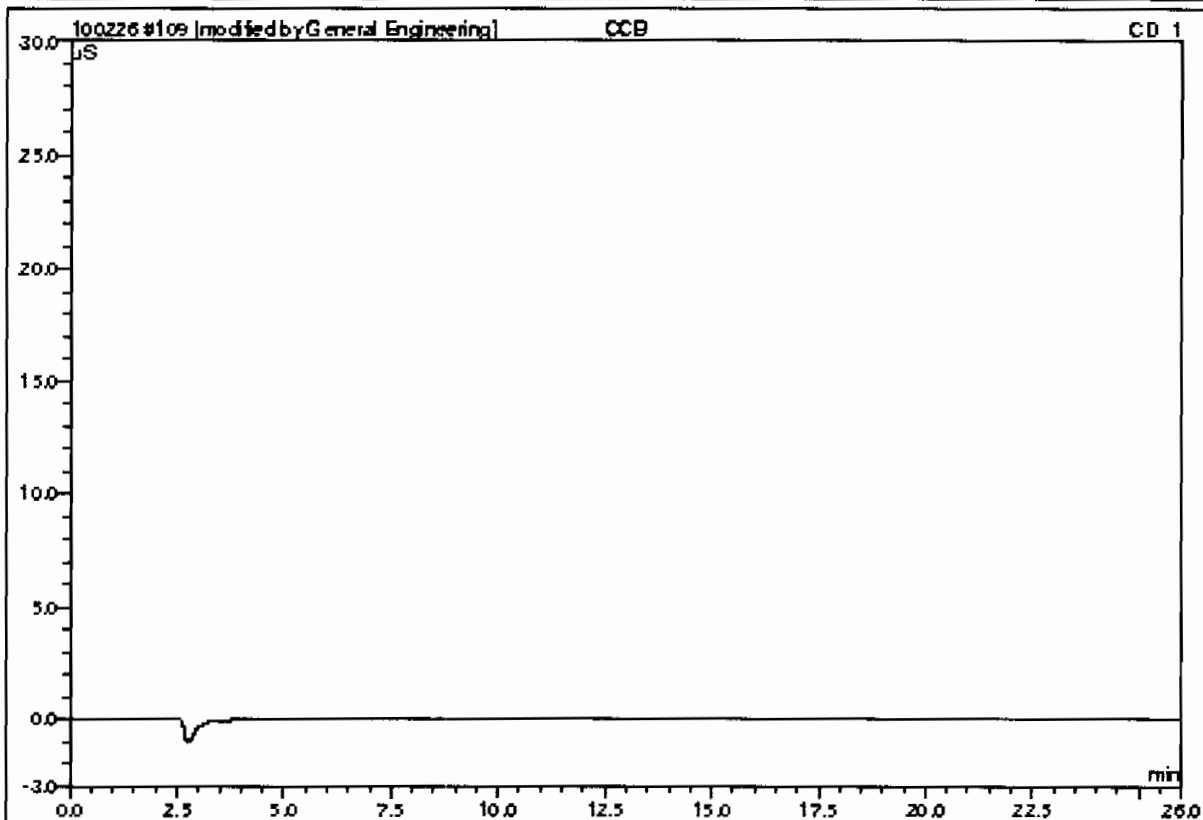
Sample Name:	WIC100227-02CVH	Injection Volume:	1.0
Vial Number:	2	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 14:50	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	7.5590		4.31905	12.11
2	7.43	Chloride	n.a.	15.0821		6.39827	17.93
3	9.55	Nitrate-N	n.a.	7.5941		6.31497	17.70
4	11.01	Chlorate	n.a.	4.0978		0.59503	1.67
5	11.98	Bromide	n.a.	3.8219		0.58833	1.65
6	14.03	Nitrate-N	n.a.	7.5439		7.54034	21.14
7	20.59	O-Phosphate-P	n.a.	3.9099		1.07291	3.01
8	23.28	Sulfate	n.a.	30.1871		8.84701	24.80
Total:				79.7959	0.000	35.676	100.00

109 CCB

Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/28/2010 15:19	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

pH

pH / Corrosivity LogBook

Analyst: EXP1
 Batch: 953045
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Type: CCV
 Sample Id: 240
 Serial Number: IMM091029-PH
 Description: PH 7 BUFFER FOR PH
 LCS
 1202042747
 IMM100215-01a
 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
1202042747 LCS		Soil	10:00	10:05	15-FEB-10 10:34	pH	20	20	6.93	20.4°C	7	99	
1202042747 LCS		Soil	10:00	10:05	15-FEB-10 10:34	pH 2	20	20	6.93	20.4°C	7	99	
246872001		Soil	10:00	10:05	15-FEB-10 10:36	pH	20	20	6.81	21.0°C			
246872001		Soil	10:00	10:05	15-FEB-10 10:36	pH 2	20	20	6.81	21.0°C			
1202042746 DUP	246872001	Soil	10:00	10:05	15-FEB-10 10:37	pH	20	20	6.86	21.0°C			.732
1202042746 DUP	246872001	Soil	10:00	10:05	15-FEB-10 10:37	pH 2	20	20	6.86	21.0°C			.732
246872002		Soil	10:00	10:05	15-FEB-10 10:39	pH	20	20	6.25	21.0°C			
246872002		Soil	10:00	10:05	15-FEB-10 10:39	pH 2	20	20	6.27	21.1°C			
246872003		Soil	10:00	10:05	15-FEB-10 10:40	pH	20	20	6.53	21.1°C			
246872003		Soil	10:00	10:05	15-FEB-10 10:40	pH 2	20	20	6.56	21.2°C			
CCV			10:00	10:05	15-FEB-10 10:42	pH	20	20	6.97	20.6°C	7	99.571	
CCV			10:00	10:05	15-FEB-10 10:42	pH 2	20	20	9.96	20.6°C	7	142.286	
246872004		Soil	10:00	10:05	15-FEB-10 10:44	pH	20	20	6.7	21.2°C			
246872004		Soil	10:00	10:05	15-FEB-10 10:44	pH 2	20	20	6.71	21.2°C			
246872005		Soil	10:00	10:05	15-FEB-10 10:46	pH	20	20	6.52	21.3°C			
246872005		Soil	10:00	10:05	15-FEB-10 10:46	pH 2	20	20	6.52	21.3°C			
246872006		Soil	10:00	10:05	15-FEB-10 10:49	pH	20	20	6.95	21.1°C			
246872006		Soil	10:00	10:05	15-FEB-10 10:49	pH 2	20	20	6.95	21.1°C			
246872007		Soil	10:00	10:05	15-FEB-10 10:51	pH	20	20	7.39	21.3°C			
246872007		Soil	10:00	10:05	15-FEB-10 10:51	pH 2	20	20	7.39	21.3°C			
246872008		Soil	10:00	10:05	15-FEB-10 10:53	pH	20	20	6.7	21.4°C			
246872008		Soil	10:00	10:05	15-FEB-10 10:53	pH 2	20	20	6.7	21.4°C			
CCV			10:00	10:05	15-FEB-10 10:54	pH	20	20	6.96	20.9°C	7	99.429	
CCV			10:00	10:05	15-FEB-10 10:54	pH 2	20	20	6.96	20.9°C	7	99.429	

Comments:

pH / Corrosivity LogBook

Calibration Information:

Run Date:	15-FEB-10 10:29	Standard	Observed	Theoretical	C	%Recovery
Instrument:	PHX370	IMM100215-PH1	4.01	4	SU	19.9 100.25
Analyst:	EXF1	IMM100215-PH-	7.01	7	SU	19.9 100.14
		UPH100215-a	10.02	10	SU	19.9 100.2
		UPH100215-02c-	2.03	2	SU	19.9 101.5
		100215-a	12.06	12	SU	19.9 100.5
		IMM100215-01a	6.98	7	SU	19.9 99.714